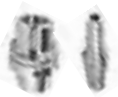
KORTOOLS



Catalogue Lndex

 P3	 P4-7	 P8-11	 P12-14	 P15-19	 P20-21
 P22-23	 P24	 P25	 P26-27	 P28	 P29-30
 P31	 P32	 P33-39	 P40-46	 P47-49	 P50
 P51-55	 P56-58	 P59	 P62-64	 P65	 P66
 P67	 P68	 P69-70	 P71	 P72-73	 P74
 P75	 P75	 P76	 P76	 P77	 P78

Catalogue Lndex

 P79	 P80	 P82	 P82	 P84-86	 P87
 P88	 P88	 P89	 P90-91	 P92-93	 P94-95
 P96-97	 P97	 P98	 P98	 P99	 P100-101
 P102	 P102	 P104	 P106	 P107	 P107
 P108	 P109	 P110	 P110	 P111	 P111-112
 P113	 P113	 P114-116	 P119-121	 P122	 P123

Catalogue Lndex

 P123	 P124	 P125-126	 P127	 P128-130	 P131-132
 P133	 P133	 P134	 P135	 P136	 P138
 P139	 P140-141	 P141	 P143	 P143	 P144
 P144	 P145	 P145	 P146	 P148	 P149
 P150	 P151	 P152	 P152	 P153	 P154
 P155	 P155	 P160	 P161	 P162	 P163

Catalogue Lndex

 P164	 P165	 P166	 P167-168	 P169	 P169
 P170	 P170	 P171	 P171	 P172-173	 P174-176
 P177	 P178	 P179	 P180	 P181	 P181
 P182	 P184	 P184	 P185	 P186	 P186
 P187-188	 P189-190	 P192	 P193-194	 P195	 P196
 P197	 P198	 P198	 P200	 P201	 P202

Catalogue Lndex

 P203	 P204	 P205	 P206	 P207	 P208
 P209	 P209	 P210	 P210	 P211	 P211
 P212	 P212	 P213	 P213	 P214-215	 P216-220
 P221	 P226	 P227	 P227	 P228	 P229
 P230-231	 P232	 P233-234	 P235	 P236	 P237-238



SHRINK FIT

BT/HSK/SK/CAT/NT

TOOL HOLDER SERIES



◆◆BT/SF SHRINK-FIT CHUCK

Poprzez nagrzewanie i chłodzenie uchwytu narzędziowego (stalowego) można osiągnąć wysoką wytrzymałość i wysoką precyzję zaciskania narzędzia (węglikowego). W porównaniu z wcześniejszą konstrukcją uchwytu narzędziowego, nowa konstrukcja opiera się na wykorzystaniu właściwości termicznego rozszerzania i kurczenia się materiałów metalowych, co stanowi przełomowe rozwiązanie. Współczynnik rozszerzalności cieplnej jest 1,6 razy większy niż w przypadku zwykłej stali, a odporność na temperaturę wynosi 720 stopni, co czyni go najbardziej odpowiednim materiałem do uchwytów narzędziowych stosowanych w gorącym montażu. Aby osiągnąć średnią temperaturę montażu na gorąco wynoszącą 300 °C, możliwe jest proste załadowanie i demontaż narzędzia. Ponadto uchwyt narzędziowy do gorącego montażu nie wymaga nakrętek, tulei zaciskowych ani innych części. Konstrukcja jest bardzo prosta, przedni koniec jest smukły, a najcieńsza ścianka boczna ma grubość 1,5 mm, co pozwala na uzyskanie najcieńszego kształtu spośród wszystkich uchwytów. Aby zredukować interferencje między uchwytem narzędziowym a obrabianym przedmiotem, długość wystająca narzędzia może być ustawiona jako najkrótsza, a zginanie jest stabilizowane. Kolejną unikalną cechą narzędzia jest to, że posiada ono 4000 różnych kształtów, co pozwala na wybór najbardziej odpowiedniego uchwytu w zależności od kształtu przedmiotu obrabianego. Może być szeroko stosowany nie tylko w obróbce form, ale także w obróbce części. W scenariuszach obróbki 5-osiowej, mikroprecyzyjnej obróbki, ciężkiej obróbki i innych, może wykazać swoje doskonałe właściwości, przyczyniając się do poprawy dokładności obróbki, wydłużenia żywotności narzędzia i obniżenia kosztów.

By heating and cooling the tool handle (steel), high strength and high precision clamping tool (carbide) can be achieved. With the previous fastening tool handle construction is completely different, is the use of metal material thermal expansion and contraction characteristics of the cross-era tool handle. The coefficient of thermal expansion is 1.6 times that of ordinary steel, and the heat resistant temperature is 720 degrees, which is the most suitable material for hot loading tool holder. To achieve an average of 300 °C low temperature hot loading, can be simple tool loading and disassembling operation. In addition, hot loading tool handle without nuts, collet and other parts. The construction is very simple, the front end is slender, and the thinnest side wall is 1.5mm thick, achieving the most slender shape of all the handles. To reduce the interference between the tool handle and the workpiece, the protruding length of the tool can be set as the shortest, and the bending is fixed. Another unique feature of the tool is that it has 4,000 different shapes and can choose the most suitable handle according to the shape of the workpiece. Not only mold processing, parts processing can also be widely corresponding. In 5 axis machining, micro precision machining, heavy machining and other processing scenarios can play its excellent performance, in improving the machining accuracy, extension Tool life and cost reduction can also make a significant contribution.



◆◆Electromagnetic induction thermal expansion instrument

Product Name	Shrink Fit Machine
Model	ST-500
Heat speed	As fast as 5s
Advantage	*Rapid heating principle *Easy operation *Easy tool change *It can supply 5-10 CNC machines
Power Supply	220v 50HZ 16A
Power Regulation	3000W/2000W/1000W
Heat the shank material	Both alloy steel and stainless steel
Heating Range	3-32mm
Warranty period	1 year
Including Accssories	Power Socket *1pc Elevated Base *1pc Spare part*2pcs
Packing	Wooden box
Weight	55KG
Size	62cm*59cm*97cm



◆◆Electromagnetic induction thermal expansion instrument
ST-550/500/450



BASIC PARAMETERS

Electromagnetic induction thermal expansion instrument
Model ： ST－450
Power Supply：220V 50/Hz 16A
Power regulation：3000W/2000W/1000W
Gas pressure range：0-0.7MPa(0-7.0bar)
Trachea diameter：8mm
Heat the shank material：Alloy steel、stainless steelstainless steel be in common use
Heating range：3－20mm
Ambient temperature：-10°to 50°

PRODUCT FEATURES

- The maximum heating speed is 5.5 seconds
- Energy conservation and environmental protection(power saving)
- Save labor cost
- The machine can supply 5-10 machining centers

MACHINE INFORMATION

Product size：550×500×850mm
Machine weight ： 40±1KG
Warranty period：12months
Colour：Black ■



BASIC PARAMETERS

Electromagnetic induction thermal expansion instrument
Model ： ST－500
Power Supply：220V 50/Hz 16A
Power regulation：3000W/2000W/1000W
Gas pressure range：0-0.7MPa(0-7.0bar)
Trachea diameter：8mm
Heat the shank material：Alloy steel、stainless steelstainless steel be in common use
Heating range：3－32mm
Ambient temperature：-10°to 50°

PRODUCT FEATURES

- The maximum heating speed is 6 seconds
- Energy conservation and environmental protection(power saving)
- Save labor cost
- The machine can supply 5-10 machining centers

MACHINE INFORMATION

Product size：550×500×850mm
Machine weight ： 40±1KG
Warranty period：18months
Colour：Black ■



BASIC PARAMETERS

Electromagnetic induction thermal expansion instrument
Model ： ST－550
Power Supply：220V 50/Hz 25A
Power regulation：4000W/2500W/1000W
Gas pressure range：0-0.7MPa(0-7.0bar)
Trachea diameter：8mm
Heat the shank material：Alloy steel、stainless steelstainless steel be in common use
Heating range：3－32mm
Ambient temperature：-10°to 50°

PRODUCT FEATURES

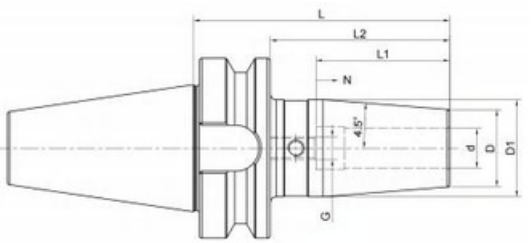
- The maximum heating speed is 5 seconds
- Energy conservation and environmental protection(power saving)
- Save labor cost
- The machine can supply 5-10 machining centers

MACHINE INFORMATION

Product size：550×500×850mm
Machine weight ： 40±1KG
Warranty period：18months
Colour：White□ Black■ (Choice)

◆◆ Shrink Fit Chuck 4.5°

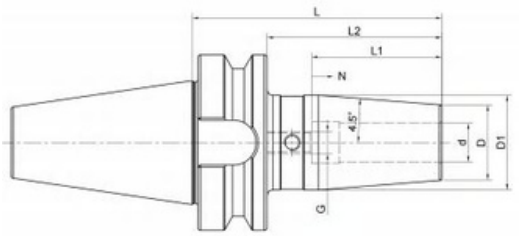




Model	d	D	D1	L	L2	L1	N	G
BT30-SF03-80	3	15	20	80	58	.	.	.
BT30-SF04-80	4	15	20	80	58	.	.	.
BT30-SF05-80	5	15	20	80	58	.	.	.
BT30-SF06-80	6	21	27	80	58	36	10	M5
BT30-SF08-80	8	21	27	80	58	36	10	M6
BT30-SF10-80	10	24	32	80	58	42	10	M8x1
BT30-SF12-80	12	24	32	80	58	47	10	M10x1
BT30-SF14-80	14	27	34	80	58	47	10	M10x1
BT30-SF16-80	16	27	34	80	58	50	10	M12x1
BT30-SF18-80	18	33	42	80	58	50	10	M12x1
BT30-SF20-80	20	33	42	80	58	52	10	M16x1
BT40-SF03-80	3	15	20	80	53	.	.	.
BT40-SF04-80	4	15	20	80	53	.	.	.
BT40-SF05-80	5	15	20	80	53	.	.	.
BT40-SF06-90	6	21	27	90	63	36	10	M5
BT40-SF08-90	8	21	27	90	63	36	10	M6
BT40-SF10-90	10	24	32	90	63	42	10	M8x1
BT40-SF12-90	12	24	32	90	63	47	10	M10x1
BT40-SF14-90	14	27	34	90	63	47	10	M10x1
BT40-SF16-90	16	27	34	90	63	50	10	M12x1
BT40-SF18-90	18	33	42	90	63	50	10	M12x1
BT40-SF20-90	20	33	42	90	63	52	10	M16x1
BT40-SF25-100	25	44	53	100	73	58	10	M16x1
BT40-SF32-100	32	44	53	100	73	62	10	M16x1

◆◆ Shrink Fit Chuck 4.5°

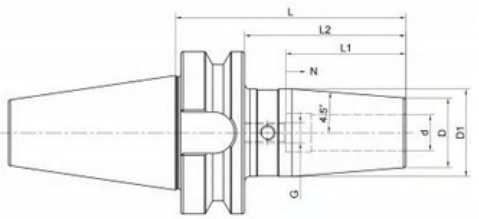




Model	d	D	D1	L	L2	L1	N	G
BT40-SF06-120	6	21	27	120	93	36	10	M5
BT40-SF08-120	8	21	27	120	93	36	10	M6
BT40-SF10-120	10	24	32	120	93	42	10	M8x1
BT40-SF12-120	12	24	32	120	93	47	10	M10x1
BT40-SF14-120	14	27	34	120	93	47	10	M10x1
BT40-SF16-120	16	27	34	120	93	50	10	M12x1
BT40-SF18-120	18	33	42	120	93	50	10	M12x1
BT40-SF20-120	20	33	42	120	93	52	10	M16x1
BT40-SF25-120	25	44	53	120	93	58	10	M16x1
BT40-SF32-120	32	44	53	120	93	62	10	M16x1
BT40-SF06-160	6	21	32	160	133	36	10	M5
BT40-SF08-160	8	21	32	160	133	36	10	M6
BT40-SF10-160	10	24	34	160	133	42	10	M8x1
BT40-SF12-160	12	24	34	160	133	47	10	M10x1
BT40-SF14-160	14	27	42	160	133	47	10	M10x1
BT40-SF16-160	16	27	42	160	133	50	10	M12x1
BT40-SF18-160	18	33	50	160	133	50	10	M12x1
BT40-SF20-160	20	33	50	160	133	52	10	M16x1
BT40-SF25-160	25	44	53	160	133	58	10	M16x1
BT40-SF32-160	32	44	53	160	133	62	10	M16x1
BT40-SF06-200	6	21	32	200	173	36	10	M5
BT40-SF08-200	8	21	32	200	173	36	10	M6
BT40-SF10-200	10	24	34	200	173	42	10	M8x1
BT40-SF12-200	12	24	34	200	173	47	10	M10x1
BT40-SF14-200	14	27	42	200	173	47	10	M10x1
BT40-SF16-200	16	27	42	200	173	50	10	M12x1
BT40-SF18-200	18	33	50	200	173	50	10	M12x1
BT40-SF20-200	20	33	50	200	173	52	10	M16x1
BT40-SF25-200	25	44	53	200	173	58	10	M16x1
BT40-SF32-200	32	44	53	200	173	62	10	M16x1

◆◆ Shrink Fit Chuck 4.5°

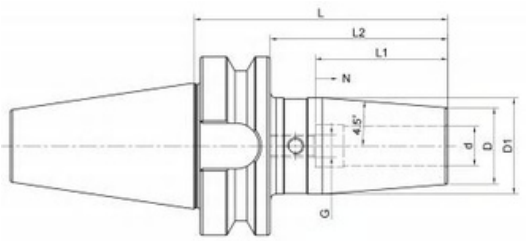




Model	d	D	D1	L	L2	L1	N	G
BT50-SF04-100	4	15	20	100	62	.	.	.
BT50-SF05-100	5	15	20	100	62	.	.	.
BT50-SF06-100	6	21	27	100	62	36	10	M5
BT50-SF08-100	8	21	27	100	62	36	10	M6
BT50-SF10-100	10	24	32	100	62	42	10	M8x1
BT50-SF12-100	12	24	32	100	62	47	10	M10x1
BT50-SF14-100	14	27	34	100	62	47	10	M10x1
BT50-SF16-100	16	27	34	100	62	50	10	M12x1
BT50-SF18-100	18	33	42	100	62	50	10	M12x1
BT50-SF20-100	20	33	42	100	62	52	10	M16x1
BT50-SF25-110	25	44	53	110	72	58	10	M16x1
BT50-SF32-110	32	44	53	110	72	62	10	M16x1
BT50-SF06-120	6	21	27	120	82	36	10	M5
BT50-SF08-120	8	21	27	120	82	36	10	M6
BT50-SF10-120	10	24	32	120	82	42	10	M8x1
BT50-SF12-120	12	24	32	120	82	47	10	M10x1
BT50-SF14-120	14	27	34	120	82	47	10	M10x1
BT50-SF16-120	16	27	34	120	82	50	10	M12x1
BT50-SF18-120	18	33	42	120	82	50	10	M12x1
BT50-SF20-120	20	33	42	120	82	52	10	M16x1
BT50-SF25-120	25	44	53	120	82	58	10	M16x1
BT50-SF32-120	32	44	53	120	82	62	10	M16x1

◆◆ Shrink Fit Chuck 4.5°

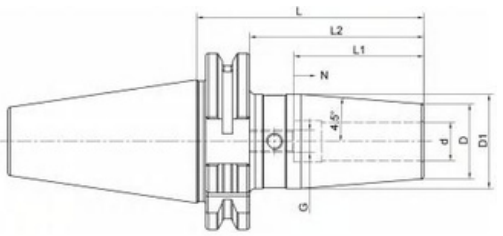




Model	d	D	D1	L	L2	L1	N	G
BT50-SF06-160	6	21	32	160	122	36	10	M5
BT50-SF08-160	8	21	32	160	122	36	10	M6
BT50-SF10-160	10	24	34	160	122	42	10	M8x1
BT50-SF12-160	12	24	34	160	122	47	10	M10x1
BT50-SF14-160	14	27	42	160	122	47	10	M10x1
BT50-SF16-160	16	27	42	160	122	50	10	M12x1
BT50-SF18-160	18	33	50	160	122	50	10	M12x1
BT50-SF20-160	20	33	50	160	122	52	10	M16x1
BT50-SF25-160	25	44	60	160	122	58	10	M16x1
BT50-SF32-160	32	44	60	160	122	62	10	M16x1
BT50-SF06-200	6	21	32	200	162	36	10	M5
BT50-SF08-200	8	21	32	200	162	36	10	M6
BT50-SF10-200	10	24	34	200	162	42	10	M8x1
BT50-SF12-200	12	24	34	200	162	47	10	M10x1
BT50-SF14-200	14	27	42	200	162	47	10	M10x1
BT50-SF16-200	16	27	42	200	162	50	10	M12x1
BT50-SF18-200	18	33	50	200	162	50	10	M12x1
BT50-SF20-200	20	33	50	200	162	52	10	M16x1
BT50-SF25-200	25	44	60	200	162	58	10	M16x1

◆◆ Shrink Fit Chuck 4.5°

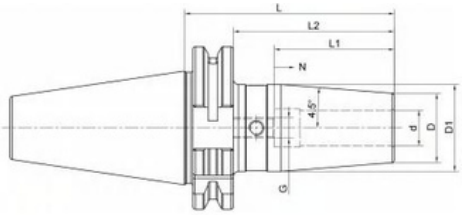




Model	d	D	D1	L	L2	L1	N	G
SK30-SF03-80	3	15	20	80	60.9	.	.	.
SK30-SF04-80	4	15	20	80	60.9	.	.	.
SK30-SF05-80	5	15	20	80	60.9	.	.	.
SK30-SF06-80	6	21	27	80	60.9	36	10	M5
SK30-SF08-80	8	21	27	80	60.9	36	10	M6
SK30-SF10-80	10	24	32	80	60.9	42	10	M8x1
SK30-SF12-80	12	24	32	80	60.9	47	10	M10x1
SK30-SF14-80	14	27	34	80	60.9	47	10	M10x1
SK30-SF16-80	16	27	34	80	60.9	50	10	M12x1
SK30-SF18-80	18	33	42	80	60.9	50	10	M12x1
SK30-SF20-80	20	33	42	80	60.9	52	10	M16x1
SK30-SF04-120	4	15	20	120	100.9	.	.	.
SK30-SF05-120	5	15	20	120	100.9	.	.	.
SK30-SF06-120	6	21	27	120	100.9	36	10	M5
SK30-SF08-120	8	21	27	120	100.9	36	10	M6
SK30-SF10-120	10	24	32	120	100.9	42	10	M8x1
SK30-SF12-120	12	24	32	120	100.9	47	10	M10x1
SK30-SF16-120	16	27	34	120	100.9	50	10	M12x1
SK40-SF03-80	3	15	20	80	60.9	.	.	.
SK40-SF04-80	4	15	20	80	60.9	.	.	.
SK40-SF05-80	5	15	20	80	60.9	.	.	.
SK40-SF06-80	6	21	27	80	60.9	36	10	M5
SK40-SF08-80	8	21	27	80	60.9	36	10	M6
SK40-SF10-80	10	24	32	80	60.9	42	10	M8x1
SK40-SF12-80	12	24	32	80	60.9	47	10	M10x1
SK40-SF14-80	14	27	34	80	60.9	47	10	M10x1
SK40-SF16-80	16	27	34	80	60.9	50	10	M12x1
SK40-SF18-80	18	33	42	80	60.9	50	10	M12x1
SK40-SF20-80	20	33	42	80	60.9	52	10	M16x1
SK40-SF25-100	25	44	50	100	80.9	58	10	M16x1
SK40-SF32-100	32	44	50	100	80.9	62	10	M16x1

◆◆ Shrink Fit Chuck 4.5°

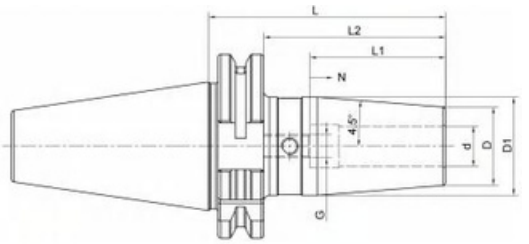




Model	d	D	D1	L	L2	L1	N	G
SK40-SF06-120	6	21	27	120	100.9	36	10	M5
SK40-SF08-120	8	21	27	120	100.9	36	10	M6
SK40-SF10-120	10	24	32	120	100.9	42	10	M8x1
SK40-SF12-120	12	24	32	120	100.9	47	10	M10x1
SK40-SF14-120	14	27	34	120	100.9	47	10	M10x1
SK40-SF16-120	16	27	34	120	100.9	50	10	M12x1
SK40-SF18-120	18	33	42	120	100.9	50	10	M12x1
SK40-SF20-120	20	33	42	120	100.9	52	10	M16x1
SK40-SF25-120	25	44	50	120	100.9	58	10	M16x1
SK40-SF06-160	6	21	32	160	140.9	36	10	M5
SK40-SF08-160	8	21	32	160	140.9	36	10	M6
SK40-SF10-160	10	24	34	160	140.9	42	10	M8x1
SK40-SF12-160	12	24	34	160	140.9	47	10	M10x1
SK40-SF14-160	14	27	42	160	140.9	47	10	M10x1
SK40-SF16-160	16	27	42	160	140.9	50	10	M12x1
SK40-SF18-160	18	33	50	160	140.9	50	10	M12x1
SK40-SF20-160	20	33	50	160	140.9	52	10	M16x1
SK40-SF25-160	25	44	50	160	140.9	58	10	M16x1
SK40-SF32-160	32	44	50	160	140.9	62	10	M16x1
SK40-SF06- 200	6	21	32	200	180.9	36	10	M5
SK40-SF08- 200	8	21	32	200	180.9	36	10	M6
SK40-SF10- 200	10	24	34	200	180.9	42	10	M8x1
SK40-SF12- 200	12	24	34	200	180.9	47	10	M10x1
SK40-SF14- 200	14	27	42	200	180.9	47	10	M10x1
SK40-SF16- 200	16	27	42	200	180.9	50	10	M12x1
SK40-SF18- 200	18	33	50	200	180.9	50	10	M12x1
SK40-SF20- 200	20	33	50	200	180.9	52	10	M16x1
SK40-SF25- 200	25	44	50	200	180.9	58	10	M16x1
SK40-SF32- 200	32	44	50	200	180.9	62	10	M16x1

◆◆ Shrink Fit Chuck 4.5°

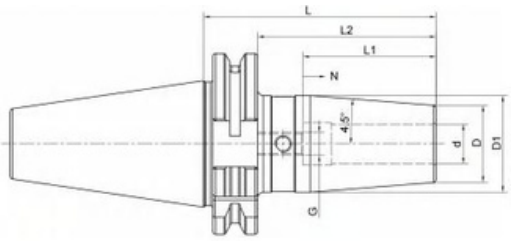




Model	d	D	D1	L	L2	L1	N	G
SK50-SF06-80	6	21	27	80	60.9	36	10	M5
SK50-SF08-80	8	21	27	80	60.9	36	10	M6
SK50-SF10-80	10	24	32	80	60.9	42	10	M8x1
SK50-SF12-80	12	24	32	80	60.9	47	10	M10x1
SK50-SF14-80	14	27	34	80	60.9	47	10	M10x1
SK50-SF16-80	16	27	34	80	60.9	50	10	M12x1
SK50-SF18-80	18	33	42	80	60.9	50	10	M12x1
SK50-SF20-80	20	33	42	80	60.9	52	10	M16x1
SK50-SF25-100	25	44	53	100	80.9	58	10	M16x1
SK50-SF32-100	32	44	53	100	80.9	62	10	M16x1
SK50-SF06-120	6	21	27	120	100.9	36	10	M5
SK50-SF08-120	8	21	27	120	100.9	36	10	M6
SK50-SF10-120	10	24	32	120	100.9	42	10	M8x1
SK50-SF12-120	12	24	32	120	100.9	47	10	M10x1
SK50-SF14-120	14	27	34	120	100.9	47	10	M10x1
SK50-SF16-120	16	27	34	120	100.9	50	10	M12x1
SK50-SF18-120	18	33	42	120	100.9	50	10	M12x1
SK50-SF20-120	20	33	42	120	100.9	52	10	M16x1
SK50-SF25-120	25	44	53	120	100.9	58	10	M16x1
SK50-SF32-120	32	44	53	120	100.9	62	10	M16x1

◆◆ Shrink Fit Chuck 4.5°

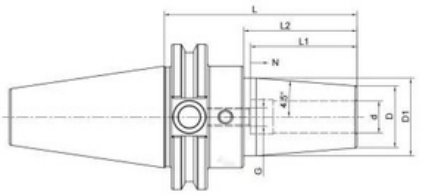




Model	d	D	D1	L	L2	L1	N	G
SK50-SF06-160	6	21	32	160	140.9	36	10	M5
SK50-SF08-160	8	21	32	160	140.9	36	10	M6
SK50-SF10-160	10	24	34	160	140.9	42	10	M8x1
SK50-SF12-160	12	24	34	160	140.9	47	10	M10x1
SK50-SF14-160	14	27	42	160	140.9	47	10	M10x1
SK50-SF16-160	16	27	42	160	140.9	50	10	M12x1
SK50-SF18-160	18	33	50	160	140.9	50	10	M12x1
SK50-SF20-160	20	33	50	160	140.9	52	10	M16x1
SK50-SF25-160	25	44	60	160	140.9	58	10	M16x1
SK50-SF32-160	32	44	60	160	140.9	62	10	M16x1
SK 50-SF 06-200	6	21	32	200	180.9	36	10	M5
SK 50-SF 08-200	8	21	32	200	180.9	36	10	M6
SK 50-SF 10-200	10	24	34	200	180.9	42	10	M8x1
SK 50-SF 12-200	12	24	34	200	180.9	47	10	M10x1
SK 50-SF 14-200	14	27	42	200	180.9	47	10	M10x1
SK 50-SF 16-200	16	27	42	200	180.9	50	10	M12x1
SK 50-SF 18-200	18	33	50	200	180.9	50	10	M12x1
SK 50-SF 20-200	20	33	50	200	180.9	52	10	M16x1
SK 50-SF 25-200	25	44	60	200	180.9	58	10	M16x1
SK 50-SF 32-200	32	44	60	200	180.9	62	10	M16x1

◆◆ Shrink Fit Chuck 4.5°

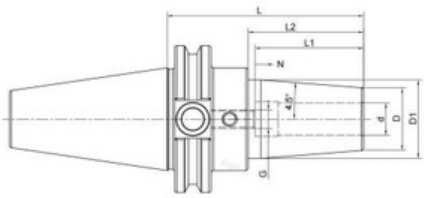




Model	d	D	D1	L	L2	L1	N	G
CAT40-SF04-80	4	15	20	80	60.9	-	-	-
CAT40-SF05-80	5	15	20	80	60.9	-	-	-
CAT40-SF06-80	6	21	27	80	60.9	36	10	M5
CAT40-SF08-80	8	21	27	80	60.9	36	10	M6
CAT40-SF10-80	10	24	32	80	60.9	42	10	M8x1
CAT40-SF12-80	12	24	32	80	60.9	47	10	M10x1
CAT40-SF14-80	14	27	34	80	60.9	47	10	M10x1
CAT40-SF16-80	16	27	34	80	60.9	50	10	M12x1
CAT40-SF18-80	18	33	42	80	60.9	50	10	M12x1
CAT40-SF20-80	20	33	42	80	60.9	52	10	M16x1
CAT40-SF25-100	25	44	50	100	80.9	58	10	M16x1
CAT40-SF32-100	32	44	50	100	80.9	62	10	M16x1
CAT40-SF06-120	6	21	27	120	100.9	36	10	M5
CAT40-SF08-120	8	21	27	120	100.9	36	10	M6
CAT40-SF10-120	10	24	32	120	100.9	42	10	M8x1
CAT40-SF12-120	12	24	32	120	100.9	47	10	M10x1
CAT40-SF14-120	14	27	34	120	100.9	47	10	M10x1
CAT40-SF16-120	16	27	34	120	100.9	50	10	M12x1
CAT40-SF18-120	18	33	42	120	100.9	50	10	M12x1
CAT40-SF20-120	20	33	42	120	100.9	52	10	M16x1
CAT40-SF25-120	25	44	50	120	100.9	58	10	M16x1
CAT40-SF06-160	6	21	32	160	140.9	36	10	M5
CAT40-SF08-160	8	21	32	160	140.9	36	10	M6
CAT40-SF10-160	10	24	34	160	140.9	42	10	M8x1
CAT40-SF12-160	12	24	34	160	140.9	47	10	M10x1
CAT40-SF14-160	14	27	42	160	140.9	47	10	M10x1
CAT40-SF16-160	16	27	42	160	140.9	50	10	M12x1
CAT40-SF18-160	18	33	50	160	140.9	50	10	M12x1
CAT40-SF20-160	20	33	50	160	140.9	52	10	M16x1
CAT40-SF25-160	25	44	50	160	140.9	58	10	M16x1
CAT40-SF32-160	32	44	50	160	140.9	62	10	M16x1

◆◆ Shrink Fit Chuck 4.5°

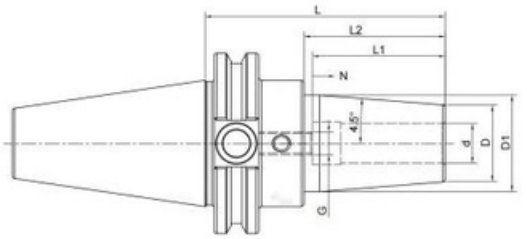




Model	d	D	D1	L	L2	L1	N	G
CAT40-SF06-200	6	21	32	200	180.9	36	10	M5
CAT40-SF08-200	8	21	32	200	180.9	36	10	M6
CAT40-SF10-200	10	24	34	200	180.9	42	10	M8x1
CAT40-SF12-200	12	24	34	200	180.9	47	10	M10x1
CAT40-SF14-200	14	27	42	200	180.9	47	10	M10x1
CAT40-SF16-200	16	27	42	200	180.9	50	10	M12x1
CAT40-SF18-200	18	33	50	200	180.9	50	10	M12x1
CAT40-SF20-200	20	33	50	200	180.9	52	10	M16x1
CAT40-SF25-200	25	44	50	200	180.9	58	10	M16x1
CAT40-SF32-200	32	44	50	200	180.9	62	10	M16x1
CAT50-SF06-80	6	21	27	80	60.9	36	10	M5
CAT50-SF08-80	8	21	27	80	60.9	36	10	M6
CAT50-SF10-80	10	24	32	80	60.9	42	10	M8x1
CAT50-SF12-80	12	24	32	80	60.9	47	10	M10x1
CAT50-SF14-80	14	27	34	80	60.9	47	10	M10x1
CAT50-SF16-80	16	27	34	80	60.9	50	10	M12x1
CAT50-SF18-80	18	33	42	80	60.9	50	10	M12x1
CAT50-SF20-80	20	33	42	80	60.9	52	10	M16x1
CAT50-SF25-100	25	44	53	100	80.9	58	10	M16x1
CAT50-SF32-100	32	44	53	100	80.9	62	10	M16x1
CAT50-SF06-120	6	21	27	120	100.9	36	10	M5
CAT50-SF08-120	8	21	27	120	100.9	36	10	M6
CAT50-SF10-120	10	24	32	120	100.9	42	10	M8x1
CAT50-SF12-120	12	24	32	120	100.9	47	10	M10x1
CAT50-SF14-120	14	27	34	120	100.9	47	10	M10x1
CAT50-SF16-120	16	27	34	120	100.9	50	10	M12x1
CAT50-SF18-120	18	33	42	120	100.9	50	10	M12x1
CAT50-SF20-120	20	33	42	120	100.9	52	10	M16x1
CAT50-SF25-120	25	44	53	120	100.9	58	10	M16x1
CAT50-SF32-120	32	44	53	120	100.9	62	10	M16x1

◆◆ Shrink Fit Chuck 4.5°

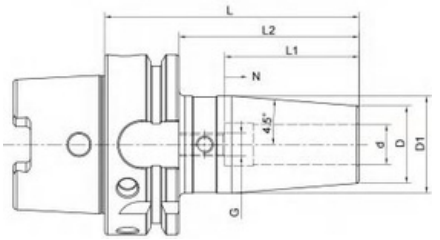




Model	d	D	D1	L	L2	L1	N	G
CAT50-SF06-160	6	21	32	160	140.9	36	10	M5
CAT50-SF08-160	8	21	32	160	140.9	36	10	M6
CAT50-SF10-160	10	24	34	160	140.9	42	10	M8x1
CAT50-SF12-160	12	24	34	160	140.9	47	10	M10x1
CAT50-SF14-160	14	27	42	160	140.9	47	10	M10x1
CAT50-SF16-160	16	27	42	160	140.9	50	10	M12x1
CAT50-SF18-160	18	33	50	160	140.9	50	10	M12x1
CAT50-SF20-160	20	33	50	160	140.9	52	10	M16x1
CAT50-SF25-160	25	44	60	160	140.9	58	10	M16x1
CAT50-SF32-160	32	44	60	160	140.9	62	10	M16x1
CAT50-SF06-200	6	21	32	200	180.9	36	10	M5
CAT50-SF08-200	8	21	32	200	180.9	36	10	M6
CAT50-SF10-200	10	24	34	200	180.9	42	10	M8x1
CAT50-SF12-200	12	24	34	200	180.9	47	10	M10x1
CAT50-SF14-200	14	27	42	200	180.9	47	10	M10x1
CAT50-SF16-200	16	27	42	200	180.9	50	10	M12x1
CAT50-SF18-200	18	33	50	200	180.9	50	10	M12x1
CAT50-SF20-200	20	33	50	200	180.9	52	10	M16x1
CAT50-SF25-200	25	44	60	200	180.9	58	10	M16x1
CAT50-SF32-200	32	44	60	200	180.9	62	10	M16x1

◆◆ Shrink Fit Chuck 4.5°

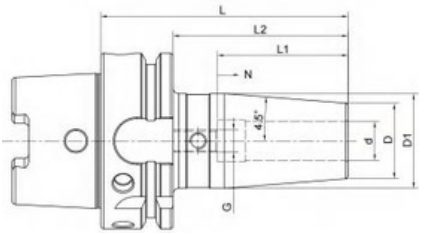




Model	d	D	D1	L	L2	L1	N	G
HSK32A-SF03-65	3	15	20	65	45	.	.	.
HSK32A-SF04-65	4	15	20	65	45	.	.	.
HSK32A-SF05-65	5	15	20	65	45	.	.	.
HSK32A-SF06-75	6	21	26	75	55	36	10	M5
HSK32A-SF08-75	8	21	26	75	55	36	10	M6
HSK32A-SF10-75	10	24	29	75	55	42	10	M8x1
HSK32A-SF12-80	12	24	29	80	60	47	5	M10x1
HSK40A-SF03-60	3	15	20	60	40	.	.	.
HSK40A-SF04-60	4	15	20	60	40	.	.	.
HSK40A-SF05-60	5	15	20	60	40	.	.	.
HSK40A-SF06-80	6	21	27	80	60	36	10	M5
HSK40A-SF08-80	8	21	27	80	60	36	10	M6
HSK40A-SF10-80	10	24	32	80	60	42	10	M8x1
HSK40A-SF12-90	12	24	32	90	70	47	10	M10x1
HSK40A-SF14-90	14	27	34	90	70	47	10	M10x1
HSK40A-SF16-90	16	27	34	90	70	50	10	M12x1
HSK50A-SF03-80	3	15	20	80	54	.	.	.
HSK50A-SF04-80	4	15	20	80	54	.	.	.
HSK50A-SF05-80	5	15	20	80	54	.	.	.
HSK50A-SF06-80	6	21	27	80	54	36	10	M5
HSK50A-SF08-80	8	21	27	80	54	36	10	M6
HSK50A-SF10-85	10	24	32	85	59	42	10	M8x1
HSK50A-SF12-90	12	24	32	90	64	47	10	M10x1
HSK50A-SF14-90	14	27	34	90	64	47	10	M10x1
HSK50A-SF16-95	16	27	34	95	69	50	10	M12x1
HSK50A-SF18-95	18	33	42	95	69	50	10	M12x1
HSK50A-SF20-100	20	33	42	100	74	52	10	M16x1

◆◆ Shrink Fit Chuck 4.5°

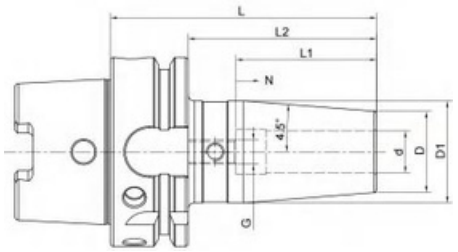




Model	d	D	D1	L	L2	L1	N	G
HSK63A-SF03-80	3	15	20	80	54	.	.	.
HSK63A-SF04-80	4	15	20	80	54	.	.	.
HSK63A-SF05-80	5	15	20	80	54	.	.	.
HSK63A-SF06-80	6	21	27	80	54	36	10	M5
HSK63A-SF08-80	8	21	27	80	54	36	10	M6
HSK63A-SF10-85	10	24	32	85	59	42	10	M8x1
HSK63A-SF12-90	12	24	32	90	64	47	10	M10x1
HSK63A-SF14-90	14	27	34	90	64	47	10	M10x1
HSK63A-SF16-95	16	27	34	95	69	50	10	M12x1
HSK63A-SF18-95	18	33	42	95	69	50	10	M12x1
HSK63A-SF20-100	20	33	42	100	74	52	10	M16x1
HSK63A-SF25-115	25	44	52.5	115	89	58	10	M16x1
HSK63A-SF32-120	32	44	52.5	120	94	62	10	M16x1
HSK63A-SF04-120	4	15	20	120	94	.	.	.
HSK63A-SF06-120	6	21	27	120	94	36	10	M5
HSK63A-SF08-120	8	21	27	120	94	36	10	M6
HSK63A-SF10-120	10	24	32	120	94	42	10	M8x1
HSK63A-SF12-120	12	24	32	120	94	47	10	M10x1
HSK63A-SF14-120	14	27	34	120	94	47	10	M10x1
HSK63A-SF16-120	16	27	34	120	94	50	10	M12x1
HSK63A-SF18-120	18	33	42	120	94	50	10	M12x1
HSK63A-SF20-120	20	33	42	120	94	52	10	M16x1
HSK63A-SF25-120	25	44	52.5	120	94	58	10	M16x1
HSK63A-SF32-120	32	44	52.5	120	94	62	10	M16x1

◆◆ Shrink Fit Chuck 4.5°

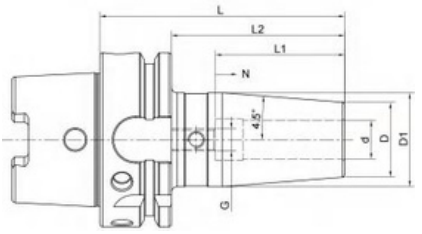




Model	d	D	D1	L	L2	L1	N	G
HSK63A-SF04-160	4	15	25	160	134			
HSK63A-SF06-160	6	21	32	160	134	36	10	M5
HSK63A-SF08-160	8	21	32	160	134	36	10	M6
HSK63A-SF10-160	10	24	34	160	134	42	10	M8x1
HSK63A-SF12-160	12	24	34	160	134	47	10	M10x1
HSK63A-SF14-160	14	27	42	160	134	47	10	M10x1
HSK63A-SF16-160	16	27	42	160	134	50	10	M12x1
HSK63A-SF18-160	18	33	50	160	134	50	10	M12x1
HSK63A-SF20-160	20	33	50	160	134	52	10	M16x1
HSK63A-SF25-160	25	44	52.5	160	134	58	10	M16x1
HSK63A-SF32-160	32	44	52.5	160	134	62	10	M16x1
HSK63A-SF06-200	6	21	32	200	174	36	10	M5
HSK63A-SF08-200	8	21	32	200	174	36	10	M6
HSK63A-SF10-200	10	24	34	200	174	42	10	M8x1
HSK63A-SF12-200	12	24	34	200	174	47	10	M10x1
HSK63A-SF14-200	14	27	42	200	174	47	10	M10x1
HSK63A-SF16-200	16	27	42	200	174	50	10	M12x1
HSK63A-SF18-200	18	33	50	200	174	50	10	M12x1
HSK63A-SF20-200	20	33	50	200	174	52	10	M16x1
HSK63A-SF25-200	25	44	52.5	200	174	58	10	M16x1
HSK63A-SF32-200	32	44	52.5	200	174	62	10	M16x1

◆◆ Shrink Fit Chuck 4.5°

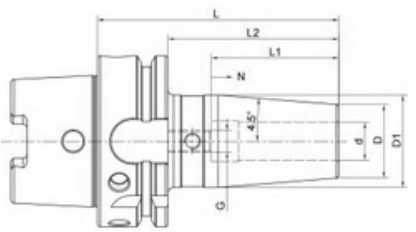




Model	d	D	D1	L	L2	L1	N	G
HSK100A-SF06-85	6	21	27	85	56	36	10	M5
HSK100A-SF08-85	8	21	27	85	56	36	10	M6
HSK100A-SF10-90	10	24	32	90	61	42	10	M8x1
HSK100A-SF12-95	12	24	32	95	66	47	10	M10x1
HSK100A-SF14-95	14	27	34	95	66	47	10	M10x1
HSK100A-SF16-100	16	27	34	100	71	50	10	M12x1
HSK100A-SF18-100	18	33	42	100	71	50	10	M12x1
HSK100A-SF20-105	20	33	42	105	76	52	10	M16x1
HSK100A-SF25-115	25	44	53	115	86	58	10	M16x1
HSK100A-SF32-120	32	44	53	120	91	62	10	M16x1
HSK100A-SF06-120	6	21	27	120	91	36	10	M5
HSK100A-SF08-120	8	21	27	120	91	36	10	M6
HSK100A-SF10-120	10	24	32	120	91	42	10	M8x1
HSK100A-SF12-120	12	24	32	120	91	47	10	M10x1
HSK100A-SF14-120	14	27	34	120	91	47	10	M10x1
HSK100A-SF16-120	16	27	34	120	91	50	10	M12x1
HSK100A-SF18-120	18	33	42	120	91	50	10	M12x1
HSK100A-SF20-120	20	33	42	120	91	52	10	M16x1
HSK100A-SF25-120	25	44	53	120	91	58	10	M16x1
HSK100A-SF32-120	32	44	53	120	91	62	10	M16x1

◆◆ Shrink Fit Chuck 4.5°

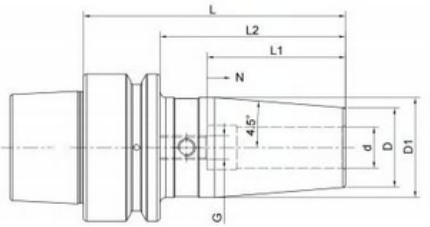




Model	d	D	D1	L	L2	L1	N	G
HSK100A-SF06-160	6	21	32	160	131	36	10	M5
HSK100A-SF08-160	8	21	32	160	131	36	10	M6
HSK100A-SF10-160	10	24	34	160	131	42	10	M8x1
HSK100A-SF12-160	12	24	34	160	131	47	10	M10x1
HSK100A-SF14-160	14	27	42	160	131	47	10	M10x1
HSK100A-SF16-160	16	27	42	160	131	50	10	M12x1
HSK100A-SF18-160	18	33	50	160	131	50	10	M12x1
HSK100A-SF20-160	20	33	50	160	131	52	10	M16x1
HSK100A-SF25-160	25	44	60	160	131	58	10	M16x1
HSK100A-SF32-160	32	44	60	160	131	62	10	M16x1
HSK100A-SF06-200	6	21	32	200	171	36	10	M5
HSK100A-SF08-200	8	21	32	200	171	36	10	M6
HSK100A-SF10-200	10	24	34	200	171	42	10	M8x1
HSK100A-SF12-200	12	24	34	200	171	47	10	M10x1
HSK100A-SF14-200	14	27	42	200	171	47	10	M10x1
HSK100A-SF16-200	16	27	42	200	171	50	10	M12x1
HSK100A-SF18-200	18	33	50	200	171	50	10	M12x1
HSK100A-SF20-200	20	33	50	200	171	52	10	M16x1
HSK100A-SF25-200	25	44	60	200	171	58	10	M16x1
HSK100A-SF32-200	32	44	60	200	171	62	10	M16x1

◆◆ Shrink Fit Chuck 4.5°

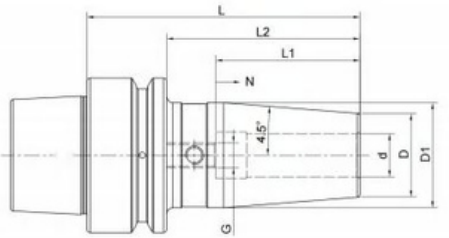




Model	d	D	D1	L	L2	L1	N	G
HSK32E-SF03-60	3	15	20	60	40	.	.	.
HSK32E-SF04-60	4	15	20	60	40	.	.	.
HSK32E-SF05-60	5	15	20	60	40	.	.	.
HSK32E-SF06-70	6	20	26	70	50	36	10	M5
HSK32E-SF08-70	8	20	26	70	50	36	10	M6
HSK32E-SF10-70	10	24	29	70	50	42	10	M8x1
HSK32E-SF12-70	12	24	29	70	50	47	10	M10x1
HSK40E-SF03-60	3	15	20	60	40	.	.	.
HSK40E-SF04-60	4	15	20	60	40	.	.	.
HSK40E-SF05-60	5	15	20	60	40	.	.	.
HSK40E-SF06-65	6	21	27	65	45	36	.	.
HSK40E-SF08-65	8	21	27	65	45	36	.	.
HSK40E-SF10-65	10	24	30	65	45	42	.	.
HSK40E-SF12-65	12	24	30	65	45	47	.	.
HSK40E-SF03-80	3	15	20	80	60	.	.	.
HSK40E-SF04-80	4	15	20	80	60	.	.	.
HSK40E-SF05-80	5	15	20	80	60	.	.	.
HSK40E-SF06-80	6	21	27	80	60	36	10	M5
HSK40E-SF08-80	8	21	27	80	60	36	10	M6
HSK40E-SF10-80	10	24	32	80	60	42	10	M8x1
HSK40E-SF12-90	12	24	32	90	70	47	10	M10x1
HSK40E-SF16-90	16	27	34	90	70	50	10	M12x1
HSK40E-SF03-120	3	15	20	120	100	.	.	.
HSK40E-SF04-120	4	15	20	120	100	.	.	.
HSK40E-SF05-120	5	15	20	120	100	.	.	.
HSK40E-SF06-120	6	21	27	120	100	36	10	M5
HSK40E-SF08-120	8	21	27	120	100	36	10	M6
HSK40E-SF10-120	10	24	32	120	100	42	10	M8x1
HSK40E-SF12-120	12	24	32	120	100	47	10	M10x1

◆◆ Shrink Fit Chuck 4.5°

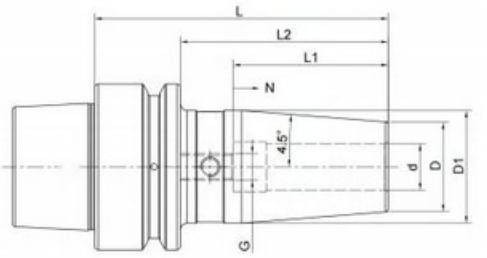




Model	d	D	D1	L	L2	L1	N	G
HSK50E-SF03-80	3	15	20	80	54	.	.	.
HSK50E-SF04-80	4	15	20	80	54	.	.	.
HSK50E-SF05-80	5	15	20	80	54	.	.	.
HSK50E-SF06-80	6	21	27	80	54	36	10	M5
HSK50E-SF08-80	8	21	27	80	54	36	10	M6
HSK50E-SF10-85	10	24	32	85	59	42	10	M8x1
HSK50E-SF12-90	12	24	32	90	64	47	10	M10x1
HSK50E-SF14-90	14	27	34	90	64	47	10	M10x1
HSK50E-SF16-95	16	27	34	95	69	50	10	M12x1
HSK50E-SF18-95	18	33	42	95	69	50	10	M12x1
HSK50E-SF20-100	20	33	42	100	74	52	10	M16x1
HSK63E-SF06-90	6	21	27	90	64	36	10	M5
HSK63E-SF08-90	8	21	27	90	64	36	10	M6
HSK63E-SF10-90	10	24	32	90	64	42	10	M8x1
HSK63E-SF12-90	12	24	32	90	64	47	10	M10x1
HSK63E-SF14-90	14	27	34	90	64	47	10	M10x1
HSK63E-SF16-95	16	27	34	95	69	50	10	M12x1
HSK63E-SF18-95	18	33	42	95	69	50	10	M12x1
HSK63E-SF20-100	20	33	42	100	74	52	10	M16x1
HSK63E-SF25-120	25	44	53	120	89	58	10	M16x1

◆◆ Shrink Fit Chuck 4.5°

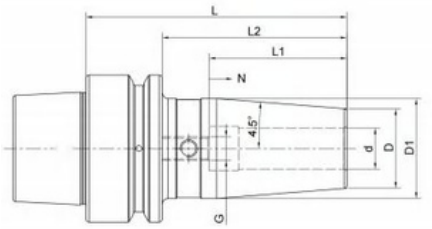




Model	d	D	D1	L	L2	L1	N	G
HSK40F-SF03-60	3	15	20	60	40	.	.	.
HSK40F-SF04-60	4	15	20	60	40	.	.	.
HSK40F-SF05-60	5	15	20	60	40	.	.	.
HSK40F-SF06-65	6	21	27	65	45	36	5	M5
HSK40F-SF08-65	8	21	27	65	45	36	5	M6
HSK40F-SF10-65	10	24	31	65	45	42	5	M8x1
HSK40F-SF12-65	12	24	31	65	45	42	5	M10x1
HSK40F-SF06-80	6	21	27	80	60	36	10	M5
HSK40F-SF08-80	8	21	27	80	60	36	10	M6
HSK40F-SF10-80	10	24	32	80	60	42	10	M8x1
HSK40F-SF12-90	12	24	32	90	70	47	10	M10x1
HSK40F-SF16-90	16	27	34	90	70	50	10	M12x1
HSK63F-SF03-90	3	15	20	90	64	.	.	.
HSK63F-SF04-90	4	15	20	90	64	.	.	.
HSK63F-SF05-90	5	15	20	90	64	.	.	.
HSK63F-SF06-90	6	21	27	90	64	36	10	M5
HSK63F-SF08-90	8	21	27	90	64	36	10	M6
HSK63F-SF10-90	10	24	32	90	64	42	10	M8x1
HSK63F-SF12-90	12	24	32	90	64	47	10	M10x1
HSK63F-SF14-95	14	27	34	95	69	47	10	M10x1
HSK63F-SF16-95	16	27	34	95	69	50	10	M12x1
HSK63F-SF18-95	18	33	42	95	69	50	10	M12x1
HSK63F-SF20-100	20	33	42	100	74	52	10	M16x1
HSK63F-SF25-115	25	36	42	115	89	58	10	M16x1

◆◆ Shrink Fit Chuck 4.5°

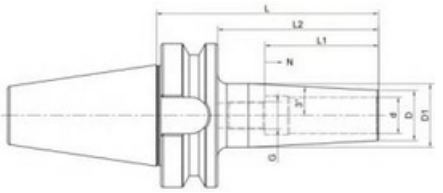




odel	d	D	D1	L	L2	L1	N	G
HSK63F-SF03-120	3	15	20	120	94	.	.	.
HSK63F-SF04-120	4	15	20	120	94	.	.	.
HSK63F-SF05-120	5	15	20	120	94	.	.	.
HSK63F-SF06-120	6	21	27	120	94	36	10	M5
HSK63F-SF08-120	8	21	27	120	94	36	10	M6
HSK63F-SF10-120	10	24	32	120	94	42	10	M8x1
HSK63F-SF12-120	12	24	32	120	94	47	10	M10x1
HSK63F-SF14-120	14	27	34	120	94	47	10	M10x1
HSK63F-SF16-120	16	27	34	120	94	50	10	M12x1
HSK63F-SF18-120	18	33	42	120	94	50	10	M12x1
HSK63F-SF20-120	20	33	42	120	94	52	10	M16x1
HSK63F-SF03-160	3	15	27	160	134	.	.	.
HSK63F-SF04-160	4	15	27	160	134	.	.	.
HSK63F-SF05-160	5	15	27	160	134	.	.	.
HSK63F-SF06-160	6	21	32	160	134	36	10	M5
HSK63F-SF08-160	8	21	32	160	134	36	10	M6
HSK63F-SF10-160	10	24	34	160	134	42	10	M8x1
HSK63F-SF12-160	12	24	34	160	134	47	10	M10x1
HSK63F-SF14-160	14	27	42	160	134	47	10	M10x1
HSK63F-SF16-160	16	27	42	160	134	50	10	M12x1
HSK63F-SF18-160	18	33	51	160	134	50	10	M12x1
HSK63F-SF20-160	20	33	51	160	134	52	10	M16x1

◆◆ Shrink Fit Chuck 3°

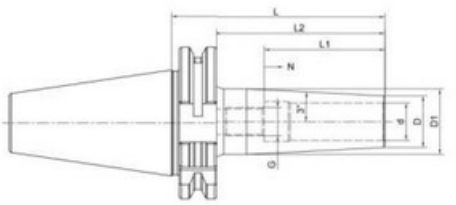




Model	d	D	D1	L	L2	L1	N	G
BT30-SFS03-80	3	9	13	80	58	.	.	.
BT30-SFS04-80	4	10	14	80	58	.	.	.
BT30-SFS06-80	6	12	.	80	58	36	5	M5
BT30-SFS08-80	8	14	.	80	58	36	5	M6
BT30-SFS10-80	10	16	.	80	58	42	5	M8x1
BT30-SFS12-80	12	18	.	80	58	47	5	M10x1
BT30-SFS16-80	16	22	.	80	58	50	5	M12x1
BT40-SFS03-90	3	9	13	90	63	.	.	.
BT40-SFS04-90	4	10	14	90	63	.	.	.
BT40-SFS06-90	6	12	18	90	63	36	5	M5
BT40-SFS08-90	8	14	20	90	63	36	5	M6
BT40-SFS10-90	10	16	22	90	63	42	5	M8x1
BT40-SFS12-90	12	18	24	90	63	47	5	M10x1
BT40-SFS16-90	16	22	28	90	63	50	5	M12x1
BT40-SFS03-120	3	9	16	120	93	.	.	.
BT40-SFS04-120	4	10	17	120	93	.	.	.
BT40-SFS06-120	6	12	21	120	93	36	5	M5
BT40-SFS08-120	8	14	23	120	93	36	5	M6
BT40-SFS10-120	10	16	25	120	93	42	5	M8x1
BT40-SFS12-120	12	18	27	120	93	47	5	M10x1
BT40-SFS16-120	16	22	31	120	93	50	5	M12x1
BT40-SFS03-160	3	9	19	160	133	.	.	.
BT40-SFS04-160	4	10	20	160	133	.	.	.
BT40-SFS06-160	6	12	24	160	133	36	5	M5
BT40-SFS08-160	8	14	26	160	133	36	5	M6
BT40-SFS10-160	10	16	28	160	133	42	5	M8x1
BT40-SFS12-160	12	18	30	160	133	47	5	M10x1
BT40-SFS16-160	16	22	34	160	133	50	5	M12x1

◆◆ Shrink Fit Chuck 3°

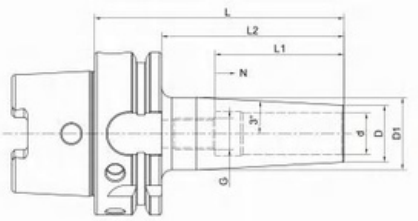




Model	d	D	D1	L	L2	L1	N	G
SK30-SFS03-80	3	9	13	80	60.9	-	-	-
SK30-SFS04-80	4	10	14	80	60.9	-	-	-
SK30-SFS06-80	6	12	18	80	60.9	36	5	M5
SK30-SFS08-80	8	14	20	80	60.9	36	5	M6
SK30-SFS10-80	10	16	22	80	60.9	42	5	M8x1
SK30-SFS12-80	12	18	24	80	60.9	47	5	M10x1
SK30-SFS16-80	16	22	28	80	60.9	50	5	M12x1
SK40-SFS03-90	3	9	13	90	70.9	-	-	-
SK40-SFS04-90	4	10	14	90	70.9	-	-	-
SK40-SFS06-90	6	12	18	90	70.9	36	5	M5
SK40-SFS08-90	8	14	20	90	70.9	36	5	M6
SK40-SFS10-90	10	16	22	90	70.9	42	5	M8x1
SK40-SFS12-90	12	18	24	90	70.9	47	5	M10x1
SK40-SFS16-90	16	22	28	90	70.9	50	5	M12x1
SK40-SFS03-120	3	9	16	120	100.9	-	-	-
SK40-SFS04-120	4	10	17	120	100.9	-	-	-
SK40-SFS06-120	6	12	21	120	100.9	36	5	M5
SK40-SFS08-120	8	14	23	120	100.9	36	5	M6
SK40-SFS10-120	10	16	25	120	100.9	42	5	M8x1
SK40-SFS12-120	12	18	27	120	100.9	47	5	M10x1
SK40-SFS16-120	16	22	31	120	100.9	50	5	M12x1
SK40-SFS03-160	3	9	19	160	140.9	-	-	-
SK40-SFS04-160	4	10	20	160	140.9	-	-	-
SK40-SFS06-160	6	12	24	160	140.9	36	5	M5
SK40-SFS08-160	8	14	26	160	140.9	36	5	M6
SK40-SFS10-160	10	16	28	160	140.9	42	5	M8x1
SK40-SFS12-160	12	18	30	160	140.9	47	5	M10x1
SK40-SFS16-160	16	22	34	160	140.9	50	5	M12x1

◆◆ Shrink Fit Chuck 3°

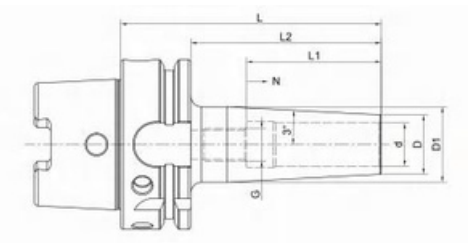




Model	d	D	D1	L	L2	L1	N	G
HSK50A-SFS03-90	3	9	13	90	64	.	.	.
HSK50A-SFS04-90	4	10	14	90	64	.	.	.
HSK50A-SFS06-90	6	12	18	90	64	36	5	M5
HSK50A-SFS08-90	8	14	20	90	64	36	5	M6
HSK50A-SFS10-90	10	16	22	90	64	42	5	M8x1
HSK50A-SFS12-90	12	18	24	90	64	47	5	M10x1
HSK50A-SFS16-90	16	22	28	90	64	50	5	M12x1
HSK50A-SFS03-120	3	9	16	120	94	.	.	.
HSK50A-SFS04-120	4	10	17	120	94	.	.	.
HSK50A-SFS06-120	6	12	21	120	94	36	5	M5
HSK50A-SFS08-120	8	14	23	120	94	36	5	M6
HSK50A-SFS10-120	10	16	25	120	94	42	5	M8x1
HSK50A-SFS12-120	12	18	27	120	94	47	5	M10x1
HSK50A-SFS16-120	16	22	31	120	94	50	5	M12x1
HSK50A-SFS04-160	4	10	20	160	134	.	.	.
HSK50A-SFS06-160	6	12	24	160	134	36	5	M5
HSK50A-SFS08-160	8	14	26	160	134	36	5	M6
HSK50A-SFS10-160	10	16	28	160	134	42	5	M8x1
HSK50A-SFS12-160	12	18	30	160	134	47	5	M10x1
HSK50A-SFS16-160	16	22	34	160	134	50	5	M12x1

◆◆ Shrink Fit Chuck 3°

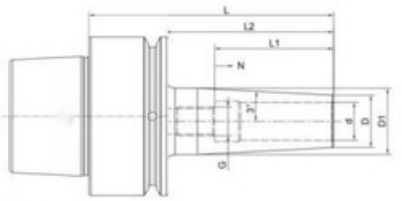




Model	d	D	D1	L	L2	L1	N	G
HSK63A-SFS04-90	4	10	14	90	64	.	.	.
HSK63A-SFS06-90	6	12	18	90	64	36	5	M5
HSK63A-SFS08-90	8	14	20	90	64	36	5	M6
HSK63A-SFS10-90	10	16	22	90	64	42	5	M8x1
HSK63A-SFS12-90	12	18	24	90	64	47	5	M10x1
HSK63A-SFS16-90	16	22	28	90	64	50	5	M12x1
HSK63A-SFS04-120	4	10	17	120	94	.	.	.
HSK63A-SFS06-120	6	12	21	120	94	36	5	M5
HSK63A-SFS08-120	8	14	23	120	94	36	5	M6
HSK63A-SFS10-120	10	16	25	120	94	42	5	M8x1
HSK63A-SFS12-120	12	18	27	120	94	47	5	M10x1
HSK63A-SFS16-120	16	22	31	120	94	50	5	M12x1
HSK63A-SFS03-160	3	9	19	160	134	.	.	.
HSK63A-SFS04-160	4	10	20	160	134	.	.	.
HSK63A-SFS06-160	6	12	24	160	134	36	5	M5
HSK63A-SFS08-160	8	14	26	160	134	36	5	M6
HSK63A-SFS10-160	10	16	28	160	134	42	5	M8x1
HSK63A-SFS12-160	12	18	30	160	134	47	5	M10x1
HSK63A-SFS16-160	16	22	34	160	134	50	5	M12x1

◆◆ Shrink Fit Chuck 3°

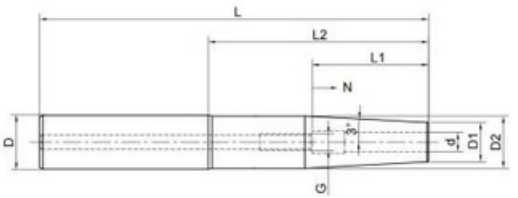




Model	d	D	D1	L	L2	L1	N	G
HSK32E-SFS3-64	3	9	13	64	40	20	5	M6
HSK32E-SFS4-64	4	10	14	64	40	20	5	M6
HSK32E-SFS6-74	6	12	17	74	50	36	5	M5
HSK32E-SFS8-74	8	14	19	74	50	36	5	M6
HSK32E-SFS10-78	10	16	21	78	55	42	5	M8x1
HSK40E-SFS3-50	3	9	12	50	24	20	5	M6
HSK40E-SFS4-50	4	10	12,5	50	24	20	5	M6
HSK40E-SFS6-50	6	12	15	50	24	34		
HSK40E-SFS6-60	6	12	16	60	38	36		
HSK40E-SFS8-60	8	14	18	60	38	36		
HSK40E-SFS10-60	10	16	20	60	38	42		
HSK40E-SFS12-60	12	18	22	60	38	42		
HSK50E-SFS3-70	3	9	13	70	42	20	5	M6
HSK50E-SFS4-70	4	10	14	70	42	20	5	M6
HSK50E-SFS6-70	6	12	16	70	42	36	5	M5
HSK50E-SFS8-70	8	14	18	70	42	36	5	M6
HSK50E-SFS10-70	10	16	20	70	42	42		
HSK50E-SFS12-70	12	18	22	70	42	47		
HSK50E-SFS16-70	16	22	26	70	41	47		
HSK50E-SFS6-90	6	12	18	90	60	36	5	M5
HSK50E-SFS8-90	8	14	20	90	60	36	5	M6
HSK50E-SFS10-90	10	16	22	90	60	42	5	M8x1
HSK50E-SFS12-90	12	18	24	90	60	47	5	M10x1
HSK50E-SFS16-90	16	22	28	90	60	50	5	M16x1

◆◆ Shrink Fit Extension

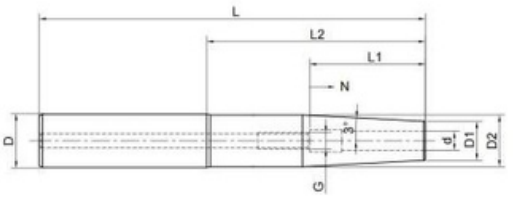




Model	d	D1	D2	D	L	L2	L1	N	G
C12-SFS 03- 120	3	9	11.8	12	120	.	73	.	.
C12-SFS 04-120	4	10	11.8	12	120	.	73	.	.
C12-SFS 05-120	5	11	11.8	12	120	.	73	.	.
C12-SFS 06-120	6	12	17	12	120	36	73	10	M5
C12-SFS 08-120	8	14	19	12	120	36	73	10	M6
C16-SFS 03-120	3	9	13	16	120	.	70	.	.
C16-SFS 04-120	4	10	14	16	120	.	70	.	.
C16-SFS 05-120	5	11	15	16	120	.	70	.	.
C16-SFS 06-120	6	12	15.8	16	120	36	70	10	M5
C16-SFS 08-120	8	14	19	16	120	36	70	10	M6
C20-SFS 03-120	3	9	13	20	120	.	68	.	.
C20-SFS 04-120	4	10	14	20	120	.	68	.	.
C20-SFS 05-120	5	11	15	20	120	.	68	.	.
C20-SFS 06-120	6	12	16	20	120	36	68	10	M5
C20-SFS 08-120	8	14	19	20	120	36	68	10	M6
C20-SFS 10-120	10	16	19.8	20	120	42	68	10	M8x1
C20-SFS 12-120	12	18	19.8	20	120	47	68	10	M10x1
C12-SFS 03-160	3	9	11.8	12	160	.	113	.	.
C12-SFS 04-160	4	10	11.8	12	160	.	113	.	.
C16-SFS 03-160	3	9	13	16	160	.	110	.	.
C16-SFS 04-160	4	10	14	16	160	.	110	.	.
C16-SFS 05-160	5	11	15	16	160	.	110	.	.

◆◆ Shrink Fit Extension

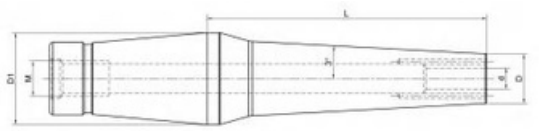




Model	d	D1	D2	D	L	L2	L1	N	G
C20-SFS 05- 16 0	5	11	15	20	160	.	110	.	.
C20-SFS 06- 16 0	6	12	16	20	160	36	108	10	M5
C20-SFS 08- 16 0	8	14	19	20	160	36	108	10	M6
C25-SFS 08- 16 0	8	14	19	25	160	36	108	10	M6
C25-SFS 10- 16 0	10	16	21	25	160	42	108	10	M8x1
C25-SFS 12- 16 0	12	18	23	25	160	47	108	10	M10x1
C25-SFS 14- 16 0	14	20	24.8	25	160	47	108	10	M10x1
C25-SFS 16- 16 0	16	22	24.8	25	160	50	108	10	M12x1
C32-SFS 10- 16 0	10	16	21	32	160	42	98	10	M8x1
C32-SFS 12- 16 0	12	18	23	32	160	47	98	10	M10x1
C32-SFS 14- 16 0	14	20	25	32	160	47	98	10	M10x1
C32-SFS 16- 16 0	16	22	28	32	160	50	98	10	M12x1
C32-SFS 18- 16 0	18	25	30	32	160	50	98	10	M12x1
C32-SFS 20- 16 0	20	26	31.8	32	160	52	98	10	M16x1
C16-SFS03-200	3	9	13	16	200	.	150	.	.
C16-SFS04-200	4	10	14	16	200	.	150	.	.
C16-SFS05-200	5	11	15	16	200	.	150	.	.
C16-SFS06-200	6	12	15.8	16	200	36	150	10	M5
C16-SFS08-200	8	14	19	16	200	36	150	10	M6
C20-SFS06-250	6	12	16	20	250	36	198	10	M5
C20-SFS08-250	8	14	19	20	250	36	198	10	M6
C20-SFS10-250	10	16	19.8	20	250	42	198	10	M8x1
C25-SFS12-250	12	18	23	25	250	47	192	10	M10x1
C25-SFS16-250	16	22	24.8	25	250	50	192	10	M12x1
C20-SFS06-300	6	12	16	20	300	36	248	10	M5
C20-SFS08-300	8	14	19	20	300	36	248	10	M6
C20-SFS10-300	10	16	19.8	20	300	42	248	10	M8x1
C25-SFS12-300	12	18	23	25	300	47	242	10	M10x1
C25-SFS16-300	16	22	24.8	25	300	50	242	10	M12x1

◆◆ Shrink Chuck Extension Slim





12-SF3-35	3	7.5	26	35	M10	3
12-SF3-55	3	7.5	26	55	M10	3
12-SF3-80	3	7.5	26	80	M10	3
12-SF4-35	4	10	26	35	M10	3
12-SF4-55	4	10	26	55	M10	3
12-SF4-80	4	10	26	80	M10	3
12-SF6-35	6	12	26	35	M10	3
12-SF6-55	6	12	26	55	M10	3
12-SF6-80	6	12	26	80	M10	3
12-SF8-35	8	14	26	35	M10	3
12-SF8-55	8	14	26	55	M10	3
12-SF8-80	8	14	26	80	M10	3
12-SF10-35	10	16	26	35	M10	3
12-SF10-55	10	16	26	55	M10	3
12-SF10-80	10	16	26	80	M10	3
12-SF12-35	12	20	26	35	M10	3
12-SF12-55	12	20	26	55	M10	3
12-SF12-80	12	20	26	80	M10	3

◆◆ Shrink Chuck Set

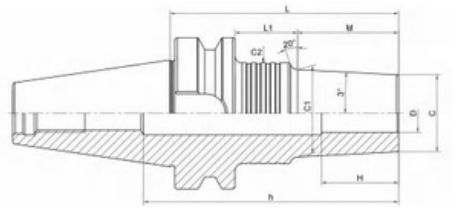


Model	ToolHolder	Extension Model	Extension Quantity
BT40-TSF12-45-6 pcs	BT40-TSF12-45	12-SF3/4/6/8/10/12-80	6
BT40-TSF12-75-6 pcs	BT40-TSF12-75	12-SF3/4/6/8/10/12-80	6
SK40-TSF12-45-6 pcs	SK40-TSF12-45	12-SF3/4/6/8/10/12-80	6
SK40-TSF12-75-6 pcs	SK40-TSF12-75	12-SF3/4/6/8/10/12-80	6
HSK63A-TSF12-75-6 pcs	HSK63A-TSF12-75	12-SF3/4/6/8/10/12-80	6
HSK63F-TSF12-75-6 pcs	HSK63F-TSF12-75	12-SF3/4/6/8/10/12-80	6

Model	ToolHolder Model	Extension Model	Extension Quantity
BT40-TSF12-45-6 pcs	BT40-TSF12-45 BT40-	12-SF3/4/6/8/10/12-80S	6
BT40-TSF12-75-6 pcs	TSF12-75 SK40-	12-SF3/4/6/8/10/12-80S	6
SK40-TSF12-45-6 pcs	TSF12-45 SK40-	12-SF3/4/6/8/10/12-80S	6
SK40-TSF12-75-6 pcs	TSF12-75 HSK63A-	12-SF3/4/6/8/10/12-80S	6
HSK63A-TSF12-75-6pcs	TSF12-75	12-SF3/4/6/8/10/12-80S	6
HSK63F-TSF12-75-6 pcs	HSK63F-TSF12-75	12-SF3/4/6/8/10/12-80S	6

◆◆ Shrink Chuck, 3° , Slim, Form C

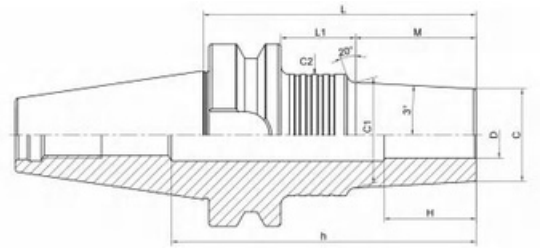




Model	D	C	L	M	L1	C1	C2	H	h
BT30-SFA3-60-M22	3	6	60	22	16	8.3	20	9	80
BT30-SFA3-75-M22	3	6	75	22	31	8.3	25	9	88
BT30-SFA3-80-M42	3	6	80	42	16	10.4	20	9	100
BT30-SFA3-95-M42	3	6	95	42	31	10.4	25	9	119
BT30-SFA3-120-M67	3	6	120	67	31	13	25	9	144
BT30-SFA4-60-M22	4	7	60	22	16	9.3	20	12	80
BT30-SFA4-75-M22	4	7	75	22	31	9.3	25	12	88
BT30-SFA4-95-M42	4	7	95	42	31	11.4	25	12	119
BT30-SFA4-120-M67	4	7	120	67	31	14	25	12	144
BT30-SFA6-60-M22	6	9	60	22	16	11.3	20	18	80
BT30-SFA6-75-M22	6	9	75	22	31	11.3	25	18	88
BT30-SFA6-95-M42	6	9	95	42	31	13.4	25	18	119
BT30-SFA6-120-M67	6	9	120	67	31	16	25	18	144

◆◆ Shrink Chuck, 3° , Slim, Form C

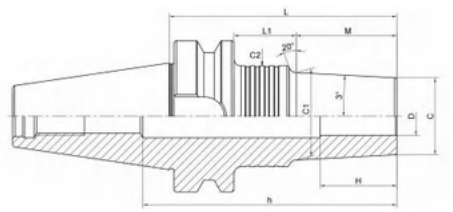




Model	D	C	L	M	L1	C1	C2	H	h
BT40-SFA4-95-M42	4	7	95	42	26	11.4	25	12	130
BT40-SFA4-120-M67	4	7	120	67	26	14	25	12	155
BT40-SFA4-125-M42	4	7	125	42	56	11.4	26	12	160
BT40-SFA4-150-M67	4	7	150	67	56	14	25	12	185
BT40-SFA4-150-M97	4	7	150	97	26	17.2	26	12	185
BT40-SFA4-180-M97	4	7	180	97	56	17.2	25	12	215
BT40-SFA6-95-M42	6	9	95	42	26	13.4	25	18	130
BT40-SFA6-120-M67	6	9	120	67	26	16	26	18	155
BT40-SFA6-125-M42	6	9	125	42	56	13.4	25	18	160
BT40-SFA6-150-M67	6	9	150	67	56	16	25	18	185
BT40-SFA6-150-M97	6	9	150	97	26	19.2	36	18	185
BT40-SFA6-180-M97	6	9	180	97	56	19.2	36	18	215
BT40-SFA8-95-M42	8	11	95	42	26	15.4	25	24	130
BT40-SFA8-120-M67	8	11	120	67	26	18	36	24	155
BT40-SFA8-125-M42	8	11	125	42	56	15.4	36	24	160
BT40-SFA8-150-M67	8	11	150	67	56	18	36	24	185
BT40-SFA8-150-M97	8	11	150	97	26	21.2	36	24	185
BT40-SFA8-180-M97	8	11	180	97	56	21.2	36	24	215

◆◆ Shrink Chuck, 3° , Slim, Form C

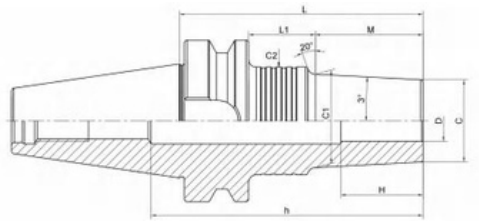




Model	D	C	L	M	L1	C1	C2	H	h
BT40-SFA10-95-M42	10	13	95	42	26	17.4	25	30	130
BT40-SFA10-120-M67	10	13	120	67	26	20	36	30	155
BT40-SFA10-125-M42	10	13	125	42	56	17.4	36	30	160
BT40-SFA10-150-M67	10	13	150	67	56	20	36	30	185
BT40-SFA10-150-M97	10	13	150	97	26	23.2	36	30	185
BT40-SFA10-180-M97	10	13	180	97	56	23.2	36	30	215
BT40-SFA10-95-M42	12	15	95	42	26	19.4	32	30	130
BT40-SFA10-120-M67	12	16	120	67	26	22	32	30	155
BT40-SFA10-125-M42	12	17	125	42	56	19.4	36	30	160
BT40-SFA10-150-M67	12	18	150	67	56	22	36	30	185
BT40-SFA10-150-M97	12	19	150	97	26	25.2	36	30	185
BT40-SFA10-180-M97	12	22	180	97	56	25.2	36	30	215

◆◆ Shrink Chuck, 3° , Slim, Form C

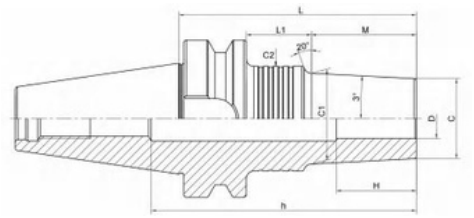




Model	D	C	L	M	L1	L2	C1	C2	C3	H	h
BT40-SFA4-155-M42	4	7	155	42	33	53	11.4	26	40	12	190
BT40-SFA4-180-M67	4	7	180	67	33	53	14	26	40	12	215
BT40-SFA4-210-M97	4	7	210	97	33	53	17.2	25	39	12	245
BT40-SFA6-155-M42	6	9	155	42	33	53	13.4	25	39	18	190
BT40-SFA6-180-M67	6	9	180	67	33	53	16	26	40	18	215
BT40-SFA6-210-M97	6	9	210	97	28	58	19.2	36	50	18	245
BT40-SFA8-155-M42	8	11	155	42	33	53	15.4	25	39	24	190
BT40-SFA8-180-M67	8	11	180	67	28	58	18	36	50	24	215
BT40-SFA8-210-M97	8	11	210	97	28	58	21.2	36	50	24	245
BT40-SFA10-155-M42	10	13	155	42	28	58	17.4	36	50	30	190
BT40-SFA10-180-M67	10	13	180	67	28	28	20	36	50	30	215
BT40-SFA10-210-M97	10	13	210	97	28	58	23.2	36	50	30	245
BT40-SFA10-155-M42	12	20	155	42	28	58	19.4	36	50	30	190
BT40-SFA10-180-M67	12	21	180	67	30	56	22	32	46	30	215
BT40-SFA10-210-M97	12	23	210	97	28	58	25.2	36	50	30	245

◆◆ Shrink Chuck, 3° , Slim, Form C

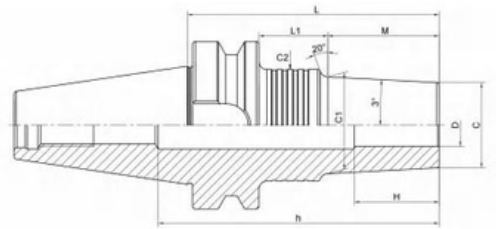




Model	D	C	L	M	L1	L2	C1	C2	C3	H	h
BT50-SFA4-170-M42	4 4	7	170	42	33	57	11.4	25	39	12	225
BT50-SFA4-195-M67	4 6	7	195	67	33	57	14	25	39	12	250
BT50-SFA4-225-M97	6 6	7	225	97	33	57	17.2	26	40	12	280
BT50-SFA6-170-M42	8 8	9	170	42	33	57	13.4	26	40	18	225
BT50-SFA6-195-M67	8	9	195	67	33	57	16	26	40	18	250
BT50-SFA6-225-M97	10	9	225	97	28	62	19.2	36	50	18	280
BT50-SFA8-170-M42	10	11	170	42	33	57	15.4	25	39	24	225
BT50-SFA8-195-M67	10	11	195	67	28	62	18	36	50	24	250
BT50-SFA8-225-M97	12	11	225	97	28	62	21.2	36	50	24	280
BT50-SFA10-170-M42	12	13	170	42	33	57	17.4	25	39	30	225
BT50-SFA10-195-M67	12	13	195	67	28	62	20	36	50	30	250
BT50-SFA10-225-M97		13	225	97	28	62	23.2	36	50	30	280
BT50-SFA12-170-M42		15	170	42	30	60	19.4	32	46	30	225
BT50-SFA12-195-M67		15	195	67	28	62	22	36	50	30	250
BT50-SFA12-225-M97		15	225	97	28	62	25.2	36	50	30	280

◆◆ Shrink Chuck, 3° , Slim, Form C

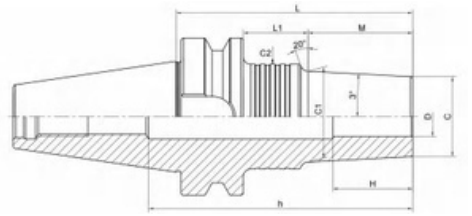




Model	D	C	L	M	L1	C1	C2	H	h
BT50-SFA4-110-M42	4	7	110	42	30	11.4	26	12	165
BT50-SFA4-135-M67	4	7	135	67	30	14	25	12	190
BT50-SFA4-140-M42	4	7	140	42	60	11.4	25	12	195
BT50-SFA4-165-M67	4	7	165	67	60	14	26	12	220
BT50-SFA4-165-M97	4	7	165	97	30	17.2	25	12	220
BT50-SFA4-195-M97	4	7	195	97	60	17.2	25	12	250
BT50-SFA6-110-M42	6	9	110	42	30	13.4	26	18	165
BT50-SFA6-135-M67	6	9	135	67	30	16	26	18	190
BT50-SFA6-140-M42	6	9	140	42	60	13.4	26	18	195
BT50-SFA6-165-M67	6	9	165	67	60	16	26	18	220
BT50-SFA6-165-M97	6	9	165	97	30	19.2	36	18	220
BT50-SFA6-195-M97	6	9	195	97	60	19.2	36	18	250
BT50-SFA8-110-M42	8	11	110	42	30	15.4	25	24	165
BT50-SFA8-135-M67	8	11	135	67	30	18	36	24	190
BT50-SFA8-140-M42	8	11	140	42	60	15.4	36	24	195
BT50-SFA8-165-M67	8	11	165	67	60	18	32	24	220
BT50-SFA8-165-M97	8	11	165	97	30	21.2	36	24	220
BT50-SFA8-195-M97	8	11	195	97	60	21.2	36	24	250

◆◆ Shrink Chuck, 3° , Slim, Form C

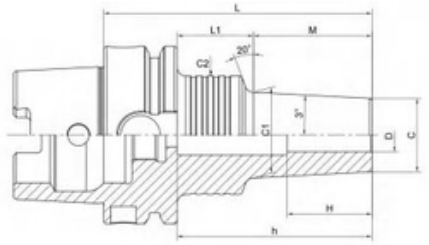




Model	D	C	L	M	L1	C1	C2	H	h
BT50-SFA10-110-M42	10	13	110	42	30	17.4	25	30	165
BT50-SFA10-135-M67	10	13	135	67	30	20	36	30	190
BT50-SFA10-140-M42	10	13	140	42	60	17.4	36	30	195
BT50-SFA10-165-M67	10	13	165	67	60	20	36	30	220
BT50-SFA10-165-M97	10	13	165	97	30	23.2	36	30	220
BT50-SFA10-195-M97	10	13	195	97	60	23.2	32	30	250
BT50-SFA12-110-M42	12	15	110	42	30	19.4	32	30	165
BT50-SFA12-135-M67	12	15	135	67	30	22	36	30	190
BT50-SFA12-140-M42	12	15	140	42	60	19.4	36	30	195
BT50-SFA12-165-M67	12	15	165	67	60	22	32	30	220
BT50-SFA12-165-M97	12	15	165	97	30	25.2	36	30	220
BT50-SFA12-195-M97	12	15	195	97	60	25.2	36	30	250

◆◆ Shrink Chuck, 3° , Slim, Form C

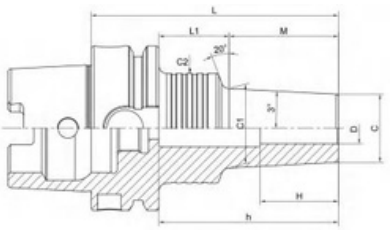




Model	D	C	L	M	L1	C1	C2	H	h
HSK40A-SFA3-65-M22	3 3	6	65	22	23	8.3	25	9	44
HSK40A-SFA3-85-M42	3 4	6	85	42	23	10.4	25	9	64
HSK40A-SFA3-100-M42	4 4	6	100	42	38	10.4	25	9	78
HSK40A-SFA4-65-M22	6 6	7	65	22	23	9.3	25	12	44
HSK40A-SFA4-85-M42	6 8	7	85	42	23	11.4	25	12	64
HSK40A-SFA4-100-M42	8 8	7	100	42	38	11.4	25	12	78
HSK40A-SFA6-65-M22	10	9	65	22	23	11.3	25	18	36
HSK40A-SFA6-85-M42	10	9	85	42	23	13.4	25	18	36
HSK40A-SFA6-100-M42	10	9	100	42	38	13.4	25	18	36
HSK40A-SFA8-65-M22	12	11	65	22	23	13.3	25	24	44
HSK40A-SFA8-85-M42	12	11	85	42	23	15.4	25	24	48
HSK40A-SFA8-100-M42	3 3	11	100	42	38	15.4	25	24	48
HSK40A-SFA10-65-M22	4 4	13	65	22	23	15.3	25	30	44
HSK40A-SFA10-85-M42	6 6	13	85	42	23	17.4	25	30	60
HSK40A-SFA10-100-M42	8 8	13	100	42	38	17.4	25	30	60
HSK40A-SFA12-65-M22	10	15	65	22	23	17.3	25	30	44
HSK40A-SFA12-90-M42	10	15	90	42	28	19.4	32	30	68
HSK50A-SFA3-95-M42		6	95	42	27	10.4	25	9	69
HSK50A-SFA3-125-M42		6	125	42	57	10.4	25	9	100
HSK50A-SFA4-95-M42		7	95	42	27	11.4	26	12	69
HSK50A-SFA4-125-M42		7	125	42	57	11.4	25	12	100
HSK50A-SFA6-95-M42		9	95	42	27	13.4	26	18	69
HSK50A-SFA6-125-M42		9	125	42	57	13.4	25	18	100
HSK50A-SFA8-95-M42		11	95	42	27	15.4	25	24	48
HSK50A-SFA8-125-M42		11	125	42	57	15.4	25	24	48
HSK50A-SFA10-95-M42		13	95	42	27	17.4	25	30	60
HSK50A-SFA10-125-M42		13	125	42	57	17.4	25	30	60

◆◆ Shrink Chuck, 3° , Slim, Form C

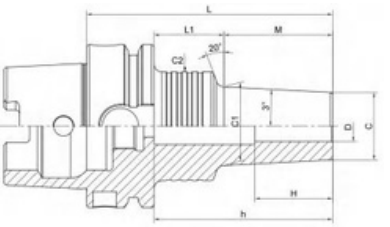




Model	D	C	L	M	L1	C1	C2	H	h
HSK63A-SFA4-95-M42	4	7	95	42	27	11.4	25	12	70
HSK63A-SFA4-120-M67	4	7	120	67	27	14	25	12	95
HSK63A-SFA4-125-M42	4	7	125	42	57	11.4	25	12	100
HSK63A-SFA4-150-M67	4	7	150	67	57	14	25	12	125
HSK63A-SFA4-150-M97	4	7	150	97	27	17.2	25	12	125
HSK63A-SFA4-180-M97	4	7	180	97	57	17.2	26	12	155
HSK63A-SFA6-95-M42	6	9	95	42	27	13.4	25	18	70
HSK63A-SFA6-120-M67	6	9	120	67	27	16	25	18	95
HSK63A-SFA6-125-M42	6	9	125	42	57	13.4	25	18	100
HSK63A-SFA6-150-M67	6	9	150	67	57	16	26	18	125
HSK63A-SFA6-150-M97	6	9	150	97	27	19.2	32	18	125
HSK63A-SFA6-180-M97	6	9	180	97	57	19.2	36	18	155
HSK63A-SFA8-95-M42	8	11	95	42	27	15.4	36	24	70
HSK63A-SFA8-120-M67	8	11	120	67	27	18	36	24	95
HSK63A-SFA8-125-M42	8	11	125	42	57	15.4	36	24	100
HSK63A-SFA8-150-M67	8	11	150	67	57	18	36	24	125
HSK63A-SFA8-150-M97	8	11	150	97	27	21.2	36	24	125
HSK63A-SFA8-180-M97	8	11	180	97	57	21.2	36	24	155

◆◆ Shrink Chuck, 3° , Slim, Form C

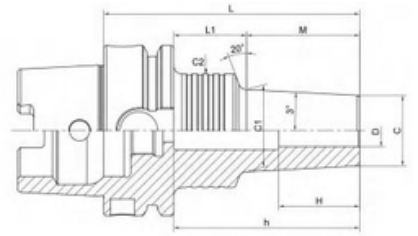




Model	D	C	L	M	L1	C1	C2	H	h
HSK63A-SFA10-95-M42	10	13	95	42	27	17.4	36	30	60
HSK63A-SFA10-120-M67	10	13	120	67	27	20	36	30	60
HSK63A-SFA10-125-M42	10	13	125	42	57	17.4	36	30	60
HSK63A-SFA10-150-M67	10	13	150	67	57	20	36	30	60
HSK63A-SFA10-150-M97	10	13	150	97	27	23.2	36	30	60
HSK63A-SFA10-180-M97	10	13	180	97	57	23.2	36	30	60
HSK63A-SFA12-95-M42	12	15	95	42	27	19.4	36	30	68
HSK63A-SFA12-120-M67	12	15	120	67	27	22	36	30	72
HSK63A-SFA12-125-M42	12	15	125	42	57	19.4	36	30	72
HSK63A-SFA12-150-M67	12	15	150	67	57	22	32	30	72
HSK63A-SFA12-150-M97	12	15	150	97	27	25.2	36	30	72
HSK63A-SFA12-180-M97	12	15	180	97	57	25.2	36	30	72

◆◆ Shrink Chuck, 3° , Slim, Form C

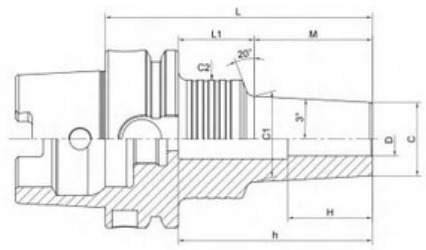




Model	D	C	L	M	L1	L2	C1	C2	C3	H	h
HSK63A-SFA4-155-M42	4	7	155	42	33	54	11.4	25	39	12	130
HSK63A-SFA4-180-M67	4	7	180	67	33	54	14	26	40	12	155
HSK63A-SFA4-210-M97	4	7	210	97	33	54	17.2	25	39	12	185
HSK63A-SFA6-155-M42	6	9	155	42	33	54	13.4	25	39	18	130
HSK63A-SFA6-180-M67	6	9	180	67	33	54	16	26	40	18	155
HSK63A-SFA6-210-M97	6	9	210	97	28	59	19.2	36	50	18	185
HSK63A-SFA8-155-M42	8	11	155	42	33	54	15.4	25	39	24	130
HSK63A-SFA8-180-M67	8	11	180	67	30	57	18	32	46	24	155
HSK63A-SFA8-210-M97	8	11	210	97	28	59	21.2	36	50	24	185
HSK63A-SFA10-155-M42	10	13	155	42	33	54	17.4	25	39	30	60
HSK63A-SFA10-180-M67	10	13	180	67	30	57	20	32	46	30	60
HSK63A-SFA10-210-M97	10	13	210	97	30	57	23.2	32	46	30	60
HSK63A-SFA12-155-M42	12	15	155	42	30	57	19.4	32	46	30	72
HSK63A-SFA12-180-M67	12	15	180	67	30	57	22	32	46	30	72
HSK63A-SFA12-210-M97	12	15	210	97	30	57	25.2	32	46	30	72

◆◆ Shrink Chuck, 3° , Slim, Form C

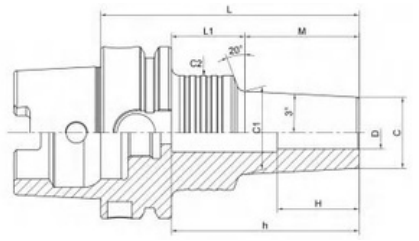




Model	D	C	L	M	L1	L2	C1	C2	C3	H	h
HSK100A-SFA4-110-M42	4	7	110	42	39	.	11.4	26	.	12	80
HSK100A-SFA4-135-M67	4	7	135	67	39	.	14 14	26	.	12	105
HSK100A-SFA4-165-M67	4	7	165	67	69	.	17.2	26	.	12	135
HSK100A-SFA4-165-M97	4	7	165	97	39	.	17.2	26	.	12	135
HSK100A-SFA4-195-M97	4	7	195	97	69	.	13.4	25	.	12	165
HSK100A-SFA6-110-M42	6	9	110	42	39	.	16	25	.	18	80
HSK100A-SFA6-135-M67	6	9	135	67	39	.	13.4	25	.	18	105
HSK100A-SFA6-140-M42	6	9	140	42	69	.	16	25	.	18	110
HSK100A-SFA6-165-M67	6	9	165	67	69	.	19.2	25	.	18	135
HSK100A-SFA6-165-M97	6	9	165	97	39	.	19.2	36	.	18	135
HSK100A-SFA6-195-M97	6	9	195	97	69	.		36	.	18	165

◆◆ Shrink Chuck, 3° , Slim, Form C

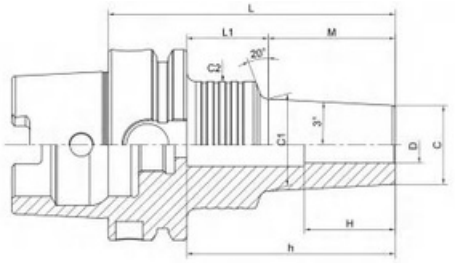




Model	D	C	L	M	L1	C1	C2	H	h
HSK100A-SFA8-110-M42	8	11	110	42	39	15.4	36	24	80
HSK100A-SFA8-135-M67	8	11	135	67	39	18	32	24	105
HSK100A-SFA8-140-M42	8	11	140	42	69	15.4	36	24	110
HSK100A-SFA8-165-M67	8	11	165	67	69	18	36	24	135
HSK100A-SFA8-165-M97	8	11	165	97	39	21.2	36	24	135
HSK100A-SFSC-195-M97	8	11	195	97	69	21.2	32	24	165
HSK100A-SFA10-110-M42	10	13	110	42	39	17.4	25	30	80
HSK100A-SFA10-135-M67	10	13	135	67	39	20	36	30	105
HSK100A-SFA10-140-M42	10	13	140	42	69	17.4	25	30	110
HSK100A-SFA10-165-M67	10	13	165	67	69	20	36	30	135
HSK100A-SFA10-165-M97	10	13	165	97	39	23.2	36	30	135
HSK100A-SFA10-195-M97	10	13	195	97	69	23.2	36	30	165
HSK100A-SFA12-110-M42	12	15	110	42	39	19.4	32	30	72
HSK100A-SFA12-135-M67	12	15	135	67	39	22	32	30	72
HSK100A-SFA12-140-M42	12	15	140	42	69	19.4	32	30	72
HSK100A-SFA12-165-M67	12	15	165	67	69	22	32	30	72
HSK100A-SFA12-165-M97	12	15	165	97	39	25.2	36	30	72
HSK100A-SFA12-195-M97	12	15	195	97	69	25.2	36	30	72

◆◆ Shrink Chuck, 3° , Slim, Form C

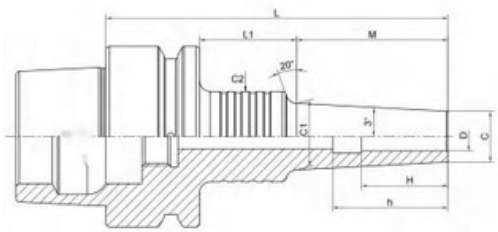




Model	D	C	L	M	L1	L2	C1	C2	C3	H	h
HSK100A-SFA4-170-M42	4	7	170	42	33	66	11.4	26	40	12	140
HSK100A-SFA4-195-M67	4	7	195	67	33	66	14	25	39	12	165
HSK100A-SFA4-225-M97	4	7	225	97	33	66	17.2	25	39	12	195
HSK100A-SFA6-170-M42	6	9	170	42	33	66	13.4	25	39	18	140
HSK100A-SFA6-195-M67	6	9	195	67	33	66	16	26	40	18	165
HSK100A-SFA6-225-M97	6	9	225	97	30	69	19.2	32	46	18	195
HSK100A-SFA8-170-M42	8	11	170	42	28	71	15.4	36	50	24	140
HSK100A-SFA8-195-M67	8	11	195	67	28	71	18	36	50	24	165
HSK100A-SFA8-225-M97	8	11	225	97	28	71	21.2	36	50	24	195
HSK100A-SFA10-170-M42	10	13	170	42	28	71	17.4	36	50	30	140
HSK100A-SFA0-195-M67	10	13	195	67	28	71	20	36	50	30	165
HSK100A-SFA10-225-M97	10	13	225	97	30	69	23.2	32	46	30	195
HSK100A-SFA12-170-M42	12	15	170	42	28	71	19.4	36	50	30	72
HSK100A-SFA12-195-M67	12	15	195	67	30	69	22	32	46	30	72
HSK100A-SFA12-225-M97	12	15	225	97	28	71	25.2	36	50	30	72

◆◆ Shrink Chuck, 3° , Slim, Form C

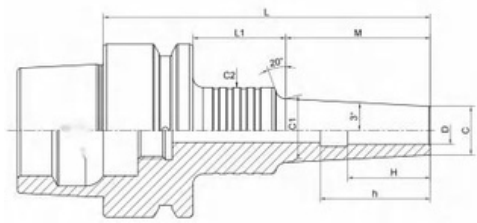




Model	D	C	L	M	L1	C1	C2	H	h
HSK32E-SFA3-50-M22	3	6	50	22	8	8.3	20	9	42
HSK32E-SFA3-70-M42	3	6	70	42	8	10.4	20	9	62
HSK32E-SFA3-85-M42	3	6	85	42	23	10.4	25	9	69
HSK32E-SFASA4-50-M22	4	7	50	22	8	9.3	20	12	35
HSK32E-SFA4-70-M42	4	7	70	42	8	11.4	20	12	54
HSK32E-SFA4-85-M42	4	7	85	42	23	11.4	25	12	69
HSK32E-SFA6-70-M42	6	9	70	42	8	13.4	20	18	54
HSK40E-SFA3-50-M22	3	6	50	22	8	8.3	20	9	42
HSK40E-SFA3-70-M42	3	6	70	42	8	10.4	20	9	62
HSK40E-SFA3-85-M42	3	6	85	42	23	10.4	25	9	69
HSK40E-SFA3-110-M67	3	6	110	67	23	13	25	9	94
HSK40E-SFA4-50-M22	4	7	50	22	8	9.3	20	12	42
HSK40E-SFA4-70-M42	4	7	70	42	8	11.4	20	12	62
HSK40E-SFA4-85-M42	4	7	85	42	23	11.4	25	12	74
HSK40E-SFA4-110-M67	4	7	110	67	23	14	25	12	88
HSK40E-SFA6-50-M22	6	9	50	22	8	11.3	20	18	36
HSK40E-SFA6-70-M42	6	9	70	42	8	13.4	20	18	36
HSK40E-SFA6-85-M42	6	9	85	42	23	13.4	25	18	36
HSK40E-SFA6-110-M67	6	9	110	67	23	16	25	18	36
HSK40E-SFA8-60-M22	8	11	60	22	18	13.3	26	24	48
HSK40E-SFA8-80-M42	8	11	80	42	18	15.4	26	24	48
HSK40E-SFA8-100-M42	8	11	100	42	38	15.4	25	24	48

◆◆ Shrink Chuck, 3° , Slim, Form C

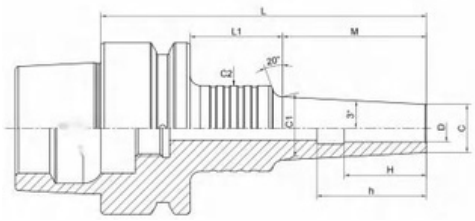




Model	D	C	L	M	L	C1	C	H	h
HSK40E-SFA10-60-M22	10	13	60	22		15.3		30	49
HSK40E-SFA10-80-M42	10	13	80	42	18	17.4	26	30	60
HSK40E-SFA10-100-M42	10	13	100	42	18	17.4	26	30	60
HSK40E-SFA3-50-M22	3	7.5	50	22	38	9.8	25	9	42
HSK40E-SFA3-70-M42	3	7.5	70	42	8	11.9	20	9	62
HSK40E-SFA3-85-M42	3	7.5	85	42	8	11.9	20	9	69
HSK40E-SFA3-110-M67	3	7.5	110	67	23	14.5	25	9	94
HSK40E-SFA4-50-M22	4	10	50	22	23	12.3	25	12	42
HSK40E-SFA4-70-M42	4	10	70	42	8	14.4	20	12	62
HSK40E-SFA4-85-M42	4	10	85	42	8	14.4	20	12	69
HSK40E-SFA4-110-M67	4	10	110	67	23	17	25	12	94
HSK40E-SFA6-50-M22	6	12	50	22	23	14.3	25	18	36
HSK40E-SFA6-70-M42	6	12	70	42	8	16.4	26	18	36
HSK40E-SFA6-85-M42	6	12	85	42	8	16.4	26	18	36
HSK40E-SFA6-110-M67	6	12	110	67	23	19	25	18	36
HSK40E-SFA8-50-M22	8	14	50	22	23	16.3	25	20	48
HSK40E-SFA8-85-M42	8	14	85	42	8	18.4	26	24	48
HSK40E-SFA8-100-M42	8	14	100	42	23	18.4	25	24	48
HSK40E-SFA10-55-M22	10	16	55	22	38	18.3	25	25	60
HSK40E-SFA10-85-M42	10	16	85	42	13	20.4	26	30	60
HSK40E-SFA10-100-M42	10	16	100	42	23	20.4	25	30	60
HSK40E-SFA12-55-M22	12	20	55	22	38	22.3	25	25	44
HSK40E-SFA12-85-M42	12	20	85	42	13	24.4	30	30	72
HSK40E-SFA16-55-M22	16	26	55	22	23	28.3	32	32	44
HSK40E-SFA20-60-M40	20	32	60	40	13	34	34	38	49

◆◆ Shrink Chuck, 3° , Slim, Form C

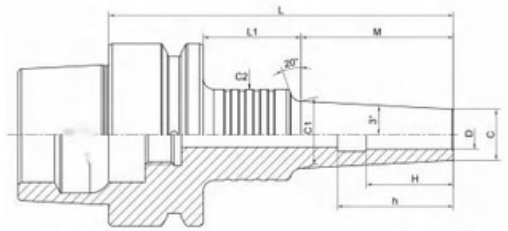




Model	D	C	L	M	L1	C1	C2	H	h
HSK50E-SFA3-60-M22	3	6	60	22	12	8.3	20	9	50
HSK50E-SFA3-75-M22	3	6	75	22	27	8.3	25	9	61
HSK50E-SFA3-80-M42	3	6	80	42	12	10.4	20	9	70
HSK50E-SFA3-95-M42	3	6	95	42	27	10.4	25	9	81
HSK50E-SFA4-60-M22	4	7	60	22	12	9.3	20	12	50
HSK50E-SFA4-75-M22	4	7	75	22	27	9.3	25	12	61
HSK50E-SFA4-80-M42	4	7	80	42	12	11.4	20	12	70
HSK50E-SFA4-95-M42	4	7	95	42	27	11.4	25	12	85
HSK50E-SFA6-60-M22	6	9	60	22	12	11.3	20	18	42
HSK50E-SFA6-75-M22	6	9	75	22	27	11.3	25	18	61
HSK50E-SFA6-80-M42	6	9	80	42	12	13.4	20	18	62
HSK50E-SFA6-95-M42	6	9	95	42	27	13.4	25	18	81
HSK50E-SFA6-120-M67	6	9	120	67	27	16	25	18	106
HSK50E-SFA6-150-M97	6	9	150	97	27	19.2	32	18	135
HSK50E-SFA8-65-M22	8	11	65	22	17	13.3	26	24	39
HSK50E-SFA8-75-M22	8	11	75	22	27	15.4	25	24	48
HSK50E-SFA8-85-M42	8	11	85	42	17	15.4	26	24	48
HSK5 0 E- SFA8- 9 5 - M42	8	11	95	42	27	15.4	25	24	48
HSK50E-SFA8-120-M67	8	11	120	67	27	18	32	24	48
HSK50E-SFA8-150-M97	8	11	150	97	27	21.2	32	24	48
HSK50E-SFA10-65-M22	10	13	65	22	17	15.3	26	30	39
HSK50E-SFA10-75-M22	10	13	75	22	27	15.3	25	30	49
HSK50E-SFA10-85-M42	10	13	85	42	17	17.4	26	30	59
HSK50E-SFA10-95-M42	10	13	95	42	27	17.4	25	30	60
HSK50E-SFA10- 120-M67	10	13	120	67	27	20	32	30	60
HSK50E-SFA10- 150-M97	10	13	150	97	27	23.2	32	30	60
HSK50E-SFA12-65-M22	12	15	65	22	17	17.3	26	25	39
HSK50E-SFA12-75-M22	12	15	75	22	27	17.3	25	30	49
HSK50E-SFA12-85-M42	12	15	85	42	17	19.4	26	30	59
HSK50E-SFA12-95-M42	12	15	95	42	27	19.4	32	30	69
HSK50E-SFA12- 120-M67	12	15	120	67	27	22	32	30	72

◆◆ Shrink Chuck, 3° , Slim, Form C

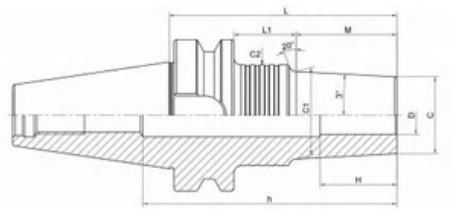




Model	D	C	L	M	L1	C1	C2	H	h
HSK63F-SFA3-75-M37	3 3	6	75	37	12	9.9	26	9	58
HSK63F-SFA3-95-M42	4 4	6	95	42	27	10.4	25	9	73
HSK63F-SFA4-75-M37	6 6	7	75	37	12	10.9	26	12	58
HSK63F-SFA4-95-M42	8	7	95	42	27	11.4	25	12	78
HSK63F-SFA6-75-M37	10	9	75	37	12	12.9	26	18	36
HSK63F-SFA6-95-M42	12	9	95	42	27	13.4	25	18	36
HSK63F-SFA8-95-M42		11	95	42	27	15.4	25	24	48
HSK63F-SFA10-95-M42		13	95	42	27	17.4	25	30	60
HSK63F-SFA12-95-M42		15	95	42	27	19.4	32	30	72

◆◆ Shrink Chuck, 3° , Slim, Form C

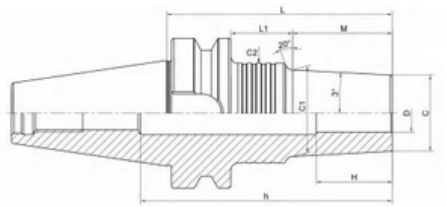




Model	D	C	L	M	L1	C1	C2	H	h
BT40-SFA6-95-M42	6	10	95	42	26	14.4	25	18	130
BT40-SFA6-120-M67	6	10	120	67	26	17	25	18	155
BT40-SFA6-125-M42	6	10	125	42	56	14.4	25	18	160
BT40-SFA6-150-M67	6	10	150	67	56	17	25	18	185
BT40-SFA6-150-M97	6	10	150	97	26	20.2	32	18	185
BT40-SFA6-180-M97	6	10	180	97	56	20.2	36	18	215
BT40-SFA6-180-M127	6	10	180	127	26	23.3	36	18	215
BT40-SFA6-210-M157	6	10	210	127	56	23.3	36	18	245
BT40-SFA6-210-M157	6	10	210	157	26	26.5	36	18	245
BT40-SFA6-240-Ml157	6	10	240	157	56	26.5	36	18	275
BT40-SFA8-95-M42	8	13	95	42	26	17.4	32	24	130
BT40-SFA8-120-M67	8	13	120	67	26	20	32	24	155
BT40-SFA8-125-M42	8	13	125	42	56	17.4	36	24	160
BT40-SFA8-150-M67	8	13	150	67	56	20	36	24	185
BT40-SFA8-150-M97	8	13	150	97	26	23.2	32	24	185
BT40-SFA8-180-M97	8	13	180	97	56	23.2	36	24	215
BT40-SFA8-180-M127	8	13	180	127	26	26.3	36	24	215
BT40-SFA8-210-M127	8	13	210	127	56	26.3	36	24	245
BT40-SFSC8-210-M157	8	13	210	157	26	29.5	36	24	245
BT40-SFA8-240-M157	8	13	240	157	56	29.5	36	24	275
BT40-SFA10-95-M42	10	16	95	42	26	20.4	32	30	130
BT40-SFA10-120-M67	10	16	120	67	26	23	36	30	155
BT40-SFA10-125-M42	10	16	125	42	56	20.4	36	30	160
BT40-SFA10-150-M67	10	16	150	67	56	23	32	30	185
BT40-SFA10-150-M97	10	16	150	97	26	26.2	32	30	185
BT40-SFA10-180-M97	10	16	150	97	56	26.2	36	30	215

◆◆ Shrink Chuck, 3° , Slim, Form C

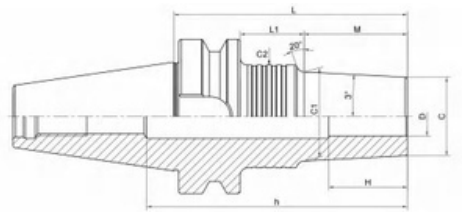




Model	D	C	L	M	L1	C1	C2	H	h
BT40-SFA10-180-M127	10	16	180	127	26	29.3	50	30	190
BT40-SFA10-210-M127	10	16	210	127	56	29.3	50	30	220
BT40-SFA10-210-M157	10	16	210	157	26	32.5	50	30	220
BT40-SFA10-240-M127	10	16	240	127	86	29.3	50	30	250
BT40-SFA10-240-M157	10	16	240	157	56	32.5	50	30	250
BT40-SFA10-270-M157	10	16	270	157	86	32.5	50	30	305
BT40-SFA12-95-M42	12	19	95	42	26	23.4	32	30	130
BT40-SFA12-120-M67	12	19	120	67	26	26	36	30	155
BT40-SFA12-125-M42	12	19	125	42	56	23.4	36	30	160
BT40-SFA12-150-M67	12	19	150	67	56	26	36	30	185
BT40-SFA12-150-M97	12	19	150	97	26	29.2	50	30	160
BT40-SFA12-180-M97	12	19	180	97	56	29.2	50	30	190
BT40-SFA12-180-M127	12	19	180	127	26	32.3	50	30	190
BT40-SFA12-210-M97	12	19	210	97	86	29.2	50	30	220
BT40-SFA12-210-M127	12	19	210	127	56	32.3	50	30	220
BT40-SFA12-210-M157	12	19	210	157	26	35.5	50	30	220
BT40-SFA12-240-M127	12	19	240	127	86	32.3	50	30	250
BT40-SFA12-240-M157	12	19	240	157	56	35.5	50	30	250
BT40-SFA12-270-M157	12	19	270	157	86	35.5	50	30	280
BT40-SFA16-95-M42	16	24	95	42	26	28.4	42	32	96
BT40-SFA16-120-M67	16	24	120	67	26	31	42	32	96
BT40-SFA16-125-M42	16	24	125	42	56	28.4	50	32	96
BT40-SFA16-150-M67	16	24	150	67	56	31	42	32	96
BT40-SFA16-150-M97	16	24	150	97	26	34.2	50	32	96
BT40-SFA16-155-M42	16	24	155	42	86	28.2	50	32	96
BT40-SFA16-180-M67	16	24	180	67	86	31	50	32	96
BT40-SFA16-180-M97	16	24	180	97	56	34.2	50	32	96

◆◆ Shrink Chuck, 3° , Slim, Form C

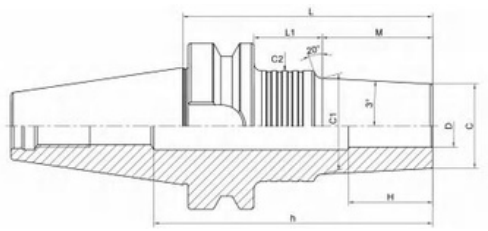




Model	D	C	L	M	L1	C1	C2	H	h
BT40-SFA16-180-M127	16	24	180	127	26	37.3	50	32	96
BT40-SFA16-210-M 97	16	24	210	97	86	34.2	50	32	96
BT40-SFA16-210-M127	16	24	210	127	56	37.3	50	32	96
BT40-SFA16-210-M157	16	24	210	157	26	40.5	50	32	96
BT40-SFA16-240-M127	16	24	240	127	86	37.3	53	32	96
BT40-SFA16-240-M157	16	24	240	157	56	40.5	50	32	96
BT40-SFA16-270-M157	16	24	270	157	86	40.5	50	32	96
BT40-SFA20-95-M42	20	29	95	42	26	33.4	42	40	105
BT40-SFA20-120-M 67	20	29	120	67	26	36	42	40	120
BT40-SFA20-125-M 42	20	29	125	42	56	33.4	50	40	120
BT40-SFA20-150-M 67	20	29	150	67	56	36	50	40	120
BT40-SFA20-150-M 97	20	29	150	97	26	39.2	50	40	120
BT40-SFA20-180-M 67	20	29	180	67	86	26	50	40	120
BT40-SFA20-180-M 97	20	29	180	97	56	39.2	50	40	120
BT40-SFA20-180-M127	20	29	180	127	26	42.3	50	40	120
BT40-SFA20-210-M 97	20	29	210	97	86	39.2	50	40	120
BT40-SFA20-210-M127	20	29	210	127	56	42.3	50	40	120
BT40-SFA20-210-M157	20	29	210	157	26	45.5	50	40	120
BT40-SFA20-240-M127	20	29	240	127	86	42.3	50	40	120
BT40-SFA20-240-M157	20	29	240	157	56	45.5	50	40	120
BT40-SFA20-270-M157	20	29	270	157	86	45.5	50	40	120

◆◆ Shrink Chuck, 3° , Slim, Form C

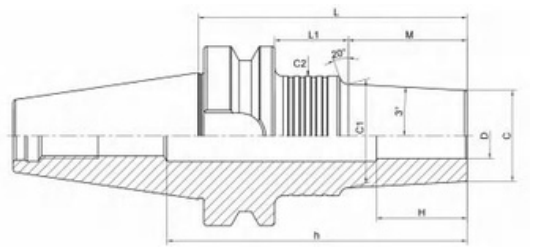




Model	D	C	L	M	L1	L2	C1	C2	C3	H	h
BT40-SFA6-155-M42	6	10	155	42	33	53	14.4	26	40	18	190
BT40-SFA6-180-M67	6	10	180	67	33	53	17	25	39	18	215
BT40-SFA6-210-M97	6	10	210	97	28	58	20.2	36	50	18	245
BT40-SFA6-240-M127	6	10	240	127	28	58	23.3	36	50	18	275
BT40-SFA6-270-M157	6	10	270	157	28	58	26..5	36	50	18	305
BT40-SFA8-155-M42	8	13	155	42	30	56	17.4	32	46	24	190
BT40-SFA8-180-M67	8	13	180	67	28	58	20	36	50	24	215
BT40-SFA8-210-M97	8	13	210	97	28	58	23.2	36	50	24	245
BT40-SFA8-240-MI 27	8	13	240	127	28	58	26.3	36	50	24	275
BT40-SFA8-270-M157	8	13	270	157	28	58	29.5	42	53	24	305
BT40-SFA10-155-M42	10	16	155	42	28	58	20.4	36	50	30	190
BT40-SFA10-180-M67	10	16	180	67	28	58	23	36	50	30	215
BT40-SFA10-210-M97	10	16	210	97	28	58	26.2	36	50	30	245
BT40-SFA12-155-M42	12	19	155	42	28	58	23.4	36	50	30	190
BT40-SFA12-180-M67	12	19	180	67	28	58	26	36	50	30	215
BT40-SFA20-155-M42	20	29	155	42	28	58	33.4	42	53	40	120

◆◆ Shrink Chuck, 3° , Slim, Form C

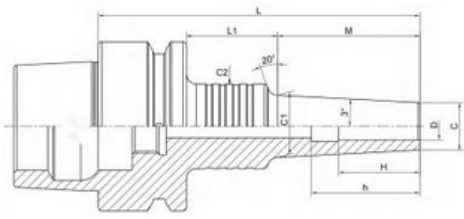




Model	D	C	L	M	L1	C1	C2	H	h
BT40-SFR 6-75-M22	6	14	75	22	26	16.3	32	18	110
BT40-SFR 6-95-M42	6	14	95	42	26	18.4	32	18	130
BT40-SFR 6-105-M22	6	14	105	22	56	16.3	36	18	140
BT40-SFR 6-120-M67	6	14	120	67	26	21	32	18	155
BT40-SFR 6-125-M42	6	14	125	42	56	18.4	32	18	160
BT40-SFR 6-150-M67	6	14	150	67	56	21	32	18	185
BT40-SFR 8-75-M22	8	18	75	22	26	20.3	32	24	110
BT40-SFR 8-95-M42	8	18	95	42	26	22.4	36	24	130
BT40-SFR 8-105-M22	8	18	105	22	56	20.3	36	24	140
BT40-SFR 8-120-M67	8	18	120	67	26	25	36	24	155
BT40-SFR 8-125-M42	8	18	125	42	56	22.4	36	24	160
BT40-SFR 8-150-M67	8	18	150	67	56	25	36	24	185
BT40-SFR 10-75-M22	10	22	75	22	26	24.3	32	30	110
BT40-SFR 10-95-M42	10	22	95	42	26	26.4	32	30	130
BT40-SFR 10-105-M22	10	22	105	22	56	24.3	32	30	140
BT40-SFR 10-120-M67	10	22	120	67	26	29	36	30	155
BT40-SFR 10-125-M42	10	22	125	42	56	26.4	36	30	160
BT40-SFR 10-150-M67	10	22	150	67	56	29	38	30	185

◆◆ Shrink Chuck, 3° , Slim, Form C

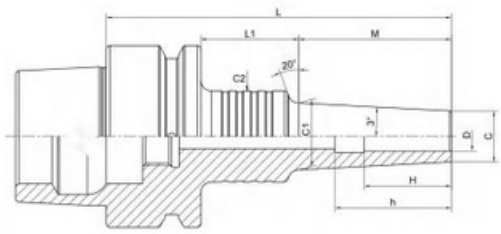




Model	D	C	L	M	L1	C1	C2	H	h
HSK50E-SFS6-95-M42	6	10	95	42	27	14.4	25	18	77
HSK50E-SFS6-120-M67	6	10	120	67	27	17	25	18	102
HSK50E-SFS6-150-M97	6	10	150	97	27	20.2	32	18	135
HSK50E-SFS8-95-M42	8	13	95	42	27	17.4	32	24	48
HSK50E-SFS8-120-M67	8	13	120	67	27	20	32	24	48
HSK50E-SFS8-150-M97	8	13	150	97	27	23.2	32	24	48
HSK50E-SFS10-95-M42	10	16	95	42	27	20.4	32	30	60
HSK50E-SFS10-120-M67	10	16	120	67	27	23	32	30	60
HSK50E-SFS10-150-M97	10	16	150	97	27	26.2	32	30	60
HSK50E-SFS12-95-M42	12	19	95	42	27	23.4	32	30	69
HSK50E-SFS12-120-M67	12	19	120	67	27	26	32	30	72
HSK50E-SFS12-150-M97	12	19	150	97	27	29.2	32	30	72
HSK50E-SFS16-95-M42	16	24	95	42	27	28.4	42	32	69
HSK50E-SFS16-120-M67	16	24	120	67	27	31	42	32	94
HSK50E-SFS20-95-M42	20	29	95	42	27	33.4	42	40	69

◆◆ Shrink Chuck, 3° , Slim, Form C

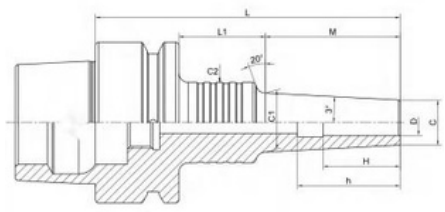




Model	D	C	L	M	L1	C1	C2	H	h
HSK32E-SFE3-70-M42	3	7.5	70	42	8	11.9	20	9	62
HSK32E-SFE3-85-M42	3	7.5	85	42	23	11.9	25	9	69
HSK32E-SFE4-50-M22	4	10	50	22	8	12.3	20	12	35
HSK32E-SFE4-70-M42	4	10	70	42	8	14.4	20	12	54
HSK32E-SFE4-85-M42	4	10	85	42	23	14.4	25	12	69
HSK32E-SFE6-50-M22	6	12	50	22	8	14.3	26	18	39
HSK32E-SFE6-70-M42	6	12	70	42	8	16.4	26	18	54
HSK32E-SFE6-85-M42	6	12	85	42	23	16.4	25	18	69
HSK32E-SFE8-50-M22	8	14	50	22	8	16.3	26	20	39
HSK32E-SFE8-85-M42	8	14	85	42	23	18.4	25	24	48
HSK32E-SFE10-55-M22	10	16	55	22	13	18.3	26	25	44
HSK32E-SFE12-55-M22	12	20	55	22	13	22.3	26	25	44
HSK32E-SFE16-55-M35	16	26	55	35				32	44
HSK40E-SFE3-50-M22	3	7.5	50	22	8	9.8	20	9	42
HSK40E-SFE3-70-M42	3	7.5	70	42	8	11.9	20	9	62
HSK40E-SFE3-85-M42	3	7.5	85	42	23	11.9	25	9	69
HSK40E-SFE3-110-M67	3	7.5	110	67	23	14.5	25	9	94
HSK40E-SFE4-50-M22	4	10	50	22	8	12.3	20	12	42
HSK40E-SFE4-70-M42	4	10	70	42	8	14.4	20	12	62
HSK40E-SFE4-85-M42	4	10	85	42	23	14.4	25	12	69
HSK40E-SFE4-110-M67	4	10	110	67	23	17	25	12	94
HSK40E-SFE6-50-M22	6	12	50	22	8	14.3	26	18	36
HSK40E-SFE6-70-M42	6	12	70	42	8	16.4	26	18	36
HSK40E-SFE6-85-M42	6	12	85	42	23	16.4	25	18	36
HSK40E-SFE6-110-M67	6	12	110	67	23	19	25	18	36

◆◆ Shrink Chuck, 3° , Slim, Form C

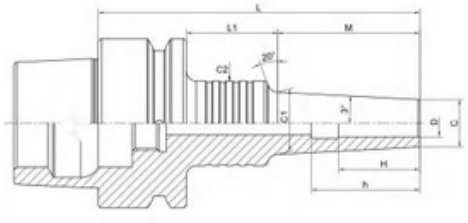




Model	D	C	L	M	L1	C1	C2	H	h
HSK40E-SFE(I)8-50-M22	8	14	50	22	8	16.3	26	20	48
HSK40E-SFE(I)8-85-M42	8	14	85	42	23	18.4	25	24	48
HSK40E-SFE(I)8-100-M42	8	14	100	42	38	18.4	25	24	48
HSK40E-SFE(I)10-55-M22	10	16	55	22	13	18.3	26	25	60
HSK40E-SFE(I)10-85-M42	10	16	85	42	23	20.4	25	30	60
HSK40E-SFE(I)10-100-M42	10	16	100	42	38	20.4	25	30	60
HSK40E-SFE(I)12-55-M22	12	20	55	22	13	22.3	30	25	44
HSK40E-SFE(I)12-85-M42	12	20	85	42	23	24.4	32	30	72
HSK40E-SFE(I)16-55-M22	16	26	55	22	13	28.3	34	32	44
HSK40E-SFE(I)20-60-M40	20	32	60	40	.	34	.	38	49
HSK50E-SFE(I)3-75-M22	3	7.5	75	22	27	9.8	25	9	61
HSK50E-SFE(I)3-95-M42	3	7.5	95	42	27	11.9	25	9	81
HSK50E-SFE(I)3-120-M67	3	7.5	120	67	27	14.5	25	9	106
HSK50E-SFE(I)3-150-M97	3	7.5	150	97	27	17.7	25	9	136
HSK50E-SFE(I)4-75-M22	4	10	75	22	27	12.3	25	12	61
HSK50E-SFE(I)4-95-M42	4	10	95	42	27	14.4	25	12	81
HSK50E-SFE(I)4-120-M67	4	10	120	67	27	17	25	12	106
HSK50E-SFE(I)4-150-M97	4	10	150	97	27	20.2	25	12	135
HSK50E-SFE(I)6-60-M22	6	12	60	22	12	14.3	26	18	44
HSK50E-SFE(I)6-75-M22	6	12	75	22	27	14.3	25	18	61
HSK50E-SFE(I)6-95-M42	6	12	95	42	27	16.4	25	18	81
HSK50E-SFE(I)6-120-M67	6	12	120	67	27	19	25	18	106
HSK50E-SFE(I)8-60-M22	8	14	60	22	12	16.3	26	20	34
HSK50E-SFE(I)8-75-M22	8	14	75	22	27	16.3	25	24	48
HSK50E-SFE(I)8-95-M42	8	14	95	42	27	18.4	25	24	48
HSK50E-SFE(I)10-60-M22	10	16	60	22	12	18.3	26	25	34
HSK50E-SFE(I)10-75-M22	10	16	75	22	27	18.3	25	30	49
HSK50E-SFE(I)12-60-M22	12	20	60	22	12	22.3	26	25	34
HSK50E-SFE(I)12-75-M22	12	20	75	22	27	22.3	25	30	49
HSK50E-SFE(I)16-60-M22	16	26	60	22	12	28.3	34	32	34
HSK50E-SFE(I)20-65-M22	20	32	65	22	17	34.3	40	38	39

◆◆ Shrink Chuck, 3° , Slim, Form C





Model	D	C	L	M	L1	C1	C2	H	h
HSK63F-SFE3-70-M22	3	7.5	70	22	22	9.8	26	9	53
HSK63F-SFE3-75-M22	3	7.5	75	22	27	9.8	25	9	54
HSK63F-SFE3-95-M42	3	7.5	95	42	27	11.9	25	9	78
HSK63F-SFE4-70-M22	4	10	70	22	22	12.3	26	12	53
HSK63F-SFE4-75-M22	4	10	75	22	27	12.3	25	12	58
HSK63F-SFE4-95-M42	4	10	95	42	27	14.4	25	12	73
HSK63F-SFE6-70-M22	6	12	70	22	22	14.3	26	18	36
HSK63F-SFE6-75-M22	6	12	75	22	27	14.3	25	18	36
HSK63F-SFE6-95-M42	6	12	95	42	27	16.4	25	18	36
HSK63F-SFE8-70-M22	8	14	70	22	22	16.3	26	24	44
HSK63F-SFE8-75-M22	8	14	75	22	27	16.3	25	24	48
HSK63F-SFE 8-95-M42	8	14	95	42	27	18.4	25	24	48
HSK63F-SFE10-70-M22	10	16	70	22	22	18.3	26	30	44
HSK63F-SFE10-75-M22	10	16	75	22	27	18.3	25	30	49
HSK63F-SFE12-70-M22	12	20	70	22	22	22.3	26	30	44
HSK63F-SFE12-75-M22	12	20	75	22	27	22.3	25	30	49



BT/SK/CAT

30/40/50

TOOL HOLDER SERIES

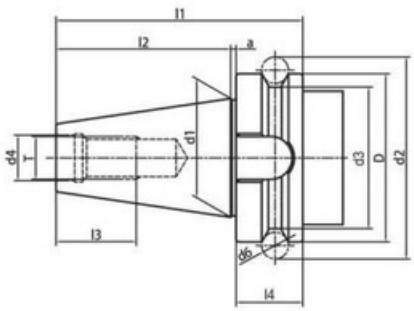


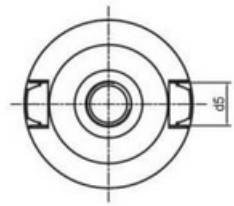
KORTOOLS

JIS
MAS 403
B63 39

REFERENCE DETAILS







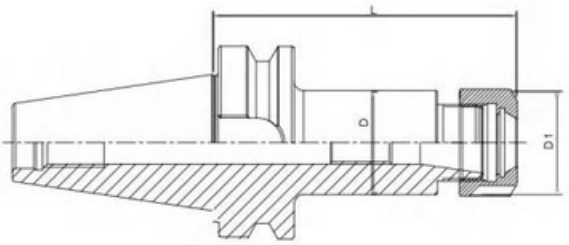
Size	D	d1	d2	d3	d4	d5	d6	l1	l2	l3	l4	d	T
BT30	46	31.75	56.144	38	12.5	16.1	8	70.4	48.4	24	20	2	M12*1.75
BT40	63	44.45	75.679	53	17	16.	10	92.4	65.4	30	25	2	M16*2.0
BT50	100	69.85	119.019	85	25	25.7	15	139.8	101.8	45	35	3	M24*3.0

1.Taper tolerance<AT3
2.Basic Material:JIS-SCM415.
3.Hardness>HRC 56° Carbon depth>0.8mm.
4.Roundness<0.8um
5.Surface roughness:Ra<0.25um.
6.If it is suitable for center coolant standard (DIN-69871-AD or B), it can be ordered
7.ER.EOC,FMA.FMB.MLC.MLK,MLD,MLTSCK,MCK,CK,SFA,SK,SLN(DINFID,JIS)BOM TG all tally: Through cutter bar main body center water leakage specification(DIN-69871-AD).
8.The shank has pre-balance at G6.3,and can provide percision balance at G2.5,made by request
9.Shank body standard : JIS MAS 403 and B6339

1. Tolerancja stożka: <AT3
2. Podstawowy materiał: JIS-SCM415
3. Twardość: >HRC 56° Głębokość warstwy węglowej: >0,8 mm
4. Okrągłość: <0,8 µm
5. Chropowatość powierzchni: Ra < 0,25 µm
6. Jeśli jest odpowiednie dla standardu chłodzenia przez środek (DIN-69871-AD lub B), można zamówić
7. ER, EOC, FMA, FMB, MLC, MLK, MLD, MLTSCK, MCK, CK, SFA, SK, SLN (DIN, FID, JIS) BOM TG wszystko zgodne: Specyfikacja wycieku wody przez środek korpusu pręta tnącego (DIN-69871-AD)
8. Trzpień wstępnie wyważony na G6.3, możliwość precyzyjnego wyważenia na G2.5 na zamówienie
9. Standard korpusu trzpienia: JIS MAS 403 i B6339

◆◆ ER Collet Chuck

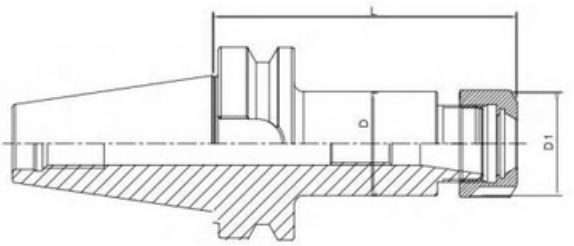




Model	D	L	I	Capacity
BT30-ER16-70	28	32	70	1-10
BT30-ER20-70	34	35	70	1-13
BT30-ER25-70	42	42	70	2-16
BT30-ER32-70	40	50	70	2-20
BT30-ER40-80	50	63	80	3-26
BT30-ER16-100	28	32	100	1-10
BT30-ER20-100	34	35	100	
BT30-ER25-100	42	42	100	2-16
BT30-ER32-100	50	50	100	2-20
BT40-ER16-63	28	32	63	1-10
BT40-ER20-70	34	35	70	1-13
BT40-ER25-70	42	42	70	2-16
BT40-ER32-70	50	50	70	2-20
BT40-ER40-80	50	63	80	3-26
BT40-ER16-100	28	32	100	1-10
BT40-ER20-100	34	35	100	1-13
BT40-ER25-100	42	42	100	2-16
BT40-ER32-100	50	50	100	2-20
BT40-ER40-100	50	63	100	3-26
BT40-ER16-150	28	32	160	1-10
BT40-ER20-150	34	35	160	1-13
BT40-ER25-150	42	42	160	2-16
BT40-ER32-150	50	50	160	2-20
BT40-ER40-150	50	63	160	3-26

◆◆ ER Collet Chuck

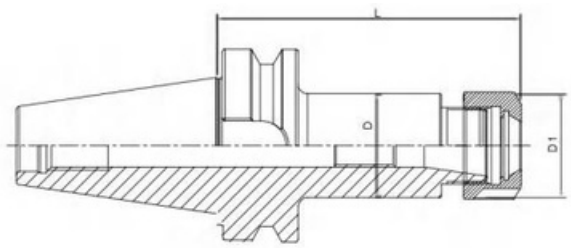




Model	D	L	l	Capacity
BT50-ER16-80	28	28	80	1-10
BT50-ER20-80	34	35	80	1-13
BT50-ER32-80	50	5	80	2-20
BT50-ER40-80	63	63	80	3-26
BT50-ER16-100	28	32	100	1-10
BT50-ER20-100	34	35	100	1-13
BT50-ER25-100	42	42	100	2-16
BT50-ER32-100	50	50	100	2-20
BT50-ER50-100	63	63	100	3-32
BT50-ER16-150	28	32	150	1-10
BT50-ER20-150	34	350	150	1-13
BT50-ER25-160	42	50	150	2-16
BT50-ER32-160	50	50	150	2-20
BT50-ER40-160	63	63	150	3-32
BT50-ER32-200	50	50	200	2-20
BT50-ER40-200	63	63	200	3-26
BT50-ER32-250	50	50	250	2-20
BT50-ER32-250	63	63	250	3-26
BT50-ER32-300	50	50	300	2-20
BT50-ER32-300	63	63	300	3-26

◆◆ ER Collet Chuck

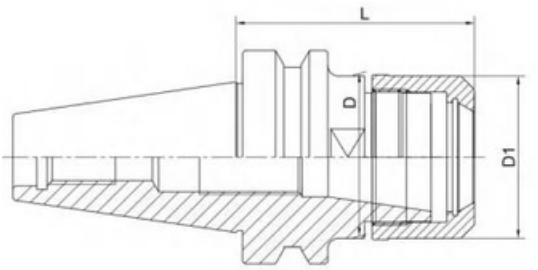




Model	D	L	I	Capacity
BT40-ER8M-70	12	12	70	1-5
BT40-ER11M-70	16	16	70	1-7
BT40-ER16M-70	22	22	70	1-10
BT40-ER20M-70	28	28	70	1-13
BT40-ER25M-70	35	35	70	2-16
BT40-ER8M-100	12	12	100	1-5
BT40-ER11M-100	16	16	100	1-7
BT40-ER16M-100	22	22	100	1-10
BT40-ER20M-100	28	28	100	1-13
BT40-ER25M-100	35	35	100	2-16
BT40-ER11M-150	16	16	150	1-7
BT40-ER16M-150	22	22	150	1-10
BT40-ER20M-150	28	28	150	1-13
BT40-ER25M-150	35	35	150	2-16
BT50-ER20M-100	28	28	100	1-13
BT50-ER25M-100	35	35	100	2-16
BT50-ER16M-150	22	22	150	1-10
BT50-ER20M-150	28	28	150	1-13
BT50-ER25M-150	35	35	150	2-16

◆◆ ER Collet Chuck with GER Nut

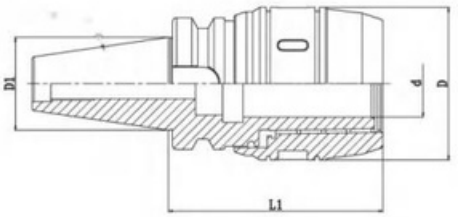




Model	D	L	I	Capacity
BT30-GER16-60	30	30	60	1-10
BT30-GER20-60	35	35	60	1-13
BT30-GER25-60	40	40	60	2-16
BT30-GER32-70	48	48	70	2-20
BT40-GER16-70	30	30	70	1-10
BT40-GER20-70	35	35	70	1-13
BT40-GER25-70	40	40	70	2-16
BT40-GER32-70	48	48	70	2-20
BT40-GER16-100	30	30	100	1-10
BT40-GER20-100	35	35	100	1-13
BT40-GER25-100	40	40	100	2-16
BT40-GER32-100	48	48	100	2-20
BT50-GER16-100	30	30	100	1-10
BT50-GER20-100	35	35	100	1-13
BT50-GER25-100	40	40	100	2-16
BT50-GER32-100	48	48	100	2-20
BT50-GER25-150	40	40	150	2-16
BT50-GER32-150	48	48	150	2-20

◆◆ Power Milling Chuck

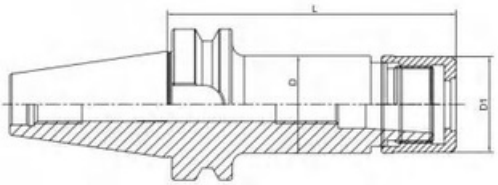




Model	d	D	L1	Capacity
BT30-MC20-90	20	50	90	3-16; 20
BT30-MC25-90	25	59	90	3-20; 25
BT30-MC32-105	32	68	105	3-25; 32
BT40-MC20-90	20	50	90	3-16; 20
BT40-MC25-90	25	59	90	3-20; 25
BT40-MC32-90	32	68	90	3-25; 32
BT40-MC32-105	32	70	105	3-25; 32
BT40-MC42-120	42	88	120	3-32; 42
BT50-MC20-105	20	50	105	3-16; 20
BT50-MC25-105	25	59	105	3-20; 25
BT50-MC32-110	32	73	110	3-25; 32
BT50-MC32-165	32	73	165	3-25; 32
BT50-MC32-200	32	73	200	3-25; 32
BT50-MC32-250	32	73	250	3-25; 32
BT50-MC32-300	32	73	300	3-25; 32
BT50-MC32-350	32	73	350	3-25; 32
BT50-MC32-400	32	73	400	3-25; 32
BT50-MC32-450	32	73	450	3-25; 32
BT50-MC42-110	42	88	110	3-32; 42
BT50-MC42-165	42	88	165	3-32; 42
BT50-MC42-200	42	88	200	3-32; 42
BT50-MC42-250	42	88	250	3-32; 42

◆◆ High Speed SK Collet Chuck

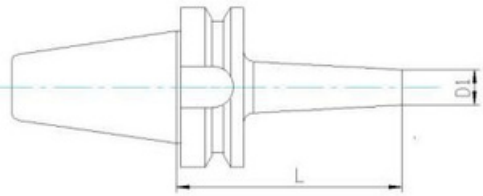




Model	D	L	I	Capacity	M
BT30-SK10-60	27.5	27	60	2-10	M21.5*1
BT30-SK16-60	40.6	40	60	3-16	M32*1.5
BT30-SK10-90	27.5	27	90	2-10	M21.5*1
BT30-SK16-90	40.6	40	90	3-16	M32*1.5
BT40-SK06-60	20	19.5	60	2-6	M15*1.5
BT40-SK10-60	27.5	27	60	2-10	M21.5*1
BT40-SK16-70	40.6	40	70	3-16	M32*1.5
BT40-SK06-90	20	19.5	90	2-6	M15*1.5
BT40-SK10-90	27.5	27	90	2-10	M21.5*1
BT40-SK16-90	40.6	40	90	3-16	M32*1.5
BT40-SK25-90	55.6	55	90	6-25	M45*1.5
BT40-SK10-120	27.5	27	120	2-10	M21.5*1
BT40-SK16-120	40.6	40	120	3-16	M32*1.5
BT40-SK25-120	55.6	55	120	6-25	M45*1.5
BT50-SK10-100	27.5	27	100	2-10	M21.5*1
BT50-SK16-100	40.6	40	100	3-16	M32*1.5
BT50-SK25-100	55.6	55	100	6-25	M45*1.5
BT50-SK10-120	27.5	27	120	2-10	M21.5*1
BT50-SK16-120	40.6	40	120	3-16	M32*1.5
BT50-SK10-150	27.5	27	150	2-10	M21.5*1
BT50-SK16-150	40.5	27	150	3-16	M32*1.5

◆◆ Precision Screw Collet Chuck

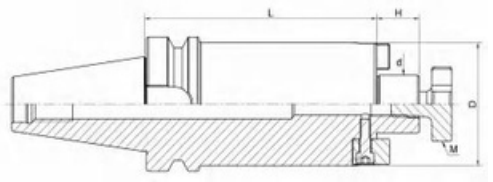




Model	D1	L	Capacity
BT30-DC06-90	14	90	1-6
BT30-DC06-120	14	120	1-6
BT30-DC08-90	22	90	1-10
BT30-DC08-120	22	120	1-10
BT30-DC12-80	34	80	1-12
BT40-DC06-90	14	90	1-6
BT40-DC06-120	14	120	1-6
BT40-DC06-150	14	150	1-6
BT40-DC08-90	22	90	1-10
BT40-DC08-120	22	120	1-10
BT40-DC08-150	22	150	1-10
BT40-DC08-200	22	200	1-10
BT40-DC12-90	34	90	1-12
BT40-DC12-120	34	120	1-12
BT40-DC12-150	34	150	1-12
BT40-DC12-200	34	200	1-12
BT50-DC06-110	14	110	1-6
BT50-DC06-150	14	150	1-6
BT50-DC08-110	22	110	1-10
BT50-DC08-150	22	150	1-10
BT50-DC08-200	22	200	1-10
BT50-DC12-120	34	120	1-12
BT50-DC12-150	34	150	1-12
BT50-DC12-200	34	200	1-12

◆◆ Face Mill Holder

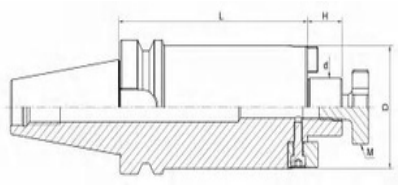




Model	d	L	D	H	M
BT30-FMB16-45	16	45	38	16	M8
BT30-FMB22-60	22	60	48	18	M10
BT30-FMB27-60	27	60	58	20	M12
BT30-FMB32-60	32	60	78	22	M16
BT40-FMB16-60	16	60	38	16	M8
BT40-FMB22-60	22	60	48	18	M10
BT40-FMB27-60	27	60	58	20	M12
BT40-FMB32-60	32	60	78	22	M16
BT40-FMB40-60	40	60	88	25	M20
BT40-FMB16-100	16	100	38	16	M8
BT40-FMB22-100	22	100	48	18	M10
BT40-FMB27-100	27	100	58	20	M12
BT40-FMB32-100	32	100	78	22	M16
BT40-FMB40-100	40	100	88	25	M20
BT40-FMB16-150	16	150	38	16	M8
BT40-FMB22-150	22	150	48	18	M10
BT40-FMB27-150	27	150	58	20	M12
BT40-FMB32-150	32	150	78	22	M16
BT40-FMB40-150	40	150	88	25	M20
BT40-FMB22-200	22	200	48	18	M10
BT40-FMB27-200	27	200	58	20	M12
BT40-FMB32-200	32	200	78	22	M16
BT40-FMB40-200	40	200	88	25	M20

◆◆ Face Mill Holder

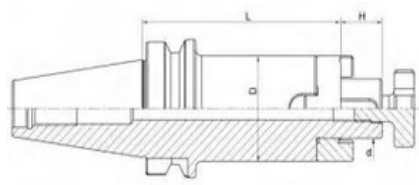




Model	d	L	D	H	M
BT50-FMB16-60	16	60	38	16	M8
BT50-FMB22-60	22	60	48	18	M10
BT50-FMB27-60	27	60	58	20	M12
BT50-FMB32-60	32	60	78	22	M16
BT50-FMB40-60	40	60	88	25	M20
BT50-FMB60-75	60	75	129	25	M30
BT50-FMB16-100	16	100	38	16	M8
BT50-FMB22-100	22	100	48	18	M10
BT50-FMB27-100	27	100	58	20	M12
BT50-FMB32-100	32	100	78	22	M16
BT50-FMB40-100	40	100	88	25	M20
BT50-FMB22-150	22	150	48	18	M10
BT50-FMB27-150	27	150	58	20	M12
BT50-FMB32-150	32	150	78	22	M16
BT50-FMB40-150	40	150	88	25	M20
BT50-FMB22-200	22	200	48	18	M10
BT50-FMB27-200	27	200	58	20	M12
BT50-FMB32-200	32	200	78	22	M16
BT50-FMB40-200	40	200	88	25	M20

◆◆ Combi Shell Mill Holder

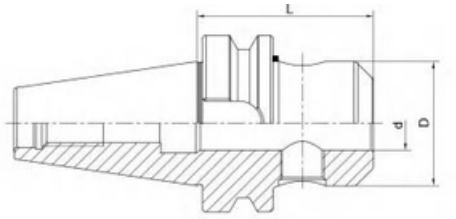




Model	d	D	H	L
BT30-SEMC16-45	16	32	17	45
BT30-SEMC22-50	22	40	19	50
BT30-SEMC27-50	27	48	21	50
BT40-SEMC16-55	16	32	17	55
BT40-SEMC22-55	22	40	19	55
BT40-SEMC27-55	27	48	21	55
BT40-SEMC32-60	32	58	24	60
BT40-SEMC40-60	40	70	27	60
BT40-SEMC16-100	16	32	17	100
BT40-SEMC22-100	22	40	19	100
BT40-SEMC27-100	27	48	21	100
BT50-SEMC16-70	16	32	17	70
BT50-SEMC22-70	22	40	19	70
BT50-SEMC27-70	27	48	21	70
BT50-SEMC32-70	32	58	24	70
BT50-SEMC40-70	40	70	27	70
BT50-SEMC16-100	16	32	17	100
BT50-SEMC22-100	22	40	19	100
BT50-SEMC27-100	27	48	21	100
BT50-SEMC32-100	32	58	24	100
BT50-SEMC40-100	40	70	27	100
BT50-SEMC16-160	16	32	17	160
BT50-SEMC22-160	22	40	19	160
BT50-SEMC27-160	27	48	21	160
BT50-SEMC32-160	32	58	24	160
BT50-SEMC40-160	40	70	27	160

◆◆ End Mill Holder Weldon

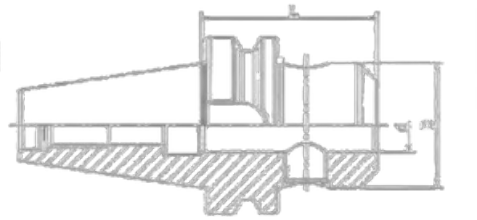




Model	d	D	L
BT30-SLA6-50	6	25	50
BT30-SLA8-50	8	28	50
BT30-SLA10-50	10	35	50
BT30-SLA12-50	12	42	50
BT30-SLA14-50	14	44	50
BT30-SLA16-63	16	48	63
BT30-SLA18-63	18	50	63
BT30-SLA20-63	20	52	63
BT40-SLA6-50	6	25	50
BT40-SLA8-50	8	28	50
BT40-SLA10-63	10	35	63
BT40-SLA12-63	12	42	63
BT40-SLA14-63	14	44	63
BT40-SLA16-63	16	48	63
BT40-SLA18-63	18	50	63
BT40-SLA20-63	20	52	63
BT40-SLA6-100	6	25	100
BT40-SLA8-100	8	28	100
BT40-SLA10-100	10	35	100
BT40-SLA12-100	12	42	100
BT40-SLA14-100	14	44	100
BT40-SLA16-100	16	48	100
BT40-SLA18-100	18	50	100
BT40-SLA20-100	20	52	100
BT40-SLA25-100	25	65	100
BT40-SLA32-100	32	72	100
BT40-SLA40-120	40	80	120

◆◆ End Mill Holder Weldon

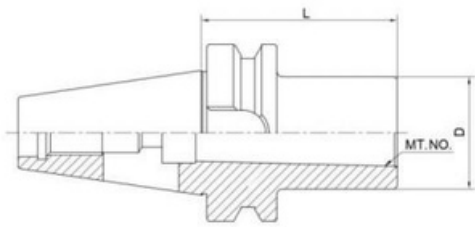




Model	d	D	L
BT40-SLA6-150	6	25	150
BT40-SLA8-150	8	28	150
BT40-SLA10-150	10	35	150
BT40-SLA12-150	12	42	150
BT40-SLA14-150	14	44	150
BT40-SLA16-150	16	48	150
BT40-SLA18-150	18	50	150
BT40-SLA20-150	20	52	150
BT40-SLA25-150	25	65	150
BT40-SLA32-150	32	72	150
BT40-SLA40-150	40	80	150
BT50-SLA6-63	6	25	63
BT50-SLA8-63	8	28	63
BT50-SLA10-63	10	35	63
BT50-SLA12-80	12	42	80
BT50-SLA14-80	14	44	80
BT50-SLA16-80	16	48	80
BT50-SLA18-80	18	50	80
BT50-SLA20-80	20	52	80
BT50-SLA25-100	25	65	100
BT50-SLA32-100	32	72	100
BT50-SLA40-110	40	80	110
BT50-SLA6-150	6	25	150
BT50-SLA8-150	8	28	150
BT50-SLA10-150	10	35	150
BT50-SLA12-150	12	42	150
BT50-SLA14-150	14	44	150
BT50-SLA16-150	16	48	150
BT50-SLA18-150	18	50	150
BT50-SLA20-150	20	52	150
BT50-SLA25-150	25	65	150
BT50-SLA32-150	32	72	150
BT50-SLA40-150	40	80	150

◆◆ Morse Taper Adapter with Tang





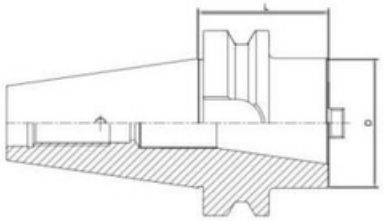
Model	MT.NO.	D	L
BT30-MTA1-45	1	25	45
BT30-MTA2-60	2	32	60
BT30-MTA3-75	3	40	75
BT40-MTA1-45	1	25	45
BT40-MTA2-60	2	32	60
BT40-MTA3-75	3	40	75
BT40-MTA4-90	4	48	90
BT50-MTA1-45	1	25	45
BT50-MTA2-60	2	32	60
BT50-MTA3-65	3	40	65
BT50-MTA4-95	4	48	95
BT50-MTA5-120	5	63	120

◆◆ Morse Taper Adapter with Drawbar

Model	MT.NO.	D	L
BT40-MTB1-45	1	25	45
BT40-MTB2-60	2	32	60
BT40-MTB3-75	3	40	75
BT40-MTB4-90	4	48	90
BT50-MTB1-45	1	25	45
BT50-MTB2-60	2	32	60
BT50-MTB3-65	3	40	65
BT50-MTB4-70	4	48	70
BT50-MTB5-120	5	63	120

◆◆ Tool Holder Adatper Sleeve

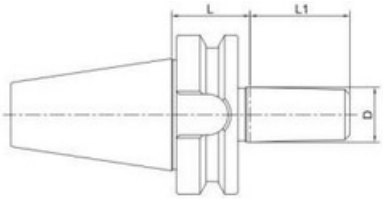




Model	D	L
BT40-BT30-60	63	60
BT40-BT40-100	63	100
BT50-BT40-70	70	70
BT50-BT50-150	97	150

◆◆ Drill Chuck Adapter

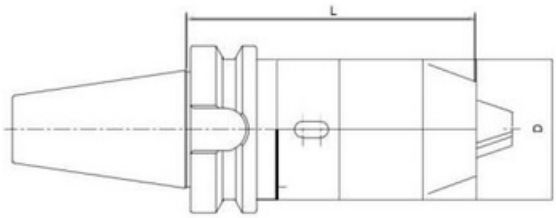




Model	D	L	L1
BT30-B12-25	B12	25	18.5
BT30-B16-25	B16	25	24
BT40-B12-32	B12	32	18.5
BT40-B16-32	B16	32	24
BT40-B18-32	B18	32	32
BT40-B22-32	B22	32	40.5
BT50-B16-45	B16	45	24
BT50-B18-45	B18	45	32
BT50-B22-45	B22	45	40.5

◆◆ APU Drill Chuck Holder

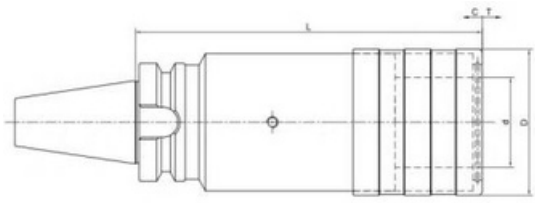




Model	D	L		Capacity
BT30-APU08-80	38	80	85	1-8
BT30-APU13-110	48	110	120	1-13
BT40-APU08-85	38	85	90	1-8
BT40-APU13-105	48	105	115	1-13
BT40-APU16-110	53	110	120.6	3-16
BT50-APU08-90	38	90	100	1-8
BT50-APU13-105	48	105	115	1-13
BT50-APU16-115	53	115	125.6	3-16

◆◆ Quick Change Tapping Chuck with Length Compensation

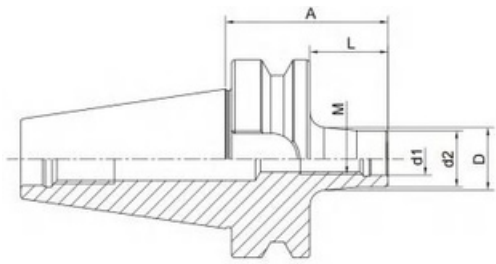




Model	ColletModel	d	D	L	T	C
BT30-TC312-70	1	19	38	70	7.5	7.5
BT30-TC820-95	2	31	54	95	12.5	12.5
BT40-TC312-65	1	19	38	65	7.5	7.5
BT40-TC820-93	2	31	53	93	12.5	12.5
BT40-TC1433-166	3	48	78	166	22	22
BT50-TC312-100	1	19	38	100	7.5	7.5
BT50-TC820-100	2	31	53	100	12.5	12.5
BT50-TC1433-142	3	48	78	142	22	22

◆◆ Screw-in Milling Cutter Holder

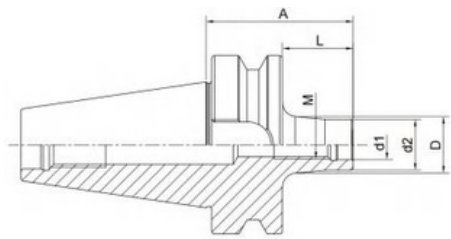




Model	M	d1	d2	A	L	D
BT40-BOM08-52 L=25	8	8.5	14.5	52	25	15
BT40-BOM08-77 L=50	8	8.5	14.5	77	50	23
BT40-BOM08-102 L=75	8	8.5	14.5	102	75	23
BT40-BOM08-127 L=100	8	8.5	14.5	127	100	25
BT40-BOM10-32 L=5	10	10.5	18	32	5	18
BT40-BOM10-52 L=25	10	10.5	18	52	25	20
BT40-BOM10-77 L=50	10	10.5	18	77	50	23
BT40-BOM10-102 L=75	10	10.5	18	102	75	28
BT40-BOM10-127 L=100	10	10.5	18	127	100	32
BT40-BOM10-177 L=150	10	10.5	18	177	150	36.5
BT40-BOM12-32 L=5	12	12.5	21	32	5	21
BT40-BOM12-52 L=25	12	12.5	21	52	25	24
BT40-BOM12-77 L=50	12	12.5	21	77	50	24
BT40-BOM12-102 L=75	12	12.5	21	102	75	31
BT40-BOM12-127 L=100	12	12.5	21	127	100	31
BT40-BOM12-152 L=125	12	12.5	21	152	125	36
BT40-BOM12-177 L=150	12	12.5	21	177	150	38
BT40-BOM16-32 L=5	16	17	29	32	5	29
BT40-BOM16-52 L=25	16	17	29	52	25	29
BT40-BOM16-77 L=50	16	17	29	77	50	34
BT40-BOM16-102 L=75	16	17	29	102	75	34
BT40-BOM16-127 L=100	16	17	29	127	100	36
BT40-BOM16-152 L=125	16	17	29	152	125	40
BT40-BOM16-177 L=150	16	17	29	177	150	42.5

◆◆ Screw-in Milling Cutter Holder

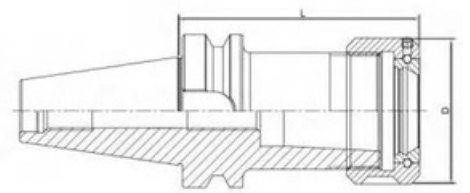




Model	M	d1	d2	A	L	D
BT50-BOM08-88 L=50	8	8.5	14.5	88	50	23
BT50-BOM08-138 L=100	8	8.5	14.5	138	100	25
BT50-BOM08-188 L=150	8	8.5	14.5	188	150	30
BT50-BOM10-88 L=50	10	10.5	18	88	50	23
BT50-BOM10-138 L=100	10	10.5	18	138	100	32
BT50-BOM10-188 L=150	10	10.5	18	188	150	36.5
BT50-BOM12-88 L=50	12	12.5	21	88	50	24
BT50-BOM12-138 L=100	12	12.5	21	138	100	33
BT50-BOM12-188 L=150	12	12.5	21	188	150	40
BT50-BOM16-88 L=50	16	17	29	88	50	34
BT50-BOM16-138 L=100	16	17	29	138	100	36
BT50-BOM16-188 L=150	16	17	29	188	150	42.5

◆◆ OZ Collet Chuck

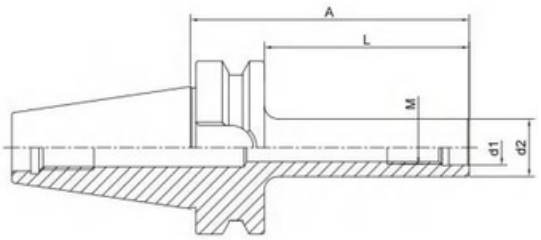




Model	D	L	ICapacity
BT30-OZ16-70	43	70	3-16
BT30-OZ25-80	60	80	3-25
BT40-OZ16-70	43	70	3-16
BT40-OZ25-70	60	70	3-25
BT40-OZ32-90	72	90	6-32
BT50-OZ25-85	60	85	3-25
BT50-OZ32-90	72	90	6-32

◆◆ Screw-in Milling Cutter Holder





Model	M	d1	d2	A	L
BT40-M10-102 L=75	10	10.5	18	102	75
BT40-M10-127 L=100	10	10.5	18	127	100
BT40-M10-177 L=150	10	10.5	18	177	150
BT40-M12-108 L=75	12	12.5	21	108	75
BT40-M12-127 L=100	12	12.5	21	127	100
BT40-M12-152 L=125	12	12.5	21	152	125
BT40-M12-177 L=150	12	12.5	21	177	150
BT40-M16-102 L=75	16	17	29	102	75
BT40-M16-127 L=100	16	17	29	127	100
BT40-M16-152 L=125	16	17	29	152	125
BT40-M16-177 L=150	16	17	29	177	150
BT50-M10-138 L=100	10	10.5	18	138	100
BT50-M10-188 L=150	10	10.5	18	188	150
BT50-M12-138 L=100	12	12.5	21	138	100
BT50-M12-188 L=150	12	12.5	21	188	150
BT50-M16-138 L=100	16	17	29	138	100
BT50-M16-188 L=150	16	17	29	188	150

◆◆ Test Arbor

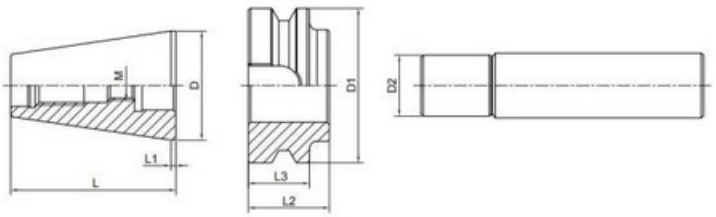




Model	D	L
BT30-32-250	32	250
BT40-40-300	40	300
BT50-50-300	50	300

◆◆ Alignment Tool for ATC Arm

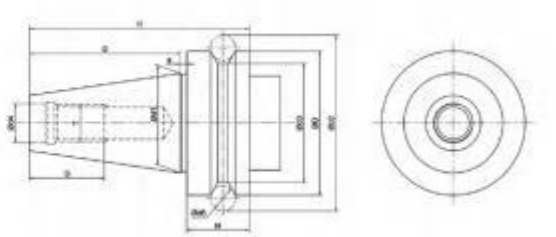




Model	D	D1	D2	L	L1	L2	M
BT30-ATC-18D	31.75	46	18	50.4	2	20	M12
BT40-ATC-20D	44.45	63	20	67.4	2	25	M12
BT50-ATC-28D	69.85	100	28	104.8	3	35	M16

◆◆ NBT Taper Standard





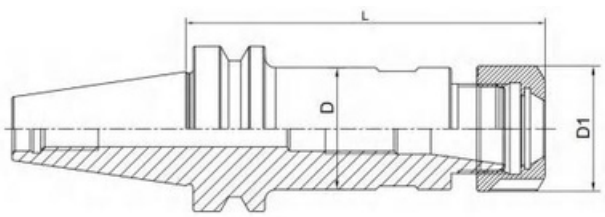
Model	D	d1	d2	d3	d4	d5	d6	l1	l2	l3	l4	a	T
NBT30	46	31.75	56.144	38	12.5	16.1	8	70.4	48.4	24	20	2	M12×1.75
NBT40	63	44.45	75.679	53	17	16.1	10	92.4	65.4	30	25	2	M16×2.0
NBT50	100	69.85	119.019	85	25	25.7	15	139.8	101.8	45	35	3	M24×3.0

Material: Alloyed case hardened steel
Surface Treatment : Blackening and Bright
Taper tolerance : <AT3
Hardness: HRC 58-62
Carbon depth : 0.8±0.2mm
Surface Roughness : Ra<0.005mm
Balancing : G2.5/25000
Cooling : AD

Materiał: stal stopowa nawęglana
Obróbka powierzchni: czernienie i polerowanie
Tolerancja stożka: <AT3
Twardość: HRC 58-62
Głębokość warstwy węglowej: 0,8 ± 0,2 mm
Chropowatość powierzchni: Ra < 0,005 mm
Wyważenie: G2.5/25000
Chłodzenie: AD

◆◆ ER Collet Chuck

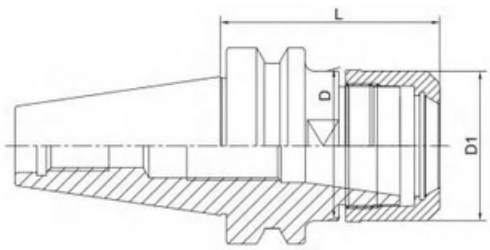




Model	D	D1	L	Capacity
NBT30-ER11-60	19	19	60	1-7
NBT30-ER16-60	28	28	60	1-10
NBT30-ER20-60	34	34	60	1-13
NBT30-ER25-60	42	42	60	2-16
NBT30-ER32-60	50	50	60	2-20
NBT30-ER16-100	28	28	100	1-10
NBT30-ER20-100	34	34	100	1-13
NBT30-ER25-100	42	42	100	2-16
NBT30-ER32-100	50	50	100	2-20
NBT40-ER16-70	28	28	70	1-10
NBT40-ER20-70	34	34	70	1-13
NBT40-ER25-70	42	42	70	2-16
NBT40-ER32-70	50	50	70	2-20

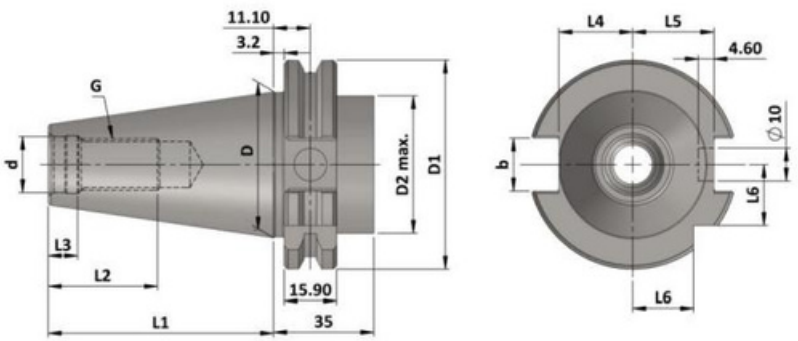
◆◆ ER Collet Chuck with GER Nut





Model	D	L	Capacity	M
NBT30-GER16-60	30	60	1-10	M22*1.5
NBT30-GER20-60	35	60	1-13	M26*1.5
NBT30-GER25-60	40	60	2-16	M32*1.5
NBT30-GER32-70	48	70	2-20	M40*1.5
NBT40-GER32-70	48	70	2-20	M40*1.5

◆◆ SK Taper Standard



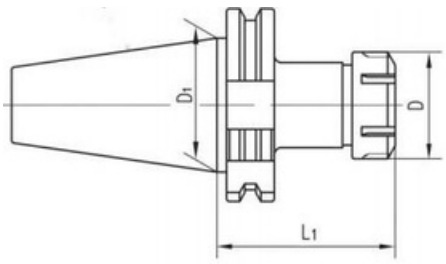
Model	d	d1	D	D1	D2	e	b	G	L1	L2	L3	L4	L5	L6
SK30	13	4	31.75	50.00	45	21	16.1	M12	47.8	24	5.5	16.3	19.0	15.00
SK40	17	4	44.45	63.55	50	27	16.1	M16	68.4	32	8.2	22.7	25.0	18.50
SK50	25	6	69.85	97.50	80	42	25.7	M24	101.8	47	11.5	35.5	37.7	30.00

Taper standard : DIN 69871
Material: Alloyed case hardened steel
SurfaceTreatment : Blackening and Bright Taper tolerance : <AT3
Hardness: HRC 58-62
Carbon depth : 0.8±0.2mm
Surface
Roughness : Ra<0.005mm
Balancing : G6.3/15000; G2.5/25000
Cooling : AD; AD/B
can be made by request

Standard stożka: DIN 69871
Materiał: stal stopowa nawęglana
Obróbka powierzchni: czernienie i polerowanie
Tolerancja stożka: <AT3
Twardość: HRC 58-62
Głębokość warstwy węglowej: 0,8 ± 0,2 mm
Chropowatość powierzchni: Ra < 0,005 mm
Wyważenie: G6.3/15000; G2.5/25000
Chłodzenie: AD; AD/B może być wykonane na życzenie

◆◆ ER Collet Chuck with UM Nut

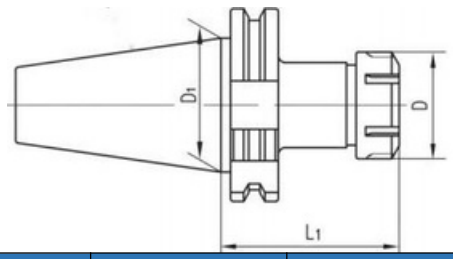




Model	D	D1	L	Capacity
SK30-ER16-70	32	32	70	1-10
SK30-ER20-70	35	35	70	1-13
SK30-ER25-70	42	42	70	2-16
SK30-ER32-70	50	50	70	2-20
SK30-ER40-70	63	63	70	3-26
SK30-ER16-100	32	32	100	1-10
SK30-ER20-100	35	35	100	1-13
SK30-ER25-100	42	42	100	2-16
SK30-ER32-100	50	50	100	2-20
SK40-ER16-70	32	32	70	1-10
SK40-ER20-70	35	35	70	1-13
SK40-ER25-70	42	42	60	2-16
SK40-ER32-70	50	50	70	2-20
SK40-ER40-80	63	63	80	3-26
SK40-ER16-100	32	32	100	1-10
SK40-ER20-100	35	35	100	1-13
SK40-ER25-100	42	42	100	2-16
SK40-ER32-100	50	50	100	2-20
SK40-ER40-100	63	63	100	3-26
SK40-ER16-160	32	32	160	1-10
SK40-ER20-160	32	35	160	1-13
SK40-ER25-160	42	42	160	2-16
SK40-ER32-160	50	50	160	2-20
SK40-ER40-160	63	63	160	3-26

◆◆ ER Collet Chuck with UM Nut

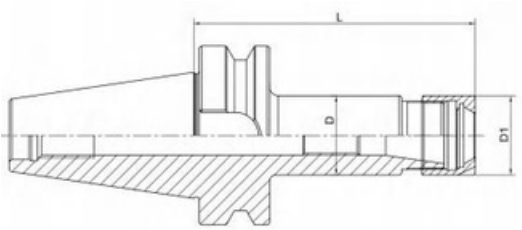




Model	D	D1	L	Capacity
SK50-ER16-70	32	32	70	1-10
SK50-ER20-70	35	35	70	1-13
SK50-ER25-60	42	42	60	2-16
SK50-ER32-70	50	50	70	2-20
SK50-ER40-70	63	63	70	
SK50-ER16-100	32	32	100	1-10
SK50-ER20-100	35	35	100	1-13
SK50-ER25-100	42	42	100	2-16
SK50-ER32-100	50	50	100	2-20
SK50-ER40-100	63	63	100	3-26
SK50-ER16-150	32	32	150	1-10
SK50-ER20-150	35	35	150	1-13
SK50-ER25-150	42	42	150	2-16
SK50-ER32-150	50	50	150	2-20
SK50-ER40-150	63	63	150	3-26

◆◆ ER Collet Chuck with Mini Nut



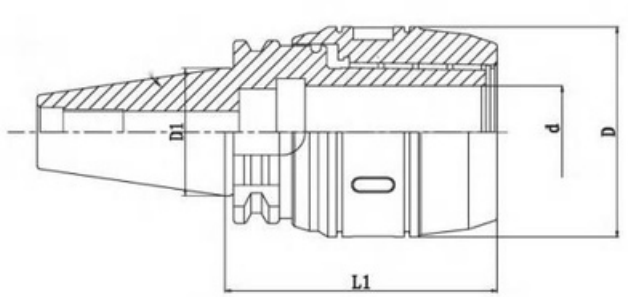


Model	D	D1	L	Capacity
SK40-ER11M -70	16	16	70	1-7
SK40-ER16M -70	22	22	70	1-10
SK40-ER20M -70	28	28	70	1-13
SK40-ER25M -70	35	35	70	2-16
SK40-ER11M-100	16	16	100	1-7
SK40-ER16M-100	22	22	100	1-10
SK40-ER20M-100	28	28	100	1-13
SK40-ER25M-100	35	35	100	2-16
SK40-ER11M-150	16	16	150	1-7
SK40-ER16M-150	22	22	150	1-10
SK40-ER20M-150	28	28	150	1-13
SK40-ER25M-150	35	35	150	2-16
SK50-ER16M -70	22	22	70	1-10
SK50-ER20M -70	28	28	70	1-13
SK50-ER25M -70	35	35	70	2-16
SK50-ER16M-100	22	22	100	1-10
SK50-ER20M-100	28	28	100	1-13
SK50-ER25M-100	35	35	100	2-16
SK50-ER16M-150	22	22	150	1-10
SK50-ER20M-150	28	28	150	1-13
SK50-ER25M-150	35	35	150	2-16

T refers to cutter side with taper design

◆◆ Power Milling Chuck

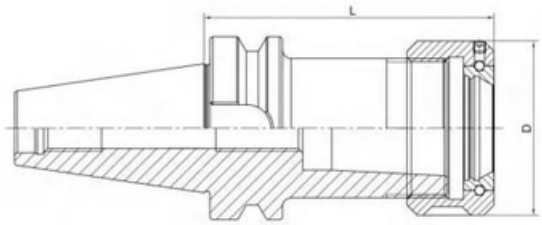




Model	d	D	L	Capacity
SK 30-MC20-80	20	55	80	3-16; 20
SK 30- MC25-80	25	58	80	3-16; 20
SK 40-MC20-90	20	55	90	3-16; 20
SK40-MC20-120	20	55	120	3-16; 20
SK40-MC25-90	25	58	90	3-20; 25
SK40-MC32-105	32	68	105	3-25; 32
SK40-MC32-135	32	68	135	3-25; 32
SK50-MC20-100	20	55	100	3-16; 20
SK50-MC20-150	20	55	150	3-16; 20
SK50-MC25-100	25	58	100	3-20; 25
SK50-MC32-110	32	68	110	3-25; 32
SK50-MC32-135	32	68	135	3-25; 32
SK50-MC32-165	32	68	165	3-25; 32
SK50-MC32-200	32	68	200	3-25; 32
SK50-MC42-120	42	88	120	3-32; 42
SK50-MC42-165	42	88	165	3-32; 42
SK50-MC42-200	42	88	200	3-32; 42

◆◆ OZ Collet Chuck

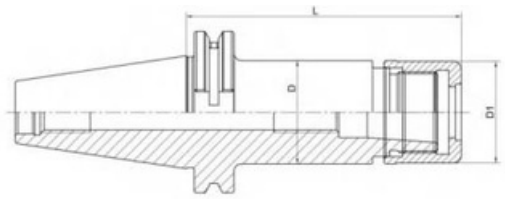




Model	D	L	Capacity
SK40-OZ16-70	43	70	2-16
SK40-OZ25-70	60	70	2-25
SK40-OZ32-90	72	90	4-32
SK40-OZ16-100	43	100	2-16
SK40-OZ25-100	60	100	2-25
SK50-OZ25-70	60	70	2-25
SK50-OZ32-80	72	80	4-32
SK50-OZ25-100	60	100	2-25

◆◆ High Speed SK Collet Chuck

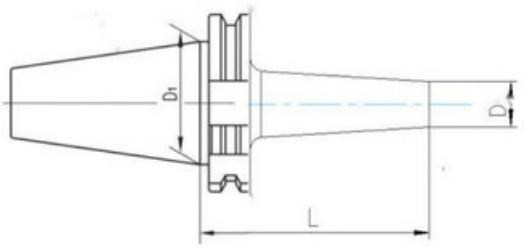




Model	D	D1	L	Capacity	M
SK40-SK10-60	27	27	60	2-10	M21.5*1
SK40-SK10-90	27	27	90	2-10	M21.5*1
SK40-SK10-120	27	27	120	2-10	M21.5*1
SK40-SK16-60	40	40	60	3-16	M32*1.5
SK40-SK16-90	40	40	90	3-16	M32*1.5
SK40-SK16-120	40	40	120	3-16	M32*1.5
SK50-SK10-100	27	27	100	2-10	M21.5*1
SK50-SK10-150	27	27	150	2-10	M21.5*1
SK50-SK10-200	27	27	200	2-10	M21.5*1
SK50-SK16-100	40	40	100	3-16	M32*1.5
SK50-SK16-150	40	40	150	3-16	M32*1.5
SK50-SK16-200	40	40	200	3-16	M32*1.5

◆◆ Precision Screw Collet Chuck

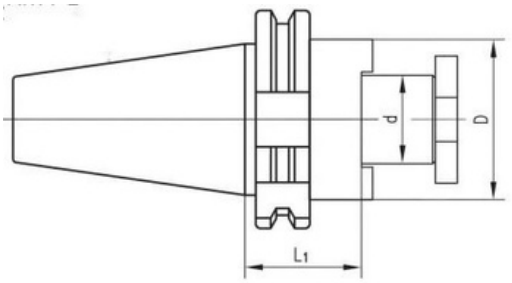




Model	D	L1	Capacity
SK 30-DC06-60	14	60	1-6
SK 30-DC06-90	14	90	1-6
SK30-DC06-120	14	120	1-6
SK 30-DC08-60	22	60	1-10
SK 30-DC08-90	22	90	1-10
SK30-DC08-120	22	120	1-10
SK 30-DC12-80	34	80	1-12
SK 40-DC06-60	14	60	1-6
SK 40-DC06-90	14	90	1-6
SK40-DC06-120	14	120	1-6
SK40-DC06-150	14	150	1-6
SK 40-DC08-60	22	60	1-10
SK 40-DC08-90	22	90	1-10
SK40-DC08-120	22	120	1-10
SK40-DC08-150	22	150	1-10
SK40-DC 08-20 0	22	200	1-10
SK40-DC 08-25 0	22	250	1-10
SK 40-DC12-90	34	90	1-12
SK40-DC12-120	34	120	1-12
SK40-DC12-150	34	150	1-12
SK40-DC 12-20 0	34	200	1-12
SK50-DC06-110	14	110	1-6
SK50-DC06-150	14	150	1-6
SK50-DC08-110	22	110	1-10
SK50-DC08-150	22	150	1-10
SK50-DC 08-20 0	22	200	1-10
SK50-DC12-120	34	120	1-12
SK50-DC12-150	34	150	1-12
SK50-DC 12-20 0	34	200	1-12

◆◆ Face Mill Holder

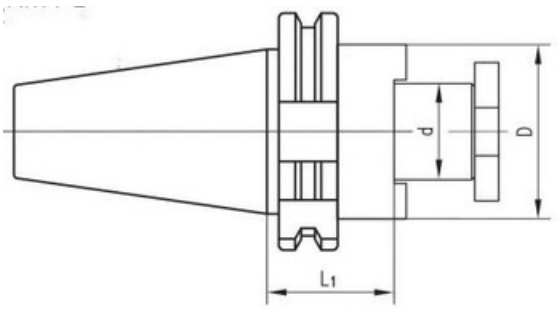




Model	d	D	L	H	M
SK30-FMB16-40	16	38	40	17	M8
SK30-FMB22-40	22	48	40	19	M10
SK 30-FMB2 7- 50	27	58	50	21	M12
SK 30-FMB3 2- 50	32	78	50	24	M16
SK40-FMB16-35	16	38	35	17	M8
SK40-FMB22-35	22	48	35	19	M10
SK40-FMB27-40	27	58	40	21	M12
SK 40-FMB3 2- 50	32	78	50	24	M16
SK 40-FMB4 0- 50	40	88	50	27	M20
SK 40-F MB16 -1 00	16	38	100	17	M8
SK 40-F MB22 -1 00	22	48	100	19	M10
SK 40-F MB27 -1 00	27	58	100	21	M12
SK 40-F MB32 -1 00	32	78	100	24	M16
SK 40-F MB40 -1 00	40	88	100	27	M20
SK 40-F MB16 -1 60	16	38	160	17	M8
SK 40-F MB22 -1 60	22	48	160	19	M10
SK 40-F MB27 -1 60	27	58	160	21	M12
SK 40-F MB32 -1 60	32	78	160	24	M16
SK 40-F MB40 -1 60	40	88	160	27	M20

◆◆ Face Mill Holder

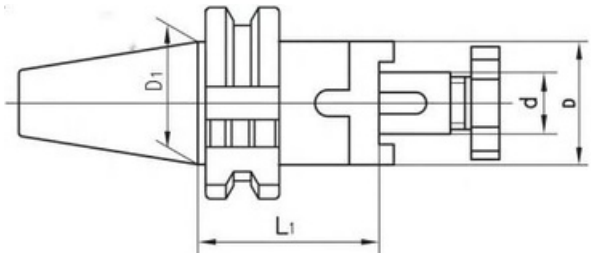




Model	d	D	L	H	M
SK50-FMB16-35	16	38	35	17	M8
SK50-FMB22-35	22	48	35	19	M10
SK50-FMB27-40	27	58	40	21	M12
SK50-FMB32-50	32	78	50	24	M16
SK50-FMB40-50	40	88	50	27	M20
SK50-FMB16-100	16	38	100	17	M8
SK50-FMB22-100	22	48	100	19	M10
SK50-FMB27-100	27	58	100	21	M12
SK50-FMB32-100	32	78	100	24	M16
SK50-FMB40-100	40	88	100	27	M20
SK50-FMB16-150	16	38	150	17	M8
SK50-FMB22-150	22	48	150	19	M10
SK50-FMB27-150	27	58	150	21	M12
SK50-FMB32-150	32	78	150	24	M16
SK50-FMB40-150	40	88	150	27	M20

◆◆ Combi Shell Mill Holder

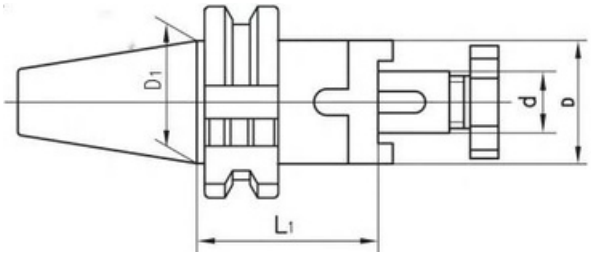




Model	d	D	l	L
SK30-SEMC16-50	16	32	16	50
SK30-SEMC22-50	22	40	18	50
SK30-SEMC27-55	27	48	20	55
SK30-SEMC32-60	32	58	22	60
SK40-SEMC16-55	16	32	16	55
SK40-SEMC22-55	22	40	18	55
SK40-SEMC27-55	27	48	20	55
SK40-SEMC32-60	32	58	22	60
SK40-SEMC40-60	40	70	25	60
SK40-SEMC16-100	16	32	16	100
SK40-SEMC22-100	22	40	18	100
SK40-SEMC27-100	27	48	20	100
SK40-SEMC32-100	32	58	22	100
SK40-SEMC40-100	40	70	25	100
SK40-SEMC16-160	16	32	16	160
SK40-SEMC22-160	22	40	18	160
SK40-SEMC27-160	27	48	20	160
SK40-SEMC32-160	32	58	22	160
SK40-SEMC40-160	40	70	25	160

◆◆ Combi Shell Mill Holder

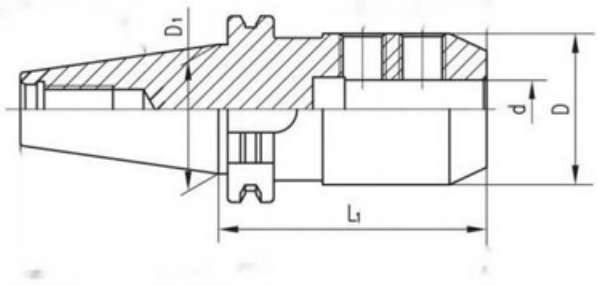




Model	d	D	l	L1
SK50-SEMC16-55	16	32	17	55
SK50-SEMC22-55	22	40	19	55
SK50-SEMC27-55	27	48	21	55
SK50-SEMC32-55	32	58	24	60
SK50-SEMC40-55	40	70	27	60
SK50-SEMC16-100	16	32	17	100
SK50-SEMC22-100	22	40	19	100
SK50-SEMC27-100	27	48	21	100
SK50-SEMC32-100	32	58	24	100
SK50-SEMC40-100	40	70	27	100
SK50-SEMC16-160	16	32	17	160
SK50-SEMC22-160	22	40	19	160
SK50-SEMC27-160	27	48	21	160
SK50-SEMC32-160	32	58	24	160
SK50-SEMC40-160	40	70	27	160

◆◆ End Mill Holder Weldon

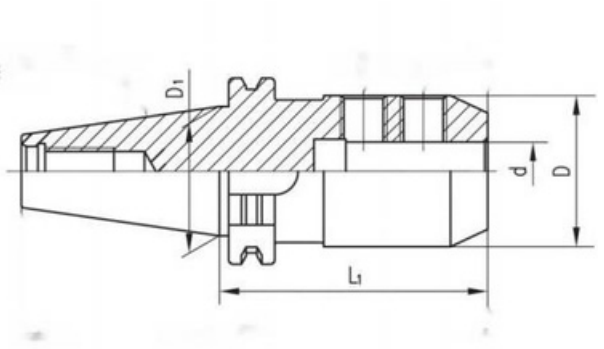




Model	d	D	L1
SK30-SLA6-50	6	25	50
SK30-SLA8-50	8	28	50
SK 30-SLA10-50	10	35	50
SK 30-SLA12-50	12	42	50
SK30-SLA14-63	14	44	63
SK30-SLA16-63	16	48	63
SK30-SLA18-63	18	50	63
SK30-SLA20-70	20	52	70
SK40-SLA6-50	6	25	50
SK40-SLA8-50	8	28	50
SK 40-SLA10-50	10	35	50
SK 40-SLA12-50	12	42	50
SK 40-SLA14-50	14	44	50
SK40-SLA16-63	16	48	63
SK40-SLA18-63	18	50	63
SK40-SLA20-63	20	52	63
SK40-SLA6-100	6	25	100
SK40-SLA8-100	8	28	100
SK40-SLA10-100	10	35	100
SK40-SLA12-100	12	42	100
SK40-SLA14-100	14	44	100
SK40-SLA16-100	16	48	100
SK40-SLA18-100	18	50	100
SK40-SLA20-100	20	52	100
SK40-SLA25-100	25	65	100
SK40-SLA32-100	32	72	100
SK40-SLA40-120	40	80	120

◆◆ End Mill Holder Weldon

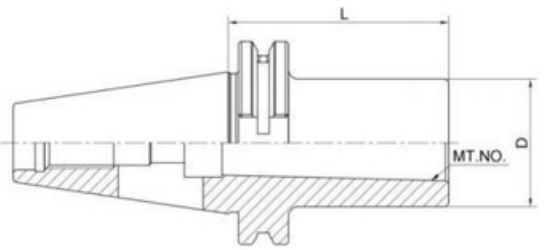




Model	d	D	L1
SK40-SLA6-150	6	25	150
SK40-SLA8-150	8	28	150
SK40-SLA10-150	10	35	150
SK40-SLA12-150	12	42	150
SK40-SLA14-150	14	44	150
SK40-SLA16-150	16	48	150
SK40-SLA18-150	18	50	150
SK40-SLA20-150	20	52	150
SK40-SLA25-150	25	65	150
SK40-SLA32-150	32	72	150
SK 40-SLA 40-160	40	80	150
SK50-SLA6-63	6	25	63
SK50-SLA8-63	8	28	63
SK50-SLA10-63	10	35	63
SK50-SLA12-63	12	42	63
SK50-SLA14-63	14	44	63
SK50-SLA16-63	16	48	63
SK50-SLA18-63	18	50	63
SK50-SLA20-63	20	52	63
SK50-SLA25-80	25	65	80
SK 50-SLA 32-100	32	72	100
SK 50-SLA 40-100	40	80	100
SK 50-SLA 50-125	50	100	125

◆◆ Morse Taper Adapter with Tang

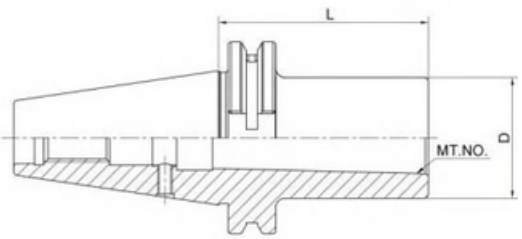




Model	MT.NO.	D	L
SK30-MTA1-50	1	25	50
SK30-MTA2-65	2	32	50
SK30-MTA3-80	3	40	75
SK40-MTA1-50	1	25	5
SK40-MTA2-50	2	32	0
SK40-MTA3-70	3	40	5
SK40-MTA4-95	4	48	0
			7
SK50-MTA1-45	1	25	45
SK50-MTA2-60	2	32	60
SK50-MTA3-65	3	40	65
SK50-MTA4-95	4	48	95
SK50-MTA5-105	5	63	105

◆◆ Morse Taper Adapter with Drawbar

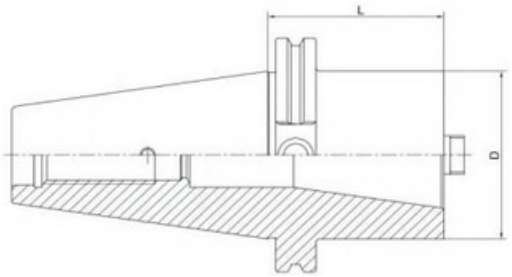




Model	MT.NO.	D	L	M
SK40-MTB1-50	1	25	50	M6
SK40-MTB2-60	2	32	60	M10
SK40-MTB4-90	4	48	90	M16
SK50-MTB1-45	1	25	45	M6
SK50-MTB2-60	2	32	60	M10
SK50-MTB3-65	3	40	65	M12
SK50-MTB4-70	4	48	70	M16
SK 50-MT B5-100	5	63	100	M20

◆◆ Tool Holder Adatper Sleeve

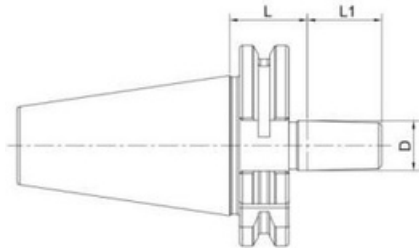




Model	L	D
SK40-SK30-50	50	51
SK40-SK40-100	100	63
SK50-SK40-70	70	63
SK50-SK50-120	120	97

◆◆ Drill Chuck Adapter

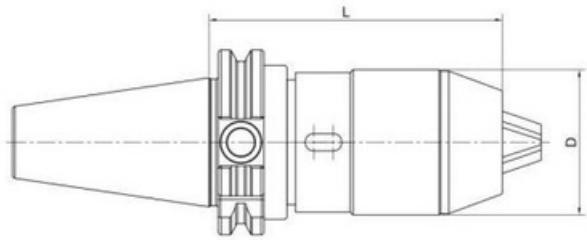




Model	D	l	L
SK30-B12	B12	18.5	25
SK30-B16	B16	24	25
SK40-B12	B12	18.5	25
SK40-B16	B16	24	25
SK40-B18	B18	32	25
SK50-B12	B12	18.5	25
SK50-B16	B16	24	25
SK50-B18	B18	32	25

◆◆ APU Drill Chuck Holder

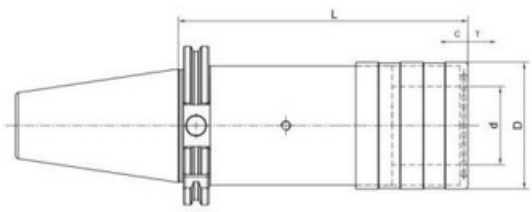




Model	D	L	l	Capacity
SK30-APU8-80	38	80	85	1-8
SK30-APU13-120	48	120	130	1-13
SK30-APU16-130	53	130	140.6	3-16
SK40-APU8-75	38	75	80	1-8
SK40-APU13-100	48	100	110	1-13
SK40-APU16-110	53	110	120.6	3-16
SK50-APU8-75	38	75	80	1-8
SK50-APU13-100	48	100	110	1-13
SK50-APU16-105	53	105	115.6	3-16

◆◆ Quick Change Tapping Chuck with Length Compensation

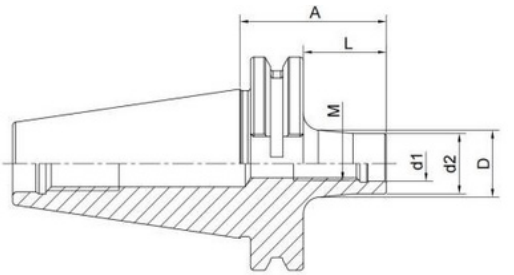




Model	D	d	L	T	C
SK30-TC312-65	36	19	65	7.5	7.5
SK30-TC820-88	54	31	88	12.5	12.5
SK40-TC312-59	36	19	59	7.5	7.5
SK40-TC820-97	54	31	97	12.5	12.5
SK40-TC1433-140	78	48	156	22	22
SK50-TC312-63	36	19	63	7.5	7.5
SK50-TC820-97	54	31	97	12.5	12.5
SK50-TC1433-140	78	48	140	22	22

◆◆ Screw-in Milling Cutter Holder

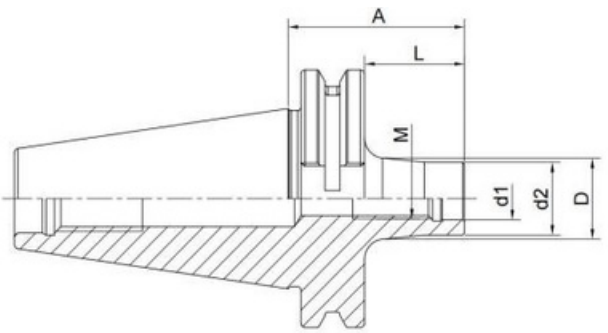




Model	M	d1	d2	A	L	D
SK40-BOM08-44 L=25	8	8.5	14.5	44	25	15
SK40-BOM08-69 L=50	8	8.5	14.5	69	50	23
SK40-BOM08-94 L=75	8	8.5	14.5	94	75	23
SK40-BOM08-119 L=100	8	8.5	14.5	119	100	25
SK40-BOM10-24 L=5	10	10.5	18	24	5	18
SK40-BOM10-44 L=25	10	10.5	18	44	25	20
SK40-BOM10-69 L=50	10	10.5	18	69	50	23
SK40-BOM10-94 L=75	10	10.5	18	94	75	28
SK40-BOM10-119 L=100	10	10.5	18	119	100	32
SK40-BOM10-169 L=150	10	10.5	18	169	150	36.5
SK40-BOM12-24 L=5	12	12.5	21	24	5	21
SK40-BOM12-44 L=25	12	12.5	21	44	25	24
SK40-BOM12-69 L=50	12	12.5	21	69	50	24
SK40-BOM12-94 L=75	12	12.5	21	94	75	31
SK40-BOM12-119 L=100	12	12.5	21	119	100	33
SK40-BOM12-144 L=125	12	12.5	21	144	125	36
SK40-BOM12-169 L=150	12	12.5	21	169	150	40
SK40-BOM16-24 L=5	16	17	29	24	5	29
SK40-BOM16-44 L=25	16	17	29	44	25	29
SK40-BOM16-69 L=50	16	17	29	69	50	34
SK40-BOM16-94 L=75	16	17	29	94	75	34
SK40-BOM16-119 L=100	16	17	29	119	100	36
SK40-BOM16-144 L=125	16	17	29	144	125	40
SK40-BOM16-169 L=150	16	17	29	169	150	42.5

◆◆ Screw-in Milling Cutter Holder

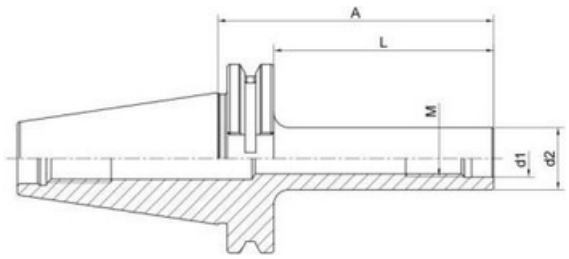




Model	M	d1	d2	A	L	D
SK50-BOM08-69 L=50	8	8.5	14.5	69	50	23
SK 50-BOM08-119 L=100	8	8.5	14.5	119	100	25
SK 50-BOM08-169 L=150	8	8.5	14.5	169	150	30
SK50-BOM10-69 L=50	10	10.5	18	69	50	23
SK 50-BOM10-119 L=100	10	10.5	18	119	100	32
SK 50-BOM10-169 L=150	10	10.5	18	169	150	36.5
SK50-BOM12-69 L=50	12	12.5	21	69	50	24
SK 50-BOM12-119 L=100	12	12.5	21	119	100	33
SK 50-BOM12-169 L=150	12	12.5	21	169	150	40
SK50-BOM16-69 L=50	16	17	29	69	50	34
SK 50-BOM16-119 L=100	16	17	29	119	100	36
SK 50-BOM16-169 L=150	16	17	29	169	150	42.5

◆◆ Screw-in Milling Cutter Holder





型号 Model	M	d1	d2	A	L
SK40-M10-119 L=100	10	10.5	18	119	100
SK 40-M 10-169 L=150	10	10.5	18	169	150
SK40-M12-119 L=100	12	12.5	21	119	100
SK 40-M 12-144 L=125	12	12.5	21	144	125
SK 40-M 12-169 L=150	12	12.5	21	169	150
SK40-M16-119 L=100	16	17	29	119	100
SK 40-M 16-144 L=125	16	17	29	144	125
SK 40-M 16-169 L=150	16	17	29	169	150
SK50-M10-119 L=100	10	10.5	18	119	100
SK 50-M 10-169 L=150	10	10.5	18	169	150
SK50-M12-119 L=100	12	12.5	21	119	100
SK 50-M 12-169 L=150	12	12.5	21	169	150
SK50-M16-119 L=100	16	17	29	119	100
SK 50-M 16-169 L=150	16	17	29	169	150

◆◆ Test Arbor

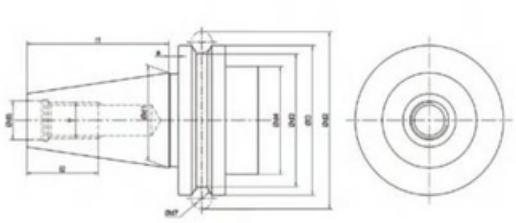




Model	D1	L
SK30-32-250	32	250
SK40-40-300	40	300
SK50-50-300	50	300

◆◆ ISO Taper Standard





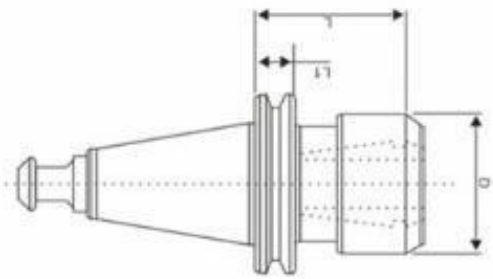
Model	D	d1	d2	d3	d4	d5	d7	l1	l2
ISO30	50	31.75	59.3	44.3	45	13	7	47.8	24
ISO40	63.55	44.45	72.3	56.25	50	17	7	68.4	32

rial: Alloyed case hardened steel Surface Treatment : Blackening and Bright
Taper tolerance : <AT3
Hardness: HRC 58-62
Carbon depth : 0.8±0.2mm
Surface Roughness : Ra<0.005mm
Balancing : G2.5/25000
Cooling : AD

Stal stopowa: stal hartowana stopowa
Obróbka powierzchni: czernienie, polerowanie
Tolerancja stożka: <AT3
Twardość: HRC 58-62
Głębokość warstwy węglowej: 0,8 ± 0,2 mm
Chropowatość powierzchni: Ra < 0,005 mm
Wyważenie: G2.5/25000
Chłodzenie: AD

◆◆ ER Collet Chuck without Drive Slots

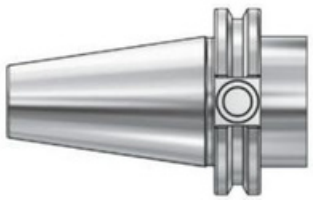


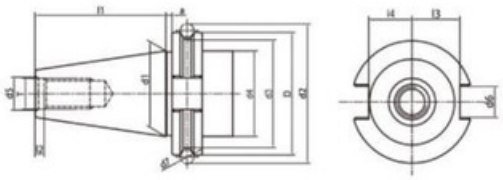


Model	D	L	Capacity	M
ISO10-ER11MS-25	19	25	1-7	M14*0.75
ISO20-ER16MS-35	28	35	1-10	M22*1.5
ISO20-ER20MS-35	34	35	1-13	M25*1.5
ISO25-ER16MS-35	28	35	1-10	M22*1.5
ISO25-ER20MS-35	34	35	1-13	M25*1.5
ISO30-ER16-50	28	50	1-10	M22*1.5
ISO30-ER20-50	34	50	1-13	M25*1.5

Model	D	L	Capacity	M
ISO25-ER25-35	42	35	2-16	M32*1.5
ISO30-ER25-50	42	50	2-16	M32*1.5
ISO30-ER32-50	50	50	2-20	M40*1.5
ISO30-ER40-60	63	60	3-26	M50*1.5

◆◆ CAT Taper Standard





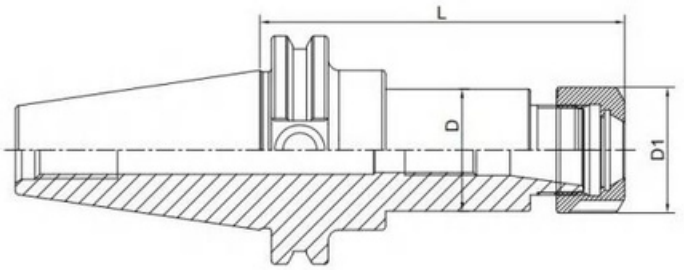
型 号 Model	D	d1	d2	d3	d4	d5	d6	d7	l1	l2	l3	l4	l5	T
CA T30	1.812	1.25	2.176	1.531	1.25	0.516	0.645	0.2813	1.875	0.188	0.735	0.64	0.44	1/2-13
CA T40	2.500	1.75	2.863	2.219	1.75	0.641	0.645	0.2813	2.687	0.188	0.985	0.89	0.44	5/8-11
CA T50	3.875	2.75	4.238	3.594	2.75	1.020	1.020	0.2813	4.000	0.250	1.485	1.39	0.44	1-8

Taper standard : ANSI B5.50
Material: Alloyedcasehardenedsteel
Surface Treatment : Blackening and Bright
Taper tolerance : <AT3
Hardness: HRC 58-62
Carbon depth : 0.8±0.2mm
Surface Roughness : Ra<0.005mm
Balancing : G6.3/15000; G2.5/25000
Cooling : AD; AD/B
can be made by request

Standard stożka: ANSI B5.50
Materiał: Stal stopowa hartowana powierzchniowo
Obróbka powierzchni: Czernienie i polerowanie
Tolerancja stożka: <AT3
Twardość: HRC 58-62
Głębokość nawęglenia: 0.8±0.2mm
Chropowatość powierzchni: Ra<0.005mm
Wyważenie: G6.3/15000; G2.5/25000
Chłodzenie: AD; AD/B
można wykonać na zamówienie

◆◆ ER Collet Chuck with UM Nut

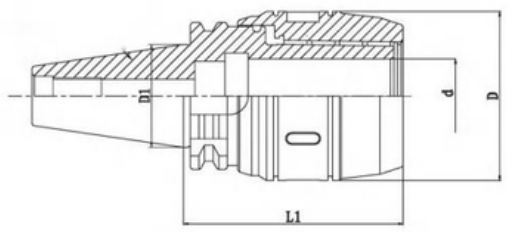




Model	D	D1	L	Capacity
CAT40-ER16-2.5"	28	32	2.5"	1-10
CAT40-ER20-2.5"	34	35	2.5"	1-13
CAT40-ER25-2.5"	42	42	2.5"	2-16
CAT40-ER32-3"	44.45	50	3"	2-20
CAT40-ER40-3"	50	63	3"	3-26
CAT40-ER16-4"	28	32	4"	1-10
CAT40-ER20-4"	34	35	4"	1-13
CAT40-ER25-4"	42	42	4"	2-16
CAT40-ER32-4"	44.45	50	5"	2-20
CAT40-ER40-4"	50	63	5"	3-26
CAT40-ER16-6"	28	32	6"	1-10
CAT40-ER20-6"	34	35	6"	1-13
CAT40-ER25-6"	42	42	6"	2-16
CAT50-ER20-2.5"	34	35	2.5"	1-13
CAT50-ER25-2.5"	42	42	2.5"	2-16
CAT50-ER16-4"	28	32	4"	1-10
CAT50-ER20-4"	34	35	4"	1-13
CAT50-ER25-4"	42	42	4"	2-16
CAT50-ER32-4"	50	50	4"	2-20
CAT50-ER40-4"	63	63	4"	3-26
CAT50-ER16-6"	28	32	6"	1-10
CAT50-ER20-6"	34	35	6"	1-13
CAT50-ER25-6"	42	42	6"	2-16
CAT50-ER32-6"	50	50	6"	2-20
CAT50-ER40-6"	63	63	6"	3-26
CAT50-ER25-8"	42	42	8"	2-16
CAT50-ER32-8"	50	50	8"	2-20
CAT50-ER40-8"	63	63	8"	3-26

◆◆ Power Milling Chuck

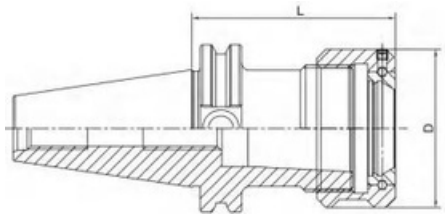




Model	d	D	L	Collet
CAT40-HC3/4"-4"	3/4"	50	4"	C3/4"
CAT40-HC1"-4"	1"	59	4"	C1"
CAT40-HC1-1/4"-4"	1.25"	68	4"	C1-1/4"
CAT50-HC3/4"-4'	3/4"	50	4"	C3/4"
CAT50-HC1"-4"	1"	59	4"	C1"
CAT50-HC1-1/4"-4"	1.25"	70	4"	C1-1/4"

◆◆ OZ Collet Chuck

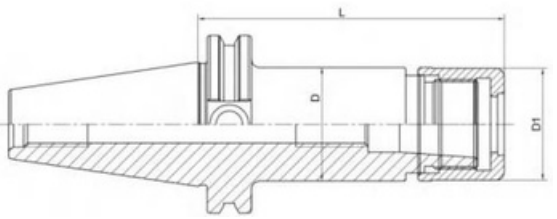




Model	D	L	L1	D	Capacity
CAT40-OZ25-2.25"	2.25"	2.25"	2.36"	2.36"	2–25
CAT40-OZ32-2.25"	2.25"	2.25"	2.83"	2.83"	3–32
CAT40-OZ25-4.00"	4.00"	4.00"	2.36"	2.36"	2–25
CAT40-OZ32-4.00"	4.00"	4.00"	2.83"	2.83"	3–32
CAT50-OZ25-2.25"	2.25"	2.25"	2.36"	2.36"	2–25
CAT50-OZ32-2.25"	2.25"	2.25"	2.83"	2.83"	3–32
CAT50-OZ25-4.00"	4.00"	4.00"	2.36"	2.36"	2–25
CAT50-OZ32-4.00"	4.00"	4.00"	2.83"	2.83"	3–32

◆◆ High Speed SK Collet Chuck

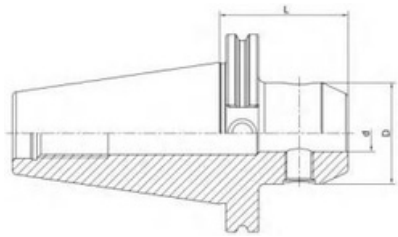




Model	D	D1	L	Capacity	M
CAT40-SK10-60	27.5	27.1	60	2-10	M21.5*1
CAT40-SK16-70	40.6	40	60	3-16	M 32*1.5
CAT40-SK10-90	27.5	27.1	90	2-10	M21.5*1
CAT40-SK16-90	40.6	40	90	3-16	M 32*1.5
CAT40-SK25-90	55.6	55	90	6-25	M 45*1.5
CAT40-SK10-120	27.5	27.1	120	2-10	M21.5*1
CAT40-SK16-120	40.6	40	120	3-16	M 32*1.5
CAT40-SK25-120	55.6	55	120	6-25	M 45*1.5
CAT50-SK10-105	27.5	27.1	105	2-10	M21.5*1
CAT50-SK16-105	40.6	40	105	3-16	M 32*1.5
CAT50-SK10-135	27.5	27.1	135	2-10	M21.5*1
CAT50-SK16-135	40.6	40	135	3-16	M 32*1.5
CAT50-SK25-135	55.6	55	135	6-25	M 45*1.5
CAT50-SK10-165	27.5	27.1	165	2-10	M21.5*1
CAT50-SK16-165	40.6	40	165	3-16	M 32*1.5
CAT50-SK25-165	55.6	55	165	6-25	M 45*1.5

◆◆ End Mill Holder Weldon

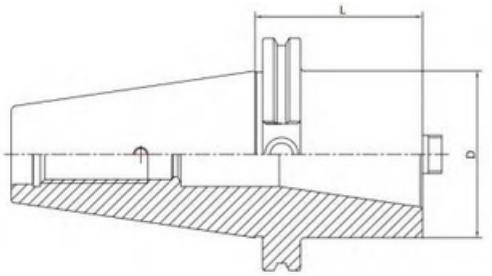




Model	d	D	L
CAT50-SLA1/4"-1.38"	1/4"	19.81	1.38"
CAT50-SLA3/8"-1.38"	3/8"	25.4	1.38"
CAT50-SLA7/16"-1.75"	7/16"	28.575	1.75"
CAT50-SLA1/2"-1.75"	1/2"	31.75	1.75"
CAT50-SLA5/8"-1.75"	5/8"	38.1	1.75"
CAT50-SLA3/4-1.75"	3/4"	44.45	1.75"
CAT50-SLA1"-2"	1"	50.8	2"
CAT50-SLA1-1/4"-2"	1-1/4"	63.5	2"
CAT50-SLA1-1/2"- 2.25"	1-1/2"	63.5	2.25"
CAT50-SLA5/16"-2.5"	5/16"	22.225	2.5"
CAT50-SLA7/16"-2.5"	7/16"	28.575	2.5"
CAT50-SLA1/2"-2"	1/2"	31.75	2"
CAT50-SLA5/8"-2"	5/8"	38.1	2"
CAT50-SLA3/4-2"	3/4"	44.45	2"
CAT50-SLA7/8"-3.75"	7/8"	47.625	3.75"
CAT50-SLA1-1/2"-4.5"	1-1/2"	63.5	4.5"
CAT50-SLA2"-5.37"	2"	95.25	5.37"
CAT50-SLA1/4"-4"	1/4"	19.81	4"
CAT50-SLA5/16"-4"	5/16"	22.225	4"
CAT50-SLA3/8"-4"	3/8"	25.4	4"
CAT50-SLA1/2"-4"	1/2"	31.75	4"
CAT50-SLA5/8"-4"	5/8"	38.1	4"
CAT50-SLA3/4"-4"	3/4"	44.45	4"
CAT50-SLA1"-4"	1"	50.8	4"
CAT50-SLA1-1/4"-4"	1-1/4"	63.5	4"
CAT50-SLA1/4"-6"	1/4"	19.81	6"
CAT50-SLA3/8"-6"	3/8"	25.4	6"
CAT50-SLA1/2"-6"	1/2"	31.75	6"
CAT50-SLA5/8"-6"	5/8"	38.1	6"
CAT50-SLA3/4"-6"	3/4"	44.45	6"
CAT50-SLA1"-6"	1"	50.8	6"
CAT50-SLA1-1/4"-6"	1-1/4"	63.5	6"

◆◆ Tool Holder Adatper Sleeve

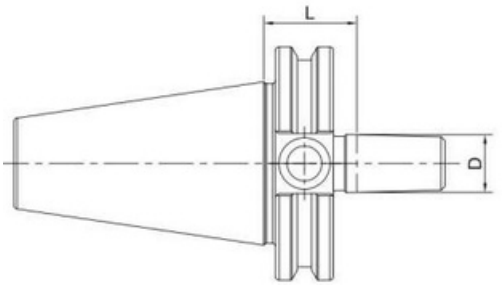




Model	L	D
CAT40-CAT30-50	50	51
CAT40-CAT40-100	100	63
CAT50-CAT40-70	70	63
CAT50-CAT50-120	120	97

◆◆ Drill Chuck Adapter

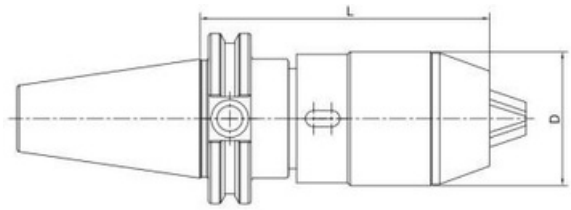




Model	D	L
CAT40-JT2-2"	14.188	2"
CAT40-JT3-2"	20.588	2"
CAT40-JT4-2"	28.55	2"
CAT40-JT6-2"	17.17	2"
CAT40-JT33-2"	15.85	2"
CAT50-JT2-2"	14.188	2"
CAT50-JT3-2"	20.588	2"
CAT50-JT4-2"	28.55	2"
CAT50-JT6-2"	17.17	2"
CAT50-JT33-2"	15.85	2"

◆◆ APU Drill Chuck Holder

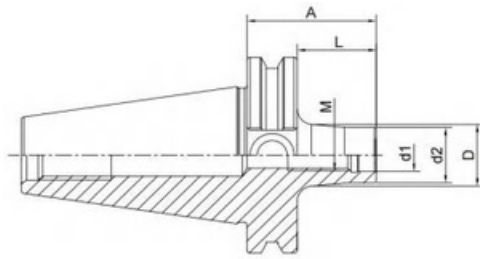




Model	D	L		Capacity
CAT30-APU08-85	38	85	90	1-8
CAT30-APU13-125	48	125	135	1-13
CAT30-APU16-135	53	135	145.6	3-16
CAT40-APU08-85	38	85	90	1-8
CAT40-APU13-100	48	100	110	1-13
CAT40-APU16-110	53	110	120.6	3-16
CAT50-APU8-75	38	75	80	1-8
CAT50-APU13-100	48	100	110	1-13
CAT50-APU16-110	53	110	120.6	3-16

◆◆ Screw-in Milling Cutter Holder

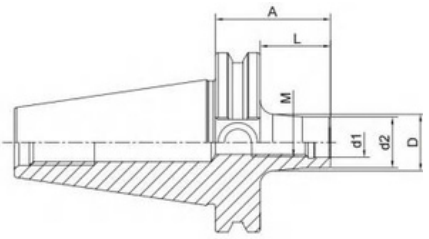




Model	M	d1	d2	A	L	D
CAT40-BOM08-44 L=25	8	8.5	14.5	44	25	15
CAT40-BOM08-69 L=50	8	8.5	14.5	69	50	23
CAT40-BOM08-94 L=75	8	8.5	14.5	94	75	23
CAT40-BOM08-119 L=100	8	8.5	14.5	119	100	25
CAT40-BOM10-24 L=5	10	10.5	18	24	5	18
CAT40-BOM10-44 L=25	10	10.5	18	44	25	20
CAT40-BOM10-69 L=50	10	10.5	18	69	50	23
CAT40-BOM10-94 L=75	10	10.5	18	94	75	28
CAT40-BOM10-119 L=100	10	10.5	18	119	100	32
CAT40-BOM10-169 L=150	10	10.5	18	169	150	36.5

◆◆ Screw-in Milling Cutter Holder

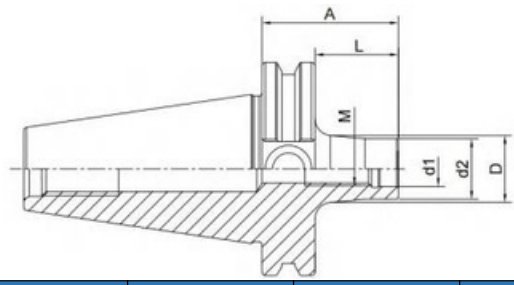




Model	M	d1	d2	A	L	D
CAT40-BOM12-24 L=5	12	12.5	21	24	5	21
CAT40-BOM12-44 L=25	12	12.5	21	44	25	24
CAT40-BOM12-69 L=50	12	12.5	21	69	50	24
CAT40-BOM12-94 L=75	12	12.5	21	94	75	31
CAT40-BOM12-119 L=100	12	12.5	21	119	100	33
CAT40-BOM12-144 L=125	12	12.5	21	144	125	36
CAT40-BOM12-169 L=150	12	12.5	21	169	150	40
CAT40-BOM16-24 L=5	16	17	29	24	5	29
CAT40-BOM16-44 L=25	16	17	29	44	25	29
CAT40-BOM16-69 L=50	16	17	29	69	50	34
CAT40-BOM16-94 L=75	16	17	29	94	75	34
CAT40-BOM16-119 L=100	16	17	29	119	100	36
CAT40-BOM16-144 L=125	16	17	29	144	125	40
CAT40-BOM16-169 L=150	16	17	29	169	150	42.5
CAT50-M08-69 L=50	8	8.5	14.5	69	50	23
CAT50-M08-119 L=100	8	8.5	14.5	119	100	25
CAT50-M08-169 L=150	8	8.5	14.5	169	150	30
CAT50-M10-69 L=50	10	10.5	18	69	50	23
CAT50-M10-119 L=100	10	10.5	18	119	100	32
CAT50-M10-169 L=150	10	10.5	18	169	150	36.5
CAT50-M12-69 L=50	12	12.5	21	69	50	24
CAT50-M12-119 L=100	12	12.5	21	119	100	33
CAT50-M12-169 L=150	12	12.5	21	169	150	40
CAT50-M16-69 L=50	16	17	29	69	50	34
CAT50-M16-119 L=100	16	17	29	119	100	36
CAT50-M16-169 L=150	16	17	29	169	150	42.5

◆◆ Screw-in Milling Cutter Holder

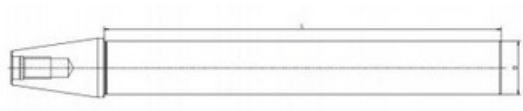




Model	M	d1	d2	A	L
CAT40-M10-119 L=100	10	10.5	18	119	100
CAT40-M10-169 L=150	10	10.5	18	169	150
CAT40-M12-119 L=100	12	12.5	21	119	100
CAT40-M12-144 L=125	12	12.5	21	144	125
CAT40-M12-169 L=150	12	12.5	21	169	150
CAT40-M16-119 L=100	16	17	29	119	100
CAT40-M16-144 L=125	16	17	29	144	125
CAT40-M16-169 L=150	16	17	29	169	150
CAT50-M10-119 L=100	10	10.5	18	119	100
CAT50-M10-169 L=150	10	10.5	18	169	150
CAT50-M12-119 L=100	12	12.5	21	119	100
CAT50-M12-169 L=150	12	12.5	21	169	150
CAT50-M16-119 L=100	16	17	29	119	100
CAT50-M16-169 L=150	16	17	29	169	150

◆◆ Test Arbor

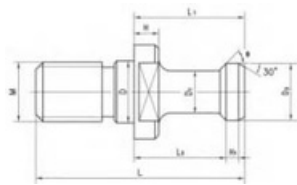




Model	D	L
CAT30-32-250	32	250
CAT40-40-300	40	300
CAT50-50-300	50	300

◆◆MAS403-1982 RETENTION KNOB

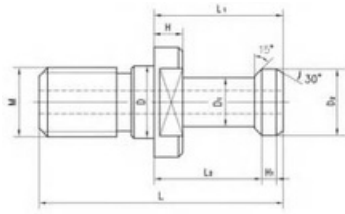




Model No.	D	D_1	D_2	M	L	L_1	L_2	H	H_1	θ
LDB-P30T(θ)	12.5	7	11	M12	43	23	18	5	2.5	45° 60° 90°
LDB-P40T(θ)	17	10	15	M16	60	35	28	6	3	45° 60° 90°
LDB-P45T(θ)	21	14	19	M20	70	40	31	8	4	45° 60° 90°
LDB-P50T(θ)	25	17	23	M24	85	45	35	10	5	45° 60° 90°

◆◆JIS B6339-1986 RETENTION KNOB

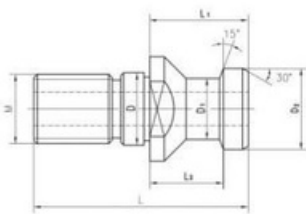




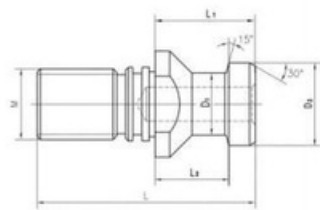
Model N o .	D	D_1	D_2	M	L	L_1	L_2	H	H_1
LDJ-30P	12.5	8	12	M12	43	23.4	18.4	5	3
LDJ-35P	12.5	11	15	M12	44	24	19	5	3
LDJ-40P	17	14	19	M16	54	29	23	7	3
LDJ-45P	21	17	23	M20	60	30	23	7	4
LDJ-50P	25	21	28	M24	74	34	25	7	5
LDJ-55P	31	27	36	M30	98	48	36	11	7

◆◆DIN69872-1988 RETENTION KNOB





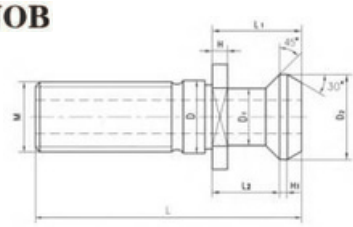
B



Model No.	D	D1	D2	M	L	L1	L2
LDD-30A(B)	13	9	13	M12	44	24	19
LDD-40A(B)	17	14	19	M16	54	26	20
LDD-45A(B)	21	17	23	M20	65	30	23
LDD-50A(B)	25	21	28	M24	74	34	25

◆◆ISO/DIS7388/2–1984B RETENTION KNOB

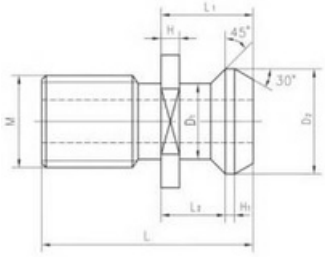




Model No.	D	D1	D2	M	L	L1	L2	H	H1
LDI-30B	13	9.3	13.3	M12	27	11.8	8.1	2.7	1.2
LDI-40B	17	12.95	18.95	M16	44.5	16.4	11.15	3.25	1.75
LDI-45B	21	16.3	24.05	M20	56	20.95	14.85	4.25	2.25
LDI-50B	25	19.6	29.1	M24	65.5	25.55	17.95	5.25	2.75

◆◆ANSI/ASME B5.50–1985 RETENTION KNOB

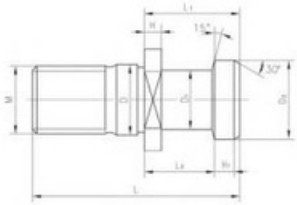




Model No.	D_1	D_2	M	L	L_1	L_2	H	H_1
LDA-30	9.78	13.21	1/2"-13	27.94	11.68	8.13	2.54	1.01
LDA-40	12.45	18.80	5/8"-11	38.10	16.26	11.18	3.05	1.52
LDA-45	15.37	23.88	3/4"-10	45.72	20.83	14.73	4.06	2.03
LDA-50	20.83	28.96	1"-8	58.42	25.4	17.78	5.08	2.54

◆◆DIN69872–1988 RETENTION KNOB

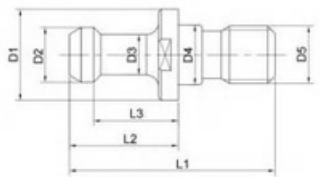




Model No.	D	D1	D2	M	L	L1	L2	H	H1
LDI-30A	13	8	12	M12	44	24	19	4	3
LDI-40A	17	14	19	M16	54	26	20	4	4
LDI-45A	21	17	23	M20	65	30	23	5	5
LDI-50A	25	21	28	M24	74	34	25	6	7

◆◆ISO Pull Stud

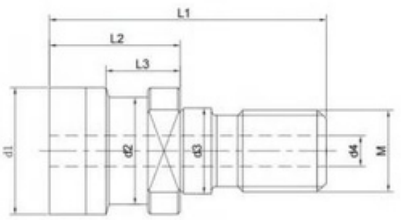




Model No.	L1	L2	L3	D1	D2	D3	D4	D5
ISO20	26	12	9	12	9	6	8.5	M8
ISO25	28	12	9	13	11	7	8.5	M8
ISO30	44	24	19	17	13	9	13	M12

◆◆OTT Pull Stud





Model No	M	d1	d2	d3	d4	l3	l2	l1
NT40	M16	25	21.1	17	7	13.6	25	53
NT50	M24	39.29	32	25	7	13.3	25.1	65



HSK
25/32/40/50/63/80/100

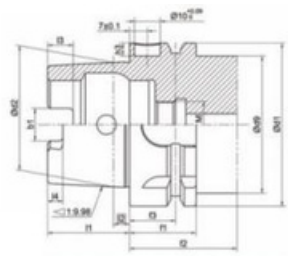
TOOL HOLDER SERIES

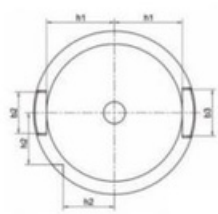


KORTOOLS

◆◆ HSK–A Taper Standard







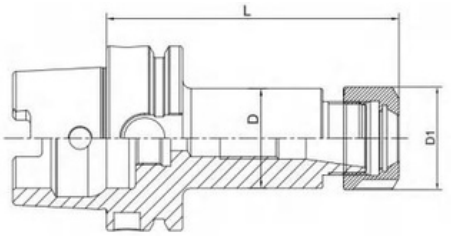
Model	d1	d2	d9	l1	l2	l3	l4	f1	f2	f3	h1	h2	h3	b1	b2	b3
HSK25A	25	19.006	20	13	2.5	4	2	10	20	4.5	10	7.5	.	6.05	6	7
HSK32A	32	24.007	26	16	3.2	5	3	20	35	16	13	9.5	5.4	7.05	7	9
HSK40A	40	30.007	34	20	4	6	3.5	20	35	16	17	12	5.2	8.05	9	11
HSK50A	50	38.009	42	25	5	7.5	4.5	26	42	18	21	15.5	5.1	10.54	12	14
HSK63A	63	48.010	53	32	6.3	10	6	26	42	18	26.5	20	5.0	12.54	16	18
HSK80A	80	60.012	68	40	8	12	8	26	42	18	34	25	4.9	16.04	18	20
HSK100A	100	75.013	88	50	10	15	10	29	45	20	44	31.5	4.9	20.02	20	22

Taper standard: DIN 69893; ISO 12164
Material: Alloyed case hardened steel Surface
Treatment: Blackening and Bright
Taper tolerance: <AT3
Hardness: HRC 58-62
Carbon depth: 0.8±0.2mm
Surface Roughness: Ra<0.005mm
Balancing: G6.3/15000; G2.5/25000

Stożek standardowy: DIN 69893; ISO 12164
Materiał: Stal stopowa nawęglana
Obróbka powierzchni: Czernienie i jasne wykończenie
Tolerancja stożka: <AT3
Twardość: HRC 58-62
Głębokość nawęglenia: 0,8±0,2mm
Chropowatość powierzchni: Ra<0,005mm
Wyważenie: G6.3/15000; G2.5/25000

◆◆ ER Collet Chuck with Mini Nut

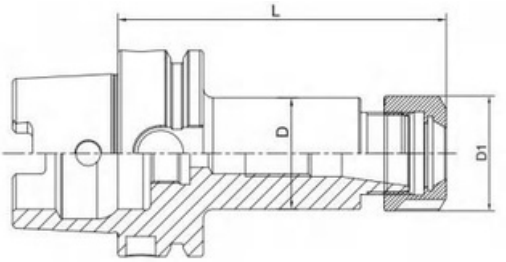




Model	D	D1	L1	Capacity
HSK32A-ER16-60	28	28	60	1-10
HSK32A-ER20-60	35	34	60	1-13
HSK32A-ER25-70	42	42	70	2-16
HSK32A-ER32-80	50	50	80	3-20
HSK40A-ER16-70	28	28	70	1-10
HSK40A-ER20-70	35	34	70	1-13
HSK40A-ER25-80	42	42	80	2-16
HSK40A-ER32-80	50	50	80	3-20
HSK50A-ER16-80	28	28	80	1-10
HSK50A-ER20-80	35	34	80	1-13
HSK50A-ER25-80	42	42	80	2-16
HSK50A-ER32-100	50	50	100	3-20
HSK63A-ER16-80	32	32	80	1-10
HSK63A-ER20-80	35	34	80	1-13
HSK63A-ER25-80	42	42	80	2-16
HSK63A-ER32-80	50	50	80	3-20
HSK63A-ER40-80	63	63	90	4-26
HSK63A-ER16-100	32	32	100	1-10
HSK63A-ER20-100	35	34	100	1-13
HSK63A-ER25-100	42	42	100	2-16
HSK63A-ER32-100	50	50	100	3-20
HSK63A-ER40-100	63	63	100	4-26
HSK63A-ER16-160	32	32	160	1-10
HSK63A-ER20-160	35	35	160	1-13
HSK63A-ER25-160	42	42	160	2-16
HSK63A-ER32-160	50	50	160	3-20
HSK63A-ER40-160	63	63	160	4-26
HSK63A-ER16-200	32	32	200	1-10
HSK63A-ER20-200	35	35	200	1-13
HSK63A-ER25-200	42	42	200	2-16
HSK63A-ER32-200	50	50	200	3-20
HSK63A-ER40-200	63	63	200	4-26

◆◆ ER Collet Chuck with Mini Nut

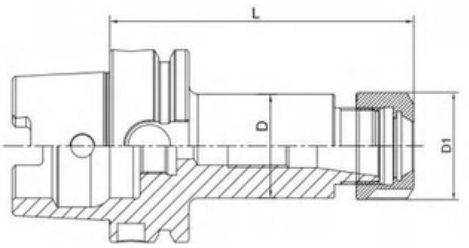




Model	D	D1	L1	Capacity
HSK100A-ER16-100	32	32	100	1-10
HSK100A-ER20-100	35	35	100	1-13
HSK100A-ER25-100	42	42	100	2-16
HSK100A-ER32-100	50	50	100	3-20
HSK100A-ER40-120	63	63	120	4-26
HSK100A-ER16-160	32	32	160	1-10
HSK100A-ER20-160	35	35	160	1-13
HSK100A-ER25-160	42	42	160	2-16
HSK100A-ER32-160	50	50	160	3-20
HSK100A-ER40-160	63	63	160	4-26
HSK100A-ER16-200	32	32	200	1-10
HSK100A-ER20-200	35	35	200	1-13
HSK100A-ER25-200	42	42	200	2-16
HSK100A-ER32-200	50	50	200	3-20
HSK100A-ER40-200	63	63	200	4-26

◆◆ ER Collet Chuck with Mini Nut

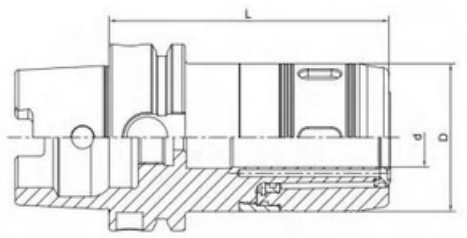




Model	D	D1	L1	Capacity
HSK32A-ER11M-60	16	16	60	1-7
HSK32A-ER16M-60	22	22	60	1-10
HSK32A-ER20M-60	28	28	60	1-13
HSK40A-ER11M-60	16	16	60	1-7
HSK40A-ER16M-60	22	22	60	1-10
HSK40A-ER20M-60	28	28	60	1-13
HSK50A-ER11M-70	16	16	70	1-7
HSK50A-ER16M-70	22	22	70	1-10
HSK50A-ER20M-70	28	28	70	1-13
HSK63A-ER11M-100	16	16	100	1-7
HSK63A-ER16M-100	22	22	100	1-10
HSK63A-ER20M-100	28	28	100	1-13
HSK63A-ER25M-100	35	35	100	2-16
HSK63A-ER11M-160	16	16	160	1-7
HSK63A-ER16M-160	22	28	160	1-10
HSK63A-ER20M-160	28	22	160	1-13
HSK63A-ER25M-160	35	35	160	2-16
HSK100A-ER16M-100	22	22	100	1-10
HSK100A-ER20M-100	28	28	100	1-13
HSK100A-ER25M-100	35	35	100	2-16
HSK100A-ER16M-160	22	22	160	1-10
HSK100A-ER20M-160	28	28	160	1-13
HSK100A-ER25M-160	35	35	160	2-16

◆◆ Power Milling Chuck

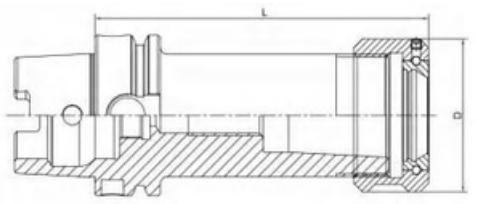




Model	d	D	L	Capity
HSK50A-MC20-100	20	55	100	3-16; 20
HSK50A-MC25-100	25	59	100	3-20; 25
HSK50A-MC32-110	32	68	110	3-25; 32
HSK63A-MC16-100	16	45	100	3-12; 16
HSK63A-MC20-100	20	55	100	3-16; 20
HSK63A-MC25-100	25	59	100	3-20; 25
HSK63A-MC32-120	32	68	120	3-25; 32
HSK63A-MC32-150	32	68	150	3-25; 32
HSK63A-MC32-200	32	68	200	3-25; 32
HSK100A-MC20-105	20	55	105	3-16; 20
HSK100A-MC25-105	25	59	105	3-20; 25
HSK100A-MC32-120	32	73	120	3-25; 32
HSK100A-MC42-120	42	88	120	3-32; 42
HSK100A-MC20-150	20	55	150	3-16; 20
HSK100A-MC25-150	25	59	150	3-20; 25
HSK100A-MC32-150	32	73	150	3-25; 32
HSK100A-MC42-150	42	88	15	3-32; 42
HSK100A-MC20-200	20	55	200	3-16; 20
HSK100A-MC25-200	25	59	200	3-20; 25
HSK100A-MC32-200	32	73	200	3-25; 32
HSK100A-MC42-200	42	88	200	3-32; 42

◆◆ OZ Collet Chuck

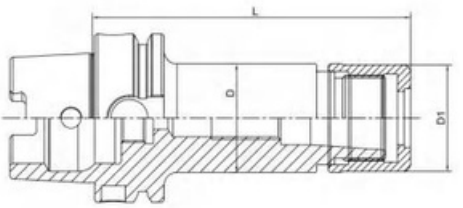




Model	D	L	Capacity
HSK50A-OZ16-90	43	90	2-16
HSK50A-OZ25-110	60	110	2-25
HSK63A-OZ16-100	43	100	2-16
HSK63A-OZ25-100	60	100	2-25
HSK63A-OZ32-120	72	120	3-32
HSK100A-OZ16-110	43	110	2-16
HSK100A-OZ25-120	60	120	2-25
HSK100A-OZ32-130	72	130	3-32

◆◆ High Speed SK Collet Chuck

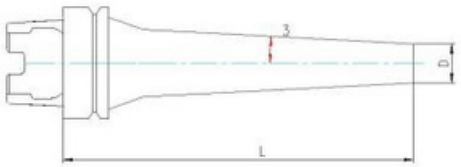




Model	D	D1	L	Capacity	M
HSK63A-SK10-90	27.5	27	90	2-10	M21.5*1
HSK63A-SK16-90	40.6	40	90	3-16	M 32*1.5
HSK63A-SK25-90	55.6	55	90	6-25	M 45*1.5
HSK100A-SK10-90	27.5	27	90	2-10	M21.5*1
HSK100A-SK16-90	40.6	40	90	3-16	M 32*1.5
HSK100A-SK16-90	55.6	55	90	6-25	M 45*1.5
HSK63A-SK10-150	27.5	27	150	2-10	M21.5*1
HSK63A-SK16-150	40.6	40	150	3-16	M 32*1.5
HSK63A-SK25-150	55.6	55	150	6-25	M 45*1.5
HSK100A-SK10-150	27.5	27.1	150	2-10	M21.5*1
HSK100A-SK16-150	40.6	40	150	3-16	M 32*1.5
HSK100A-SK25-150	55.6	55	150	6-25	M 45*1.5

◆◆ Precision Screw Collet Chuck

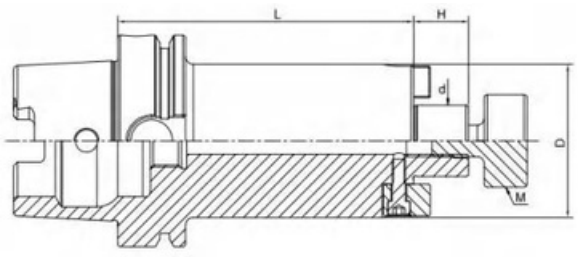




Model	D	L	Capacity
HSK63A-DC06-90	14	90	1-6
HSK63A-DC06-120	14	120	1-6
HSK63A-DC06-150	14	150	1-6
HSK63A-DC08-90	22	90	1-10
HSK63A-DC08-120	22	120	1-10
HSK63A-DC08-150	22	150	1-10
HSK63A-DC08-200	22	200	1-10
HSK63A-DC12-90	34	90	1-12
HSK63A-DC12-120	34	120	1-12
HSK63A-DC12-150	34	150	1-12
HSK63A-DC12-200	34	200	1-12
HSK100A-DC06-110	14	110	1-6
HSK100A-DC06-150	14	150	1-6
HSK100A-DC08-110	22	110	1-10
HSK100A-DC08-150	22	150	1-10
HSK100A-DC08-200	22	200	1-10
HSK100A-DC12-120	34	120	1-12
HSK100A-DC12-150	34	150	1-12
HSK100A-DC12-200	34	200	1-12

◆◆ Face Mill Holder

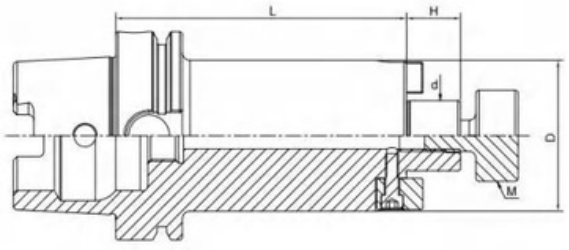




Model	d	D	H	L	M
HSK32A-FMB16-45	16	38	16	45	M8
HSK32A-FMB22-50	22	48	18	50	M10
HSK40A-FMB22-50	22	48	18	50	M10
HSK40A-FMB27-55	27	58	20	55	M12
HSK40A-FMB32-60	32	78	22	60	M16
HSK50A-FMB16-50	16	38	16	50	M8
HSK50A-FMB22-60	22	48	18	60	M10
HSK50A-FMB27-60	27	58	20	60	M12
HSK50A-FMB32-60	32	78	22	60	M16
HSK63A-FMB16-50	16	38	16	50	M8
HSK63A-FMB22-50	22	48	18	50	M10
HSK63A-FMB27-60	27	58	20	60	M12
HSK63A-FMB32-60	32	78	22	60	M16
HSK63A-FMB40-60	40	88	25	60	M20
HSK63A-FMB16-100	16	38	16	100	M8
HSK63A-FMB22-100	22	48	18	100	M10
HSK63A-FMB27-100	27	58	20	100	M12
HSK63A-FMB32-100	32	78	22	100	M16
HSK63A-FMB40-100	40	88	25	100	M20
HSK63A-FMB16-160	16	38	16	160	M8
HSK63A-FMB22-160	22	48	18	160	M10
HSK63A-FMB27-160	27	58	20	160	M12
HSK63A-FMB32-160	32	78	22	160	M16
HSK63A-FMB40-160	40	88	25	160	M20

◆◆ Face Mill Holder

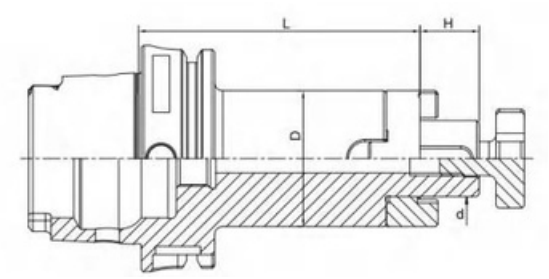




Model	d	D	H	L	M
HSK100A-FMB22-70	22	48	18	70	M10
HSK100A-FMB27-70	27	58	22	70	M12
HSK100A-FMB32-60	32	78	22	60	M16
HSK100A-FMB40-60	40	88	25	60	M20
HSK100A-FMB60-70	60	129	25	70	M30
HSK100A-FMB22-100	22	48	18	100	M10
HSK100A-FMB27-100	27	58	20	100	M12
HSK100A-FMB32-100	32	78	22	100	M16
HSK100A-FMB40-100	40	88	25	100	M20
HSK100A-FMB60-100	60	138	25	100	M30
HSK100A-FMB22-160	22	48	18	160	M10
HSK100A-FMB27-160	27	58	20	160	M12
HSK100A-FMB32-160	32	78	22	160	M16
HSK100A-FMB40-160	40	88	25	160	M20
HSK100A-FMB60-160	60	138	25	160	M30

◆◆ Combi Shell Mill Holder

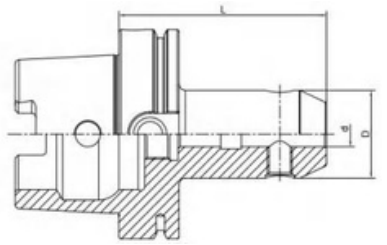




Model	d	D	L	L1
HSK32A-SEMC16-55	16	32	55	17
HSK32A-SEMC22-55	22	40	55	19
HSK32A-SEMC27-65	27	48	65	21
HSK32A-SEMC32-65	32	58	65	24
HSK40A-SEMC16-50	16	32	50	17
HSK40A-SEMC22-50	22	40	50	19
HSK40A-SEMC27-65	27	48	65	21
HSK40A-SEMC32-65	32	58	65	24
HSK50A-SEMC16-50	16	32	50	17
HSK50A-SEMC22-50	22	40	50	19
HSK50A-SEMC27-65	27	48	65	21
HSK50A-SEMC32-65	32	58	65	24
HSK63A-SEMC16-60	16	32	60	17
HSK63A-SEMC22-60	22	40	60	19
HSK63A-SEMC27-60	27	48	60	21
HSK63A-SEMC32-60	32	58	60	24
HSK63A-SEMC40-70	40	70	70	27
HSK63A-SEMC16-100	16	32	100	17
HSK63A-SEMC22-100	22	40	100	19
HSK63A-SEMC27-100	27	48	100	21
HSK63A-SEMC32-100	32	58	100	24
HSK100A-SEMC16-60	16	32	60	17
HSK100A-SEMC22-60	22	40	60	19
HSK100A-SEMC27-60	27	48	60	21
HSK100A-SEMC32-60	32	58	60	24
HSK100A-SEMC40-70	40	70	70	27

◆◆ End Mill Holder Weldon

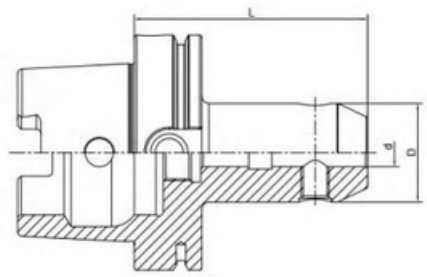




Model	d	D	L
HSK32A-SLA08-60	8	28	60
HSK32A-SLA10-65	10	35	65
HSL32A-SLA12-70	12	42	70
HSK32A-SLA14-75	14	44	75
HSK32A-SLA16-75	16	48	75
HSK32A-SLA20-90	20	52	90
HSK40A-SLA06-60	6	25	60
HSK40A-SLA08-60	8	28	60
HSK40A-SLA10-60	10	35	60
HSK40A-SLA12-70	12	42	70
HSK40A-SLA14-75	14	44	75
HSK40A-SLA16-75	16	48	75
HSK40A-SLA18-85	18	50	85
HSK40A-SLA20-85	20	52	85
HSK40A-SLA25-95	25	60	95
HSK40A-SLA32-105	32	60	105
HSK50A-SLA06-65	6	25	65
HSK50A-SLA08-65	8	28	65
HSK50A-SLA10-65	10	35	65
HSK50A-SLA12-80	12	42	80
HSK50A-SLA14-80	14	44	80
HSK50A-SLA16-80	16	48	80
HSK50A-SLA18-80	18	50	80
HSK50A-SLA20-80	20	52	80
HSK50A-SLA25-110	25	60	110
HSK50A-SLA32-110	32	60	110

◆◆ End Mill Holder Weldon

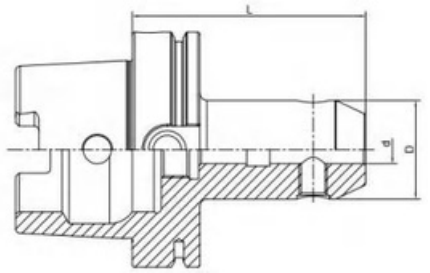




Model	d	D	L
HSK63A-SLA06-65	6	25	65
HSK63A-SLA08-65	8	28	65
HSK63A-SLA10-65	10	35	65
HSK63A-SLA12-80	12	42	80
HSK63A-SLA14-80	14	44	80
HSK63A-SLA16-80	16	48	80
HSK63A-SLA20-80	20	52	80
HSK63A-SLA25-110	25	65	110
HSK63A-SLA32-110	32	72	110
HSK 63A -SLA 40-125	40	80	125
HSK 63A -SLA 06-100	6	25	100
HSK 63A -SLA 08-100	8	28	100
HSK 63A -SLA 10-100	10	35	100
HSK 63A -SLA 14-100	14	44	100
HSK 63A -SLA 16-100	16	48	100
HSK 63A -SLA 18-100	18	50	100
HSK 63A -SLA 20-100	20	52	100
HSK 63A-SLA 06-150	6	25	150
HSK 63A-SLA 08-150	8	28	150
HSK 63A-SLA 10-150	10	35	150
HSK 63A-SLA 12-150	12	42	150
HSK 63A-SLA 14-150	14	44	150
HSK 63A-SLA 16-150	16	48	150
HSK 63A-SLA 18-150	18	50	150
HSK 63A-SLA 20-150	20	52	150
HSK 63A-SLA 25-150	25	72	150
HSK 63A-SLA 32-150	32	80	150

End Mill Holder Weldon

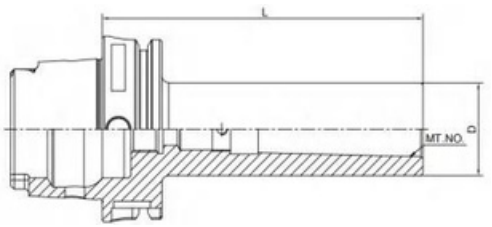




Model	d	D	L
HSK100A-SLA08-80	8	28	80
HSK100A-SLA10-80	10	35	80
HSK100A-SLA12-80	12	42	80
HSK100A-SLA14-80	14	44	80
HSK100A-SLA16-100	16	48	100
HSK100A-SLA18-100	18	50	100
HSK100A-SLA20-100	20	52	100
HSK100A-SLA25-100	25	65	100
HSK100A-SLA32-100	32	72	100
HSK100A-SLA40-120	40	80	120
HSK100A-SLA08-150	8	28	150
HSK100A-SLA10-150	10	35	150
HSK100A-SLA12-150	12	42	150
HSK100A-SLA14-150	14	44	150
HSK100A-SLA14-150	14	44	150
HSK100A-SLA16-150	16	48	150
HSK100A-SLA20-150	20	52	150
HSK100A-SLA25-150	25	65	150
HSK100A-SLA32-150	32	72	150
HSK100A-SLA40-150	40	80	150

◆◆ Morse Taper Adapter with Drawbar

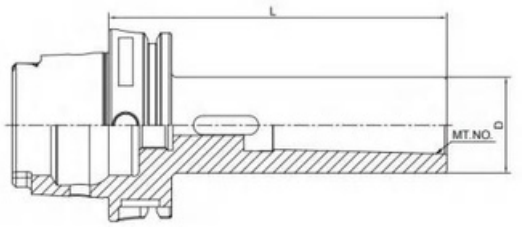




Model	MT.NO.	D	L
HSK50A-MTB1-100	1	25	100
HSK50A-MTB2-120	2	32	120
HSK50A-MTB3-140	3	40	140
HSK63A-MTB1-100	1	25	100
HSK63A-MTB2-120	2	32	120
HSK63A-MTB3-140	3	40	140
HSK63A-MTB4-160	4	48	160
HSK100A-MTB1-110	1	25	110
HSK100A-MTB2-120	2	32	120
HSK100A-MTB3-150	3	40	150
HSK100A-MTB4-170	4	48	170
HSK100A-MTB5-200	5	63	200

◆◆ Morse Taper Adapter with Tang

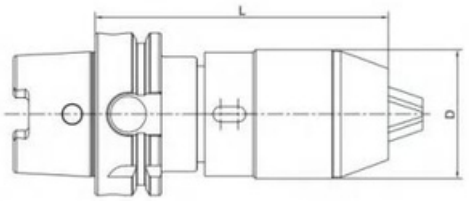




Model	MT.NO.	D	L
HSK50A-MTA1-100	1	25	100
HSK50A-MTA2-120	2	32	120
HSK50A-MTA3-140	3	40	140
HSK63A-MTA1-100	1	25	100
HSK63A-MTA2-120	2	32	120
HSK63A-MTA3-140	3	40	140
HSK63A-MTA4-160	4	48	160
HSK100A-MTA1-110	1	25	110
HSK100A-MTA2-120	2	32	120
HSK100A-MTA3-150	3	40	150
HSK100A-MTA4-170	4	48	170
HSK100A-MTA5-200	5	63	200

◆◆ APU Drill Chuck Holder

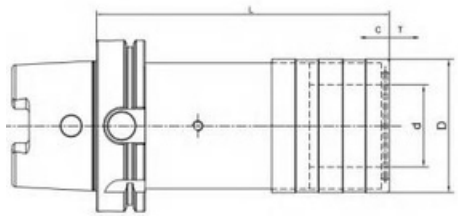




Model	D	L		Capacity
HSK50A-APU08-120	38	120	130	1-8
HSK50A-APU13-135	48	135	140	1-13
HSK50A-APU16-140	53	140	145	3-16
HSK63A-APU08-120	38	120	130	1-8
HSK63A-APU13-150	48	150	160	1-13
HSK63A-APU16-155	53	155	165	3-16
HSK100A-APU13-155	48	155	165	1-13
HSK100A-APU16-160	53	160	170	3-16

◆◆ Quick Change Tapping Chuck with Length Compensation

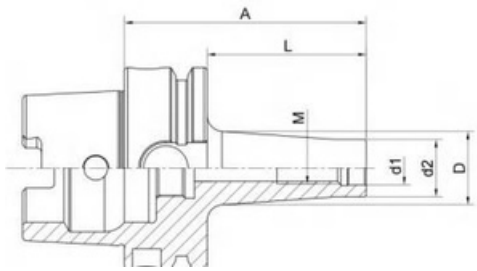




Model	d	D	L	T	C
HSK50A-TC312-72	19	36	72	7.5	7.5
HSK50A-TC820-110	31	53	110	12.5	12.5
HSK63A-TC312-102	19	36	102	7.5	7.5
HSK63A-TC820-140	31	53	140	12.5	12.5
HSK63A-TC1433-141	48	78	141	22	22
HSK100A-TC312-112	19	36	112	7.5	7.5
HSK100A-TC820-148	31	53	148	12.5	12.5
HSK100A-TC1433-144	48	78	144	22	22

◆◆ Screw-in Milling Cutter Holder

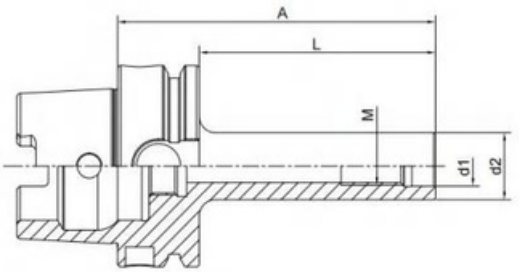




Model	M	d1	d2	A	L	D
HAK63A-BOM08-51 L=25	8	8.5	14.5	51	25	15
HSK63A-BOM08-76 L=50	8	8.5	14.5	76	50	23
HSK63A-BOM08-101 L=75	8	8.5	14.5	101	75	23
HSK63A-BOM10-51 L=25	10	10.5	18	51	25	20
HSK63A-BOM10-76 L=50	10	10.5	18	76	50	23
HSK63A-BOM10-126 L=100	10	10.5	18	126	100	32
HSK63A-BOM10-176 L=150	10	10.5	18	176	150	36.5
HSK63A-BOM12-51 L=25	12	12.5	21	51	25	24
HSK63A-BOM12-76 L=50	12	12.5	21	76	50	34
HSK63A-BOM12-101 L=75	12	12.5	21	101	75	31
HSK63A-BOM12-126 L=100	12	12.5	21	126	100	33
HSK63A-BOM12-176 L=150	12	12.5	21	176	150	40
HSK63A-BOM16-51 L=25	16	17	29	51	25	29
HSK63A-BOM16-76 L=50	16	17	29	76	50	34
HSK63A-BOM16-101 L=75	16	17	29	101	75	34
HSK63A-BOM16-126 L=100	16	17	29	126	100	36
HSK63A-BOM16-176 L=150	16	17	29	176	150	42.5
HSK100A-BOM08-79 L=50	8	8.5	14.5	79	50	23
HSK100A-BOM10-79 L=50	10	10.5	18	79	50	23
HSK100A-BOM10-129 L=100	10	10.5	18	129	100	32
HSK100A-BOM10-179 L=150	10	10.5	18	179	150	36.5
HSK100A-BOM12-79 L=50	12	12.5	21	79	50	24
HSK100A-BOM12-129 L=100	12	12.5	21	129	100	33
HSK100A-BBOM12-179 L=150	12	12.5	21	179	150	40
HSK100A-BOM16-79 L=50	16	17	29	79	50	34
HSK100A-BOM16-129 L=100	16	17	29	129	100	36
HSK100A-BOM16-179 L=150	16	17	29	179	150	42.5

◆◆ Screw-in Milling Cutter Holder





Model	M	d1	d2	A	L
HSK63A-M10-126 L=100	10	10.5	18	126	100
HSK63A-M10-176 L=150	10	10.5	18	176	150
HSK63A-M12-101 L=75	12	12.5	21	101	75
HSK63A-M12-126 L=100	12	12.5	21	126	100
HSK63A-M12-176 L=150	12	12.5	21	176	150
HSK63A-M16-101 L=75	16	17	29	101	75
HSK63A-M16-126 L=100	16	17	29	126	100
HSK63A-M16-176 L=150	16	17	29	176	150
HSK100A-M10-129 L=100	10	10.5	18	129	100
HSK100A-M10-179 L=150	10	10.5	18	179	150
HSK100A-M12-126 L=100	12	12.5	21	126	100
HSK100A-M12-179 L=150	12	12.5	21	179	150
HSK100A-M16-129 L=100	16	17	29	129	100
HSK100A-M16-179 L=150	16	17	29	179	150

◆◆ Test Arbor

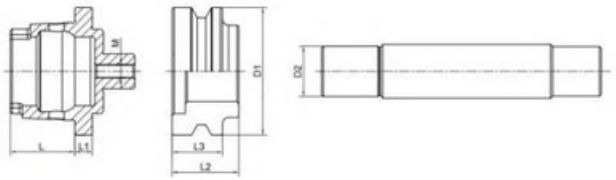




Model	D	L
HSK32A-25-180	25	180
HSK40A-25-180	25	180
HSK50A-32-200	32	200
HSK63A-40-300	40	300
HSK80A-50-300	50	300
HSK100A-50-300	50	300

◆◆ lignment Tool for ATC Arm

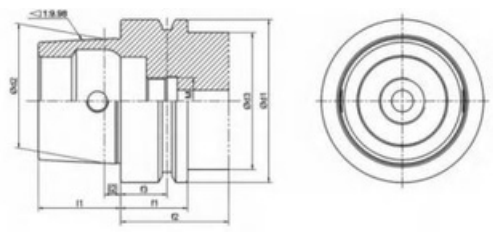




Model	D1	D2	L	L1	L2	L3	M
HSK50A-ATC-25D	50	25	25	8	22	18	M6
HSK63A-ATC-30D	63	30	32	8	30	18	M8
HSK80A-ATC-35D	80	35	40	8	36	18	M10
HSK100A-ATC-40D	100	40	50	10	45	19	M10

◆◆ HSK–E Taper Standard





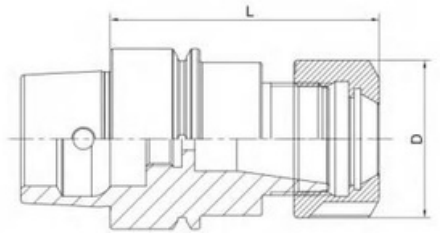
Model	d1	d2	d3	l1	l2	f1	f2	f3
HSK20E	20	15.203	16	10	2	8	16	3.5
HSK25E	25	19.006	20	13	2.5	10	20	4.5
HSK32E	32	24. 007	26	16	3.2	20	35	16
HSK40E	40	30.007	34	20	4	20	35	16
HSK50E	50	38.009	42	25	5	26	42	18
HSK63E	63	48. 010	53	32	6.3	26	42	18

Taper standard: DIN 69893; ISO 12164
Material: Alloyed case hardened steel Surface
Treatment: Blackening and Bright
Taper tolerance: <AT3
Hardness: HRC 58-62
Carbon depth: 0.8±0.2mm
Surface Roughness: Ra<0.005mm
Balancing: G6.3/15000; G2.5/25000

Stożek standardowy: DIN 69893; ISO 12164
Materiał: Stal stopowa nawęglana
Obróbka powierzchni: Czernienie i jasne wykończenie
Tolerancja stożka: <AT3
Twardość: HRC 58-62
Głębokość nawęglenia: 0,8±0,2 mm
Chropowatość powierzchni: Ra<0,005 mm
Wyważenie: G6.3/15000; G2.5/25000

◆◆ ER Collet Chuck

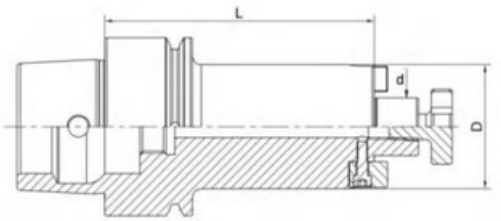




Model	D	L	Capacity
HSK25E-ER11-52	22	52	1-10
HSK25E-ER16-65	28	65	1-10
HSK25E-ER25-70	42	70	2-16
HSK32E-ER11M-60	16	60	1-7
HSK32E-ER16M-60	22	60	1-10
HSK32E-ER20M-60	28	60	1-13
HSK32E-ER16A-60	28	60	1-10
HSK32E-ER20A-60	34	60	1-13
HSK32E-ER25-80	42	85	2-16
HSK32E-ER32-80	50	80	2-20
HSK40E-ER16M-60	28	60	1-10
HSK40E-ER20M-60	34	60	1-13
HSK40E-ER25-75	42	75	2-16
HSK 40E-ER32-100	50	100	2-20
HSK50E-ER16-80	28	80	1-10
HSK50E-ER25-80	42	80	2-16
HSK50E-ER32-85	50	85	2-20
HSK 50E-ER40-100	63	100	3-26
HSK63E-ER16A-75	28	75	1-10
HSK63E-ER25-80	42	80	2-16
HSK63E-ER32-100	50	100	2-20
HSK 63E-ER40-100	63	100	3-26

◆◆ Face Mill Holder

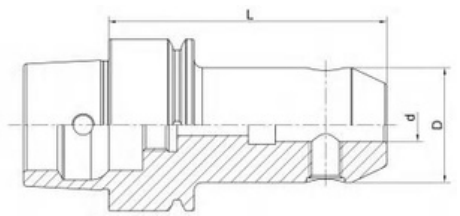




Model	d	D	L1
HSK32E-FMB16-50	16	38	50
HSK40E-FMB16-50	16	38	5
HSK40E-FMB22-50	22	48	0
HSK40E-FMB27-55	27	58	5
			0
HSK50E-FMB16-50	16	38	50
HSK50E-FMB22-60	22	48	60
HSK50E-FMB27-60	27	58	60
HSK50E-FMB32-60	32	78	60
HSK63E-FMB16-50	16	38	50
HSK63E-FMB22-60	22	48	60
HSK63E-FMB27-60	27	58	60
HSK63E-FMB32-60	32	78	60
HSK63E-FMB40-60	40	88	60

◆◆ End Mill Holder Weldon

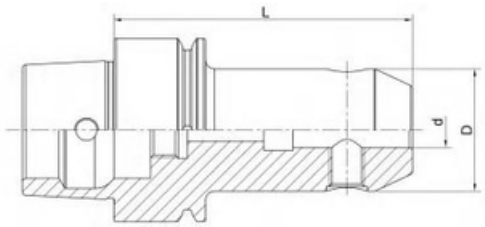




Model	d	D	L1
HSK32E-SLA06-60	6	25	60
HSK32E-SLA08-60	8	28	60
HSK32E-SLA10-65	10	35	65
HSK40E-SLA06-60	6	25	60
HSK40E-SLA08-60	8	28	60
HSK40E-SLA10-60	10	35	60
HSK40E-SLA12-70	12	42	70
HSK40E-SLA14-75	14	44	75
HSK40E-SLA16-75	16	48	75
HSK40E-SLA20-75	20	52	75
HSK50E-SLA06-65	6	25	65
HSK50E-SLA08-65	8	28	65
HSK50E-SLA10-65	10	35	65
HSK50E-SLA12-80	12	42	80
HSK50E-SLA14-80	14	44	80
HSK50E-SLA16-80	16	48	80
HSK50E-SLA18-80	18	50	80
HSK50E-SLA20-80	20	52	80
HSK50E-SLA20-100	20	52	100
HSK50E-SLA25-100	25	65	100

◆◆ End Mill Holder Weldon





Model	d	D	L1
HSK63E-SLA06-65	6	25	65
HSK63E-SLA08-65	8	28	65
HSK63E-SLA10-65	10	35	65
HSK63E-SLA12-80	12	42	80
HSK63E-SLA14-80	14	44	80
HSK63E-SLA16-80	16	48	80
HSK63E-SLA18-80	18	50	80
HSK63E-SLA20-80	20	52	80
HSK63E-SLA25-110	25	65	110
HSK63E-SLA32-110	32	72	110
HSK63E-SLA40-120	40	80	120

◆◆ Test Arbor

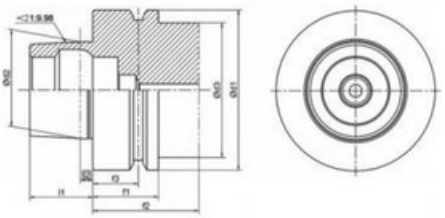




Model	D	L
HSK25E-20-150	20	150
HSK32E-25-180	25	180
HSK40E-25-180	25	180
HSK50E-32-200	32	200

◆◆ HSK–F Taper Standard





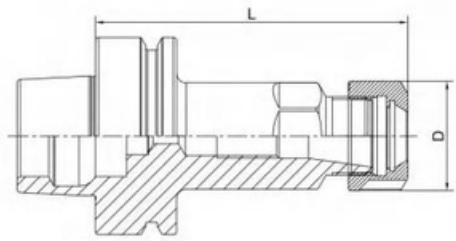
Model	d1	d2	d3	l1	l2	f1	f2	f3
HS K50F	50	30.007	42	20	4	26	42	18
HS K63F	63	38.009	53	25	5	26	42	18
HS K80F	80	48.010	68	32	6.3	26	42	18

Taper standard: DIN 69893; ISO 12164 Material: Alloyed case hardened steel Surface Treatment: Blackening and Bright Taper tolerance: <AT3 Hardness: HRC 58-62 Carbon depth: 0.8±0.2mm Surface Roughness: Ra<0.005mm Balancing: G6.3/15000; G2.5/25000

Standard stożka: DIN 69893; ISO 12164
Materiał: Stal stopowa nawęglana
Obróbka powierzchni: Czernienie i jasne wykończenie
Tolerancja stożka: <AT3
Twardość: HRC 58-62
Głębokość warstwy węglika: 0,8±0,2 mm
Chropowatość powierzchni: Ra<0,005 mm
Wyważenie: G6.3/15000; G2.5/25000

◆◆ ER Collet Chuck

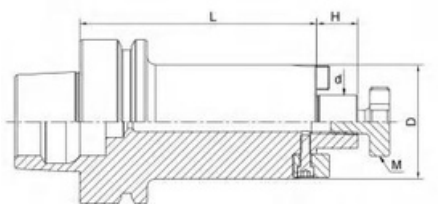




Model	D	L	Capacity
HSK40F-ER16A-60	28	60	1-10
HSK40F-ER25-60	42	60	2-16
HSK50F-ER25-70	42	70	2-16
HSK50F-ER32-80	50	80	2-20
HSK50F-ER40-80	63	80	3-26
HSK63F-ER16A-60	28	60	1-10
HSK63F-ER25-70	42	70	2-16
HSK63F-ER32-75	50	75	2-20
HSK63F-ER40-80	63	80	3-26
HSK63F-ER16A-100	28	100	1-10
HSK 63F-ER25-100	42	100	2-16
HSK 63F-ER32-100	50	100	2-20
HSK 63F-ER40-100	63	100	3-26

◆◆ Face Mill Holder

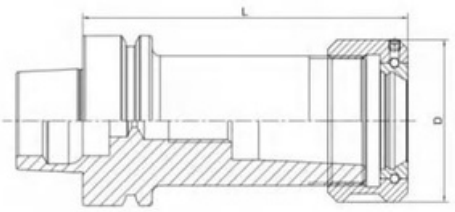




Model	d	D	L	H	M
HSK63F-FMB16-50	16	38	50	17	M8
HSK63F-FMB22-50	22	48	50	19	M10
HSK63F-FMB27-60	27	58	60	21	M12
HSK63F-FMB32-60	32	78	60	24	M16

◆◆ OZ Collet Chuck

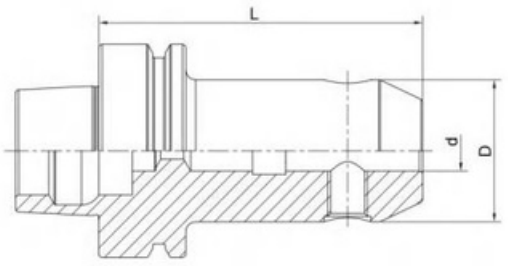




Model	D	L	Capacity
HSK63F-OZ16-90	43	70	2-16
HSK63F-OZ25-90	60	90	3-25

◆◆ End Mill Holder Weldon

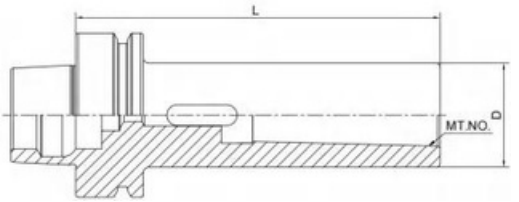




Model	d	D	L
HSK63F-SLA06-65	6	25	65
HSK63F-SLA08-65	8	28	65
HSK63F-SLA10-65	10	35	65
HSK63F-SLA12-80	12	42	80
HSK63F-SLA14-80	14	44	80
HSK63F-SLA16-80	16	48	80
HSK63F-SLA18-80	18	50	80
HSK63F-SLA20-80	20	52	80
HSK63F-SLA25-100	25	65	100
HSK63F-SLA32-100	32	72	100

◆◆ Morse Taper Adapter with Tang





Model	MT.NO.	D	L
HSK63F-MTA1-100	1	25	100
HSK63F-MTA2-120	2	32	120
HAK63F-MTA3-140	3	40	140
HAK63F-MTA4-160	4	48	160

◆◆ Test Arbor



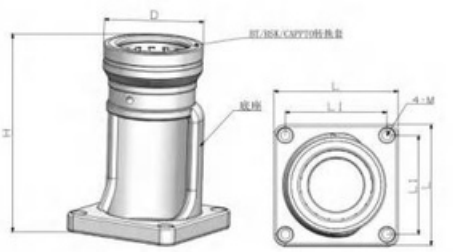


Model	D	L
HSK63F-40-300	40	300

◆◆Tool Holder Locking Device (New Type)

BT\HSK\CAPPTO

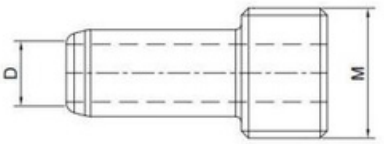




Mode	D	H	L	L1	M
HSK32, C3	76	165	110	90	M8
HSK40, C4	76	165	110	90	M8
BT30	76	165	110	90	M8
HSK50, SK30, C5	76	165	110	90	M8
HSK63, BT40, C6	87	172	110	90	M8
CA T40	87	172	110	90	M8
SK40	87	172	110	90	M8
HSK80, C8	114	215	160	130	M10
SK50	124	219	160	130	M10
CA T50	124	219	160	130	M10
HSK100 BT50	124	219	160	130	M10

◆◆ HSK Coolant Tube

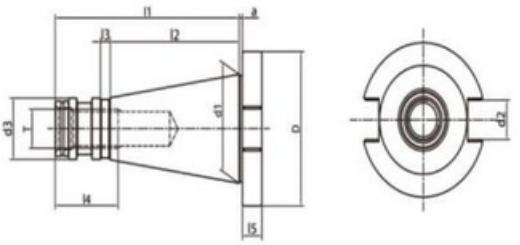




Mode	d	D	L
HSK32	6	M10×1	26.0
HSK40	8	M12×1	29.5
HSK50	10	M16×1	33.0
HSK63	12	M18×1	34.5
HSK80	14	M20×1.5	40.0
HSK100	16	M24×1.5	44.0

◆◆ NT Taper Standard





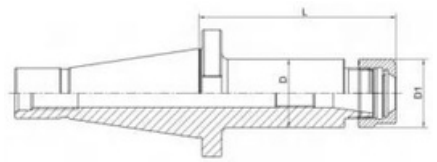
Model	D	d1	d2	d3	a	l1	l2	l3	l4	l5	T
NT30	50	31.75	16.1	17.04	1.6	68.4	48.4	3	24	8	M12
NT40	63	44.45	16.1	24.92	1.6	93.4	65.4	5	32	10	M16
NT50	97.5	69.85	25.7	39.19	3.2	126.8	101.8	8	47	12	M24

Taper standard: DIN 2080
Material: Alloyed case hardened steel Surface
Treatment: Blackening and Bright Taper tolerance: <AT3
Hardness: HRC 58-62
Carbon depth: 0.8±0.2mm
Surface Roughness: Ra<0.005mm

Standard stożka: DIN 2080
Materiał: Stal stopowa nawęglana
Obróbka powierzchni: Czernienie i jasne wykończenie
Tolerancja stożka: <AT3
Twardość: HRC 58-62
Głębokość nawęglenia: 0,8±0,2 mm
Chropowatość powierzchni: Ra<0,005 mm

◆◆ ER Collet Chuck

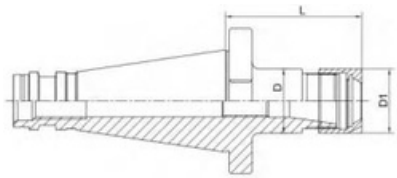




Model	D	D1	L	Capacity
NT30-ER16A-50	28	28	50	1-10
NT30-ER20A-50	34	34	50	1-13
NT30-ER25-50	42	42	50	2-16
NT30-ER32-50	40	50	50	2-20
NT30-ER40-80	50	63	80	4-26
NT40-ER16A-50	28	28	50	1-10
NT40-ER25-50	42	42	50	1-13
NT40-ER32-60	50	50	60	3-20
NT40-ER40-80	50	63	80	4-26
NT40-ER16A-100	28	28	100	1-10
NT40-ER20A-100	34	34	100	1-13
NT40-ER25-100	42	42	100	2-16
NT40-ER32-100	50	50	100	3-20
NT50-ER32-70	50	50	70	1-20
NT50-ER40-70	63	63	70	2-26
NT50-ER50-90	70	78	90	6-34
NT50-ER16A-100	28	28	100	1-10
NT50-ER20A-100	34	34	100	1-13
NT50-ER32-100	50	50	100	3-20
NT50-ER40-100	63	63	100	4-26

◆◆ ER Collet Chuck with Mini Nut

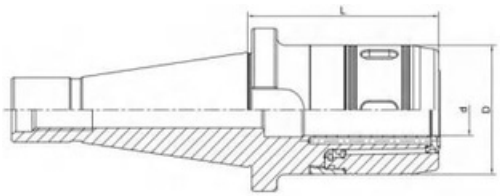




Model	D	D1	L	Capacity
NT30-ER16M-70	22	22	70	1-10
NT30-ER20M-70	28	28	70	1-13
NT30-ER25M-70	35	35	70	2-16
NT40-ER16M-60	22	22	60	1-10
NT40-ER20M-60	28	28	60	1-13
NT40-ER25M-60	35	35	60	2-16

◆◆ Power Milling Chuck

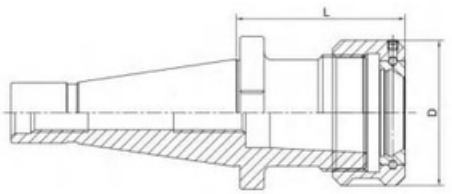




Model	d	D	L	Capacity	M
NT40-MC25-90	25	59	90	3-20; 25	M16
NT40-MC32-90	32	70	90	3-25; 32	M16
NT40-MC32-105	32	70	105	3-25; 32	M16
NT50-MC25-85	25	59	85	3-20; 25	M24
NT50-MC32-90	32	70	90	3-25; 32	M24
NT50-MC42-95	42	88	95	3-32; 42	M24
NT50-MC25-150	25	59	150	3-20; 25	M24
NT50-MC32-150	32	70	150	3-25; 32	M24
NT50-HC42-150	42	88	150	3-32; 42	M24

◆◆ OZ Collet Chuck

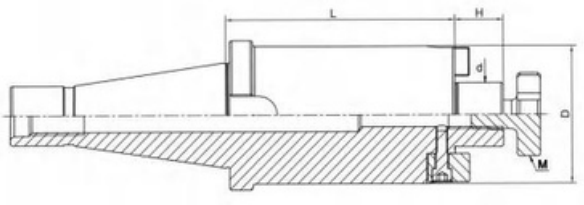




Model	d	D	L	H	M
NT30-FMB16-30	16	38	30	16	M8
NT30-FMB22-30	22	48	30	18	M10
NT30-FMB27-45	27	58	45	20	M12
NT30-FMB32-50	32	78	50	22	M16
NT40-FMB16-30	16	38	30	16	M8
NT40-FMB22-30	22	48	30	18	M10
NT40-FMB27-30	27	58	30	20	M12
NT40-FMB32-30	32	78	30	22	M16
NT40-FMB40-30	40	88	30	25	M16
NT50-FMB16-30	16	38	30	16	M8
NT50-FMB22-35	22	48	35	18	M10
NT50-FMB27-35	27	58	35	20	M12
NT50-FMB32-40	32	78	40	22	M16
NT50-FMB40-40	40	88	40	25	M16

◆◆ Face Mill Holder

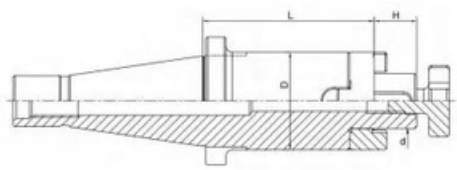




Model	D	L	Capacity
NT30-OZ16-50	43	50	2-16
NT30-OZ25-70	60	70	3-25
NT40-OZ16-70	43	70	2-16
NT40-OZ2570	60	70	3-25
NT40-OZ32-80	72	80	6-32
NT50-OZ25-70	60	70	3-25
NT50-OZ32-80	72	80	6-32

◆◆ Combi Shell Mill Holder

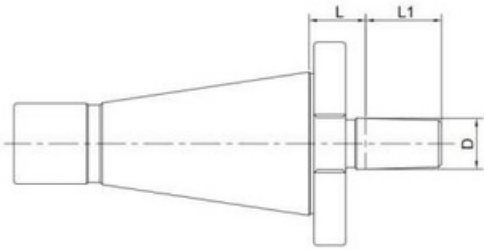




Model	d	D	L	L1
NT30-SEMC16-35	16	32	35	17
NT30-SEMC22-35	22	40	35	19
NT30-SEMC27-35	27	48	35	21
NT30-SEMC32-50	32	58	50	24
NT40-SEMC16-52	16	32	52	17
NT40-SEMC22-52	22	40	52	19
NT40-SEMC27-52	27	48	52	21
NT40-SEMC32-52	32	58	52	24
NT40-SEMC40-52	40	70	52	27
NT50-SEMC16-55	16	32	55	17
NT50-SEMC22-55	22	40	55	19
NT50-SEMC27-55	27	48	55	21
NT50-SEMC32-55	32	58	55	24
NT50-SEMC40-55	40	70	55	27

◆◆ Drill Chuck Adapter

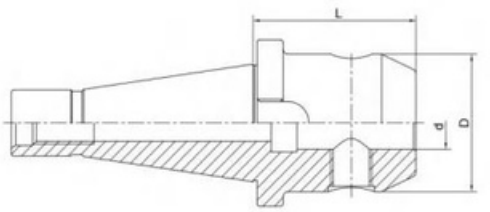




Model	D	L	L1
NT30-B12	B12	15	18.5
NT30-B16	B16	17	24
NT40-B12	B12	18	18.5
NT40-B16	B16	18	24
NT40-B18	B18	18	32
NT50-B16	B16	20	24
NT50-B18	B18	20	32

◆◆ End Mill Holder Weldon

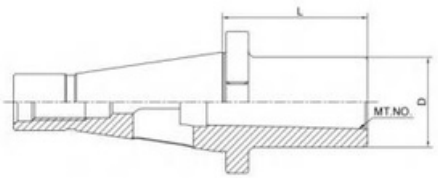




Model	d	D	L
NT30-SLA6-40	6	25	40
NT30-SLA8-40	8	28	40
NT30-SLA10-40	10	35	40
NT30-SLA12-40	12	42	40
NT30-SLA16-50	16	48	50
NT30-SLA18-50	18	50	50
NT30-SLA20-63	20	52	63
NT40-SLA6-50	6	25	50
NT40-SLA8-50	8	28	50
NT40-SLA10-50	10	35	50
NT40-SLA12-50	12	42	50
NT40-SLA14-50	14	44	50
NT40-SLA16-63	16	48	63
NT40-SLA18-63	18	50	63
NT40-SLA20-63	20	52	63
NT40-SLA25-80	25	65	80
NT40-SLA32-80	32	72	80
NT40-SLA40-90	42	80	90
NT50-SLA6-63	6	25	63
NT50-SLA8-63	8	28	63
NT50-SLA10-63	10	35	63
NT50-SLA12-63	12	42	63
NT50-SLA14-63	14	44	63
NT50-SLA16-63	16	48	63
NT50-SLA18-63	18	50	63
NT50-SLA20-63	20	52	63
NT50-SLA25-80	25	65	80
NT50-SLA32-80	32	72	80
NT50-SLA40-90	40	80	90

◆◆ Morse Taper Adapter with Tang

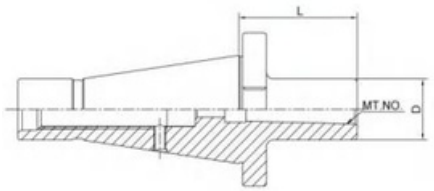




Model	MT.No.	L	D
NT30-MTA1-50	1	50	25
NT30-MTA2-50	2	50	32
NT30-MTA3-75	3	75	40
NT40-MTA1-50	1	50	25
NT40-MTA2-50	2	50	32
NT40-MTA3-65	3	65	40
NT40-MTA4-95	4	95	48
NT50-MTA1-45	2	45	25
NT50-MTA2-60	2	60	32
NT50-MTA3-65	3	65	40
NT50-MTA4-70	4	70	48
NT50-MTA5-105	5	105	63

◆◆ Morse Taper Adapter with Drawbar

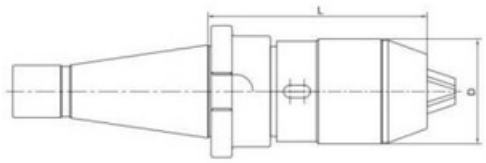




Model	MT.No.	L	D
NT30-MTB1-45	1	45	25
NT30-MTB2-60	2	60	32
NT30-MTB3-70	3	70	40
NT40-MTB 1-50	1	50	25
NT40-MTB 2-60	2	50	32
NT40-MTB3-70	3	65	40
NT40-MTB4-95	4	95	48
NT50-MTB1-60	2	60	25
NT50-MTB2-60	2	60	32
NT50-MTB3-65	3	65	40
NT50-MTB4-65	4	65	48
NT 50-MTB 5-120	5	120	63

◆◆ APU Drill Chuck Holder

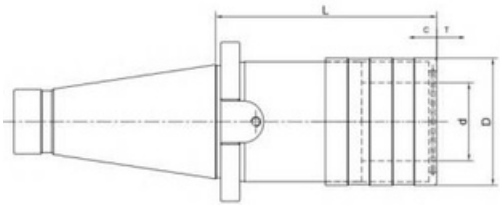




Model	D	L		Capacity
NT30-APU08-80	38	80	90	1-8
NT30-APU13-100	48	100	110	1-13
NT40-APU08-85	38	85	95	1-8
NT40-APU13-110	48	110	120	1-13
NT40-APU16-130	53	130	141	3-16
NT50-APU08-95	38	90	105	1-8
NT50-APU13-120	48	120	130	1-13
NT50-APU16-130	53	130	141	3-16

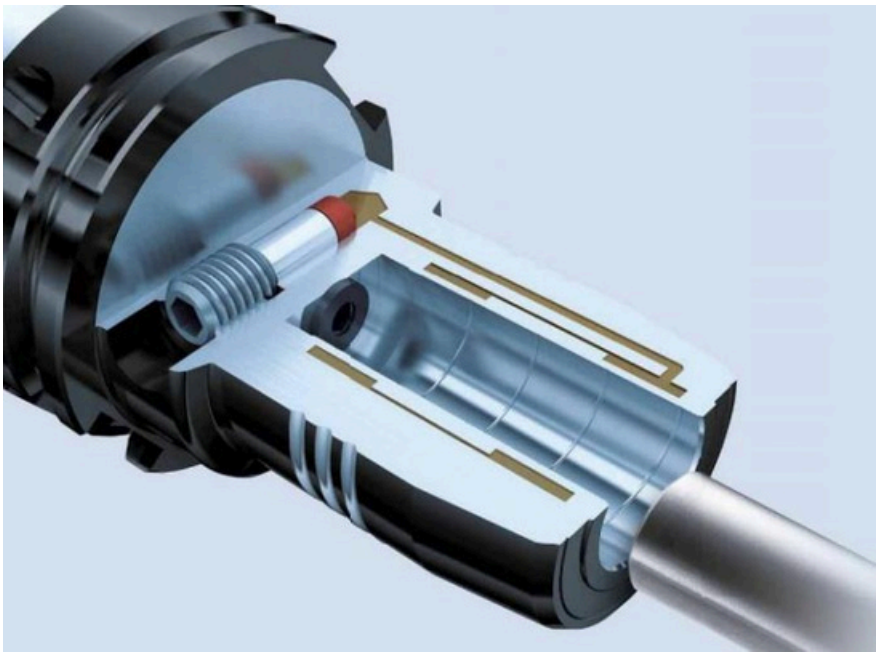
◆◆ Quick Change Tapping Chuck with Length Compensation

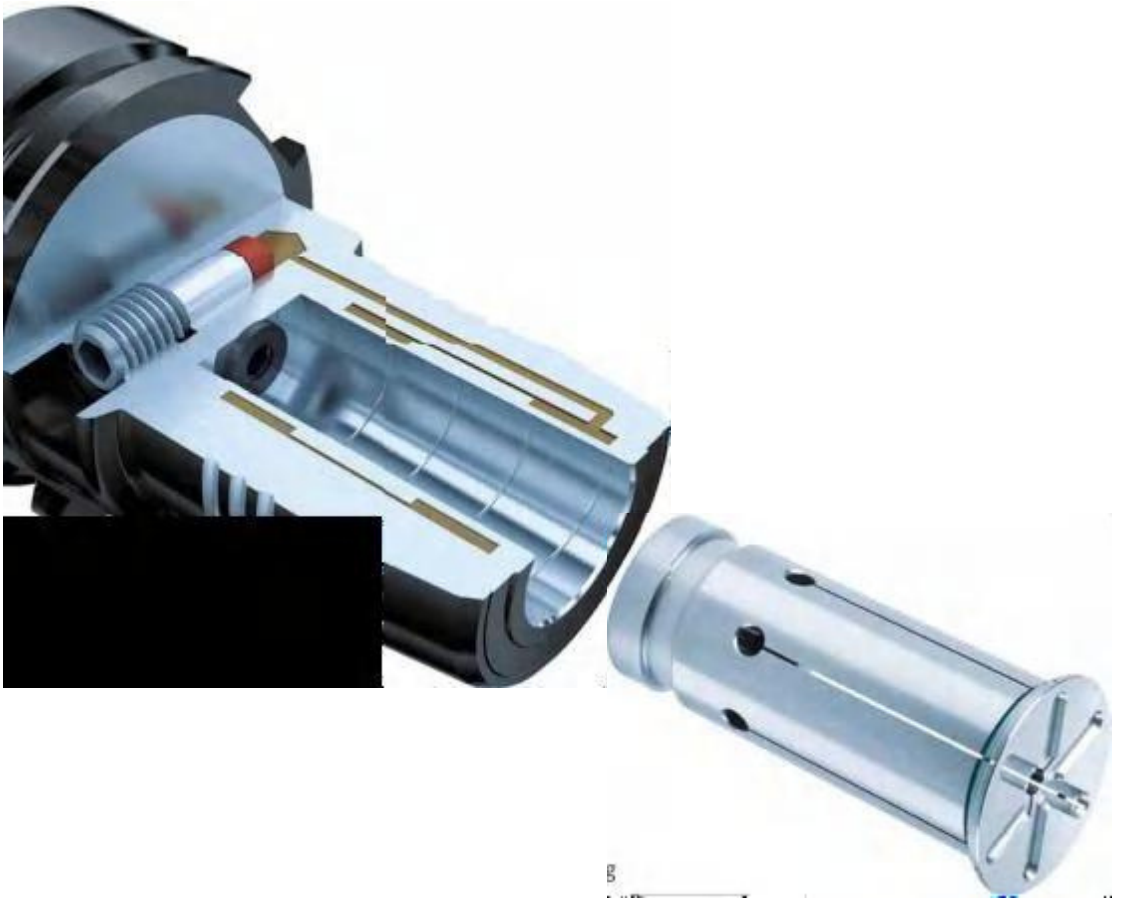




Model	d	D	L	T	C
NT30-TC312-55	19	36	55	7.5	7.5
NT30-TC820-86	31	53	86	12.5	12.5
NT40-TC312-55	19	36	55	7.5	7.5
NT40-TC820-86	31	53	86	12.5	12.5
NT40-TC1433-132	48	78	132	22	22
NT50-TC312-62	19	36	62	7.5	7.5
NT50-TC820-90	31	53	90	12.5	12.5
NT50-TC1433-117	48	78	117	22	22

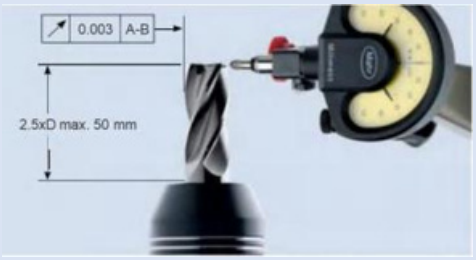
◆◆ Hydraulic tool handle







High torque of up to 900 Nm (Ø 20) and 2000 Nm (Ø 32) for highest volume machining
Due to the compact design, holding forces and a high torque
transmission are guaranteed.
Your benefit:
highest material removal rate.



Permanent run-out accuracy of less than 0.003 mm – without any luctuations
This assures best surface results due to a uniform cutting action and highest reproducibility.
Your advantage:



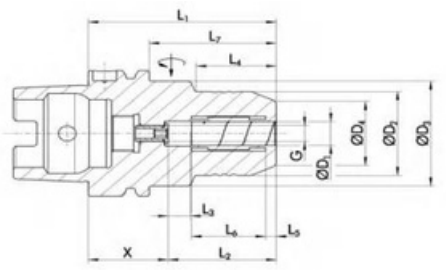
Excellent vibration damping
The hydraulic system absorbs vibrations, assures smooth run-
ning, and the best workpiece surfaces.
Your benefit:
high surface quality, the machine spindle is protected from
damage, and service life is increased.



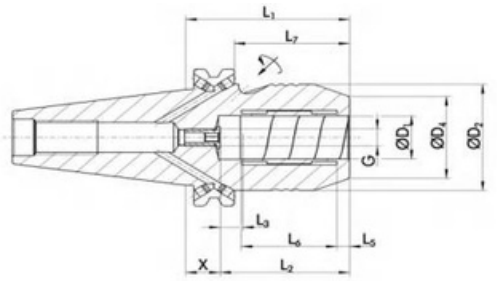
Easy handling. Turn in the actuation screw with an Allen key
to the dead stop. The clamping results in a run-out accuracy
of less than 0.003 mm without the need for additional peri-
pheral equipment .

◆◆ Hydraulic tool handle

HSK-A63 / HSK-A100**



SK40/ BT30* / BT40 / SK50 / BT50 / CAT40 / CAT50



Model	D1	D1	D1	D1	L1	L1	L1	L1	L1	L1	L1	X	G
HSK-A63	12.0	42.00	52.50	32.00	80.00	46.00	10.00	34 . 00	4.50	31.00	54.00	34.00	M8x1
SK40	12.0	42.00	–	32.00	50.00	46.00	10.00	–	4.50	31.00	31.00	4.00	M8x1
SK50	12.0	42.00	–	32.00	50.00	46.00	10.00	–	4.50	31.00	31.00	4.00	M8x1
BT30*	12.0	42.00	–	32.00	69.00	46.00	10.00	–	4.50	31.00	47.00	23.00	M8x1
BT40	12.0	42.00	–	32.00	58.00	46.00	10.00	–	4.50	31.00	31.00	12.00	M8x1
BT50	12.0	42.00	–	32.00	69.00	46.00	10.00	–	4.50	31.00	31.00	23.00	M8x1
HSK-A63	3/4"	53.00	–	38.00	80.00	51.00	10.00	–	5.00	37.00	54.05	29.00	M8x1
HSK-A63	20.0	52.50	–	38.00	80.00	51.00	10.00	–	5.00	37.00	54.00	29.00	M8x1
HSK-A100 **	20.0	52.50	–	38.00	90.00	51.00	10.00	–	5.00	37.00	61.05	39.00	M8x1
SK40	20.0	49.25	–	38.00	64.50	51.00	10.00	–	5.00	37.00	45.50	13.50	M8x1
SK50	20.0	49.25	–	38.00	64.50	51.00	10.00	–	5.00	37.00	45.50	13.50	M8x1
BT30*	20.0	42.00	–	38.00	90.00	51.00	10.00	–	5.00	37.00	47.00	39.00	M8x1
BT40	20.0	49.25	–	38.00	72.50	51.00	10.00	–	5.00	37.00	45.50	21.50	M8x1
BT50	20.0	49.25	–	38.00	83.50	51.00	10.00	–	5.00	37.00	45.50	32.50	M8x1
CAT40	3/4"	49.25	–	38.00	64.50	51.00	10.00		5.00	37.00	45.45	14.00	M8x1
CAT40	20.0	49.25	–	38.00	64.50	51.00	10.00	–	5.00	37.00	45.45	14.00	M8x1
HSK-A100 **	32.0	72.00	-	58.50	100.00	61.00	10.00	-	6.00	44.00	71.05	39.00	M8x1
SK50	32.0	72.00	–	58.50	81.00	61.00	10.00	–	6.00	44.00	62.00	20.00	M8x1
BT50	32.0	72.00	–	58.50	90.00	61.00	10.00	–	6.00	44.00	52.00	29.00	M8x1
CAT50	11/4"	72.00	–	58.50	81.00	61.00	10.00	–	6.00	44.00	61.95	20.00	M8x1



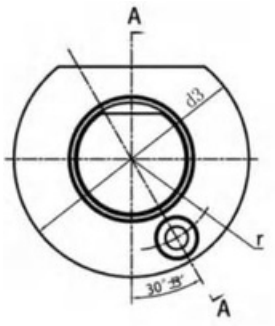
VDI

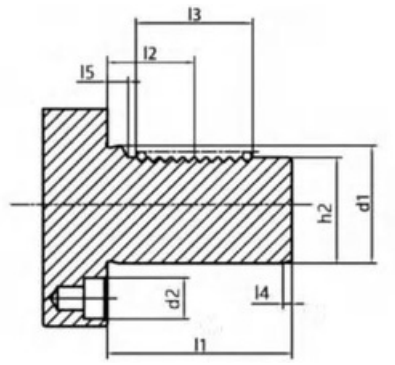
TOOL HOLDER SERIES



KORTOOLS

◆◆ VDI Taper Standard

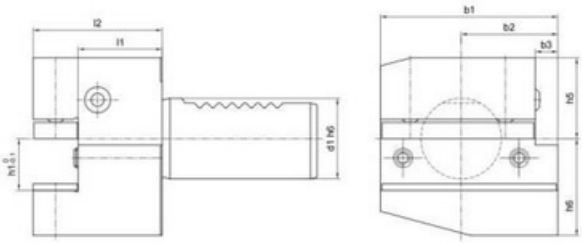




d1 H6	h1 max	d2	d3	h2 ±0.1	r ±0.02	l1 max	l2 ±0.05	l3 min	l4 max	l5
16	12	8	40	15.0	14.5	32	12.7	16	2	3.5
20	16	10	50	18.0	18.0	40	21.7	24	2	7.0
25	16	10	58	23.5	21.0	48	21.7	24	2	7.0
30	20	14	68	27.0	25.0	55	29.7	40	2	7.0
40	25	14	83	36.0	32.0	63	29.7	40	3	7.0
50	32	16	98	45.0	37.0	78	35.7	48	3	8.0
60	32	16	123	55	48	94	43.7	56	4	10
80	40	20	158	72	65	124	49.7	80	4	10

◆◆ Radial Holder Form B1 Right, Short

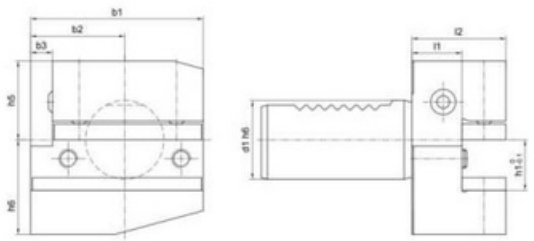




Model	d1	b1	b2	b3	h1	h5	h6	l1	l2
B1-16x12x24	16	42	23	5	12	20	22	13	24
B1-16x12x34	16	42	23	5	12	20	22	23	34
B1-20x16x30	20	55	30	7	16/12	25	30	16	30
B1-20x16x40	20	55	30	7	16/12	25	30	26	40
B1-25x16x30	25	55	30	7	16/12	25	30	16	30
B1-25x16x40	25	55	30	7	16/12	25	30	26	40
B1-30x20x40	30	70	35	10	20/16	28	38	22	40
B1-30x20x60	30	70	35	10	20/16	28	38	42	60
B1-40x25x44	40	85	42.5	12.5	25/20	32.5	48	22	44
B1-50x32x55	50	100	50	16	32/25	35	60	30	55
B1-60x32x60	60	125	62.5	16	32/25	42.5	62.5	30	60
B1-80x40x75	80	160	80	20	40/32	55	80	40	75

◆◆ Radial Holder Form B2 Left, Short

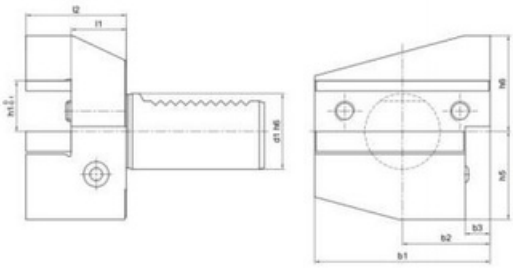




Model	d1	b1	b2	b3	h1	h5	h6	l1	l2
B2-16x12x24	16	42	23	5	12	20	22	13	24
B2-16x12x34	16	42	23	5	12	20	22	23	34
B2-20x16x30	20	55	30	7	16/12	25	30	16	30
B2-20x16x40	20	55	30	7	16/12	25	30	26	40
B2-25x16x30	25	55	30	7	16/12	25	30	16	30
B2-25x16x40	25	55	30	7	16/12	25	30	26	40
B2-30x20x40	30	70	35	10	20/16	28	38	22	40
B2-30x20x60	30	70	35	10	20/16	28	38	42	60
B2-40x25x44	40	85	42.5	12.5	25/20	32.5	48	22	44
B2-50x32x55	50	100	50	16	32/25	35	60	30	55
B2-60x32x60	60	125	62.5	16	32/25	42.5	62.5	30	60
B2-80x40x75	80	160	80	20	40/32	55	80	40	75

◆◆ Radial Holder Form B3 Inverted Right, Short

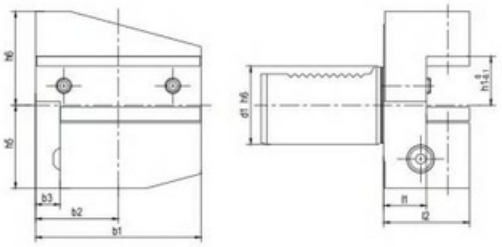




Model	d1	b1	b2	b3	h1	h5	h6	l1	l2
B3-16x12x24	16	42	23	5	12	20	22	13	24
B3-16x12x34	16	42	23	5	12	20	22	23	34
B3-20x16x30	20	55	30	7	16/12	25	30	16	30
B3-20x16x40	20	55	30	7	16/12	25	30	26	40
B3-25x16x30	25	55	30	7	16/12	25	30	16	30
B3-25x16x40	25	55	30	7	16/12	25	30	26	40
B3-30x20x40	30	70	35	10	20/16	35	38	22	40
B3-30x20x60	30	70	35	10	20/16	35	38	42	60
B3-40x25x44	40	85	42.5	12.5	25/20	42.5	48	22	44
B3-50x32x55	50	100	50	16	32/25	50	60	30	55
B3-60x32x60	60	125	62.5	16	32/25	62.5	62.5	30	60
B3-80x40x75	80	160	80	20	40/32	80	80	40	75

◆◆Radial Holder Form B4 Inverted Left, Short

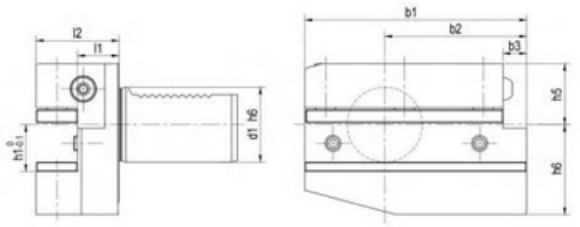




Model	d1	b1	b2	b3	h1	h5	h6	l1	l2
B4-16x12x24	16	42	23	5	12	20	22	13	24
B4-16x12x34	16	42	23	5	12	20	22	23	34
B4-20x16x30	20	55	30	7	16/12	25	30	16	30
B4-20x16x40	20	55	30	7	16/12	25	30	26	40
B4-25x16x30	25	55	30	7	16/12	25	30	16	30
B4-25x16x40	25	55	30	7	16/12	25	30	26	40
B4-30x20x40	30	70	35	10	20/16	35	38	22	40
B4-30x20x60	30	70	35	10	20/16	35	38	42	60
B4-40x25x44	40	85	42.5	12.5	25/20	42.5	48	22	44
B4-50x32x55	50	100	50	16	32/25	50	60	30	55
B4-60x32x60	60	125	62.5	16	32/25	62.5	62.5	30	60
B4-80x40x75	80	160	80	20	40/32	80	80	40	75

◆◆ Radial Holder Form B5 Right,Long

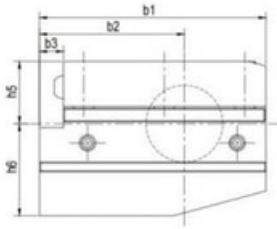




Model	d1	b1	b2	b3	h1	h5	h6	l1	l2
B5-16x12x24	16	58	39	5	12	20	22	13	24
B5-16x12x34	16	58	39	5	12	20	22	23	34
B5-20x16x30	20	75	50	7	16/12	25	30	16	30
B5-20x16x40	20	75	50	7	16/12	25	30	26	40
B5-25x16x30	25	75	50	7	16/12	25	30	16	30
B5-25x16x40	25	75	50	7	16/12	25	30	26	40
B5-30x20x40	30	100	65	10	20/16	28	38	22	40
B5-30x20x60	30	100	65	10	20/16	28	38	42	60
B5-40x25x44	40	118	75.5	12.5	25/20	32.5	48	22	44
B5-50x32x55	50	130	80	16	32/25	35	60	30	55
B5-60x32x60	60	145	82.5	16	32/25	42.5	62.5	30	60
B5-80x40x75	80	190	110	20	40/32	55	80	40	75

◆◆ Radial Holder Form B6 Left, Long

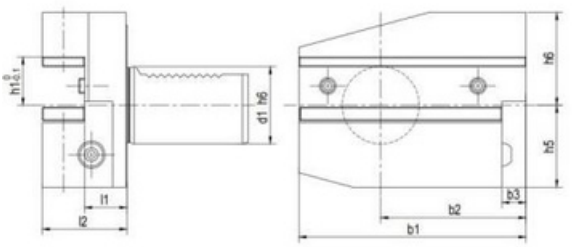




Model	d1	b1	b2	b3	h1	h5	h6	l1	l2
B6-16x12x24	16	58	39	5	12	20	22	13	24
B6-16x12x34	16	58	39	5	12	20	22	23	34
B6-20x16x30	20	75	50	7	16/12	25	30	16	30
B6-20x16x40	20	75	50	7	16/12	25	30	26	40
B6-25x16x30	25	75	50	7	16/12	25	30	16	30
B6-25x16x40	25	75	50	7	16/12	25	30	26	40
B6-30x20x40	30	100	65	10	20/16	28	38	22	40
B6-30x20x60	30	100	65	10	20/16	28	38	42	60
B6-40x25x44	40	118	75.5	12.5	25/20	32.5	48	22	44
B6-50x32x55	50	130	80	16	32/25	35	60	30	55
B6-60x32x60	60	145	82.5	16	32/25	42.5	62.5	30	60
B6-80x40x75	80	190	110	20	40/32	55	80	40	75

◆◆ Radial Holder Form B7 Inverted Right,Long

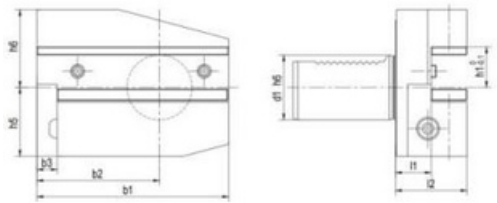




Model	d1	b1	b2	b3	h1	h5	h6	l1	l2
B7-16x12x24	16	58	39	5	12	20	22	13	24
B7-16x12x34	16	58	39	5	12	20	22	23	34
B7-20x16x30	20	75	50	7	16/12	25	30	16	30
B7-20x16x40	20	75	50	7	16/12	25	30	26	40
B7-25x16x30	25	75	50	7	16/12	25	30	16	30
B7-25x16x40	25	75	50	7	16/12	25	30	26	40
B7-30x20x40	30	100	65	10	20/16	35	38	22	40
B7-30x20x60	30	100	65	10	20/16	35	38	42	60
B7-40x25x44	40	118	75.5	12.5	25/20	42.5	48	22	44
B7-50x32x55	50	130	80	16	32/25	50	60	30	55
B7-60x32x60	60	145	82.5	16	32/25	62.5	62.5	30	60
B7-80x40x75	80	190	110	20	40/32	80	80	40	75

◆◆ Radial Holder Form B8 Inverted Left, Long

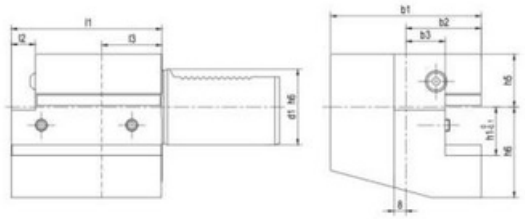




Model	d1	b1	b2	b3	h1	h5	h6	l1	l2
B8-16x12x24	16	58	39	5	12	20	22	13	24
B8-16x12x34	16	58	39	5	12	20	22	23	34
B8-20x16x30	20	75	50	7	16/12	25	30	16	30
B8-20x16x40	20	75	50	7	16/12	25	30	26	40
B8-25x16x30	25	75	50	7	16/12	25	30	16	30
B8-25x16x40	25	75	50	7	16/12	25	30	26	40
B8-30x20x40	30	100	65	10	20/16	35	38	22	40
B8-30x20x60	30	100	65	10	20/16	35	38	42	60
B8-40x25x44	40	118	75.5	12.5	25/20	42.5	48	22	44
B8-50x32x55	50	130	80	16	32/25	50	60	30	55
B8-60x32x60	60	145	82.5	16	32/25	62.5	62.5	30	60
B8-80x40x75	80	190	110	20	40/32	80	80	40	75

◆◆ Radial Holder Form B8 Inverted Left, Long

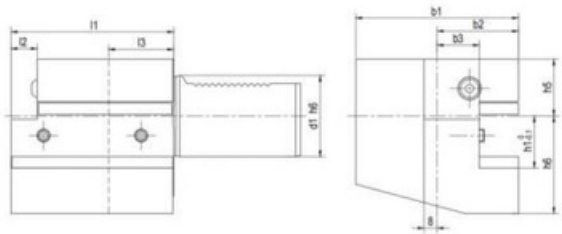




Model	d1	b1	b2	b3	h1	h5	h6	l1	l2
B8-16x12x24	16	58	39	5	12	20	22	13	24
B8-16x12x34	16	58	39	5	12	20	22	23	34
B8-20x16x30	20	75	50	7	16/12	25	30	16	30
B8-20x16x40	20	75	50	7	16/12	25	30	26	40
B8-25x16x30	25	75	50	7	16/12	25	30	16	30
B8-25x16x40	25	75	50	7	16/12	25	30	26	40
B8-30x20x40	30	100	65	10	20/16	35	38	22	40
B8-30x20x60	30	100	65	10	20/16	35	38	42	60
B8-40x25x44	40	118	75.5	12.5	25/20	42.5	48	22	44
B8-50x32x55	50	130	80	16	32/25	50	60	30	55
B8-60x32x60	60	145	82.5	16	32/25	62.5	62.5	30	60
B8-80x40x75	80	190	110	20	40/32	80	80	40	75

◆◆ Axial Holder Form C1 Right

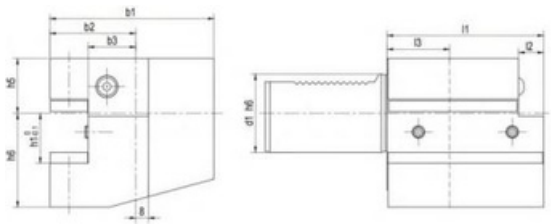




Model	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
C1-16x12x44	16	43	24	13	12	20	22	44	5	20
C1-20x16x50	20	65	40	26	16/12	25	30	50	.	30
C1-20x16x55	20	52	27	13	16/12	25	30	55	7	30
C1-25x16x55	25	58	33	19	16/12	25	30	55	7	20
C1-30x20x70	30	70	35	17	20/16	28	38	70	10	30
C1-40x25x85	40	85	42.5	21	25/20	32.5	48	85	12.5	30
C1-50x32x100	50	100	50	26	32/25	35	60	100	16	40
C1-60x32x125	60	125	62.5	33	32/25	42.5	62.5	125	16	40
C1-80x40x160	80	160	80	42	40/32	55	80	160	20	40

◆◆ Axial Holder Form C2 Left

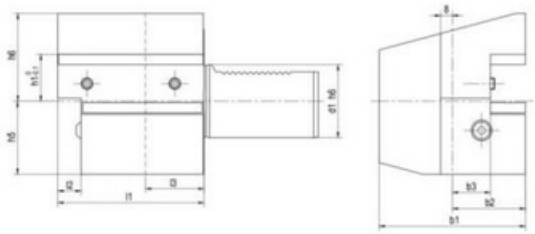




Model	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
C2-16x12x44	16	43	24	13	12	20	22	44	5	20
C2-20x16x50	20	65	40	26	16/12	25	30	50	.	30
C2-25x16x55	25	58	33	19	16/12	25	30	55	7	20
C2-30x20x70	30	76	41	23	20/16	28	38	70	10	30
C2-40x25x85	40	90	47.5	25.5	25/20	32.5	48	85	12.5	30
C2-50x32x100	50	105	55	30.5	32/25	35	60	100	16	40
C2-60x32x125	60	125	62.5	33	32/25	42.5	62.5	125	16	40
C2-80x40x160	80	160	78	42	40/32	55	80	160	20	40

◆◆ Axial Holder Form C3 Inverted Right

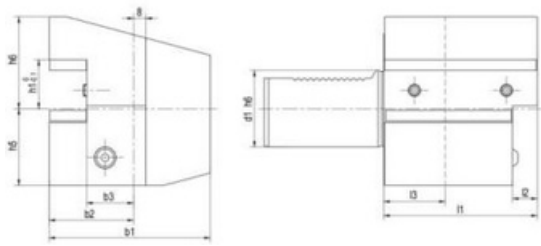




Model	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
C3-16x12x44	16	43	24	13	12	20	22	44	5	20
C3-20x 16x50	20	65	40	26	16/12	25	30	50	.	30
C3-20x 16x55	20	52	27	13	16/12	25	30	55	7	30
C3-25x 16x55	25	58	33	19	16/12	25	30	55	7	20
C3-30x20x70	30	70	35	17	20/16	35	38	70	10	30
C3-40x25x85	40	85	42.5	21	25/20	42.5	48	85	12.5	30
C3-50x32x100	50	100	50	26	32/25	50	60	100	16	40
C3-60x32x125	60	125	62.5	33	32/25	62.5	62.5	125	16	40
C3-80x40x160	80	160	80	42	40/32	80	80	160	20	40

◆◆ Axial Holder Form C4 Inverted Left

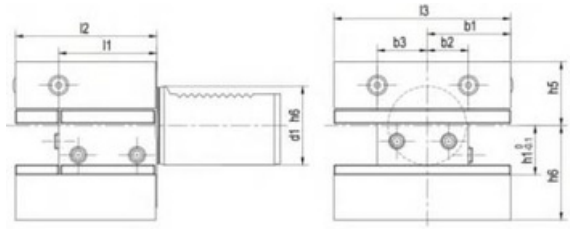




Model	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
C4-16x12x44	16	43	24	13	12	20	22	44	5	20
C4-20x16x50	20	65	40	26	16/12	25	30	50	.	30
C4-25x16x55	25	58	33	19	16/12	25	30	55	7	20
C4-30x20x70	30	76	41	23	20/16	35	38	70	10	30
C4-40x25x85	40	90	47.5	25.5	25/20	42.5	48	85	12.5	30
C4-50x32x100	50	105	55	30.5	32/25	50	60	100	16	40
C4-60x32x125	60	125	62.5	33	32/25	62.5	62.5	125	16	40
C4-80x40x160	80	160	78	42	40/32	80	80	160	20	40

◆◆ Rectangular Holder with Multiple Seats Form D1

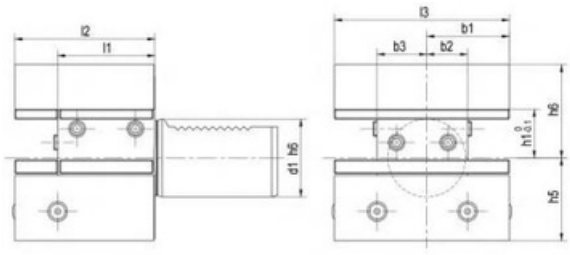




Model	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
D1-25x16x48	25	33	19	19	16/12	25	30	34	48	66
D1-30x20x60	30	35	17	23	20/16	28	38	42	60	76
D1-40x25x72	40	42.5	21	25.5	25/20	32.5	48	50	72	90
D1-50x32x85	50	50	26	30.5	32/25	35	60	60	85	105
D1-60x32x110	60	57.5	33	33	32/25	42.5	62.5	85	110	115
D1-80x40x140	80	76	42	42	40/32	55	80	105	140	152

◆◆ Rectangular Holder with Multiple Seats Form D2 Inverted

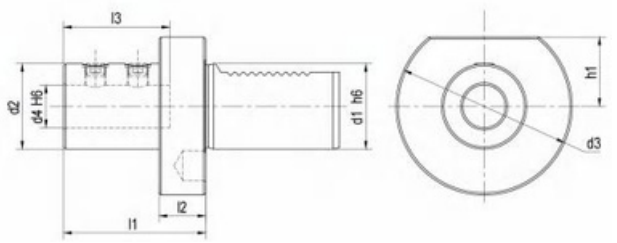




Model	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
D2-25x16x48	25	33	19	19	16/12	25	30	34	48	66
D2-30x20x60	30	35	17	23	20/16	35	38	42	60	76
D2-40x25x72	40	42.5	21	25.5	25/20	42.5	48	50	72	90
D2-50x32x85	50	50	26	30.5	32/25	50	60	60	85	105
D2-60x32x110	60	57.5	33	33	32/25	62.5	62.5	85	110	115
D2-80x40x140	80	76	42	42	40/32	80	80	105	140	152

◆◆ Boring Holder for Indexable Insert Drill Form E1

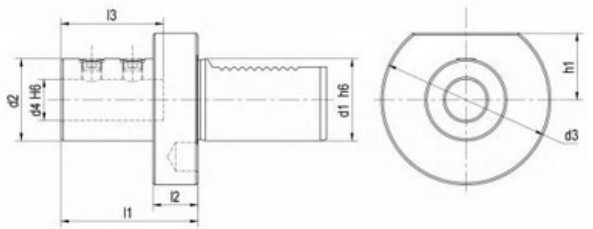




Model	d1	d2	d3	d4	h1	l1	l2	l3
E1-20x16	20	36	50	16	.	67	18	54
E1-20x20	20	40	50	20	.	67	18	54
E1-20x25	20	45	50	25	.	71	18	59
E1-25x16	25	36	58	16	28	67	18	54
E1-25x20	25	40	58	20	28	67	18	54
E1-25x25	25	45	58	25	28	71	18	59
E1-25x32	25	52	58	32	28	75	18	63
E1-30x16	30	36	68	16	28	67		54
E1-30x20	30	40	68	20	28	67	22	54
E1-30x25	30	45	68	25	28	71	22	59
E1-30x32	30	52	68	32	28	75	22	63
E1-30x40	30	65	68	40	28	90	22	73
							22	
E1-40x16	40	36	83	16	32.5	67		54
E1-40x20	40	40	83	20	32.5	67	22	54
E1-40x25	40	45	83	25	32.5	75	22	59
E1-40x32	40	52	83	32	32.5	75	22	63
E1-40x40	40	65	83	40	32.5	90	22	73
E1-40x50	40	75	83	50	32.5	100	22	83

◆◆ Boring Holder for Indexable Insert Drill Form E1

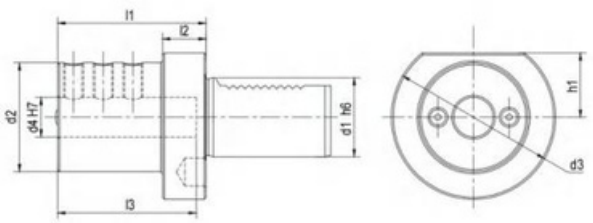




Model	d1	d2	d3	d4	h1	l1	l2	l3
E1-50x16	50	36	98	16	35	80	30	54
E1-50x20	50	40	98	20	35	67	30	54
E1-50x25	50	45	98	25	35	80	30	59
E1-50x32	50	52	98	32	35	80	30	63
E1-50x40	50	65	98	40	35	90	30	73
E1-50x50	50	75	98	50	35	100	30	83
E1-60x16	60	36	123	16	42.5	80	30	54
E1-60x20	60	40	123	20	42.5	80	30	54
E1-60x25	60	45	123	25	42.5	80	30	59
E1-60x32	60	52	123	32	42.5	80	30	63
E1-60x40	60	65	123	40	42.5	90	30	73
E1-60x50	60	75	123	50	42.5	100	30	83
E1-80x20	80	40	158	20	55	80	30	54
E1-80x25	80	45	158	25	55	80	30	59
E1-80x32	80	52	158	32	55	80	30	63
E1-80x40	80	65	158	40	55	90	30	73
E1-80x50	80	75	158	50	55	100	30	83

◆◆ Boring Holder Form E2

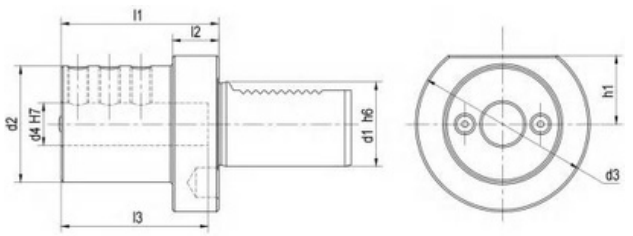




Model	d1	d2	d3	d4	h1	l1	l2	l3
E2-16x6	16	32	40	6	18	44	13	34
E2-16x8	16	32	40	8	18	44	13	34
E2-16x10	16	32	40	10	18	44	13	34
E2-16x12	16	40	40	12	18	44	13	34
E2-16x16	16	40	40	16	18	44	13	34
E2-20x6	20	40	50	6	23	50	18	42
E2-20x8	20	40	50	8	23	50	18	42
E2-20x10	20	40	50	10	23	50	18	42
E2-20x12	20	40	50	12	23	50	18	42
E2-20x16	20	40	50	16	23	50	18	42
E2-20x20	20	45	50	20	23	50	18	41
E2-20x25	20	50	50	25	23	60	18	51
E2-25x8	25	40	58	8	25	50	18	41
E2-25x10	25	40	58	10	25	50	18	41
E2-25x12	25	40	58	12	25	50	18	41
E2-25x16	25	40	58	16	25	50	18	41
E2-25x20	25	58	58	20	25	50	18	41
E2-25x25	25	58	58	25	25	60	18	51
E2-25x32	25	58	58	32	25	75	18	62

◆◆ Boring Holder Form E2

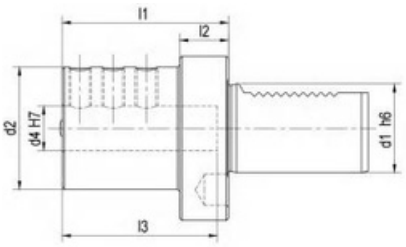


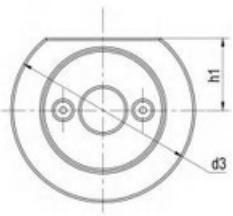


Model	d1	d2	d3	d4	h1	l1	l2	l3
E2-30x6	30	55	68	6	28	60	22	43
E2-30x8	30	55	68	8	28	60	22	43
E2-30x10	30	55	68	10	28	60	22	43
E2-30x12	30	55	68	12	28	60	22	43
E2-30x16	30	55	68	16	28	60	22	54
E2-30x20	30	55	68	20	28	60	22	54
E2-30x25	30	55	68	25	28	60	22	54
E2-30x30	30	66	68	30	28	75	22	61
E2-30x32	30	68	68	32	28	75	22	61
E2-40x8	40	55	83	8	32.5	75	22	43
E2-40x10	40	55	83	10	32.5	75	22	43
E2-40x12	40	55	83	12	32.5	75	22	58
E2-40x16	40	55	83	16	32.5	75	22	61
E2-40x20	40	55	83	20	32.5	75	22	61
E2-40x25	40	55	83	25	32.5	75	22	61
E2-40x30	40	83	83	30	32.5	75	22	61
E2-40x32	40	83	83	32	32.5	75	22	61
E2-40x40	40	83	83	40	32.5	90	22	76
E2-50x12	50	62	98	12	35	90	30	71
E2-50x16	50	62	98	16	35	90	30	76
E2-50x20	50	68	98	20	35	90	30	76
E2-50x25	50	68	98	25	35	90	30	76
E2-50x30	50	68	98	30	35	90	30	76
E2-50x32	50	68	98	32	35	90	30	76
E2-50x40	50	80	98	40	35	90	30	76
E2-50x50	50	98	98	50	35	100	30	86

◆◆ Boring Holder Form E2



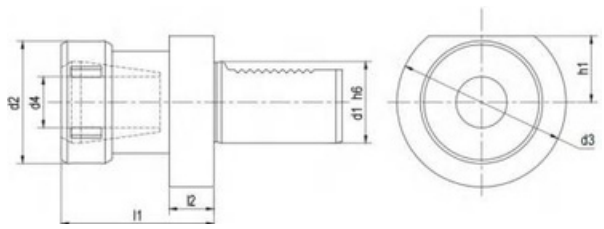




Model	d1	d2	d3	d4	h1	l1	l2	l3
E2-60x16	60	68	123	16	42.5	90	30	76
E2-60x20	60	68	123	20	42.5	90	30	76
E2-60x25	60	68	123	25	42.5	90	30	76
E2-60x30	60	68	123	30	42.5	90	30	76
E2-60x32	60	68	123	32	42.5	90	30	76
E2-60x40	60	98	123	40	42.5	90	30	76
E2-60x50	60	98	123	50	42.5	100	30	86
E2-80x20	80	68	158	20	55	100	30	86
E2-80x25	80	68	158	25	55	100	30	86
E2-80x32	80	68	158	32	55	100	30	86
E2-80x40	80	98	158	40	55	100	30	86
E2-80x50	80	98	158	50	55	100	30	86
E2-80x60	80	98	158	60	55	100	30	92

◆◆ OZ Collet Chuck Form E3

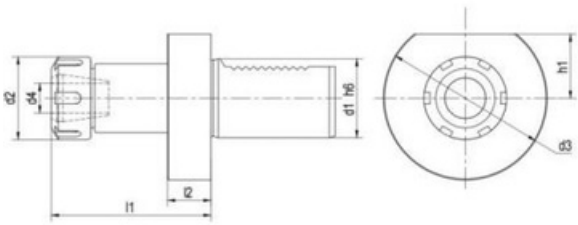




Model	Description	d1	d2	d3	d4	h1	l1	l2
E3-16x16	VDI16-OZ16-57	16	43	40	2-16	18	65	13
E3-20x16	VDI20-OZ16-57	20	43	50	2-16	23	57	18
E3-20x20	VDI20-OZ20-62	20	52	50	2-20	23	62	18
E3-25x16	VDI25-OZ16-57	25	43	58	2-16	25	57	18
E3-25x20	VDI25-OZ20-62	25	52	58	2-20	25	62	18
E3-30x16	VDI30-OZ16-57	30	43	68	2-16	28	57	22
E3-30x20	VDI30-OZ20-62	30	52	68	2-20	28	62	22
E3-30x25	VDI30-OZ25-75	30	60	68	2-25	28	75	22
E3-30x32	VDI30-OZ32-90	30	72	68	4-32	28	90	22
E3-40x16	VDI40-OZ16-57	40	43	83	2-16	32.5	57	22
E3-40x20	VDI40-OZ20-62	40	52	83	2-20	32.5	62	22
E3-40x25	VDI40-OZ25-75	40	60	83	2-25	32.5	75	22
E3-40x32	VDI40-OZ32-90	40	72	83	4-32	32.5	90	22
E3-50x20	VDI50-OZ20-70	50	52	98	2-20	35	70	30
E3-50x25	VDI50-OZ25-75	50	60	98	2-25	35	75	30
E3-50x32	VDI50-OZ32-90	50	72	98	4-32	35	90	30
E3-60x25	VDI60-OZ25-75	60	60	123	2-25	42.5	75	30
E3-60x32	VDI60-OZ32-90	60	72	123	4-32	42.5	90	30
E3-80x25	VDI80-OZ25-85	80	60	158	2-25	55	85	40
E3-80x32	VDI80-OZ32-95	80	72	158	4-32	55	95	40

◆◆ ER Collet Chuck Form E4

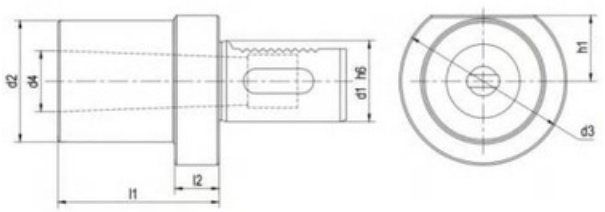




Model	Description	d1	d2	d3	d4	h1	l1	l2
E4-16x16	VDI16-ER16-44	16	32	40	1-10	18	44	13
E4-16x20	VDI16-ER20-44	16	35	40	1-13	18	44	13
E4-20x16	VDI20-ER16-44	20	32	50	1-10	23	44	18
E4-20x20	VDI20-ER20-50	20	35	50	1-13	23	50	18
E4-20x25	VDI20-ER25-50	20	42	50	2-16	23	50	18
E4-20x32	VDI20-ER32-62	20	50	50	2-20	23	62	18
E4-25x16	VDI25-ER16-44	25	32	58	1-10	25	44	18
E4-25x25	VDI25-ER25-57	25	42	58	2-16	25	57	18
E4-25x32	VDI25-ER32-62	25	50	58	2-20	25	62	18
E4-30x16	VDI30-ER16-48	30	32	68	1-10	28	48	22
E4-30x20	VDI30-ER20-59	30	35	68	1-13	28	59	22
E4-30x25	VDI30-ER25-57	30	42	68	2-16	28	57	22
E4-30x32	VDI30-ER32-75	30	50	68	2-20	28	75	22
E4-30x40	VDI30-ER40-80	30	63	68	3-26	28	80	22
E4-40x20	VDI40-ER20-59	40	35	83	1-13	32.5	59	22
E4-40x25	VDI40-ER25-57	40	42	83	2-16	32.5	57	22
E4-40x32	VDI40-ER32-75	40	50	83	2-20	32.5	75	22
E4-40x40	VDI40-ER40-75	40	63	83	3-26	32.5	75	22
E4-50x25	VDI50-ER25-67	50	42	98	2-16	35	67	30
E4-50x32	VDI50-ER32-75	50	50	98	2-20	35	75	30
E4-50x40	VDI50-ER40-75	50	63	98	3-26	35	75	30
E4-60x32	VDI60-ER32-75	60	50	123	2-20	42.5	75	30
E4-60x40	VDI60-ER40-75	60	63	123	3-26	42.5	75	30
E4-80x40	VDI80-ER40-75	80	63	158	3-26	55	75	40

◆◆ Morse Taper Adapter Form F

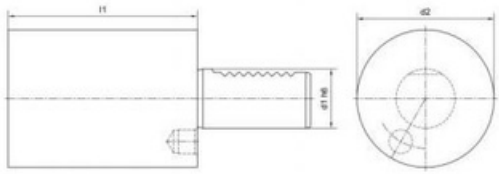




Model	d1	d2	d3	MK	d4	h1	l1	l2
F30-MKD1	30	-	68	1	12.065	28	27	-
F30-MKD2	30	53	68	2	17.78	28	36	27
F30-MKD3	30	53	68	3	23.825	28	66	41
F40-MKD1	40	55	83	1	12.065	32.5	36	22
F40-MKD2	40	55	83	2	17.78	32.5	36	22
F40-MKD3	40	58	83	3	23.825	32.5	36	22
F40-MKD4	40	68	83	4	31.267	32.5	80	22
F50-MKD2	50	55	98	2	17.78	35	36	30
F50-MKD3	50	58	98	3	23.825	35	45	30
F50-MKD4	50	68	98	4	31.267	35	55	30
F50-MKD5	50	-	98	5	44.388	35	168	-
F60-MKD2	60	55	123	2	17.78	42.5	35	30
F60-MKD3	60	58	123	3	23.825	42.5	45	30
F60-MKD4	60	68	123	4	31.267	42.5	55	30
F60-MKD5	60	98	123	5	44.388	42.5	64	30

◆◆ Round Soft Blank Form A2

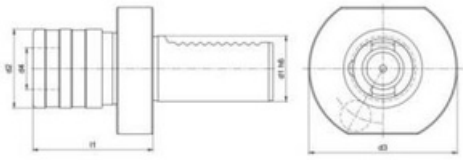




Model	d1	d2	l1
A2-16x60	16	40	60
A2-20x70	20	50	70
A2-25x80	25	58	80
A2- 25x200	25	58	200
A2-30x100	30	68	100
A2-30x240	30	68	240
A2-40x120	40	83	120
A2-40x320	40	83	320
A2- 50x135	50	98	135
A2- 50x400	50	98	400
A2-60x150	60	123	150
A2-60x480	60	123	480
A2-80x500	80	158	500

◆◆ Quick Change Tapping Chuck with Length Compensation

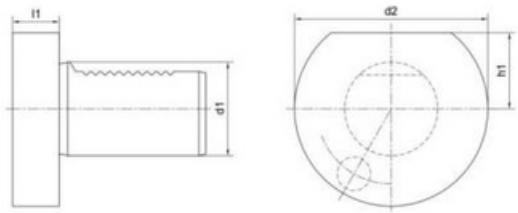




Model No.	d1	d2	d3	d4	l1
VDI20-TC312-55	20	38	50	19	55
VDI30-TC312-55	30	38	68	19	55
VDI30-TC820-77	30	55	68	31	77
VDI40-TC312-55	40	38	83	19	55
VDI40-TC820-77	40	55	83	31	77
VDI40-TC1433-110	40	79	83	48	110
VDI50-TC312-55	50	38	98	19	55
VDI50-TC820-77	50	55	98	31	77
VDI50-TC1433-110	50	79	98	48	110

◆◆ Protection Plug Form Z2





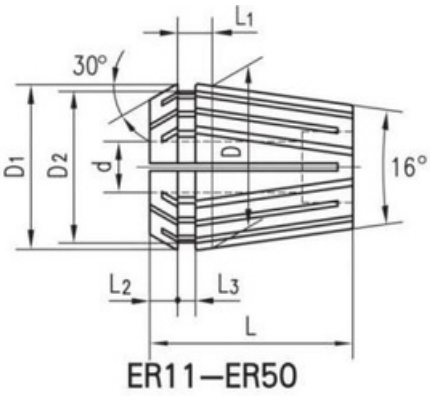
Model	d1	d2	h1	l1
Z2-16x13S	16	40	18	13
Z2-20x16S	20	50	23	16
Z2-25x16S	25	58	25	16
Z2-30x16S	30	68	28	16
Z2-40x20S	40	83	32.5	20
Z2-50x20S	50	98	35	20
Z2-60x20S	60	123	42.5	20

◆◆ ER SERIES COLLETS WITH STANDARD DIN6488B

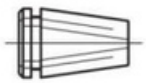
1. Made of special elastic steel material
2. Power clamping ability,precise accuracy
3. Used for boring,milling,drilling,tappping,grinding and engraving operation etc

1. Wykonany z specjalnego elastycznego materiału stalowego.
2. Posiada zdolność mocowania zasilania, precyzyjną dokładność.
3. Stosowany do operacji wiercenia, frezowania, wiercenia, gwintowania, szlifowania i grawerowania itp.



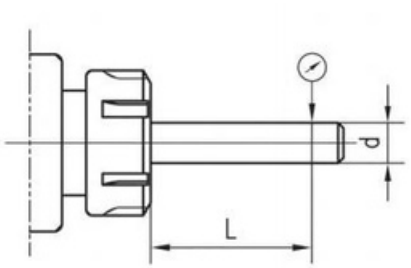


ER11—ER50


ER8

Model	dH7	D	D1	D2	L	L1	L2	L3	Collapsible capacity
ER8	≥1.0~5.0	8	8.45	6.5	13.5	2.98	1.5	1.2	0.5
ER11	≥1.0~7.0	11	11.5	9.5	18.0	3.8	2.5	2.0	0.5
ER16	≥1.0~2.5	16	17	13.8	27.5	6.26	4.0	2.7	0.5
	>2.5~10.0	16	17	13.8	27.5	6.26	4.0	2.7	1.0
ER20	≥1.0~2.5	20	21	17.4	31.5	6.36	4.8	2.8	0.5
	>2.5~13.0	20	21	17.4	31.5	6.36	4.8	2.8	1.0
ER25	≥1.0~2.5	25	26	22.0	34.0	6.66	5.0	3.1	0.5
	>2.5~16.0	25	26	22.0	34.0	6.66	5.0	3.1	1.0
ER32	≥2.0~2.5	32	33	29.2	40.0	7.16	5.5	3.6	0.5
	>2.5~20.0	32	33	29.2	40.0	7.16	5.5	3.6	1.0
ER40	≥3.0~26.0	40	41	36.2	46.0	7.66	7.0	4.1	1.0
ER50	≥6.0~10.0	50	52	46.0	60.0	12.6	8.5	5.5	1.0
	>10.0~34.0	50	52	46.0	60.0	12.6	8.5	5.5	2.0

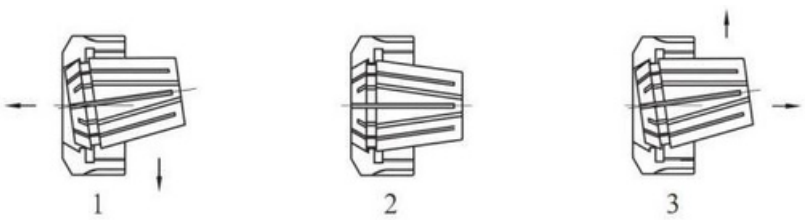
◆◆ Inspection of Accuracy



D	L	Run out tolerance				
		AAA	AA	A	B	C
1.0~1.6	6	0.005	0.008	0.010	0.010	0.015
>1.6~3.0	10					
>3.0~6.0	16					
>6.0~10.0	25				0.015	0.020
>10.0~18.0	40					
>18.0~26.0	50					
>26.0~30.0	60					
>30.0~34.0	80				0.020	0.030

Uwaga: Jeśli nie ma żadnych specjalnych wymagań, zazwyczaj dostarczamy produkt zgodnie z klasą C. Jeśli potrzebujesz innej klasy precyzji, konieczne będzie złożenie specjalnego zamówienia, a cena zostanie ustalona indywidualnie.
Instrukcja montażu dla nakrętek i wkładek ER

If no special requirement,we would supply to you according to C grade;if you require other grade,the price would be advanced. Mounting instruction for ER collets and nuts

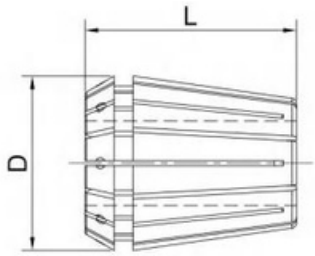


1. Włóż wkładkę do nakrętki, lekko obróć wkładkę, wciśnij ją równomiernie w kierunku wskazanym w oferowanym kierunku. Gdy przesunięta krawędź wkładki znajdzie się w rowku wkładki.
2. Zamocuj nakrętkę i wkładkę na wrzecionie, obracaj nakrętką, aż wkładka będzie pod naciskiem. Wyczyść walcowy trzonek narzędzia i włóż go do otworu pilotażowego. Dokręć nakrętkę kluczem aż narzędzie będzie mocno zaklinowane (Uwaga: nigdy nie dokręcaj nakrętki bez narzędzia w niej, gdyż może to spowodować jej pęknięcie).
3. Przy zmianie narzędzia, poluzuj nakrętkę, co spowoduje wyprowadzenie razem z wkładką narzędzia, a następnie wyjmij narzędzie. Wypchnij nieco wkładkę w oferowanym kierunku, będzie gotowa do wymiany narzędzia.

1. Put the collet into the nut,turn the collet slightly,pust it into the nut at the offered direction evenly.When the offset flange into the undercut of the collet.
2. Fix the nut and the collet on the spindle rotate the nut until the collet is in pressing.Wipe the straight shank of cutter,and insert it into the pilot hole.Tighten the unt with a wrench till the cutter is clamped heavily (Caution:never tighten the nut without cutter in it for it will break).
3. When changing the tool,Loosen the nut and it shall bring out the collet and the cutter together,and then draw the cutter out push out slightly the collet in the offered direction,it shall be ready for any change of the cutter.

◆◆ ER Sealed Collet

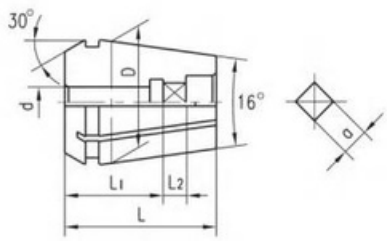




Model	D	L	d
ER11C-d	11.5	18	2~7
ER16C-d	16.74	27.5	2~10
ER20C-d	20.74	31.5	2~13
ER25C-d	25.74	34	2~16
ER32C-d	32.74	40	2~20
ER40C-d	40.74	46	3~26

◆◆ TAPPING COLLET



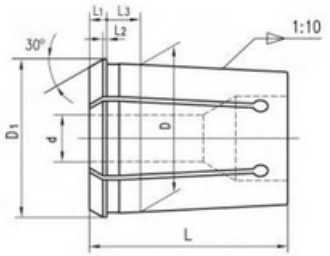


Order No	ER16G-d	ER20G-d	ER25G-d	ER32G-d	ER40G-d
D	16	20	25	32	40
L	27.5	31.5	34	40	46
d	3.5~8	3.5~10	3.5~16	3.5~20	3.5~25

dxa	3.5X2.7	4.0X3.0	4.5X3.4	5.5X4.3	6.0X4.9	7.0X5.5
	8.0X6.2	9.0X7.0	10X8.0	11X9.0	12X9.0	14X11
	16X12	18X14.5	20X16	22X18	25X20	

◆◆DIN6388A EOC COLLETS



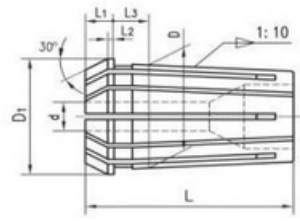


Model No.	D	D1	d	L	L1	L2	L3
EOC/OZ6	10	11.5	1~6	21	3.5	0.5	4
EOC/OZ8	12.65	14.5	1~8	26	4	0.8	4.5
EOC/OZ10	15.15	17.2	1~10	30	4.5	0.8	4.5
EOC/OZ12	17.75	19.8	1~12	34	5	1.1	4.5
EOC/OZ16	22.65	25.5	2~16	40	5.5	1.2	5.5
EOC/OZ20	27.4	29.8	2~20	45	6	1.35	6
EOC/OZ25	32.9	35.05	2~25	52	6	1.4	6
EOC/OZ32	41.3	43.7	4~32	60	6	1.45	7
EOC/OZ40	49.7	52.2	6~40	68	6	1.45	8
EOC/OZ50	61.1	63.8	8~50	80	7	1.55	9

Clamp workpiece or tooling shank tolerance h11

◆◆DIN6388B EOC COLLETS





Model No.	D1	D	d	L	L1	L2	L3
EOC16B	25.5	22.65	2~16	40	5.5	1.2	9.5
EOC20B	29.8	27.4	2~20	45	6	1.35	10
EOC25B	35.05	32.9	2~25	52	6	1.4	10
EOC32B	43.7	41.3	4~32	60	6	1.45	11
EOC40B	52.2	49.7	6~40	68	6	1.45	12
EOC50B	63.8	61.1	8~50	80	7	1.55	13

Max clamping range:0.5mm

◆◆ER Collet Set

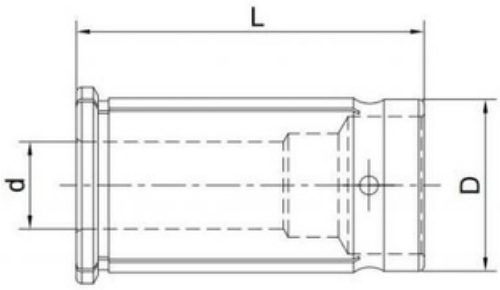




Model No	Collet Diameter	PCS/SET
ER8-5 PCS	1-5	5
ER8-9 PCS	1-5	9
ER11-7 PCS	1-7	7
ER11-13 PCS	1-7	13
ER16-10 PCS	1-10	10
ER20-13 PCS	1-13	13
ER25-15 PCS	2-16	15
ER32-18 PCS	3-20	18
ER40-23 PCS	4-26	23

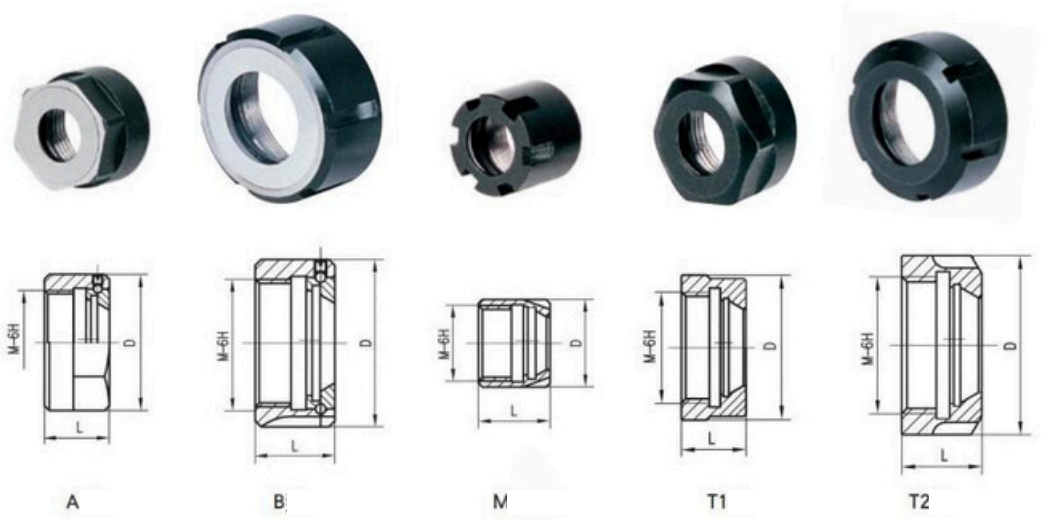
◆◆Straight Shank Collet





Model No.	D(mm)	d(mm)	L(mm)
C16	16	3-12	45
C20	20	3-16	50
C22	22	4-16	55
C25	25	3-20	60
C32	32	4-25	65
C40	40	6-32	80
C42	42	3-32	80

◆◆ER NUT



Model	D(mm)	L(mm)	M	Wt(kg)
ER11-A	19	11.3	M14×0.75	0.005
ER16-A	28	17.5	M22×1.5	0.01
ER20-A	34	19	M25×1.5	0.05
ER25-B	42	20	M32×1.5	0.14
ER32-B	50	22.5	M40×1.5	0.20
ER40-B	63	25.5	M50×1.5	0.30
ER50-B	78	35.5	M64×2	0.50
ER8-M	12	12	M10×0.75	0.005
ER11-M	16	12	M13×0.75	0.01
ER16-M	22	18	M19×1	0.05
ER20-M	28	19	M24×1	0.05
ER25-M	35	20	M30×1	0.08
ER11-T1	19	11.3	M14×0.75	0.005
ER16-T1	28	17.5	M22×1.5	0.01
ER20-T1	34	19	M25×1.5	0.05
ER25-T2	42	20	M32×1.5	0.14
ER32-T2	50	22.5	M40×1.5	0.20
ER40-T2	63	25.5	M50×1.5	0.30
ER50-T2	78	35.5	M64×2	0.50

◆◆ER NUT





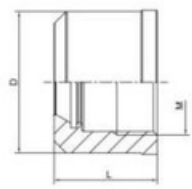


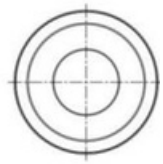
◆◆MS Nut

Model	D(mm)	L(mm)	M
ER11MS	16	12	M13×0.75
ER16MS	22	17	M19×1.0
ER20MS	28	19	M24×1.0
ER25MS	35	20	M30×1.0

◆◆SK Nut







Model	D(mm)	L(mm)	M
SK06	19.5	21	M15.5×1.0
SK10	27.1	24	M21.5×1.0
SK16	40	31	M32×1.5
SK25	55	37	M45×1.5

◆◆OZ Nut

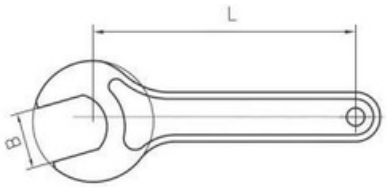




Model	D(mm)	L(mm)	M
OZ10	30	19	M22X1.5
OZ12	35	20	M27X1.5
OZ16	43	24	M33X1.5
OZ20	50	28	M42X2.0
OZ25	60	30	M48X2.0
OZ32	72	33.5	M60X2.5
OZ40	85	37	M68X2.5

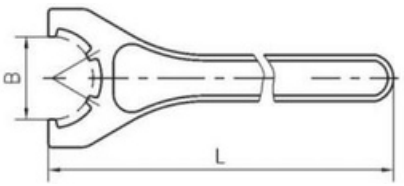
◆◆ER SPANNER





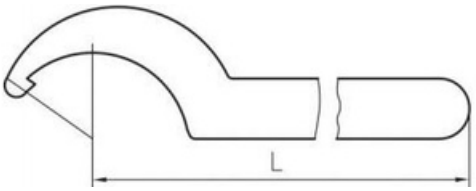
Model	B	L	Clamping Nut
S/ER11	17	110	ER11-A ER11-T1
S/ER16	25	120	ER16-A ER16-T1
S/ER20	30	130	ER20-A ER20-T1





Model	B	L	适用压帽 Clamping Nut
S/ER25-S	37	210	ER25-B ER25-T2
S/ER32-S	45	250	ER32-B ER32-T2
S/ER40-S	58	290	ER40-B ER40-T2
S/ER50-S	72	350	ER50-B ER50-T2





Model	L	Model	Clamping Nut
S/ER25	168	38-42	ER25-B ER25-T2
S/ER32	190	45-52	ER32-B ER32-T2
S/ER40	210	55-63	ER40-B ER40-T2
S/ER50	240	78-85	ER50-B ER50-T2

◆◆ER SPANNER

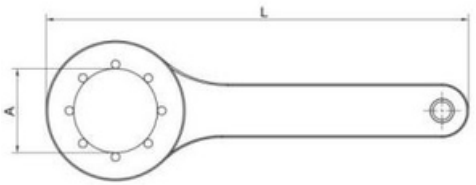




Model	B	L	Clamping Nut
S/ER8M	7.5	70	ER8-M
S/ER11M	11	90	ER11-M
S/ER16M	15	110	ER16-M
S/ER20M	19.5	120	ER20-M
S/ER25M	25	130	ER25-M

◆◆ Ball Spanner

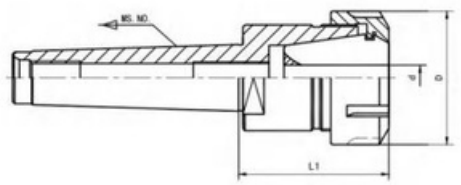




Model	D(mm)	L(mm)	Wt(kg)
SK06	19.5	120	0.24
SK10	27	135	0.3
SK13	35	135	0.3
SK16	40	180	0.38
SK20	48	180	0.58
SK25	55	300	0.7

◆◆ MORSE TAPER COLLET CHUCK

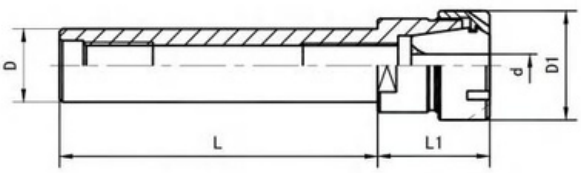




Model	MS.NO	d	D	L1
MS2XER11	MS2	1~7	19	35.3
MS2XER16	MS2	1~10	28	44.3
MS2XER20	MS2	1~13	34	53.3
MS2XER25	MS2	1~16	42	57.7
MS3XER16	MS3	1~10	28	49.3
MS3XER20	MS3	1~13	34	56.2
MS3XER25	MS3	1~16	42	55.7
MS3XER32	MS3	2~20	50	65.7
MS3XER40	MS3	3~26	63	71.7
MS4XER16	MS4	1~10	28	46.5
MS4XER20	MS4	1~13	34	51.7
MS4XER25	MS4	1~16	42	46.7
MS4XER32	MS4	2~0	50	74.2
MS4XER40	MS4	3~26	63	69.7
MS5XER40	MS5	3~26	63	69.2
MS5XER50	MS5	6~34	78	85

◆◆SS COLLET CHUCK WITH MINI NUT

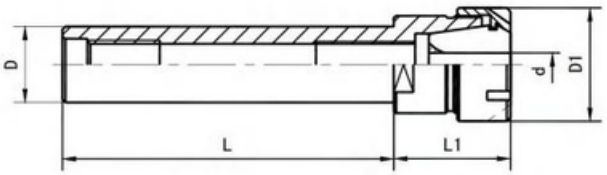




Model	d	D	D1	L	L1
ER8M-10X95-17	1~5	10	12	95	17
ER8M-10X120-17	1~5	10	12	120	17
ER8M-16X100-17	1~5	16	12	100	17
ER11M-12X95-28	1~7	12	16	95	28
ER11M-12X150-30	1~7	12	16	150	30
ER11M-16X100-19	1~7	16	16	100	19
ER11M-16X150-19	1~7	16	16	150	19
ER16M-12X50-36	1~10	12	22	50	36
ER16M-12X100-40	1~10	12	22	100	40
ER16M-16X80-37	1~10	16	22	80	37
ER16M-16X150-40	1~10	16	22	150	40
ER16M-20X50-35	1~10	20	22	50	35
ER16M-20X100-25	1~10	20	22	100	25
ER16M-20X150-25	1~10	20	22	150	25
ER20M-16X60-40	1~13	16	28	60	40
ER20M-16X100-40	1~13	16	28	100	40
ER20M-16X150-40	1~13	16	28	150	40
ER20M-20X80-40	1~13	20	28	80	40
ER20M-20X100-40	1~13	20	28	100	40
ER20M-20X120-40	1~13	20	28	120	40
ER20M-20X150-40	1~13	20	28	150	40
ER25M-20X150-50	1~16	20	35	150	50
ER25M-25X145-45	1~16	25	35	145	45

◆◆SS COLLET CHUCK WITH STANDARD NUT

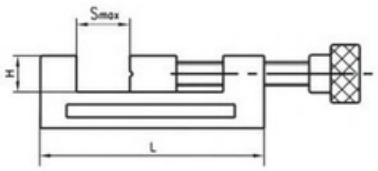


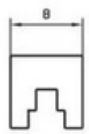


Model	d	D	D1	L	L1
ER11-12X100-45	1~7	12	19	100	45
ER11-16X60-40	1~7	16	19	60	40
ER11-16X100-21	1~7	16	19	100	21
ER16-12X100-35	1~10	12	28	100	35
ER16-16X100-50	1~10	16	28	100	50
ER16-16X150-50	1~10	16	28	150	50
ER16-20X100-50	1~10	20	28	100	50
ER16-20X150-50	1~10	20	28	150	50
ER16-25X100-27	1~10	25	28	100	27
ER16-25X150-27	1~10	25	28	150	27
ER20-20X80-50	1~13	20	34	80	50
ER20-20X100-50	1~13	20	34	100	50
ER20-20X150-36	1~13	20	34	150	36
ER20-25X50-50	1~13	25	34	50	50
ER20-25X100-45	1~13	25	34	100	45
ER20-25X150-45	1~13	25	34	150	45
ER25-20X100-50	1~16	20	42	100	50
ER25-20X150-50	1~16	20	42	150	50
ER25-25X80-50	1~16	25	42	80	50
ER25-25X100-50	1~16	25	42	100	50
ER25-25X150-36	1~16	25	42	150	36
ER25-32X60-45	1~16	32	42	60	45
ER25-32X100-45	1~16	32	42	100	45
ER32-25X80-55	2~20	25	50	80	55
ER32-25X100-55	2~20	25	50	100	55
ER32-32X55-45	2~20	32	50	55	45
ER32-32X100-55	2~20	32	50	100	55
ER32-40X75-50	2~20	40	50	75	50
ER32-40X100-50	2~20	40	50	100	50
ER40-32X80-60	3~26	32	63	80	60
ER40-40X100-60	3~26	40	63	100	60

◆◆ THE PRECISION TOOL VISES







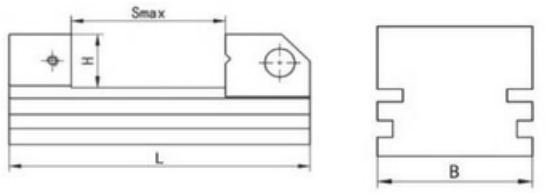
Model No.	Bmm	Hmm	Smaxmm	Lmm	Wt(kg)
QGG50	50	25	65	155	3.0
QGG60	60	25	55	110	2.4
QGG63	63	32	85	190	3.8
QGG73	73	35	100	210	5.0
QGG80	80	40	100	220	6.5
QGG88	88	40	125	250	11.0
QGG100	100	45	125	260	13.0
QGG125	125	50	160	300	19.5
QGG125A	125	50	210	350	23.0
QGG150	150	50	175	315	23.8

1. Made of high-quality alloy steel.The hardness of working surface reaches HRC58~62
2. Parallelism 0.005mm/100mm squareness 0.005mm
3. Quickly to clamp and easy to operate
4. Used for precision measurement and in spection precision grinding,EDM and wire-cutting machi

1. Wykonane z wysokiej jakości stali stopowej. Twardość powierzchni roboczej wynosi HRC58~62.
2. Równoległość 0,005mm/100mm kwadratowość 0,005mm.
3. Szybkie zaciskanie i łatwa obsługa.
4. Stosowane do precyzyjnych pomiarów oraz w inspekcji precyzyjnego szlifowania, obróbki EDM i drutowania.

◆◆ PRECISION TOOL VISES

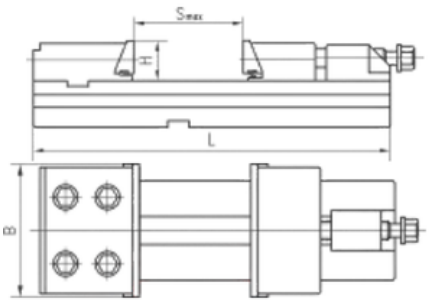




Model No.	Bmm	Hmm	Smax mm	Lmm	Wt(kg)
QKG25	26	9.15	22	65.4	0.5
QKG36	36	20	40	100	1.2
QKG38	38	20	44	105	1.3
QKG50	50	25	65	140	2.0
QKG63	63	32	85	175	3.0
QKG73	73	35	100	190	4.1
QKG80	80	40	100	200	5.5
QKG88	88	40	125	235	7.3
QKG100	100	45	125	245	10.0
QKG125	125	50	160	285	18.0
QKG150	150	50	200	330	21.5
QKG150A	150	50	250	380	23.0
QKG150B	150	50	300	430	24.0

◆◆ PRECISIONMODULARVISES

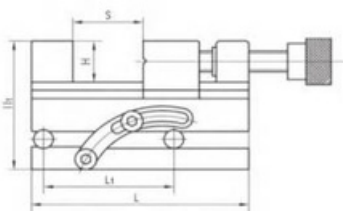


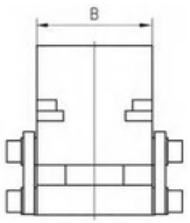


Model No.	B mm	H mm	Smax mm	L mm	(Kg) Clamping force
GT100- I	100	30	100	270	3000
GT125- I	125	40	150	345	3000
GT150A- I	150	50	200	420	5000
G T150B- I	150	50	300	520	5000
G T150C- I	150	50	400	620	5000
GT175A- I	175	60	200	455	6000
G T175B- I	175	60	300	555	6000
G T175C- I	175	60	400	655	6000
G T175D- I	175	60	500	755	6000
G T175E- I	175	60	600	855	6000
GT200A- I	200	65	200	495	10000
G T200B- I	200	65	300	595	10000
G T200C- I	200	65	400	695	10000
G T200D- I	200	65	500	795	10000
G T200E- I	200	65	600	895	10000
GT300A- I	300	80	200	535	12000
G T300B- I	300	80	300	635	12000
G T300C- I	300	80	400	735	12000
G T300D- I	300	80	500	835	12000
G T300E- I	300	80	600	935	12000
G T300F- I	300	80	700	1035	12000
G T300G- I	300	80	800	1135	12000

◆◆ PRECISION SINE TOOL VISE



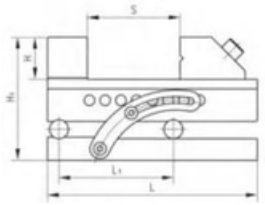


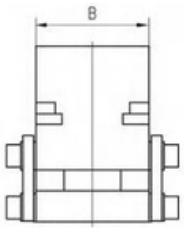


Model No.	B mm	H mm	H1 mm	Smax mm	L mm	L1		Adjustable angle range
						mm	in	
ZXQGG50	50	25	86.6	60	140	100	4	0~45°
ZXQGG63	63	32	94.6	85	175		5	
ZXQGG73	73	35	111	90	190			
ZXQGG80	80	40	121	95	200			
ZXQGG88	88	40	125	120	235			
ZXQGG100	100	45	139.2	125	245			
ZXQGG125	125	50	154.2	160	285	200		
ZXQGG150	150	50	160.9	190	330	200	10	

◆◆ PRECISION SINE TOOL VISE







Model No.	B mm	H mm	H1 mm	Smax mm	L mm	L1		Adjustable angle range
						mm	in	
ZXQKG50	50	25	79.36	65	140	100	4	0~45°
ZXQKG63	63	32	92.36	85	175		5	
ZXQKG73	73	35	104	100	190			
ZXQKG80	80	40	117	100	200			
ZXQKG88	88	40	122	125	235			
ZXQKG100	100	45	134.08	125	245			
ZXQKG125	125	50	144.08	160	285	200		
ZXQKG150	150	50	150.9	200	330	200	10	



FACE MILLING CUTTER

TOOL SERIES







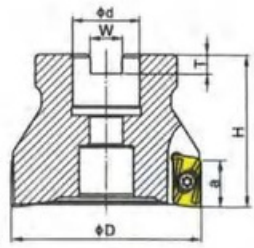


◆◆BAP Right angle shoulder face mill



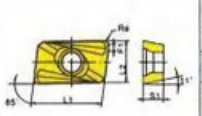


★ 11° positive angle blade
★ Adaptive multi-material blade, applicable to aluminum steel milling
★ Screw locking, allow a large space debris, a good chip disposal
★ Cutting light, the resistance of small



Cat. No	Size					
	D	d	H	W	T	a
BAP300R-40-16-5T	40	16	40	8.4	5.6	9
BAP300R-50-22-6T	50	22	50	10.4	6.3	9
BAP400R-50-22-4T	50	22	50	10.4	6.3	14
BAP400R-63-22-4T	63	22	50	10.4	6.3	14
BAP400R-80-27-6T	80	27	50	12.4	7	14
BAP400R-100-32-6T	100	32	50	14.4	8	14
BAP400R-125-40-7T	125	40	63	16.4	9	14
BAP400R-160-40-8T	160	40	63	16.4	9	14
BAP400R-200-60-9T	200	60	63	25.7	14	14
BAP400R-250-60-14T	250	60	63	25.7	14	14
BAP400R-63-25.4-4T	63	25.4	50	10	6	14
BAP400R-80-25.4-6T	80	25.4	50	10	6	14
BAP400R-100-31.75-6T	100	31.75	50	13	8	14
BAP400R-125-38.1-8T	125	38.1	63	16.2	10	14
BAP400R-160-50.8-9T	160	50.8	63	19.3	11	14

Cat. No	Insert APMT	Clamp screw	wrench
BAP300R	1135 PDER APMT	M2.5×6	T8
BAP400R	1604 PDER	M4×10	T15

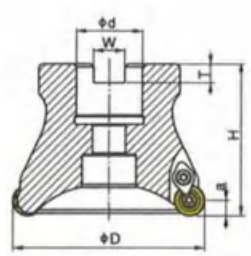
Cat. No	F7030	F620	VP15TF	UP20M	NX2525	NX4545	UT120T	HTI10	P201	H101	Insert shape	(mm) Size L1	L2	S1	F1	Re	
APMT1604PDER-H1	●		●				●					16.5	9.525	4.76	1.7	0.4	MITSUBISHI
1604PDER-H2	●	●	●	●	●	●	●	●				16.5	9.525	4.76	1.7	0.8	
APMT1604PDER-M2	●	●	●									16.5	9.525	4.76	1.7	0.8	
APMT1604DDR												16.5	9.525	4.76	1.7	0.8	ROSS
APKT160402PDSR												16.4	9.525	4.76	–	0.2	

◆◆EMR Round dowel face mil



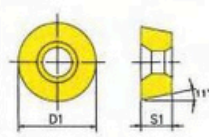


★ Using the 11° positive angle blade
★ Blade economy, the applicability of high
★ Capacity chip a large space, good chip disposal
★ Cone design, steel high



Cat. No	Size					
	D	d	H	W	T	a
EMR-5R-50-22-4T	50	22	50	10.4	6.3	5
EMR-5R-63-22-4T	63	22	50	10.4	6.3	5
EMR-5R-80-27-6T	80	27	50	12.4	7	5
EMR-5R-100-32-6T	100	32	50	14.4	7	5
EMR-5R-125-40-7T	125	40	63	16.4	9	5
EMR-5R-160-40-8T	160	40	63	16.4	9	5
EMR-5R-63-25.4-4T	63	25.4	50	10	6	5
EMR-5R-80-25.4-6T	80	25.4	50	10	6	5
EMR-5R-100-31.75-6T	100	31.75	50	13	8	5

Mating				
Cat. No	Insert	Clamppiece	Clampscrew	wrench
EMR-5R	RPMW 1003 MO RPMT 10T3 MOE	Y-5R	M4×10/M3.5×10	T15

Cat. No	UP20M	NX2525	UTI20T	F7030	VP15TF	SH8020	SH8205	JC3535	P201	Insert shape	(mm) Size D1	S1	
RPMW1003MO	●	●	●								10	3.18	MITSUBISHI
RPMT10T3MOE				●	●						10	3.97	
RPMW1003MOEN						●	●				10	3.18	HITACHI
RPMW1003MO								●	●		10	3.18	ROSS

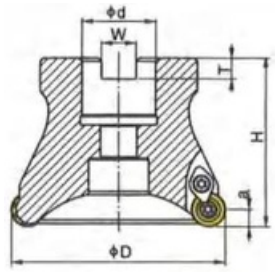
Circular blade cutting edge strength is high.
Series of products rich variety.
The most suitable mold materials processing.

◆◆EMRW Round dowel face mill



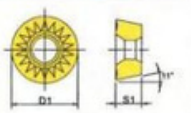
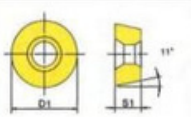


★ Using the 11° positive angle blade
★ Blade economy, the applicability of high
★ Capacity chip a large space, good chip disposal
★ Cone design, steel high



Cat. No	Size					
	D	d	H	W	T	a
EMRW-6R-50-22-4T	50	22	50	10.4	6.3	6
EMRW-6R-63-22-4T	63	22	50	10.4	6.3	6
EMRW-6R-80-27-6T	80	27	50	12.4	7	6
EMRW-6R-100-32-6T	100	32	50	14.4	8	6
EMRW-6R-125-40-7T	125	40	63	16.4	9	6
EMRW-6R-160-40-8T	160	40	63	16.4	9	6
EMRW-6R-200-60-9T	200	60	63	25.7	14	6
EMRW-6R-63-25.4-4T	63	25.4	50	10	6	6
EMRW-6R-80-25.4-6T	80	25.4	50	10	6	6
EMRW-6R-100-31.75-6T	100	31.75	50	13	8	6

Mating				
Cat. No	Insert	Clamp piece	Clamp screw	wrench
EMRW-6R	RPMW T 1204 MO	Y-6R	M4×10	T15

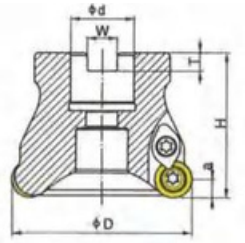
Cat. No	F7030	F620	VP15TF	NX4545	UT120T	TN100M	PR510	PR660	PR730	KW10	P201	Insert shape	(mm)Size D1	S1	
RPMT1204MOE-JS	●	●	●										12	4.76	MITSUBISHI
RPMT1204MO							●	●	●	●			12	4.76	KYOCERA
RPMT1204MO											●		12	4.76	ROSS
RPMV1204MOE 1204MOT	●	●	●	●	●								12 12	4.76 4.76	MITSUBISHI

◆◆R200 Round dowel face mill



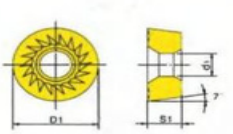


★ Adapter grinding blade Sandvik
★ High prevision, suitable for finishing
★ Cone design, steel high



Cat. No	Size					
	D	d	H	W	T	a
R20 0-5R -50-22 -4T	50	22	50	10.4	6.3	5
R20 0-5R -63-22 -4T	63	22	50	10.4	6.3	5
R20 0-5R -80-27 -6T	80	27	50	12.4	7	5
R200-5R-100-32-6T	100	32	50	14.4	8	5
R20 0-6R -50-22 -4T	50	22	50	10.4	6.3	6
R20 0-6R -63-22 -4T	63	22	50	10.4	6.3	6
R20 0-6R -80-27 -6T	80	27	50	12.4	7	6
R200-6R-100-32-6T	100	32	50	14.4	8	6
R20 0-8R -63-22 -4T	63	22	50	10.4	6.3	8
R20 0-8R -80-27 -5T	80	27	50	12.4	7	8
R200-8R-100-32-6T	100	32	50	14.4	8	8
R200-8R-125-40-6T	125	40	63	16.4	9	8
R200-8R-160-40-8T	160	40	63	16.4	9	8
R200-8R-200-60-9T	200	60	63	25.7	14	8
R200-10R-100-32-5T	100	32	63	14.4	8	10
R200-10R-125-40-6T	125	40	63	16.4	9	10

Mating				
Cat. No	Insert	Clamp piece	Clamp screw	wrench
R200 -5R	RC[T 10T3 MO	Y-5R	M3.5×8.5/M3.5×10	T15
R200 -6R	RC T 1204 MO	Y-6R	M4 × 10	T15
R200 -8R	RC[T 1606 MO	Y-8R	M5 × 12	T20
R200-10R	RC□T 2006 MO	Y-8R	M5×12 /M6×18	T20/T30

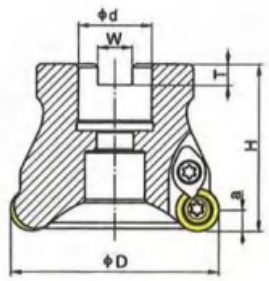
Cat. No	3020	3040	4020	4030	4040	P201	Insert shape	(mm) Size D1	d1	S	
RCKT10T3MO	●	●	●	●	●	●		10	4.0	3.97	
								10	4.0	3.97	
RCKT1204MO	●	●	●	●	●	●		12	4.0	4.76	ROSS
								12	4.0	4.76	
RCKT1606MO	●	●	●	●	●	●		16	5.5	6.35	SANDVIK
								16	5.5	6.35	
RCKT2006MO	●	●	●	●	●			20	5.5	6.35	
								20	5.5	6.35	

◆◆TRS Round dowel face mill



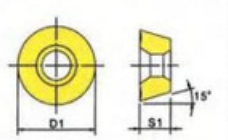


- ★ Using the 15° positive angle blade
- ★ Blade economy, the applicability of high
- ★ Capacity chip a large space, good chip disposal
- ★ Cone design, steel high



Cat. No	Size					
	D	d	H	W	T	a
TRS-5R-50-22-4T	50	22	50	10.4	6.3	5
TRS-5R-63-22-4T	63	22	50	10.4	6.3	5
TRS-5R-80-27-6T	80	27	50	12.4	7	5
TRS-5R-100-32-6T	100	32	50	14.4	8	5
TRS-6R-50-22-4T	50	22	50	10.4	6.3	6
TRS-6R-63-22-4T	63	22	50	10.4	6.3	6
TRS-6R-80-27-6T	80	27	50	12.4	7	6
TRS-6R-100-32-6T	100	32	50	14.4	8	6
TRS-8R-63-22-4T	63	22	50	10.4	6.3	8
TRS-8R-80-27-5T	80	27	50	12.4	7	8
TRS-8R-100-32-6T	100	32	50	14.4	8	8

Mating Cat. No				
	Insert	Clamp piece	Clamp screw	wrench
TRS-5R	RD[10T3 MO	Y-5R	M4X9/M3.5X10	T15
TRS-6R	RD 1204 MO	Y-6R	M4X10	T15
TRS-8R	RD 1604 MO	Y-8R	M5 X11 .5	T20

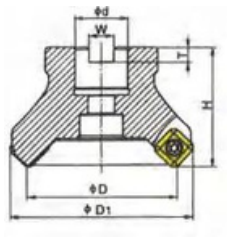
Cat. No	CY100H	CY15	CY25	CY150	CY250	GF30	TB6005	TB6020	TB6045	TB6060	P201	Insert shape	(mm) Size D1	S1	
RDMT10T3MOTN			●	●	●	●	●	●	●	●	●		10	3.97	HITACHI
10T3MOEN	●												10	3.97	
1204MOTN				●	●	●	●	●	●	●	●		12	4.76	
1204MOEN													12	4.76	
RDMT1604MOTN		●	●	●	●	●	●	●	●	●	●		16	4.76	ROSS
1604MOEN	●												16	4.76	

◆◆KM-45° face mill



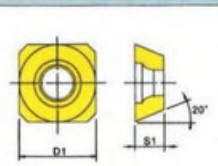


★ Fir steel, castings, aluminum pieces of various materials blade the relevance of a wide range of
★ Capacity chip a large space, good chip disposal
★ Planar milling finishing applicable
★ Large rake angle, cutting a small load



Cat. No	Size					
	D	D1	d	H	W	T
KM1 2-50 -22-4T	50	64	22	50	10.4	6.3
KM1 2-63 -22-4T	63	77	22	50	10.4	6.3
KM1 2-80 -27-5T	80	94	27	50	12.4	7
KM12-100-32-5T	100	114	32	50	14.4	8
KM12-125-40-6T	125	139	40	63	16.4	9
KM12-160-40-6T	160	174	40	63	16.4	9
KM12-200-60-8T	200	210	60	63	25.7	14
KM12-250-60-10T	250	260	60	63	25.7	14
KM1 2-63 -25.4 -4T	63	77	25.4	50	10	6
KM1 2-80 -25.4 -5T	80	94	25.4	50	10	6
KM12-100-31.75-5T	100	114	31.7 5	50	13	8

Cat. No	Insert	Clamp screw	wrench
KM12	SEHT 1204	M5X11	T20

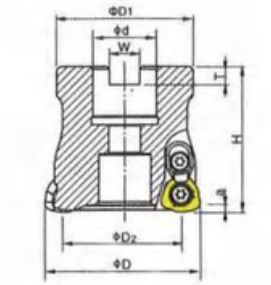
Cat. No	WAP25	WAP35	WTP35	WXP45	WPM	WXM35	WAK15	WAK25	WKM	WK10	P201F	P201	H101	Insert shape	(mm) Size D1	S1	
SEHT1204AFN		●	●	●		●				●					12.7	4.76	WALTER
1204AFN–K88										●					12.7	4.76	
SEHW1204AFN	●	●	●		●	●	●	●	●						12.7	4.76	
SEHT1204AFFN											●	●	●		12.7	4.76	ROSS

◆◆AJX High feedrate face mill



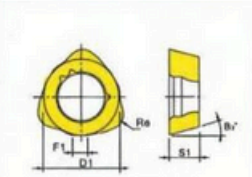


★ The use of 15° positive angle blade
★ Double clamping body rigidity
★ The most suitable for large-feed cutting
★ With standard cooling holes
★ 3 for special shaped blade edge angle



Cat. No	Size							
	D	D1	D2	d	H	W	T	a
AJX12-50-22-3T	50	47	38.3	22	50	10.4	6.3	1.5
AJX12-50-22-4T	50	47	38.3	22	50	10.4	6.3	1.5
AJX12-63-22-4T	63	60	51.3	22	50	10.4	6.3	1.5
AJX14-63-22-3T	63	60	51.1	22	50	10.4	6.3	2
AJX14-63-22-4T	63	60	51.1	22	50	10.4	6.3	2
AJX14-80-27-4T	80	76	68.1	27	50	12.4	7	2
AJX14-100-32-5T	100	96	88.1	22	50	14.4	8	2

Mating				
Cat.No	Insert	Clamppiece	Clampscrew	wrench
AJX12	JDMW120420ZDSR-FT	AJX-12	M4X10	T15
AJX14	JDMW140520ZDSR-FT	AJX-14	M5X12	T20

Cat. No	FH 7020	VP 15TF	VP 30RT	Insert shape	(mm) Size B3°	D1	S1	F1	Re	
JDMW 120420ZDSR-FT	●	●	●		15	12	4.76	5	2	
140520ZDSR-FT	●	●	●		15	14	5.56	5	2	
JDMT 120420ZDSR-ST	●	●	●		15	12	4.76	5	2	
120420ZDSR-JM	●	●	●		15	12	4.76	5	2	
140520ZDSR-ST	●	●	●		15	14	5.56	5	2	
140520ZDSR-JM	●	●	●		15	14	5.56	5	2	

MITSUBISHI

Low-speed, high feed
Cutting efficiency of an ordinary cutter round nose and face plate 3 times
Cone design, steel high

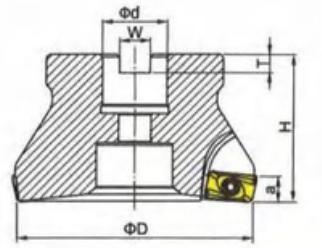
◆◆RAP-75°

RAP-45° Face mill



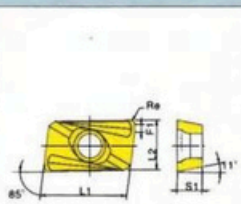


★ Abandoned the use of APMT1604 blade, cost savings



Cat. No	Size					
	D	d	H	W	T	a
RAP400R-63-22-4T	63	22	50	10.4	6.3	8
RAP400R-80-27-5T	80	27	50	12.4	7	8
RAP400R-100-32-6T	100	32	50	14.4	8	8
RAP400R-125-40-7T	125	40	63	16.4	9	8
RAP400R-160-40-8T	160	40	63	16.4	9	8
RAP400R-200-60-9T	200	60	63	25.7	14	8
RAP400R-250-60-10T	250	60	63	25.7	14	8

Cat. No	Insert	Clamp screw	wrench
RAP400R	APMT 1604 PDER	M4X10	T15

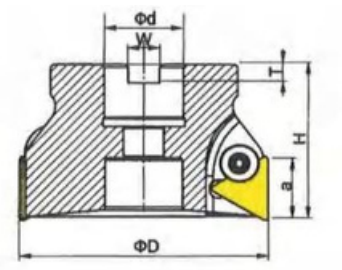
Cat. No	F7030	F620	VP15TF	UP20M	NX2525	NX4545	UT120T	HTI10	NCM325	PC3535	PC3545	PC2420	PC6510	PD2000	H01	Insert shape	(mm) Size L1	L2	S1	F1	Re	
APMT1604PDER–H1	●		●				●										16.5	9.525	4.76	1.7	0.4	MITSUBISHI
1604PDER–H2	●	●	●	●	●	●	●	●									16.5	9.525	4.76	1.7	0.8	
1604PDER–H4	●						●										16.5	9.525	4.76	1.7	1.6	
1604PDER–H6	●						●										16.5	9.525	4.76	1.7	2.4	
1604PDER–H8	●						●										16.5	9.525	4.76	1.7	3.2	
APMT1604PDER–M2	●	●	●			●											16.5	9.525	4.76	1.7	0.8	
APGT1604PFDR–G2								●									16.5	9.525	4.76	1.7	0.8	
APKT1604PDSR									●	●	●	●	●				16.4	9.525	4.76	–	0.8	KORLOY
1604PDFR–MA														●	●		16.4	9.525	4.76	–	0.8	

◆◆TP Right angle shoulder Face mill



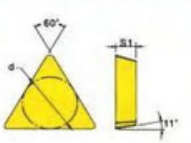


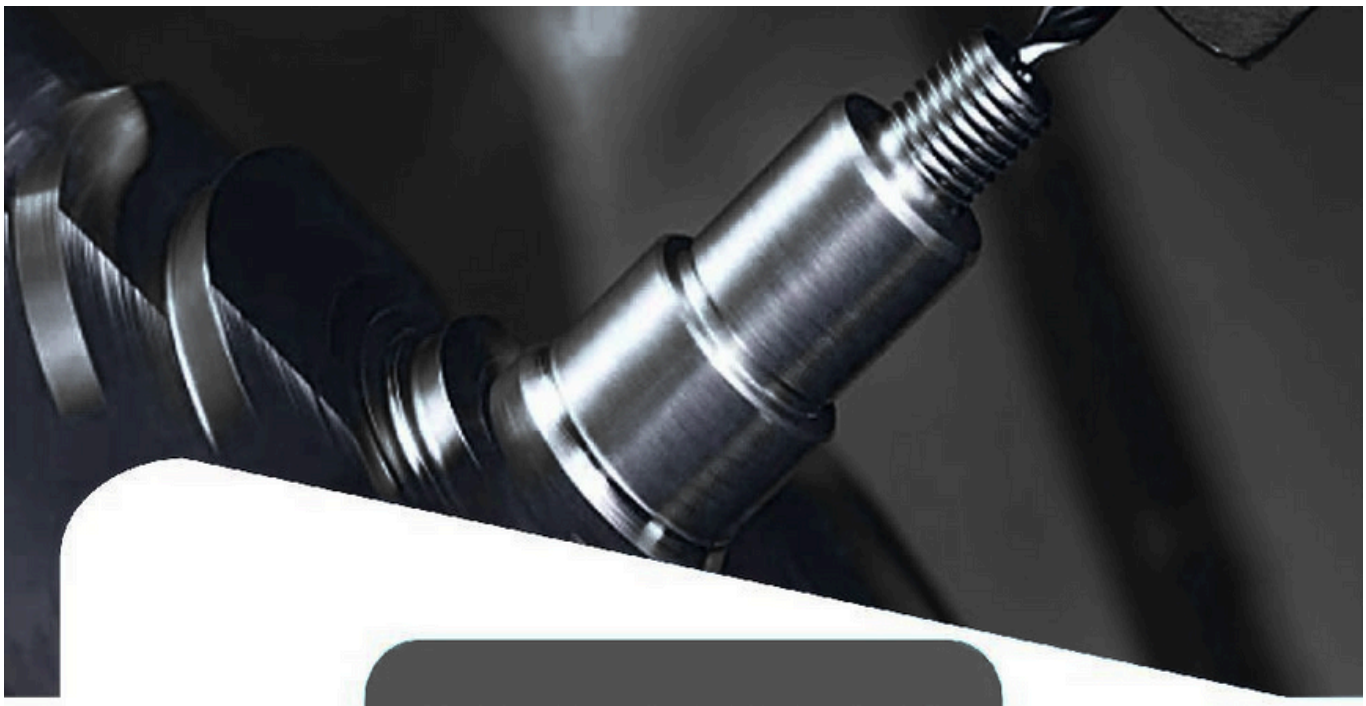
★ Equipped with a traditional blade, cutting low—cost



Cat. No	Size					
	D	d	H	W	T	a
TP1 1-40 -16-4T	40	16	45	8.4	5.6	9
TP1 1-50 -22-4T	50	22	50	10.4	6.3	9
TP1 1-50 -22-4T	50	22	50	10.4	6.3	14
TP1 1-63 -22-3T	63	22	50	10.4	6.3	18
TP1 1-80 -27-4T	80	27	50	12.4	7	18
TP11-100-32-5T	100	32	50	14.4	8	18
TP11-125-40-6T	125	40	60	16.4	9	18
TP11-160-40-7T	160	40	63	16.4	9	18
TP11-200-60-8T	200	60	63	25.7	14	18
TP1 1-63-2 5.4-3T	63	25.4	50	10	6	18
TP1 1-80-2 5.4-4T	80	25.4	50	10	6	18
TP11 -100 -31.7 5-5T	100	31.7 5	50	13	8	18
TP11-125-38.1-6T	125	38.1	60	16.2	10	18
TP11-160-38.1-7T	160	38.1	63	16.2	10	18
TP11-200-47.625-8T	200	47.62 5	63	25.4	14.3	18

Cat.No	Insert	Clamp piece	Clampscrew	wrench
TP11	TP N1103	TP-11	3/16	L3
TP16	TP N1603	TP-16	1/4	L4
TP22	TP N2204	TP-22	5/16	L5

Cat. No	UT120	NX2525	JC5015	P201	Insert shape	(mm) Size				
						d	S1			
TPKN1603PDR	●	●	●			9.525	3.18			MITSUBISHI
TPMN1603PDR	●	●	●	●		9.525	3.18			
TPKN2204PDR	●	●	●			12.7	4.76			
TPMN220408				●		12.7	4.76			ROSS
TPUN110308	●					6.35	3.18			
TPMN110308		●		●		6.35	3.18			



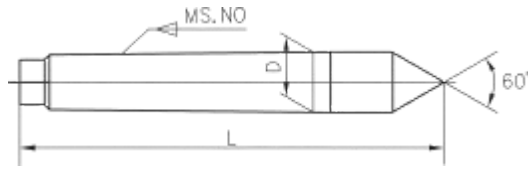
ACCESSORIES

TOOL SERIES



◆◆DEAD CENTER

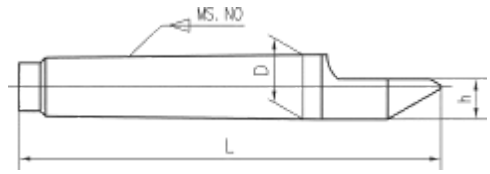




Model No.	MS. NO.	D m m	L m m	Wt(kg)	Accuracy(mm)
DG1	MS1	12.0 65	80	0.05 7	0.010
DG2	MS2	17.7 80	100	0.15 0	
DG3	MS3	23.8 25	125	0.33 4	
DG4	MS4	31.2 67	160	0.74 6	
DG5	MS5	44.3 88	200	1.86 2	
DG6	MS6	63.3 48	270	4.92 5	
DG7	MS7	83.0 61	360	8.62 0	

◆◆HALF-NOTCHED CENTER

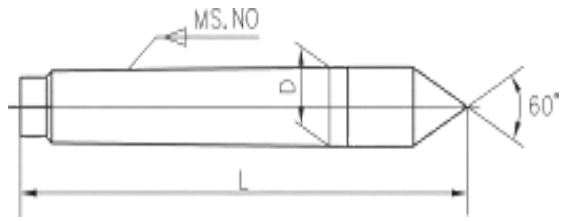




Model No.	MS. NO.	D m m	h m m	L m m	Wt(kg)	Accuracy(mm)
DH1	MS1	12.06 5	7.6	80	0.05 7	0.010
DH2	MS2	17.78 0	11	100	0.15 0	
DH3	MS3	23.82 5	15.0 5	125	0.33 4	
DH4	MS4	31.26 7	20.8	160	0.74 6	
DH5	MS5	44.3 88	29.3 5	200	1.86 2	
DH6	MS6	63.34 8	41.9	270	4.92 5	
DH7	MS7	83.06 1	53.7 8	360	8.62 0	

◆◆ CARBIDE CENTER

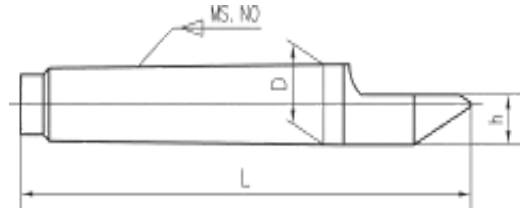




Model No.	MS. NO.	D m m	L m m	d m m	d1 mm	Wt(kg)	Accuracy (mm)
DE1	MS1	12.0 65	80	12.2	8	0.05 7	0.010
DE2	MS2	17.7 80	100	18	8	0.15 1	
DE3	MS3	23.8 25	125	24.1	12	0.33 5	
DE4	MS4	31.2 67	160	31.6	15	0.74 6	
DE5	MS5	44.3 88	200	44.7	18	1.82 6	
DE6	MS6	63.3 48	270	63.8	24	5.23 0	
DE7	MS7	83.0 61	360	83.5 55	24	9.19 0	

◆◆ CARBIDE HALF-NOTCHED CENTER

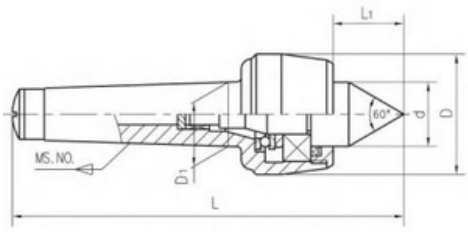




Model No.	MS. NO.	h1 mm	h m m	D m m	L m m	Wt (kg)	Accuracy (mm)
DHE1	MS1	1.5	5.5	12.0 65	80	0.06	0.010
DHE2	MS2	2	6	17.7 80	100	0.15	
DHE3	MS3	3	9	23.8 25	125	0.34	
DHE4	MS4	5	12.5	31.2 67	160	0.71	
DHE5	MS5	7	16	44.3 88	200	1.78	
DHE6	MS6	10	22	63.3 48	270	5.00	
DHE7	MS7	12	24	83.0 61	360	8.30	

◆◆PRECISION LIVE CENTER

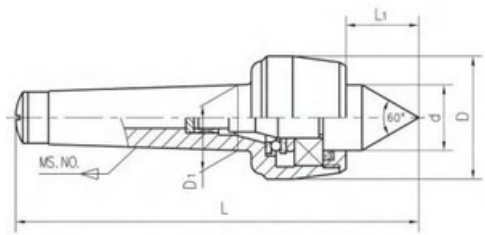




Model No.	MS. NO.	L mm	D mm	L1 mm	d mm	D1 mm	(kg) Max Load	(rpm) Max Speed	(mm) Accuracy
M11/101	MS1	124	36	27	15	12.0 65	80	7000	0.01
M11/102	MS2	139	45	34	20	17.7 80	140	7000	0.005
M11/106	MS3	176 .5	60	47	25	23.8 25	400	5000	0.005
M11/108	MS4	217	70	53	32	31.2 67	500	3800	0.005
M11/110	MS5	273	90	65	40	44.3 88	1200	3000	0.005
M11/114	MS6	354 .5	105	78	50	63.3 48	2500	2600	0.01

◆◆PRECISION LIGHT-DUTY LIVE CENTER

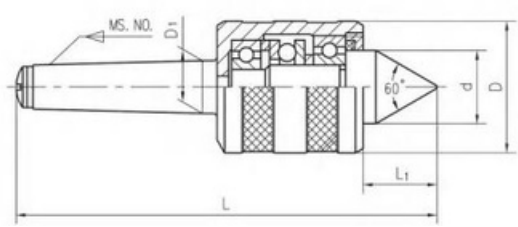




Model No.	MS. NO.	L mm	D mm	L1 mm	d mm	D1 mm	(N) Max Radial Load	(rpm) Max Speed	(mm) Accuracy
DM311	MS1	115	34	20.3	18	12.06 5	320	5000	0.00 5
DM312	MS2	129 .6	45	28.6	25	17.78 0	400	5000	0.00 6
DM313	MS3	161 .7	52	32.5	28	23.82 5	800	4500	0.00 6
DM314	MS4	191 .7	60	36.5	32	31.26 7	1250	3500	0.00 6
DM315	MS5	244 .5	80	50.8	45	44.3 88	1500	3000	0.00 6
DM316	MS6	350 .5	130	74.8	75	63.34 8	1800	2500	0.00 6
DM317	MS7	423 .5	130	74.8	75	83.06 1	2200	2000	0.00 6

◆◆MEDIUM-DUTY LIVE CENTER

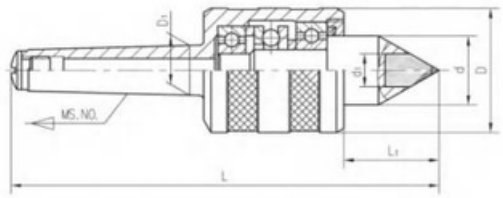




ModelNo.	MS. NO.	L mm	L1 mm	D mm	D1 mm	d mm	(N) Max Radial Load	(rpm) MaxSpeed	Wt(kg)	(mm) Accuracy
D411	MS1	115	20	34	12.065	18	900	5000	0.29	0.01
D412	MS2	145	26	45	17.780	25	1500	5000	0.70	0.01
D413	MS3	170	30	52	23.825	28	2000	4200	0.93	0.01
D414	MS4	205.7	34.7	60	31.267	32	3200	3200	1.70	0.01
D415	MS5	254	45	77	44.388	45	6300	2400	3.39	0.015
D416	MS6	362	68.5	125	63.348	75	10000	1600	12.00	0.015
D411L	MS1	125	30	34	12.065	18	900	5000	0.31	0.01
D412L	MS2	155	36	45	17.780	25	1500	5000	0.74	0.01
D413L	MS3	183	43	52	23.825	28	2000	4200	0.88	0.01
D414L	MS4	222	51	60	31.267	32	3200	3200	1.80	0.01
D415L	MS5	272	63	77	44.388	45	6300	2400	3.62	0.015
D416L	MS6	382	88.5	125	63.348	75	10000	1600	12.69	0.015

◆◆ CARBIDE MEDIUM-DUTY LIVE CENTER

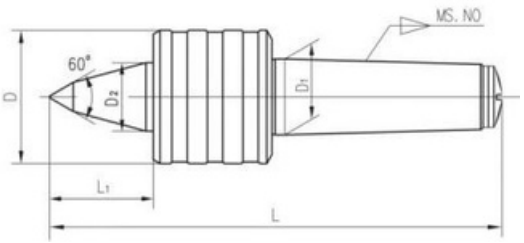




ModelNo.	MS. NO.	L mm	L1 mm	d mm	D mm	D1 mm	d1 mm	(N) Max Load	(rpm) Max Speed	(mm) Accuracy
D412A	MS2	145	26	25	45	17.780	12	1500	5000	0.01 0
D413A	MS3	170	30	28	52	23.825	15	2000	4200	0.01 0
D414A	MS4	205.7	34.7	32	60	31.267	18	3200	3200	0.01 0
D415A	MS5	254	45	45	77	44.388	24	6300	2000	0.01 5
D416A	MS6	362	68.5	75	125	63.348	40	1000 0	1600	0.01 5

◆◆ MEDIUM-DUTY LIVE CENTER(EXTENDED)

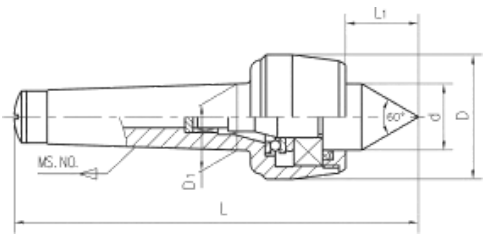




Model No.	MS.NO.	L1mm	Dmm	D1mm	D2mm	Lmm	Wt(kg)
D412B	MS2	28.5	40	17.78 0	18	141	0.84
D413B	MS3	36.5	45	23.82 5	22	168	0.91
D414B	MS4	36.5	45	31.26 7	22	190	1.62
D415B	MS5	62	78	44.3 88	40	267.5	3.43
D416B	MS6	75	102	63.34 8	50	346.5	11

◆◆ PRECISION HEAVY LIVE CENTER

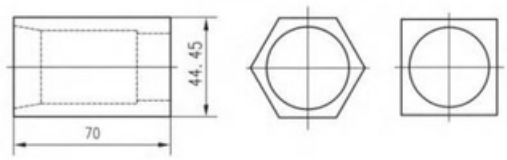




ModelNo.	MS. NO.	L mm	D mm	L1 mm	d mm	D1 mm	(N) MaxRadialLoad	(rpm) MaxSpeed	Wt(kg)	(mm) Accurac
DM511	MS1	109.6	38	18.5	16	12.065	1400	3600	0.29	0.00 8
DM512	MS2	128.5	48	24	22	17.780	3500	3400	0.39	0.01
DM513	MS3	156	58	28.5	25	23.825	5500	3200	1.09	0.01
DM514	MS4	192.5	68	31.5	28	31.267	8000	3000	1.69	0.01
DM515	MS5	245	90	45	41	44.388	10000	2500	4.00	0.01 2
DM516	MS6	342.5	130	64	63	63.348	15000	1500	11.61	0.01 5

◆◆5C FIXTURE





Main Technical Parameter	Outer Model(in)
Square for 5C collets	1-3/4×1-3/4×2-3/4
Hex for 5C collets	1-3/4 ×1-3/4 ×1-3/4 ×2-3/4
Quick acting lever collet closer	1-11/16×4
Wt(kg)	1.41kg

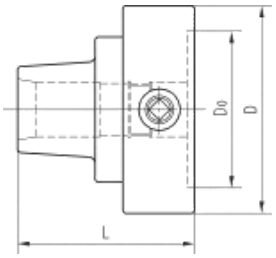
Każdy zestaw pakowany w drewnianą skrzynkę zawiera 1 sztukę zestawu kwadratowego, 1 sztukę zestawu sześciokątnego, 1 sztukę szybko zaciskającego uchwytu oraz 1 sztukę zestawu blokującego.

Complete set in wooden case consists of one square block,one hex block,one handle and one collet close

◆◆5C FIXTURE







Model No.		3911-125-5C-00	
Clamping rang	Round	1~28mm	3/64"~1-1/8"
	Square	3~19mm	1/8"~3 /4"
	Hex	3~22mm	1/8"~7 /8"
D(mm)		126	
D0 (mm)		95	
L(mm)		107. 2	
Wt(kg)		4.5	

Urządzenie współpracuje z uchwytem 5C, umożliwiając mocowanie narzędzi lub przedmiotów o różnych średnicach. Może być montowane na tokarkach, szlifierkach oraz innych specjalistycznych urządzeniach. Charakteryzuje się wysoką precyzją, łatwością obsługi, bezpieczeństwem użytkowania oraz pewnym mocowaniem.

5C collet is fit for this device,which can clamp tool or workpiece with different diameter and figure.It can be fixed on lathe, grinder and other special equipment,with such features as high precision,easy operation,safe application,strong clamping,etc

◆◆ QUICK CHANGE TOOL POSTS



Szybkomocujący uchwyt narzędziowy jest głównym akcesorium tokarki konwencjonalnej, składającym się z jednego uchwytu narzędziowego i kilku zacisków narzędziowych. W zależności od potrzeb obróbki przedmiotu, wybiera się odpowiedni zacisk narzędziowy, co pozwala na toczenie powierzchni zewnętrznych, czołowych, rowków, przecinanie, radełkowanie, wiercenie, rozwiercanie i wytaczanie. Umożliwia on montaż narzędzi poza maszyną, a zaciski narzędziowe są montowane na uchwycie narzędziowym za pomocą jaskółczego ogona, co charakteryzuje się szybkim wymienianiem narzędzi, wysoką precyzją pozycjonowania i dużą sztywnością. Jest to idealny produkt do szybkiego toczenia, zastępujący tradycyjny czteropozycyjny uchwyt narzędziowy.

The quick change tool post is a main accessory of the machine tool,it is consist of tool post and many kinds of tool holders,according to the processing requirements of the workpieces,corresponding tool holders are selected to finish cylindrical facing,end facing,cutting,drilling,reaming, boring as well as other rocessing.It realizes to mount tool outside the machine tool,it has exchange tool quickly,high precision, rigidity strong etc.It is satisfactory accessories in place of square turrets.

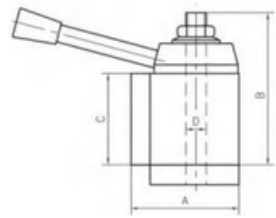
Piston Type Tool Post Sets: 1 Tool Post, 5 Tool-holders

Model	EACH SET INCLUDES	N.W/kg
250-100-00	250-100、250-101、250 -102 、 250 -104 、 250-1 07、 250-110	5.00
250-200-00	250-200、250-201、250 -202 、 250 -204 、 250-2 07、 250-210	7.85
250-300-00	250-300、250-301、250 -302 、 250 -304 、 250-3 07、 250-310	11.33
250-400-00	250-400、250-401、250 -402 、 250 -404 、 250-4 07、 250-410	20.76

Wedge type Tool Post Sets: 1 Tool Post, 5 Tool-holders

Model	EACH SET INCLUDES	N.W/kg
250 -111-0 0	250-111 、 250-101、250-1 02 、 250 -104 、 250-10 7 、 250-110	5.00
250 -222-0 0	250-222 、 250-201、250-2 02 、 250 -204 、 250-20 7 、 250-210	7.85
250 -333-0 0	250-333 、 250-301、250-3 02 、 250 -304 、 250-30 7 、 250-310	11.33
250 -444-0 0	250-444 、 250-401、250-4 02 、 250 -404 、 250-40 7、 250-410	20.76

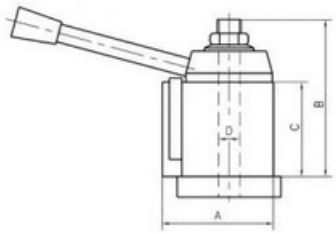




Model	A(in)	B(in)	C(in)	D(in)	Swing dia(in)	Wt(kg)
250-100	2-1/2	3-7/8	2-1/4	9/16	12	2.23
250-200	3	4-5/8	2-3/4	5/8	10-15	4.00
250-300	3-3/8	5-1/8	3	3/4	13-18	5.72
250-400	4	6-1/4	3-5/8	7/8	14-20	10.0 0

◆◆ GIB TYPE TOOL POST

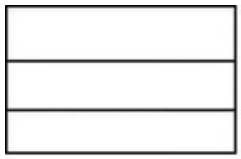


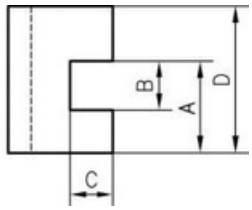


Model	A(in)	B(in)	C(in)	D(in)	Swing dia(in)	Wt(kg)
250-111	2-1/2	3-7/8	2-1/4	9/16	12	2.23
250-222	3	4-5/8	2-3/4	5/8	10-15	4.00
250-333	3-1/2	5-1/8	3	3/4	13-18	5.72
250-444	4	6-1/4	3-5/8	7/8	14-20	10.0 1

◆◆ TURNING AND FACING HOLDER



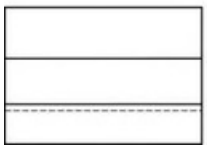


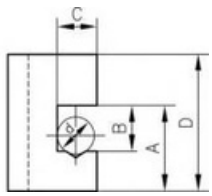


Model	A(in)	B(in)	C(in)	D(in)	Tool bit range(in)	Wt(kg)
250-101	1	1/2	29/64	1-1/2	3/16-1/2	0.40
250-201	1-1/8	5/8	1/2	1-3/4	1/4-5/8	0.70
250-301	1-7/16	3/4	5/8	2-1/8	1/2-3/4	1.11
250-401	1-23/32	1	3/4	2-1/2	1/2-1	1.75

◆◆ TURNING AND FACING HOLDER







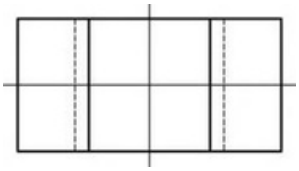
Model	A(in)	B(in)	C(in)	D(in)	Tool bit range(in)	Wt(kg)
250-102	1	1/2	29/64	1-1/2	3/16-1/2	0.40
250-202	1-1/8	5/8	1/2	1-3/4	1/4-5/8	0.70
250-302	1-7/16	3/4	5/8	2-1/8	1/2-3/4	1.11
250-402	1-23/32	1	3/4	2-1/2	1/2-1	1.75

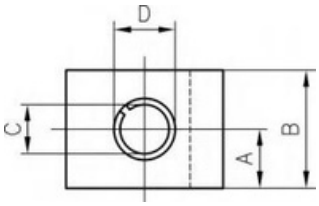
Rowek w kształcie litery V służy do mocowania trzpieni wytaczarskich oraz narzędzi o okrągłym trzonku, a także może być używany do montażu noży tokarskich o przekroju kwadratowym, umożliwiając wykonywanie obróbki czołowej, zewnętrznej oraz wytaczania otworów.

V groove hold round shank boring bars and tools as well as square tool bits to machineendface,external,cutting,boring etc.

◆◆ HEAVY DUTY BORING BAR





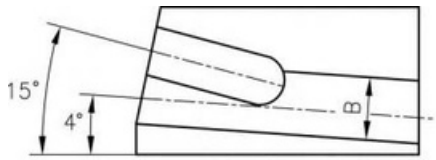


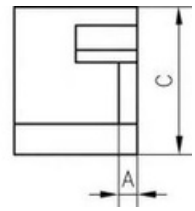
Model	A(in)	B(in)	C(in)	D(in)	Wt(kg)
250-104	3/4	1-1/2	5/8	3/4	0.90
250-204	7/8	1-3/4	3/4	1	1.52
250-304	1	2	3/4	1	2.16
250-404	1-1/4	2-1/2	1	1-1/4	3.47
250-141	7/8	1-3/4	3/4	1	1.35
250-241	1	2	1	1-1/4	2.12
250-341	1-1/8	2-1/4	1	1-1/4	3.05
250-441	1-3/8	2-3/4	1-1/4	1-1/2	4.35

Używając wierteł prostych i narzędzi o okrągłym trzonku, można wykonywać wiercenie, rozwiercanie i wytaczanie otworów. Poprzez zastosowanie tulei rozprężnych, można dostosować średnicę trzpienia wytaczarskiego. Charakteryzuje się dobrą sztywnością, co zapobiega drganiom podczas cięcia.

◆◆ UNIVERSAL PARTING BLADE TOOL HOLDER







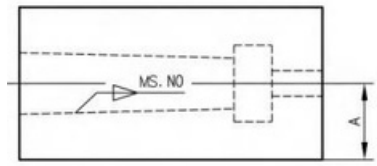
Model	A(in)	B(in)	C(in)	Blade height(in)	Wt(kg)
250-107	3/16	1/2	1-1/2	1/2	0.53
250-207	3/16	11/16	1-3/4	11/16	0.90
250-307	3/16	3/4	2	3/4	1.20
250-407	1/4	7/8	2-1/2	7/8	1.82

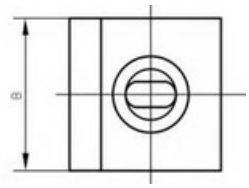
Montaż noża tokarskiego o przekroju kwadratowym pozwala na wykonywanie operacji takich jak rowkowanie i przecinanie.

Use square tool to make slot cut off etc

◆◆ MORSE TAPER HOLDER FOR DRILLING







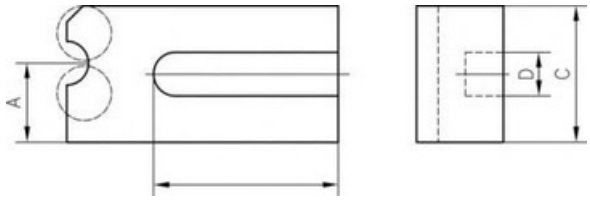
Model	A(in)	B(in)	MS.NO	Wt(kg)
250-105	3/4	1-1/2	MS2	0.90
250-205	7/8	1-3/4	MS2	1.40
250-305	1	2	MS3	2.30
250-405	1-1/4	2-1/2	MS3	3.00
250-153	7/8	1-1/2	MS3	1.00
250-253	1	1-3/4	MS3	1.43
250-354	1-1/16	2-1/8	MS4	2.45
250-454	1-1/4	2-1/2	MS4	3.30

Wiertła mogą być zamocowane w suportach z napędem mechanicznym zamiast w koniku, co ułatwia centrowanie wierteł cylindrycznych lub stożkowych Morse'a.

Drills with carriage by using power feed instead of tail stock easily centered or morse taper drills

◆◆KNURNING & FACING HOLDER





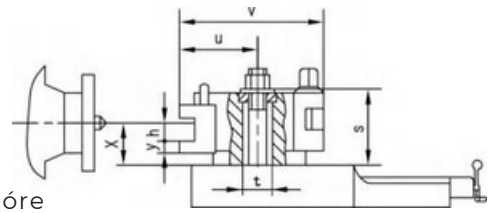
Model	A(in)	B(in)	C(in)	Clamping range(in)	Tool bit range(in)	Wt(kg)
250-110	7/8	2-1/2	1-9/16	3/16-1/2	3/4× 3/8× 1/4	0.48
250-210	1	2-5/8	1-3/4	1/4-5/8		0.85
250-310	1-3/16	3-1/8	2	1/2-3/4		1.15
250-410	1-7/16	3-3/4	2-1/2	1/2-1		1.95

Może być używany do radełkowania, a przy użyciu noża tokarskiego o przekroju kwadratowym można wykonywać obróbkę czołową, toczenie zewnętrzne, wytaczanie itp.

It may be used for knuring,if square tool is used,it may process end face,extered cutting,boring etc.

◆◆40–POSITION QUICK CHANGE TOOL POST AND TOOL HOLDERS

1. Uchwyt z ryglem wypukłym pewnie blokuje i szybko uwalnia trzymak narzędzi, co sprawia, że obsługa jest prosta.
2. Specjalne śruby służą do regulacji wysokości ostrza tnącego.
3. Narzędzie można wielokrotnie ostrzyć bez konieczności przesuwania trzymaka narzędziowego ani regulacji zestawu narzędziowego.
4. Istnieje 40 różnych kątów (co 9° jeden krok), które można łatwo odczytać z linii podziałki.



5. Jest on zamienny z 40-pozycyjnymi uchwytami narzędziowymi do szybkiej wymiany narzędzi oraz uchwytami narzędziowymi innych marek.

1. Cam-lock handle rigidity locks & quickly releases tool holder
2. Correct height of cutting edage is easily & accurately adjusted by special set screws
3. Tools can be reground without removal form tool holder setting remains unaltins unaltered
4. 40 different angles(every 9°)are conveniently selected from position dials with marker
5. Holders are interchangeable with most other brand 40 position tool post

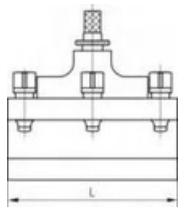
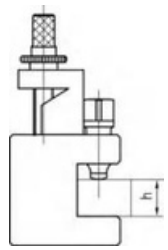
Model	回转直径 Lathe Swing	Xmin	Xmax	y	h	v	s	u	t
Aa	120-220	18	26	6	12	62.5	37	33.7 5	13
A	150-300	25.5	36.5	9.5	16	104	55	52.4	20
		29.5	40.5		20				
E	200-400	29	40	9	20	132	68	65.3	20
		34	43		25				
B	300-500	38	58	13	25	152	77	75	32
		46	57	14	32				
C	400-700	47	88	15	32	191	107	92	40
		55	92	15	40	202		102	
		63	91	18	45	202		102	

5-PIECE SET



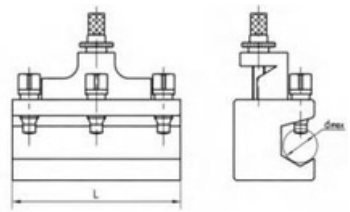
Model	EACHSETINCLUDES	N. W/ kg
Aa-00	1Pcs Aa、3Pcs AaD12X50 and 1pcs AaH12X50	1.13
A-00	1Pcs A、3Pcs AD20X90 and 1pcs AH20X90	3.60
E-00	1Pcs E、3Pcs ED20X100 and 1pcs EH30X100	7.50
B-00	1Pcs B、3Pcs BD25X120 and 1pcs BH32X130	11.8 0
C-00	1Pcs C、3Pcs CD32X150 and 1pcs CH40X160	23.7 0

◆◆ TURNING AND FACING TOOL HOLDER

Model	h(mm)	L(mm)	Model	h(mm)	L(mm)
AaD12X50	12	50	BD25X140	25	140
AD16X75	16	75	BD32X120	32	120
AD16X90	16	90	BD32X140	32	140
AD20X75	20	75	CD32X150	32	150
AD20X90	20	90	CD32X170	32	170
ED20X100	20	100	CD40X150	40	150
ED25X100	25	100	CD40X170	40	170
BD25X120	25	120	CD45X170	45	170

◆◆ TURNING AND FACING TOOL HOLDER

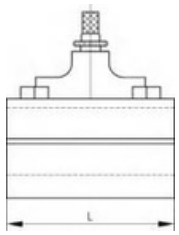
Model	dmax(mm)	L(mm)
AaH12X50	12	50
AH20X90	20	90
EH3 0X1 00	30	100
BH30X130	30	130
BH32X130	32	130
CH35X150	35	150
CH40X160	40	160

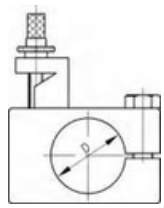
Rowek w kształcie litery V służy do trzymania wiertła o okrągłym trzonku oraz narzędzi. Można również zamontować noże tokarskie o przekroju kwadratowym w celu wykonywania obróbki czołowej, zewnętrznej, wytaczania otworów itp.

V groove hold round shank boring bars and tools as well as square tool bits to machine end face, external,cutting, boring etc.

◆◆ HEAVY DUTY DRILLING AND BORING TOOL HOLDER



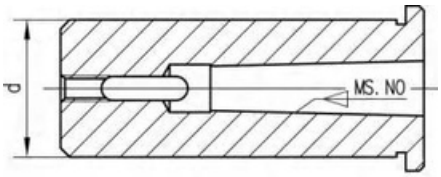




Model	D(mm) Boring Bar Dia	L(mm)	Model	D(mm) Boring Bar Dia	L(mm)
AaJ15X50	15	50	BJ40 X12 0	40	120
AJ30X80	30	80	CJ40X160	40	160
EJ30X100	30	100	CJ50X160	50	160
EJ40X100	40	100			

◆◆ MS BUSHINGS FOR BORING TOOL HOLDER

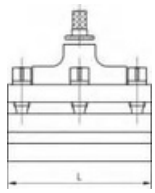


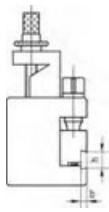


Model	d	MS.NO.	Type of tool post
AL-1-30	30	MS1	A、E
AL-2-30	30	MS2	A、E
BL-1-40	40	MS1	B
BL-2-40	40	MS2	B
BL-3-40	40	MS3	B、C、E
BL-4-40	40	MS4	B、C、E
CL-3-50	50	MS3	C
CL-4-50	50	MS4	C
CL-5-50	50	MS5	C

◆◆ CUTTING OFF TOOL HOLDER







Model	bXh(mm)	L(mm)	Model	bXh(mm)	L(mm)
AT-K3X10X75	3X10	75	BT-K4X16X120	4X16	120
ET-K4X16X100	4X16	100	CT-K5X20X150	5X20	150

◆◆ TURNNING & FACING HOLDER



Model	Max Square and Rectangular Tools
502 -M	16
502-AR-AP	16
502 -A	20
502-BR-BP	25
502 -B	32
502-C	32
502 -D	40

◆◆ TURNNING BORING AND FACING HOLDER



Model	Max Holding Dia.
503 -M	14
503-AR-AP	16
503 -A	18
503-BR-BP	20
503 -B	24
503 -C	26
503-D	35

◆◆ MORSE TAPER HOLDER FOR DRILLING



Model	Morse Taper
504-M	MT1
504-AR-AP	MT1
504-A	MT2
504-BR-BP	MT3
504 -B	MT3
504-C	MT4
504 -D	MT5

◆◆ HEAVY DRILLING AND BORING HOLDER



Model	Max Holding Dia.
540-M	18
540-AR-AP	20
540 -A	25
540-BR-BP	32
540 -B	40
540-C	50
540 -D	60

◆◆切断刀夹 TOOL HOLDER FOR PARTING BLADES

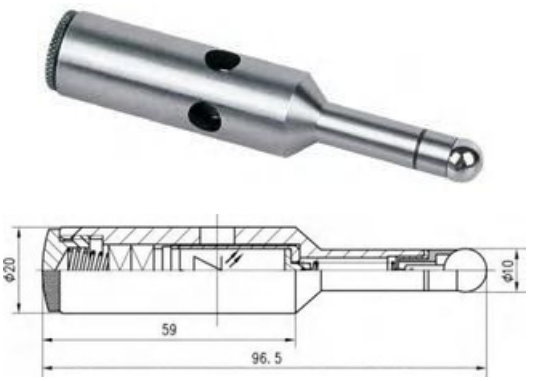


Model	Parting blade
540-M	15X4 X3
550-AR-AP	18X4 X3
550-A	20X6 X5
550-BR-BP	20X6 X5
550 -B	25X6 X5
550 -C	30X6 X5
550 -D	35X8 X7

◆◆ELECTRONIC EDGE FINDER

MECHANICAL EDGE FINDER

1. Touch point LED indication
2. Manufactured from high quality alloy steel
3. Hardened and precision ground
4. Concentricity 0.01mm



1. Wskaźnik LED punktu dotykowego
2. Wykonane z wysokiej jakości stali stopowej
3. Hartowane i precyzyjnie szlifowane
4. Koncentryczność 0,01 mm

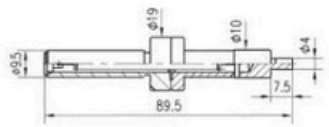
MECHANICAL EDGE FINDER

1. Używane do ustawiania i pozycjonowania powierzchni łukowych i płaskich
2. Wykonane z wysokiej jakości stali
3. Łatwe w użyciu
4. Dokładne i szybkie ustawianie
5. Współosiowość 0,005 mm

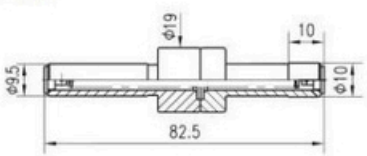
2. Manufactured from high quality steel
3. Easy to use
4. Quick and accurate
5. Concentricity 0.005mm



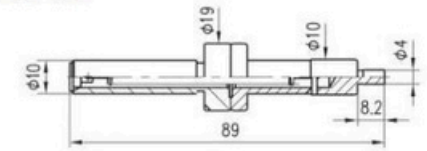
CBQ–00A



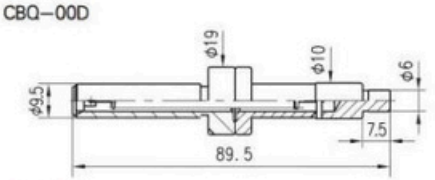
CBQ–00B



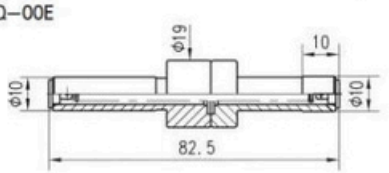
CBQ–00C



CBQ–00D

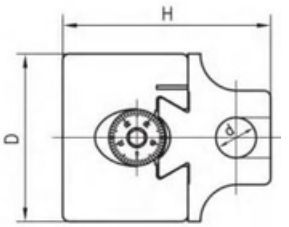


CBQ–00E



◆◆F1 TYPE F1 BORING HEADS



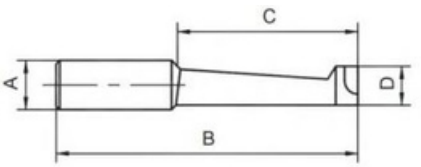


Model	D mm	H mm	Max offset	d Boring bor dia	Min graduation	Dia of Bring
F1-1/2	50	61.6	5/8〃	1/2〃	0.00 1〃	3/8〃5 〃
F1-3/4	75	80.2	1〃	3/4〃	0.00 05〃	1/2〃9 〃
F1-1	100	93.2	1-5/8〃	1〃		5/8〃12.5 〃
F1-12	50	61.6	16mm	12mm	0.01mm	10-125mm
F1-18	75	80.2	25mm	18mm		12-225mm
F1-25	100	93.2	41mm	25mm		15-320mm

The borer is to be purchased specially

◆◆ CARBIDE TIPPED BORING BARS



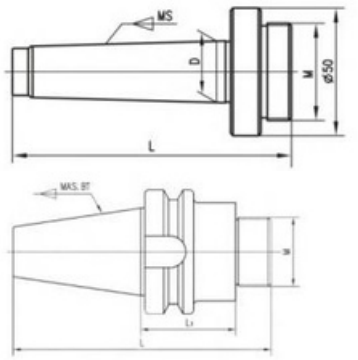


Model		B mm	C mm	D mm
CaseIron	Steel			
375-3732	375-3736	103.90	45.34	10.50
375-3742	375-3746	116.77	58.39	14.06
375-3752	375-3756	129.10	71.39	17.27
375-3762	375-3766	142.03	85.15	20.73
375-3772	375-3776	154.00	96.12	24.72
375-3782	375-3786	168.00	111.63	27.88
375-5002	375-5006	6Pieceset of above \ wooden stand		

Model		B mm	C mm	D mm
Case Iron	Steel			
375-1812	375-1816	103.90	45.34	10.50
375-1822	375-1826	116.77	58.39	14.06
375-1832	375-1836	129.10	71.39	17.27
375-1842	375-1846	142.03	85.15	20.73
375-1852	375-1856	154.00	96.12	24.72
375-1862	375-1866	168.00	111.63	27.88
375-1804	375-1808	6Piecesetof above \ wooden stand		

◆◆ F1 BORING SHANK





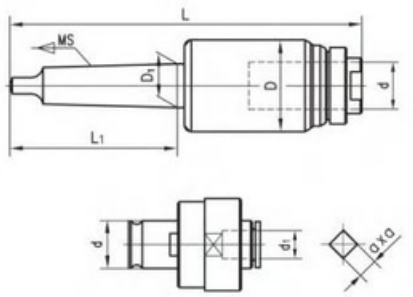
Model	Sh a nk	L(mm)	M	Model	Sh a nk	L(mm)	M
F1-MS2W	MS2	93	7/8〃-20 1-1/2〃-18	F1-ISO40	ISO40	135	7/8〃-20 1-1/2〃-18
F1-MS2		108		F1-ISO50	ISO50	168	
F1-MS3W	MS3	110		F1-5/8	5/8〃	97	
F1-MS3		128		F1-3/4	3/4〃	112	
F1-MS4W	MS4	133		F1-7/8	7/8〃	127	
F1-MS4		154		F1-1	1〃	137	
F1-MS5W	MS5	160		F1-1-1/4	1-1/4〃	167	
F1-MS5		186		F1-1-1/2	1-1/2〃	197	
F1-MS6W	MS6	214		F1-1-3/4	1-3/4〃	227	
F1-MS6		248		BT40X7/8"-20-45	BT40	122. 4	
F1-R8	R8	132 .5		DIN69871.A40X7/8"-20-40	DIN69871.40	120. 4	
F1-ISO30	ISO30	102		CT40X7/8"-20-50	CT40	130	

◆◆ J41 TAPPING CHUCK

To urządzenie składa się z uchwytu do gwintowników i tulei zaciskowych. Uchwyt posiada urządzenie kompensujące skok gwintu.
Uchwyt tulei ma urządzenie ochrony przed przeciążeniem momentu obrotowego, które zapobiega łamaniu gwintownika. Aby uzyskać różne momenty zwalniania dla gwintowników o różnych średnicach, wystarczy wyregulować nakrętki. Urządzenie to jest najbardziej odpowiednie do pracy z gwintownikami na wiertarkach, tokarkach, wytaczarkach, frezarkach oraz centrach obróbczych CNC i innych.

This device is consisted of a tap chuck and tap collets.The chuck has compensating device for thread pitch. Collet chuck has overload torque protection device,which avoid tap breaking.In order to get the different release torques for different diameter taps,just adjust nuts.This device is most applicable to tap working on drill, lathe,boring machine,milling machine and CNC machine center and so on.





Model	Shanktaper	D mm	D1 mm	dmm	L1 mm	L mm	Tapping range	TorqueNm	Wt(kg)
J4112-MS2	MS2	46	17.780	19	75	171.5	M3-M12	25	1.08
J4112-MS3	MS3		23.825		94	191			1.28
J4112-MS4	MS4		31.267		117.5	216			3.00
J4116-R8	R8		31.75		101.6	193.6	M3-M16	46.3	1.71
J4116-MS2	MS2		17.780		75	171.5			1.08
J4116-MS3	MS3		23.825		94	191			1.61
J4116-MS4	MS4		31.267		117.5	216			3.00
J4124-MS3	MS3	66	23.825	30	94	227	M12-M24	150	3.20
J4124-MS4	MS4		31.267		117.5	252			3.60
J4124-MS5	MS5		44.388		149.5	284			4.50

Tapping range	M3	M4	M5	M6	M8	M10	M12
67 d1×a(mm)	4×3	4×3	5×3.8	6×5	6×5	8 ×6.3	9×7.1
83 d1×a(mm)	2.24×1.8	3.15×2.5	4×3.15	4.5 ×3.55	6.3× 5	8 ×6.3	9×7.1
Tapping range	M12	M14	M16	M18	M20	M22	M24
67 d1×a(mm)	9×7.1	10.5×8	12.5×10	14×11	16 ×12	18× 14.	2 × 16
83 d1×a(mm)	9×7.1	11.2×9	12.5×10	14× 11.2	14×11.2	16× 5	0 × 14
						12. 5	1 8

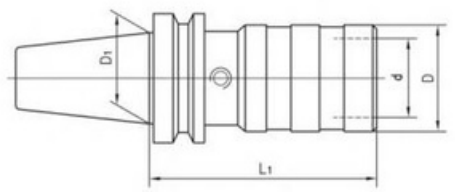
◆◆J45 TAPPING CHUCK

This unit is consisted of chuck and tap collet.The chuck has installed compensating device for thread pitch.There are two different tap collets,one with overload protection and one without. When using the tap collet with overload protection,the protection device can automatically release to avoid tap-break.Just adjust nuts and you can get the different release torque quickly and conveniently.

To urządzenie składa się z uchwytu i tulei do gwintowników. Uchwyt jest wyposażony w urządzenie kompensujące skok gwintu.

Skok gwintu. Istnieją dwa rodzaje tulei do gwintowników: jedna z ochroną przed przeciążeniem, a druga bez niej. Przy użyciu tulei z ochroną przed przeciążeniem, urządzenie ochronne może automatycznie się zwolnić, aby zapobiec złamaniu gwintownika. Wystarczy wyregulować nakrętki, aby szybko i wygodnie uzyskać różne momenty zwalniania.



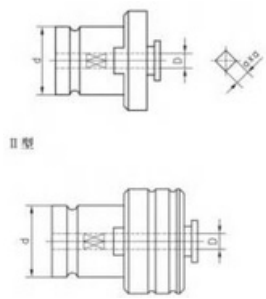


Model No.	Shank	Tapping range	D(mm)	D1(mm)	d(mm)	L1(mm)
D30-12	DIN698 71. 30	M3~ M12	36	31.7 5	19	59
D40-12	DIN698 71. 40			44.4 5		
D50-12	DIN698 71. 50			69.8 5		62
B30-12	BT30			31.7 5		59
B40-12	BT40			44.4 5		64
B50-12	BT50			69.8 5		75
D30-20	DIN698 71. 30	M7~ M20	53	31.7 5	31	97
D40-20	DIN698 71. 40			44.4 5		
D50-20	DIN698 71. 50			69.8 5		
B30-20	BT30			31.7 5		
B40-20	BT40			44.4 5		
B50-20	BT50			69.8 5		
D30-36	DIN698 71. 30	M14~ M36	78	31.7 5	48	149
D40-36	DIN698 71. 40			44.4 5		
D50-36	DIN698 71. 50			69.8 5		
B30-36	BT30			31.7 5		
B40-36	BT40			44.4 5		
B50-36	BT50			69.8 5		

◆◆ J45 TAPPING COLLET





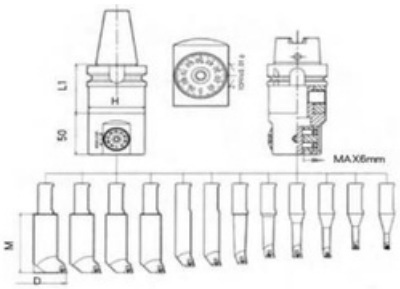


Model No.	ISOD ×a	DIN371 D×a	DIN376 D×a	JIS D ×a	d(mm)	
M2	2.8×2.25	2.8× 2.1	2.5× 2.1	3 ×2.5	19	
M3(1/8)	3.15 ×2.5	3.5× 2.7		4 ×3.2		
M4(5/32)	4 ×3.15	4.5× 3.4		5×4		
M5(3/16)	5×4	6 ×4.9		5.5 ×4.5		
M6(1/4)	6.3× 5	6 ×4.9		6 ×4.5		
M8(5/16)	6.3× 5	8 ×6.2	6×4.9	6.2 ×5		
M10(3/8)	8× 6.3	10×8	7×5.5	7 ×5.5		
M12	9× 7.1		9×7	8.5 ×6.5		31
1/2"	9× 7.1		9×7	9×7		
M14(9/16)	11.2 × 9		11×9	10.5 ×8		
M16	12.5 × 10		12×9	12.5 ×10		
5/8"	12.5 × 10		12×9	12×9		
M18(3/4)	14 ×11.2		14 ×11	14 ×11		
M20	14 ×11.2		16 ×12	15 ×12		
M22(7/8)	16 ×12.5		18 ×14.5	17 ×13		
M24	18× 14		18 ×14.5	19 ×15	48	
M27 (1")	20× 16		20 ×16	20 ×15		
M30	20× 16		22 ×18	23 ×17		
M33	22.4 × 18		25 ×20	25 ×19		
M36	25× 20		28 ×22	28 ×21		
PT1/16 -28				8×6	19	
PT1/8-28				8×6		
PT1/4-19				11×9	31	
PT3/8-19				14×11		
PT1/2-14				18×14		
PT3/4-14				23×17	48	

1. Ten uchwyt typu II jest wyposażony w wewnętrzne urządzenie ochrony przed przeciążeniem, z regulowanym momentem obrotowym.
2. Przy składaniu zamówienia proszę podać specyfikację, średnicę trzonka d oraz typ, na przykład: 19-3.5×2.7-II.
1. With overload protection device inside the chucks torque adjustable
2. Show the specification in the order,with diameter of shank in the form as 19-3.5×2.7- II

◆◆NBJ16 MICRO BORING SYSTEM







Model		D	Suitable shank model	L1	H
8pcs (standard)	BT40-NBJ16-8P	8-50	BT40-ZE60-60	60	60
	BT50-NBJ16-8P		BT50-ZE60-75	75	
	SK40-NBJ16-8P		SK40-ZE60-65	65	
	SK50-NBJ16-8P		SK50-ZE60-75	75	
	DIN2080.40-NBJ16-8P		DIN2080.40-ZE60-60	60	
	DIN2080.50-NBJ16-8P		DIN2080.50-ZE60-75	75	
	HSK.A63-NBJ16-8P		HSK.A63-ZE60-75	75	
	HSK.A100-NBJ16-8P		HSK.A100-ZE60-75	75	60
12pcs	BT40-NBJ16-12P	6-55	BT40-ZE60-60	60	
	BT50-NBJ16-12P		BT50-ZE60-75	75	
	SK40-NBJ16-12P		SK40-ZE60-65	65	
	SK50-NBJ16-12P		SK50-ZE60-75	75	
	DIN2080.40-NBJ16-12P		DIN2080.40-ZE60-60	60	
	DIN2080.50-NBJ16-12P		DIN2080.50-ZE60-75	75	
	HSK.A63-NBJ16-12P		HSK.A63-ZE60-75	75	
	HSK.A100-NBJ16-12P		HSK.A100-ZE60-75	75	

Powyższe specyfikacje dotyczą całego zestawu, ale można również zamówić osobno uchwyt narzędziowy i trzonek. Proszę podać dokładną specyfikację przy składaniu zamówienia!!

The above specification is a tool packge, a single order for heads or shanks is also

◆◆PB150 PRECISION PARALLEL BLOCK

1.Hardeness： HRC55~62

2 . Accuracy： 0. 0 1 mm

3 .Parallelism： 0.005mm



Order No.	L× W× H	件数 Pcs
PB150-1	150×10× 14(16,18,20,22,24,26,28,30, 32,35,40,45,50)	14×2
PB150-2	150× ×8 14(16,18,20,22,24,26,28,30, 32,35,40,45,50)	14×2
PB150-3	80×4× 14(16,18,20,22,24,26,28,30,32, 35,40,45,50)	14×2
PB150-4	200×10× 14(16,18,20,22,24,26,28,30, 32,35,40,45,50)	14×2

◆◆PB151 PRECISION PARALLEL BLOCK

1.Hardeness： HRC55~62

2 . Accuracy： 0. 0 1 mm

3 .Parallelism： 0.005mm



Order No.	L×W×H	件数 Pcs
PB151-1	100×4×10(14,18,22,26,30,34,38,42,)	9×2
PB151-2	160×4×10(14,18, 22,26,30,34,38,42,)	9×2
PB151-3	150×8.5×14(16,20,24,30,32,36,40,44)	9×2
PB151-4	150×10×14(16,20,24,30,32,36,40,44)	9×2

◆◆PB153 PRECISION PARALLEL BLOCK

1.Hardeness： HRC55~62

2 . Accuracy： 0 .0 1 mm

3 .Parallelism： 0.005mm



Order No.	L×W×H	Pcs
PB153-1	125×8×11(16,21,26,31,36) 125 ×10× 13(18,23,28,33,38)125 ×12 × 15(20,25,30,35,40)125 ×14 × 17(22,27,32,37,42)	24× 2
PB153-2	150×8×11(16,21,26,31,36) 150 ×10× 13(18,23,28,33,38)150 ×12 × 15(20,25,30,35,40)150 ×14 × 17(22,27,32,37,42)	24× 2

◆◆PB154 PRECISION PARALLEL BLOCK

1.Hardeness： HRC55~62

2 . Accuracy： 0 .0 1 mm

3 .Parallelism： 0.005mm



Or der No.	L× W× H	Pcs
PB1 54 - 1	150×8×16(18,20,22,24,26,28,30,32,34, 36,38,40,42,44,46,48,50)	18×2
PB154-2	150×8×17(19,21,23,25,27,29,31,33,35, 37,39,41,43,45,47,49,51)	18×2

◆◆PB155 PRECISION PARALLEL BLOCK

1.Hardeness： HRC55~62

2 . Accuracy： 0 .0 1 mm

3 .Parallelism： 0.005mm



Order No.	L× W× H	Pcs
PB1 55-1	120 ×10× 14(16,1 8,20,2 2,24 ,26,28 ,30, 32,35,40)	12×2
PB1 55-2	150×10× 14(16,1 8,20,2 2,24 ,26,28 ,30, 32,35,40)	12× 2

◆◆PB156 PRECISION PARALLEL BLOCK

1.Hardeness： HRC55~62

2 . Accuracy： 0 .0 1 mm

3 .Parallelism： 0.005mm



Order No.	L ×W× H	Pcs
PB15 6-1	120X8X12(17,22,25,28,32,36,38)	8X2
PB15 6-2	160X8X12(17,22,25,28,32,36,38)	
PB15 6-3	200X8X17(22,26,28,32,36,38,42)	

◆◆Angle milling head

Type of Angle milling head:

Pojedynczy typ wyjścia: Wyjście ER, Wyjście BT, Wyjście FMB, Wyjście tarczy frezarskiej, Wyjście tarczy tnącej.
Single output type: ER output BT output FMB cutter blade output

Podwójny typ wyjścia, Czterokrotny typ wyjścia, Typ uniwersalnie regulowany, Typ nachylony, Typ przesunięty, Niestandardowe zamówienie.
Double output type. Four output type. Universal adjustable type. Inclined type. Offset type.Non-standard customization

Sposób połączenia: blok stały, połączenie tarczy, cztery pierścienie mocujące
Connection mode: fixed block connecting disk four fixed rings
Precyzja wyjściowa: stożek wewnętrzny 0,002-0,005
Output accuracy; Inner cone 0.002-0.005









◆◆Clamping Kits 58 PCS





Model No.	Wt (kg)	Packing (cm)
M8x10-58 pcs	6.5kg	33x11×20
M10x12-58 pcs	7kg	33x11×20
M12x14-58 pcs	9.5kg	37x11×22
M12x16-58 pcs	10kg	37x11×22
M14x16-58 pcs	12kg	39x11×22
M14x18-58 pcs	12.5kg	39x11×22
M16x18-58 pcs	16kg	49x13×23
M16x20-58 pcs	16.5kg	49x13×23
M18x20-58 pcs	23kg	38x16×29
M20x22-58 pcs	25kg	38x16×29
M22x26-58 pcs	40kg	47x25×29

◆◆ FW80 F11 SERIES UNIVERSAL DIVIDING HEAD

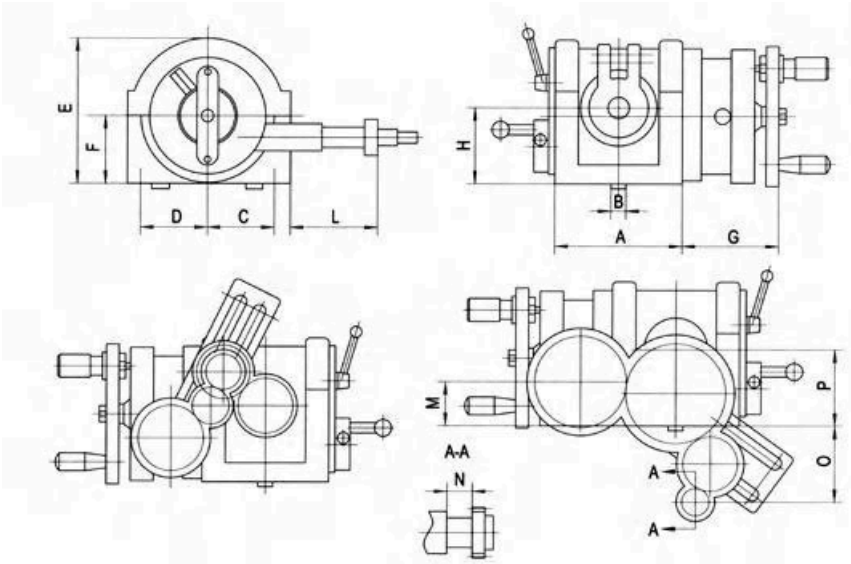


The universal dividing head, Type FW80, F11100A, F11125A, F11160A is one of the most important attachment for milling machine. With the help of this dividing head, the workpiece held between centers, or on a chuck can be rotate to any angle as desired and the periphery of a workpiece can be divided into any divisions of equal parts.By means of all kinds of cutters, the dividing head can also help milling machine to perform the milling operation for flute, spur gear spiral gear, spiral flute, Archimedean cam, helical flute and etc.
The dividing head is equipped with a face plate that can be mounted onto the spindle nose.The workpiece can be mounted on thc face plate, thus, cutting can be carried out on 4—sides of a workpiece.
F11125C F11160C is designed for the consumers special needed,the shafting is improved to support heavy load.
The universal dividing head, type F11100AL, F11125AL, FI1160AL is the same as FW80 of the structures, and the operation handle is setted on the left.

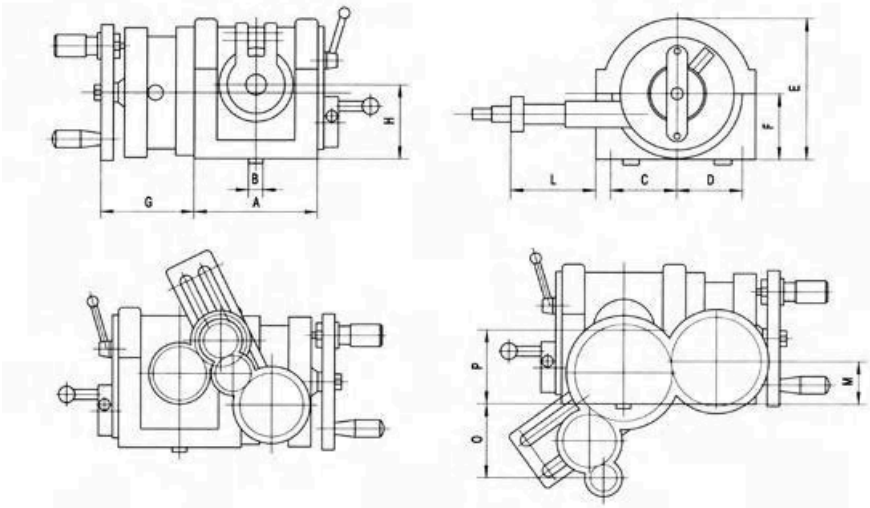
Main specifications

Items	Specifications	FW80	F11100A	F11125A	F11160A	F11120A
Centerheightmm		80	100	125	160	200
Swivel angle of spindle from it's horizontal position (upward)		≤90°	≤95°			
Horizontalposition(downward)		≤6°	≤5°			
Rotating angle of spindle for one complete revolution of dividing handle		9°(540 grad., 1` each)				
Min.readingofvernier		10〃				
Wormgearratio		1:40				
Taperofspindlebore		MS3		MS4		
Widthoflocatingkey.mm		14		18		
Diameter of short taper of spindle nose for mounting flange mm		36.541	41.275	53.975	53.975	
Holenumbersonindexplate	1stplate	24,25,28,30,34,37,38,39,41,42,43				
	2ndplate	46,47,49,51,53,54,57,58,59,62,66				
ChangeGear	Module	1.5		2		
	Teethnumbers	25,30,35,40,50,55,60,70,80,90,100				
Individual indexing error of the spindle for one complete revolution of dividing handle		60〃	±45〃			
Cumulateerroratany1/4peripheryofspindle		±1`				
Max.bearingKg		80	100	130	130	130
NetweightKg		36	67	101.5	113	130
CrossweightKg		45	79	111.5	123	140
Casedimensionsmm		542x403x220	616x465x265	635x530x310	710x535x342	710x535x342

◆◆F11Dimensional Sketch



◆◆FW80 Dimensional Sketch



◆◆FW80 F11Installation sketch anddimensions

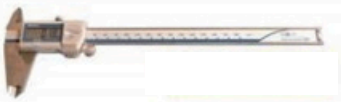
Model No.	A	B	C	D	E	F	G	H	L	M	N	O	P
FW80	139	14	77	73	147	77	78	80	106	43	30	60	80
F11100A	162	14	102	87	186	95	116	100	93	54.7	30	100	100
F11125A	209	18	116	98	224	117	120	125	103	68.5	34.5	100	125
F11160A	209	18	116	98	259	152	120	160	103	68.5	34.5	100	160
F11200A	209	18	116	98	288	192	120	200	103	68.5	34.5	100	200

◆◆Inspection Equipment



Zeiss three coordinates





Sanfeng digital display calipers



Sanfeng digital display micrometer



Digital display depth ruler





Gas momentum meter



Sanfeng lever dial meter



