



TEN SOON

Users' Experience is our Priority!

MACHINE TOOL HOLDERS
PRODUCT
CATALOGUE
2018

Provides Solution

to all your machining requirements.

Committed to customer satisfaction through quality product and service provision, Ten Soon Machine Tools provides precision cutting tools, Machine Tool Accessories and Machine Tool Holders; enabling its clients to focus on efficient machining. It offers variety of innovative products contemporaneous with the industrial and technological progress.

After-sales is also a paramount as Ten Soon closely collaborates with its clients during its growth process, creating mutual benefit, growth, and sustainable development through excellent products with them.



Ten Soon Machine Tools, Inc.

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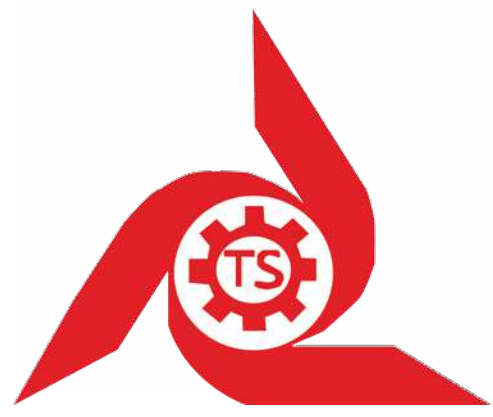


Company Profile

Ten Soon Machine Tools, Inc. (Terng Shuenn) was founded in 1989 at Taipei, Taiwan. With its high quality products and customer-oriented service, Ten Soon became the most famous machine tool accessories supplier in Taiwan.

In 1992, it expanded its business in China with the establishment of Jousn (Ten Soon China) at Dongguan, China, and has established almost 13 branches around the country.

In 2018, Ten Soon Machine Tools was established in Laguna Technopark, Biñan City, Laguna, Philippines. With its company tagline of "*Users' Experience is our Priority*", Ten Soon Machine Tools, Inc. aims to become the leading local and professional machine tools supplier across the national market by providing quality and superior products and service to attain customers' need and satisfaction.



TEN SOON
MACHINE TOOLS, INC.

Users' Experience is Our Priority

is an
authorized distributor
of



Ask for a CATALOG now!



TOOL HOLDERS SERIES
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A






















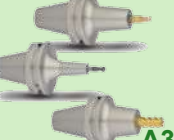






**MILLING
TOOL
HOLDER**

**EXTERNAL
TURNING
TOOL HOLDER**









B








MILLING TOOL HOLDERS

MILLING TOOL HOLDER INDEX


























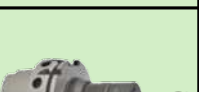

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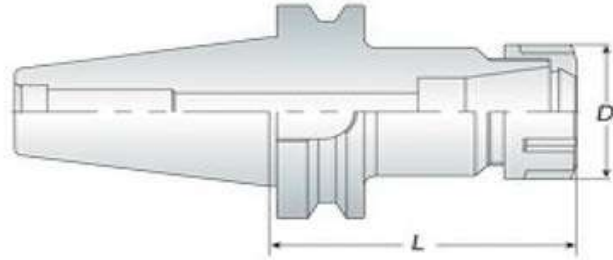
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Specification	BT	NT	R8	MTA	HSK	C
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FOR BORING						
Specification	BT	NT	R8	MTA	HSK	C
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ER (Spring Collet Chuck)



unit: mm

Model	Clamping Range	D	L	Collet Type	Wrench	Weight (kg)
BT30						
ER08-060M	1-5	12	60	ER08	WM08	0.50
ER08-100M	1-5	12	100	ER08	WM08	0.60
ER11-100M	1-7	16	100	ER11	WM11	0.60
ER16-100M	1-10	22	100	ER16	WM16	0.70
ER20-100M	1-13	28	100	ER20	WM20	0.80
BT40						
ER11-070M	1-7	16	90	ER11	WM11	1.15
ER11-100M	1-7	16	100	ER11	WM11	1.20
ER16-100M	1-10	22	100	ER16	WM16	1.25
ER20-100M	1-13	28	100	ER20	WM20	1.30
BT30						
ER11-060M	1-7	19	60	ER11	WER11	0.60
ER16-060M	1-10	28	60	ER16	WER16	0.60
ER16-070M	1-10	28	70	ER16	WER16	0.70
ER20-060M	1-13	34	60	ER20	WER20	0.60
ER25-060M	2-16	42	60	ER25	WER25	0.70
ER32-060M	2-20	50	60	ER32	WER32	0.75
ER32-070M	2-20	50	70	ER32	WER32	0.80
BT40						
ER11-070	1-7	19	70	ER11	WER11	1.2
ER11-100	1-7	19	100	ER11	WER11	1.25
ER16-070	1-10	28	70	ER16	WER16	1.20
ER16-100	1-10	28	100	ER16	WER16	1.40
ER16-150	1-10	28	150	ER16	WER16	1.60
ER20-080	1-13	34	80	ER20	WER20	1.30
ER20-100	1-13	34	100	ER20	WER20	1.50
ER20-150	1-13	34	150	ER20	WER20	1.80
ER25-080	2-16	42	80	ER25	WER25	1.50
ER25-100	2-16	42	100	ER25	WER25	1.70
ER25-150	2-16	42	150	ER25	WER25	2.10
ER32-060	2-20	50	60	ER32	WER32	1.30
ER32-070	2-20	50	70	ER32	WER32	1.40
ER25-100	2-20	50	100	ER32	WER32	1.80
ER25-150	2-20	50	150	ER32	WER32	2.60
ER40-080	3-26	63	80	ER40	WER40	1.70
ER40-100	3-26	63	100	ER40	WER40	2.20

Model	Clamping Range	D	L	Collet Type	Wrench	Weight (kg)
BT50						
ER16-100	1-10	28	100	ER16	WER16	4.10
ER16-150	1-10	28	150	ER16	WER16	4.30
ER16-200	1-10	28	200	ER16	WER16	4.60
ER16-250	1-10	28	250	ER16	WER16	5.10
ER16-300	1-10	28	300	ER16	WER16	5.40
ER20-100	1-13	34	100	ER20	WER20	4.20
ER20-150	1-13	34	150	ER20	WER20	4.50
ER20-200	1-13	34	200	ER20	WER20	4.90
ER20-250	1-13	34	250	ER20	WER20	5.50
ER20-300	1-13	34	300	ER20	WER20	5.90
ER25-100	2-16	42	100	ER25	WER25	4.20
ER25-150	2-16	42	150	ER25	WER25	4.80
ER20-200	2-16	42	200	ER25	WER25	5.30
ER20-250	2-16	42	250	ER25	WER25	6.10
ER20-300	2-16	42	300	ER25	WER25	6.80
ER32-100	2-20	50	100	ER32	WER32	4.40
ER32-150	2-20	50	150	ER32	WER32	5.20
ER32-200	2-20	50	200	ER32	WER32	5.9
ER32-250	2-20	50	250	ER32	WER32	6.60
ER32-300	2-20	50	300	ER32	WER32	7.50
ER40-080	3-26	63	80	ER40	WER40	4.30
ER40-100	3-26	63	100	ER40	WER40	4.70
ER40-150	3-26	63	150	ER40	WER40	5.90
ER40-200	3-26	63	200	ER40	WER40	7.10
ER40-250	3-26	63	250	ER40	WER40	8.20
ER40-300	3-26	63	300	ER40	WER40	9.30

ER Series

MILLING

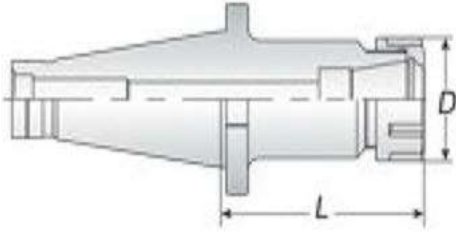
FACEMILLING

TAPPING

BORING

OTHERS

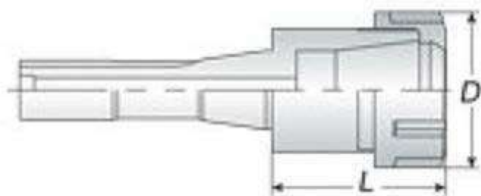
ER (Spring Collet Chuck)



unit: mm

Model	D	L	Collet Type	Draw Bolt	Weight (kg)
NT30					
ER16-076	28	76	ER16	1/2"-12 M12x1.75P	0.7
ER32-055	50	55	ER32		0.8
ER40-085	63	85	ER40		1.4
NT40					
ER16-076	28	76	ER16	5/8"-11 M16x2.0P	1.2
ER16-100	28	100	ER16		1.3
ER20-076	34	76	ER20		1.4
ER20-100	34	100	ER20		1.4
ER32-050	50	50	ER32		1.1
ER40-055	63	55	ER40		
NT50					
ER16-100	28	100	ER16	1"-8 M24x3.0P	1.4
ER16-150	28	150	ER16		3.3
ER20-100	34	100	ER20		3.5
ER20-150	34	150	ER20		3.3
ER20-150	34	150	ER20		3.7
ER32-058	50	58	ER32		3.2
ER40-058	63	58	ER40		3.2

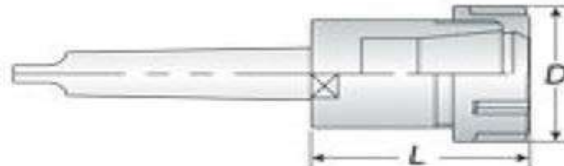
ER (R8 Taper Shank)



unit: mm

Model	D	L	Collete Type	G	Weight (kg)
R8					
ER16	26	35	ER16	7/16" x 20 UNF	0.60
ER25	42	43	ER25		0.70
ER32	50	60	ER32		0.90
ER40	63	68	ER40		1.40

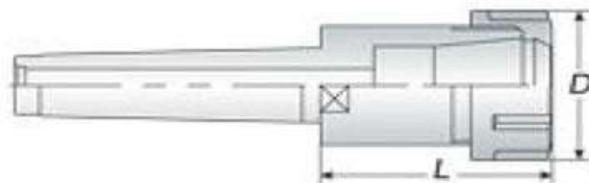
ER (Morse Taper Shank - Tang Type)



unit: mm

Model	D	L	Collet Type	Weight (kg)
MTA2				
ER16-32	28	32	ER16	0.20
ER20-48	34	48	ER20	0.50
ER25-51	42	51	ER25	0.70
MTA3				
ER16-40	28	40	ER16	0.40
ER32-53	50	53	ER32	0.80
ER40-78	63	78	ER40	1.30
MTA4				
ER32-60	60	60	ER32	1.30
ER40-80	63	80	ER40	1.70
MTA5				
ER40-80	63	80	ER40	2.90

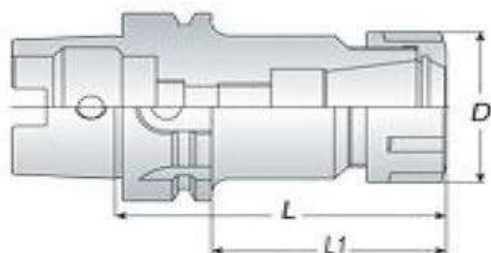
ER (Morse Taper Shank - Draw Bolt Type)



unit: mm

Model	D	L	Collet Type	Draw Bolt	Weight (kg)
MTB2					
ER16-040	28	40	ER16	3/8" - 16	0.25
ER20-045	34	45	ER20	M10 x 1.5P	0.30
ER25-047	42	47	ER25		0.40
MTB3					
ER16-040	28	40	ER16	1/2" - 12	0.60
ER32-070	50	70	ER32	M12 x 1.75P	0.80
ER40-080	63	80	ER40		1.30
MTB4					
ER32-060	50	60	ER32	5/8" - 11	1.40
ER40-082	63	82	ER40	M16 x 2.0P	1.60
MTB5					
ER40-082	63	82	ER40	1" - 8 M24 x 3.0P	2.40

ER (Spring Chuck Collet)



unit: mm

Model	Clamping Range	D	L1	L	Collet Type	Wrench	Weight (kg)
HSK50A							
ER16-080	1-10	28	54	80	ER16	WER16	0.70
ER16-100	1-10	28	74	100	ER16	WER16	0.90
ER20-080	1-13	34	54	80	ER20	WER20	0.70
ER20-100	1-13	34	74	100	ER20	WER20	0.90
ER25-080	2-16	42	54	80	ER25	WER25	0.90
ER25-100	2-16	42	74	100	ER25	WER25	1.10
ER32-100	2-20	50	74	100	ER32	WER32	1.20
HSK63A							
ER16-080	1-10	28	54	80	ER16	WER16	1.00
ER16-100	1-10	28	74	100	ER16	WER16	1.10
ER16-120	1-10	28	94	120	ER16	WER16	1.20
ER16-150	1-10	28	124	150	ER16	WER16	1.40
ER20-080	1-13	34	54	80	ER20	WER20	1.00
ER20-100	1-13	34	74	100	ER20	WER20	1.10
ER20-120	1-13	34	94	120	ER20	WER20	1.30
ER20-150	1-13	34	124	150	ER20	WER20	1.50
ER25-080	2-16	42	54	80	ER25	WER25	1.20
ER25-100	2-16	42	74	100	ER25	WER25	1.40
ER25-120	2-16	42	94	120	ER25	WER25	1.60
ER25-150	2-16	42	124	150	ER25	WER25	2.00
ER32-080	2-20	50	54	80	ER32	WER32	1.30
ER32-100	2-20	50	74	100	ER32	WER32	1.60
ER32-150	2-20	50	124	150	ER32	WER32	2.40
ER40-080	3-26	63	54	80	ER40	WER40	1.40
ER40-100	3-26	63	74	100	ER40	WER40	1.80
ER40-150	3-26	63	124	150	ER40	WER40	2.90
HSK100A							
ER16-100	1-10	28	71	100	ER16	WER16	2.60
ER16-160	1-10	28	131	160	ER16	WER16	3.00
ER20-100	1-13	34	71	100	ER20	WER20	2.70
ER20-160	1-13	34	131	160	ER20	WER20	3.20
ER25-100	2-16	42	71	100	ER25	WER25	2.90
ER25-160	2-16	42	131	160	ER25	WER25	3.50
ER32-100	2-20	50	71	100	ER32	WER32	3.00
ER32-160	2-20	50	131	160	ER32	WER32	3.80
ER40-100	3-26	63	71	100	ER40	WER40	3.30
ER40-160	3-26	63	131	160	ER40	WER40	4.20

MILLING

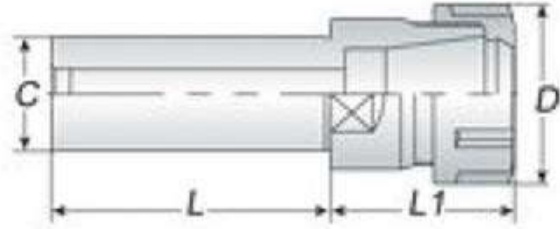
FACEMILLING

TAPPING

BORING

OTHERS

ER (Straight Shank Collet Chuck)



unit: mm

Model	C	D	L	L1	Collet Type	Weight (kg)
C20						
ER16-050	20	28	50	35	ER16	0.20
ER16-100	20	28	100	35	ER16	0.35
ER16-150	20	28	150	35	ER16	0.45
ER20-050	20	34	50	40	ER20	0.25
ER20-100	20	34	100	40	ER20	0.40
ER20-150	20	34	150	40	ER20	0.50
ER25-050	20	42	50	46	ER25	0.40
ER25-100	20	42	100	46	ER25	0.50
ER25-150	20	42	150	46	ER25	0.70
C25						
ER16-100	25	28	100	20	ER16	0.40
ER16-150	25	28	150	20	ER16	0.70
ER20-100	25	34	100	38	ER20	0.50
ER20-150	25	34	150	38	ER20	0.75
ER25-100	25	42	100	42	ER25	0.55
ER25-150	25	42	150	42	ER25	0.80
ER32-080	25	50	80	58	ER32	0.80
ER40-100	25	63	100	60	ER40	1.10
C32						
ER25-060	32	42	60	46	ER25	0.70
ER32-100	32	50	100	58	ER32	1.10
ER32-150	32	50	150	58	ER32	1.40
ER40-100	32	63	100	60	ER40	1.30
C40						
ER32-100	40	50	100	52	ER32	1.30
ER40-100	40	63	100	60	ER40	1.60

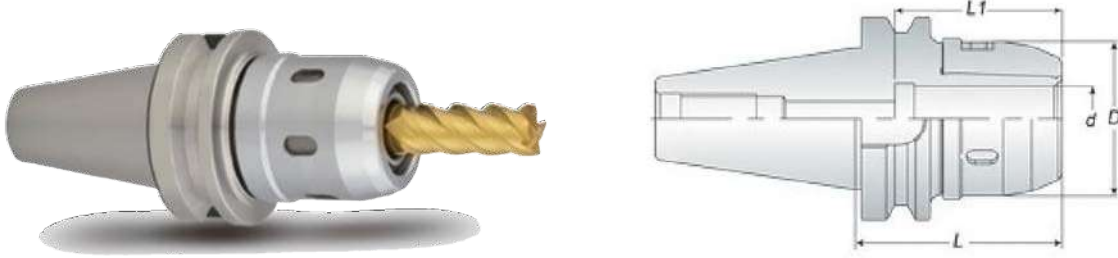
ER (Straight Shank Collet Chuck - M Type)



unit: mm

Model	C	D	L	L1	Collet Type	Weight (kg)
C16						
ER11-050M	16	16	50	15	ER11	0.10
ER11-100M	16	16	100	15	ER11	0.20
ER16-050M	16	22	50	32	ER16	0.15
ER16-100M	16	22	100	32	ER16	0.20
ER16-150M	16	22	150	32	ER16	0.30
C20						
ER16-050M	20	22	50	32	ER16	0.20
ER16-100M	20	22	100	32	ER16	0.30
ER16-150M	20	22	150	32	ER16	0.40
ER20-050M	20	28	50	40	ER20	0.20
ER20-100M	20	28	100	40	ER20	0.35
ER20-150M	20	28	150	40	ER20	0.50
C25						
ER20-050M	25	28	50	40	ER20	0.30
ER20-100M	25	28	100	40	ER20	0.50
ER20-150M	25	28	150	40	ER20	0.60

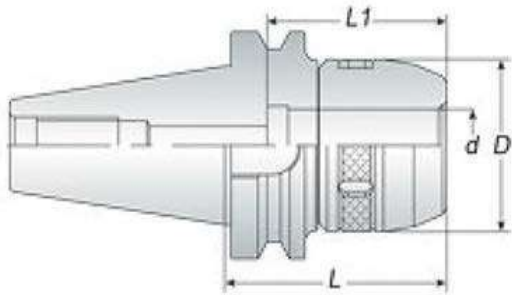
ASC (High Speed Milling Chuck)



unit: mm

Model	Clamping Range	d	D	L	L1	Collet Type	Weight (kg)
BT30							
ASC16-080	3-16	16	46	50	65	SC16	1.10
ASC20-085	4-20	20	53	85	72	SC20	1.30
BT40							
ASC16-080	3-16	16	46	80	65	SC16	1.60
ASC16-105	3-16	16	46	105	65	SC16	2.00
ASC16-135	3-16	16	46	135	65	SC16	2.40
ASC20-080	4-20	20	53	80	72	SC20	1.80
ASC20-105	4-20	20	53	105	72	SC20	2.30
ASC20-135	4-20	20	53	135	72	SC20	2.90
BT50							
ASC16-090	3-16	16	46	90	65	SC16	4.40
ASC16-110	3-16	16	46	110	65	SC16	4.70
ASC16-135	3-16	16	46	135	65	SC16	4.90
ASC16-150	3-16	16	46	150	65	SC16	5.00
ASC20-090	4-20	20	53	90	72	SC20	4.50
ASG20-110	4-20	20	53	110	72	SC20	5.00
ASC20-135	4-20	20	53	135	72	SC20	5.60
ASC20-150	4-20	20	53	150	72	SC20	6.00

ASC (Milling Chuck)



unit: mm

Model	Clamping Range	d	D	L	L1	Collet Type	Weight (kg)
BT30							
ASC25-085	6-25	25	58	85	85	SC25	1.30
BT40							
ASC25-090	6-25	25	58	90	85	SC25	1.90
ASC25-130	6-25	25	58	130	85	SC25	2.70
ASC32-095	6-32	32	68	95	95	SC32	2.20
ASC32-105	6-32	32	68	105	95	SC32	2.80
ASC32-130	6-32	32	68	130	95	SC32	3.30
BT50							
ASC25-100	6-25	25	58	100	85	SC25	4.60
ASC25-150	6-25	25	58	150	85	SC25	5.50
ASC32-105	6-32	32	76	105	95	SC32	5.20
ASC32-150	6-32	32	76	150	95	SC32	6.40
ASC32-200	6-32	32	76	200	95	SC32	8.50
ASC32-250	6-32	32	76	250	95	SC32	9.70
ASC42-110	6-42	42	84	110	100	SC42	5.50
ASC42-160	6-42	42	84	160	100	SC42	7.60

MILLING

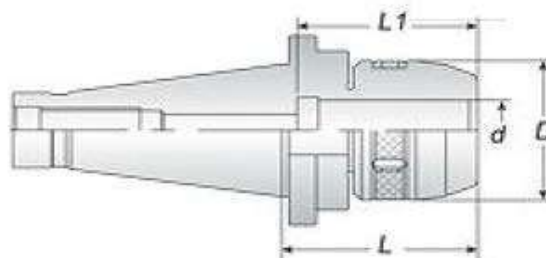
FACEMILLING

TAPPING

BORING

OTHERS

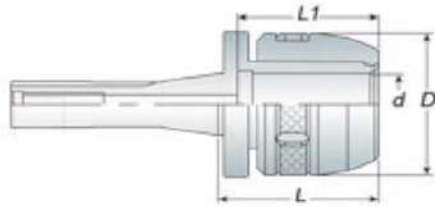
ASC (Milling Chuck)



unit: mm

Model	Clamping Range	d	D	L	L1	Collet Type	Draw Bolt	Weight (kg)
NT30								
ASC20-085	4-20	20	53	85	72	SC20	1/2"-12 M12x1.75P	1.60
ASC25-080	6-25	25	58	80	85	SC25		1.40
ASC25-090	6-32	32	68	90	95	SC32		1.80
NT40								
ASC25-080	6-25	25	58	80	85	SC25	5/8"-11 M16x2.0P	1.80
ASC25-130	6-25	25	58	130	85	SC25		2.60
ASC32-085	6-32	32	68	85	95	SC32		2.20
ASC32-130	6-32	32	68	130	95	SC32		3.00
NT50								
ASC25-085	6-25	25	58	85	85	SC25	1-8 M24x3.0P	3.90
ASC25-150	6-25	25	58	150	85	SC25		5.30
ASC32-090	6-32	32	76	90	95	SC32		4.60
ASC32-150	6-32	32	76	150	95	SC32		5.60
ASC42-095	6-42	42	84	95	100	SC42		4.70
ASC42-150	6-42	42	84	150	100	SC42		6.80

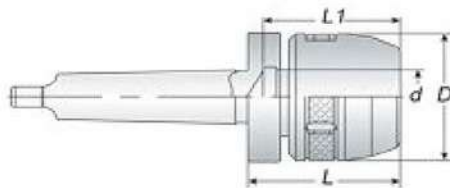
ASC (R8 Taper Shank)



unit: mm

Model	Clamping Range	d	D	L	L1	Collet Type	Weight (kg)
R8							
ASC25-070	6-25	25	58	70	85	SC25	1.40
ASC32-075	6-32	32	68	75	95	SC32	1.70

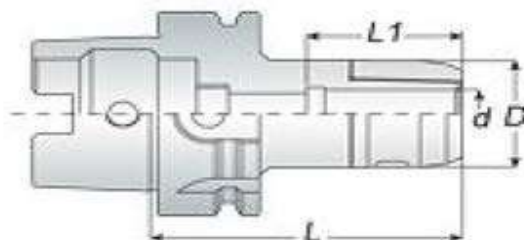
ASC (Morse Taper Shank - Tang Type)



unit: mm

Model	Clamping Range	d	D	L	L1	Collet Type	Weight (kg)
MTA3							
ASC25-070	3-12	12	35	70	-	SC12	1.10
MTA4							
ASC25-070	3-16	20	46	80	65	SC16	1.10
ASC32-080	4-20	12	54	85	72	SC20	1.40
MTA5							
ASC25-075	3-12	12	35	80	-	SC12	1.40
ASC32-080	3-12	16	35	95	-	SC12	1.50
ASC42-090	3-12	16	35	120	-	SC12	1.80
MTA6							
ASC25-075	3-16	20	46	105	65	SC16	2.00
ASC32-080	3-16	20	46	135	65	SC16	2.40
ASC42-090	4-20	20	54	80	72	SC20	1.80

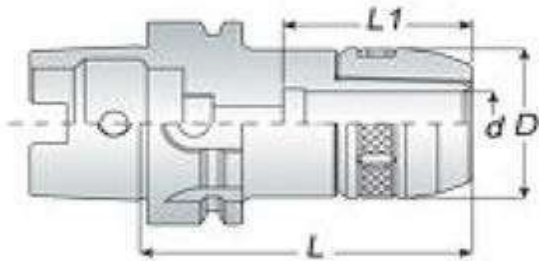
ASC (High Speed Milling Chuck)



unit: mm

Model	Clamping Range	d	D	L	L1	Collet Type	Weight (kg)
HSK50A							
ASC16-100	3-16	16	46	100	65	SC16	0.80
HSK63A							
ASC16-080	3-16	16	46	80	65	SC16	1.30
ASC16-100	3-16	16	46	100	65	SC16	1.70
ASC20-095	4-20	20	53	95	72	SC20	1.90
HSK100A							
ASC16-115	3-16	16	46	115	65	SC16	2.90
ASC16-135	3-16	16	46	135	65	SC16	3.20
ASC20-115	4-20	20	53	115	72	SC20	3.20
ASC20-135	4-20	20	53	135	72	SC20	3.80
ASC20-165	4-20	20	53	165	72	SC20	4.60

ASC (Milling Chuck)



unit: mm

Model	Clamping Range	d	D	L	L1	Collet Type	Weight (kg)
HSK63A							
ASC25-105	6-25	25	58	105	85	SC25	2.00
ASC32-105	6-32	32	68	105	95	SC32	2.00
HSK100A							
ASC25-115	6-25	25	64	115	85	SC25	3.40
ASC25-135	6-25	25	64	135	85	SC25	4.00
ASC25-165	6-25	25	64	165	85	SC25	4.80
ASC32-115	6-32	32	76	115	95	SC32	3.40
ASC32-135	6-32	32	76	135	95	SC32	4.20
ASC32-165	6-32	32	76	165	95	SC32	5.00

MILLING

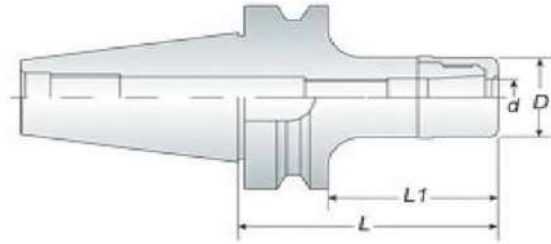
FACEMILLING

TAPPING

BORING

OTHERS

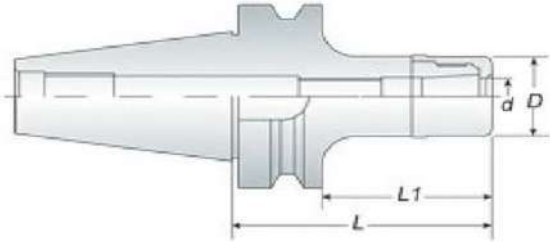
ASK (High Speed Collet Chuck)



unit: mm

Model	Clamping Range (d)	D	L	L1	Weight (kg)
BT30					
ASK06-060	2~6	19.05	40	60	0.6
ASK06-090	2~6	19.05	70	90	0.6
ASK10-070	2~10	27	50	70	0.7
ASK10-090	2~10	27	70	90	0.8
ASK13-060	3~13	33	40	60	1
ASK13-075	3~13	33	55	75	1.1
ASK13-090	3~13	33	70	90	1.1
ASK16-060	3~16	40	40	60	0.7
ASK16-090	3~16	40	70	90	0.9
ASK16-120	3~16	40	100	120	1.1
ASK20-060	4~20	48	40	60	0.8
ASK25-085	6~25.4	54	65	85	1.2
BT40					
ASK06-060	2~6	19.05	35	60	1.1
ASK06-090	2~6	19.05	65	90	1.3
ASK06-120	2~6	19.05	95	120	1.5
ASK10-060	2~10	27	35	60	1.2
ASK10-080	2~10	27	55	80	1.3
ASK10-090	2~10	27	65	90	1.35
ASK10-100	2~10	27	75	100	1.4
ASK10-120	2~10	27	95	120	1.5
ASK10-150	2~10	27	125	150	1.6
ASK13-060	3~13	33	35	60	1.2
ASK13-080	3~13	33	55	80	1.3
ASK13-090	3~13	33	65	90	1.4
ASK13-100	3~13	33	75	100	1.5
ASK13-120	3~13	33	95	120	1.6
ASK13-150	3~13	33	125	150	1.8
ASK16-060	3~16	40	25	60	1.3
ASK16-080	3~16	40	45	80	1.5
ASK16-090	3~16	40	55	90	1.55
ASK16-100	3~16	40	65	100	1.6
ASK16-120	3~16	40	85	120	1.9
ASK16-150	3~16	40	115	150	2.1
ASK20-060	4~20	48	25	60	1.3
ASK20-090	4~20	48	55	90	1.8
ASK20-120	4~20	48	85	120	2.4
ASK25-070	6~25.4	54	35	70	1.5
ASK25-090	6~25.4	54	55	90	1.9
ASK25-120	6~25.4	54	85	120	2.2

ASK (High Speed Collet Chuck)



unit: mm

Model	Clamping Range (d)	D	L	L1	Weight (kg)
BT50					
ASK06-100	2~6	19.05	65	100	3.9
ASK10-100	2~10	27	65	100	4
ASK10-130	2~10	27	95	130	4.1
ASK10-150	2~10	27	115	150	4.2
ASK13-100	3~13	33	65	100	4.5
ASK13-130	3~13	33	95	130	4.7
ASK13-150	3~13	33	115	150	4.9
ASK16-100	3~16	40	65	100	4.2
ASK16-130	3~16	40	95	130	4.5
ASK16-150	3~16	40	115	150	5
ASK20-105	4~20	48	70	105	4.6
ASK20-135	4~20	48	100	135	5
ASK20-165	4~20	48	130	165	5.6
ASK25-100	6~25.4	54	65	100	4.5
ASK25-130	6~25.4	54	95	130	5
ASK25-150	6~25.4	54	115	150	5.3

MILLING

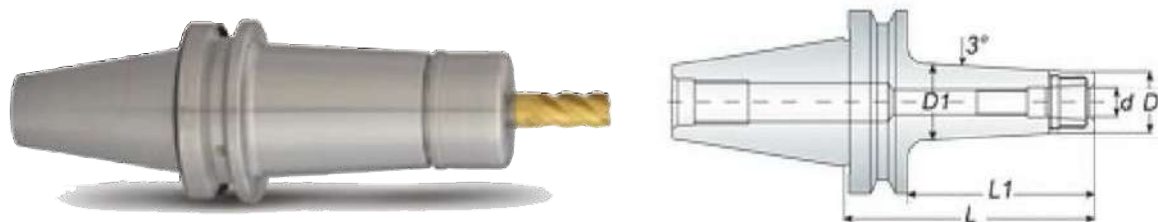
FACEMILLING

TAPPING

BORING

OTHERS

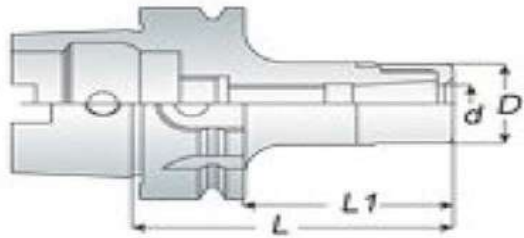
ASK (High Speed Collet Chuck-Rigidity Type)



unit: mm

Model	Clamping Range	D	D1	L1	L	Weight (kg)
BT40						
ASK06-150T	2~6	19.05	29	125	150	1.5
ASK10-150T	2~10	27	36	125	150	1.6
ASK13-150T	3~13	33	43	125	150	1.8
ASK16-150T	3~16	40	49	125	150	1.9
BT50						
ASK06-150T	2~6	19.05	28	115	150	4
ASK10-150T	2~10	27	35	115	150	4.6
ASK10-200T	2~10	27	40	165	150	4.8
ASK13-150T	3~13	33	42	115	150	4.9
ASK13-200T	3~13	33	47	165	200	5.2
ASK16-150T	3~16	40	47	115	150	5.1
ASK16-200T	3~16	40	53	165	200	5.5

ASK (High Speed Collet Chuck)



unit: mm

Model	Clamping Range (d)	D	L	L1	Weight (kg)
HSK40A					
ASK10-055	2-10	27	55	35	0.40
HSK50A					
ASK06-060	2-6	19.05	60	34	0.60
ASK10-080	2-10	27	80	54	0.70
ASK13-080	3-13	33	80	54	0.80
ASK16-080	3-16	40	80	54	0.90
HSK63A					
ASK06-080	2-6	19.05	80	54	0.90
ASK06-100	2-6	19.05	100	74	1.00
ASK10-060	2-10	27	60	34	0.90
ASK10-080	2-10	27	80	54	1.00
ASK10-100	2-10	27	100	74	1.10
ASK10-120	2-10	27	120	94	1.20
HSK63A					
ASK13-080	3-13	33	80	54	1.20
ASK13-100	3-13	33	100	74	1.40
ASK13-120	3-13	33	120	94	1.60
ASK16-080	3-16	40	80	54	1.10
ASK16-100	3-16	40	100	74	1.30
ASK16-120	3-16	40	120	94	1.50
ASK20-090	4-20	48	90	64	1.50
ASK25-090	6-25.4	54	90	64	1.50
HSK100A					
ASK06-105	2-6	19.05	105	76	1.20
ASK10-105	2-10	27	105	76	2.60
ASK13-105	3-13	33	105	76	2.70
ASK16-105	3-16	40	105	76	2.80
ASK20-120	4-20	48	120	94	3.50
ASK25-120	6-25.4	54	120	94	3.50

MILLING

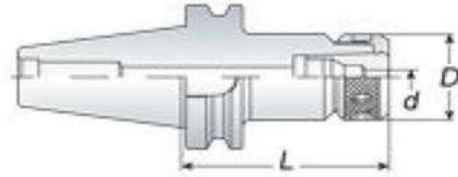
FACEMILLING

TAPPING

BORING

OTHERS

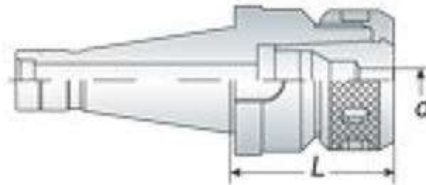
OZ (Collet Chuck)



unit: mm

Model	d	D	L	Collet Type	Weight (kg)
BT40					
OZ25-080	3-25	60	80	OZ25	1.70
OZ25-120	3-25	60	120	OZ25	2.60
OZ32-080	6-32	72	80	OZ32	2.10
OZ32-120	6-32	72	150	OZ32	3.60
BT50					
OZ25-090	3-25	60	90	OZ25	4.50
OZ25-130	3-25	60	130	OZ25	5.10
OZ32-105	6-32	72	105	OZ32	5.40
OZ32-150	6-32	72	150	OZ32	6.60

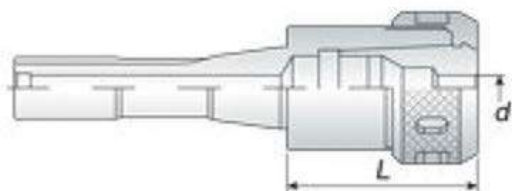
OZ (Collet Chuck)



unit: mm

Model	d	L	Collet Type	Draw Bolt	Weight (kg)
NT30					
OZ25-070	3-25	70	OZ25	1/2"-12 M12 x 1.75P	1.10
OZ32-100	6-32	100	OZ32		1.60
NT40				5/8"-11 M16 x 2.0P	
OZ25-070	3-25	70	OZ25		1.60
OZ32-080	6-32	80	OZ32	2.20	
NT50				1"-8 M24 x 3.0P	
OZ25-080	3-25	80	OZ25		3.80
OZ32-080	6-32	80	OZ32	4.30	

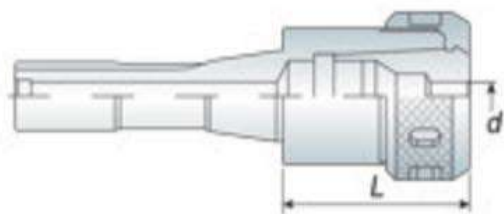
OZ (R8 Taper Shank)



unit: mm

Model	D	L	Collet Type	Weight (kg)
R8				
OZ25	3-25	70	ER25	1.25
OZ32	6-32	87	ER32	2.20

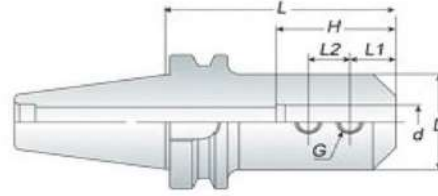
OZ (Morse Taper Shank - Tang Type)



unit: mm

Model	D	L	Collet Type	Weight (kg)
MTA5				
OZ25-075	3-25	75	ER25	2.80
OZ32-075	6-32	75	ER32	3.00

SLA (End Mill Holder)



unit: mm

Model	d	D	L	L1	L2	H	G	Weight (kg)
BT30								
SLA06-060	6	25	60	12	10	32	M6	0.60
SLA08-060	8	28	60	14	12	36	M8	0.65
SLA10-060	10	35	60	15	14	40	M10	0.70
SLA12-060	12	40	60	16	16	45	M10	0.80
SLA16-075	16	45	75	22	18	50	M10	0.80
SLA20-075	20	50	75	25	20	60	M12	1.10
SLA25-075	25	55	75	25	22	65	M12	1.10
BT40								
SLA06-075	6	25	75	12	10	32	M6	1.20
SLA06-100	6	25	100	12	10	32	M6	1.30
SLA08-075	8	28	75	14	12	36	M8	1.25
SLA08-100	8	28	100	14	12	36	M8	1.40
SLA10-075	10	35	75	15	14	40	M10	1.35
SLA10-100	10	35	100	15	14	40	M10	1.50
SLA12-075	12	40	75	20	16	45	M10	1.45
SLA12-100	12	40	100	20	16	45	M10	1.65
SLA14-075	14	42	75	18	16	45	M10	1.50
SLA14-100	14	42	100	18	16	45	M10	1.75
SLA16-075	16	45	75	20	18	50	M10	1.50
SLA16-100	16	45	100	20	18	50	M10	1.85
SLA18-075	18	48	75	20	18	50	M12	1.60
SLA18-100	18	48	100	22	18	50	M12	1.90
SLA20-075	20	50	75	20	18	60	M12	1.60
SLA20-100	20	50	100	25	20	60	M12	2.00
SLA25-075	25	55	75	22	18	65	M12	1.60
SLA25-100	25	55	100	25	22	65	M12	2.00
SLA32-090	32	60	90	30	22	70	M16	2.00
SLA40-105	40	80	105	30	22	80	M16	3.10
SLA42-105	42	80	105	30	22	80	M16	3.10
BT50								
SLA06-105	6	25	105	12	10	32	M6	4.10
SLA06-150	6	25	150	12	10	32	M6	4.30
SLA06-200	6	25	200	12	10	32	M6	4.60

SLA Series

SLA (End Mill Holder)

unit: mm

Model	d	D	L	L1	L2	H	G	Weight (kg)
BT50								
SLA08-105	8	28	105	14	12	36	M8	4.10
SLA08-150	8	28	150	14	12	36	M8	4.35
SLA08-200	8	28	200	14	12	36	M8	4.65
SLA10-105	10	35	105	15	14	40	M10	4.20
SLA10-150	10	35	150	15	14	40	M10	4.50
SLA10-200	10	35	200	15	14	40	M10	5.10
SLA12-105	12	40	105	20	16	45	M10	4.35
SLA12-150	12	40	150	20	16	45	M10	4.80
SLA12-200	12	40	200	20	16	45	M10	5.30
SLA14-105	14	42	105	18	16	45	M10	4.35
SLA16-105	16	45	105	22	18	50	M10	4.45
SLA16-150	16	45	150	22	18	50	M10	4.90
SLA16-200	16	45	200	22	18	50	M10	5.60
SLA16-250	16	45	250	22	18	50	M10	6.60
SLA16-300	16	45	300	22	18	50	M10	6.90
SLA18-105	18	48	105	22	18	55	M10	4.50
SLA20-105	20	50	105	25	20	60	M12	4.50
SLA20-150	20	50	150	25	20	60	M12	5.20
SLA20-200	20	50	200	25	20	60	M12	5.90
SLA20-250	20	50	250	25	20	60	M12	6.60
SLA20-300	20	50	300	25	20	60	M12	7.75
SLA25-105	25	55	105	25	22	65	M12	4.60
SLA25-150	25	55	150	25	22	65	M12	5.40
SLA25-200	25	55	200	25	22	65	M12	6.50
SLA25-250	25	55	250	25	22	65	M12	7.00
SLA25-300	25	55	300	25	22	65	M12	8.50
SLA32-105	32	60	105	30	22	70	M16	4.70
SLA32-150	32	60	150	30	22	70	M16	5.80
SLA32-200	32	60	200	30	22	70	M16	6.60
SLA32-250	32	60	250	30	22	70	M16	7.60
SLA32-300	32	60	300	30	22	70	M16	9.30
SLA40-105	40	80	105	30	22	80	M16	5.40
SLA40-150	40	80	150	30	22	80	M16	7.00
SLA40-200	40	80	200	30	22	80	M16	9.00
SLA40-250	40	80	250	30	22	80	M16	10.80
SLA42-105	42	80	105	35	25	80	M20	5.50
SLA42-150	42	80	150	35	25	80	M20	7.00
SLA42-200	42	80	200	35	25	80	M20	8.90
SLA42-250	42	80	250	34	25	80	M20	10.80
SLA50.8-105	50.8	95	105	35	25	90	M20	6.00
SLA50.8-150	50.8	95	150	35	25	90	M20	8.50

MILLING

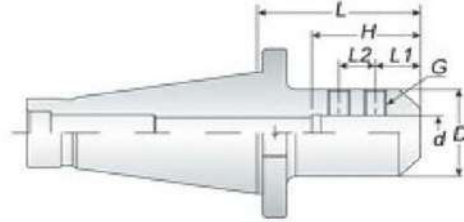
FACEMILLING

TAPPING

BORING

OTHERS

SLA (End Mill Holder)

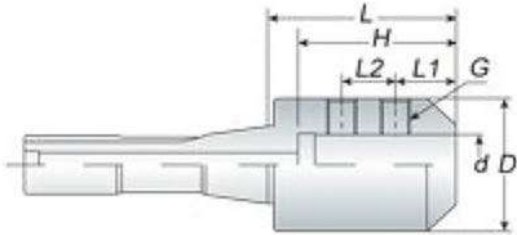


unit: mm

Model	d	D	L	L1	L2	H	G	Draw Bolt	Weight (kg)	
NT30										
SLA06-055	6	25	55	12	10	32	M6	1/2" -12	0.60	
SLA08-055	8	28	55	14	12	36	M8		0.60	
SLA10-055	10	35	55	15	14	40	M10		0.65	
SLA12-055	12	40	55	20	15	45	M10	M12	0.80	
SLA16-060	16	45	60	22	18	50	M10	x	0.90	
SLA20-065	20	50	65	25	20	60	M12	1.75P	1.00	
SLA25-075	25	55	75	25	22	65	M12		1.30	
NT40										
SLA06-055	6	25	55	12	10	32	M6	5/8"-11	1.10	
SLA08-055	8	28	55	14	12	36	M8		1.10	
SLA10-055	10	35	55	15	14	40	M10		1.20	
SLA12-055	12	40	55	20	15	45	M10		1.20	
SLA16-060	16	45	60	22	16	50	M10	M16	1.35	
SLA20-065	20	50	65	20	18	60	M12	x	1.50	
SLA25-075	25	55	75	20	22	65	M12	2.0P	1.75	
SLA32-090	32	60	90	30	22	70	M16		2.10	
SLA42-105	42	80	105	32	24	80	M16		3.60	
NT50										
SLA06-090	6	25	90	12	10	32	M6	1"-8	3.10	
SLA08-090	8	28	90	14	12	36	M8		3.10	
SLA10-090	10	35	90	15	14	40	M10		3.15	
SLA12-090	12	40	90	20	16	45	M10		3.30	
SLA16-090	16	45	90	22	18	50	M10		3.60	
SLA20-090	20	50	90	25	20	60	M12		3.65	
SLA20-150	20	50	150	25	20	60	M12		M24	4.70
SLA25-090	25	55	90	25	22	65	M12		x	3.80
SLA25-150	25	55	150	25	22	65	M12		3.0P	4.90
SLA32-090	32	60	90	30	22	70	M16			4.00
SLA32-150	32	60	150	30	22	70	M16			5.30
SLA32-200	32	60	200	30	22	70	M16			6.30
SLA42-105	42	80	105	32	24	80	M16		5.10	
SLA50.8-105	50.8	95	105	35	25	90	M20		6.10	

SLA Series

SLA (R8 Taper Shank)



unit: mm

Model	d	D	L	L1	L2	H	G	Weight (kg)
R8								
SLA06-055	6	25	55	12	10	32	M6	0.60
SLA08-055	8	28	55	14	12	36	M8	0.77
SLA10-055	10	35	55	15	14	40	M10	0.77
SLA12-055	12	40	55	18	16	45	M10	0.90
SLA16-060	16	45	60	20	18	50	M10	1.04
SLA20-065	20	50	65	25	20	60	M12	1.21
SLA25-075	25	55	75	25	22	65	M12	1.39

MILLING

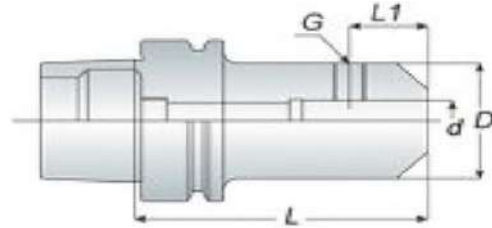
FACEMILLING

TAPPING

BORING

OTHERS

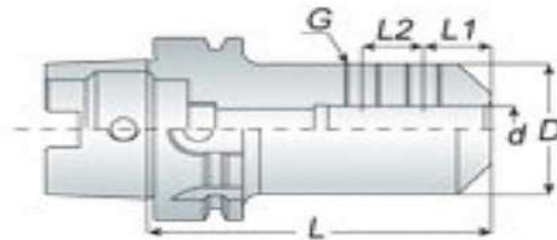
SLA (End Mill Holder - For 3D Sensor)



unit: mm

Model	d	D	L	L1	G	Weight (kg)
HSK40E						
SLA20-070	20	40	70	25	M8x1.25P	0.70
HSK50E						
SLA20-075	20	50	75	25	M8x1.25P	1.10

SLA (End Mill Holder)



unit: mm

Model	d	D	L	L1	L2	G	Weight (kg)
HSK50A							
SLA06-080	6	25	80	12	10	M06x1.0P	0.80
SLA08-080	8	28	80	14	12	M08x1.25P	0.80
SLA10-080	10	35	80	15	14	M10x1.5P	0.90
SLA12-080	12	40	80	20	16	M10x1.5P	1.00
SLA16-090	16	45	90	22	18	M10x1.5P	1.10
SLA20-090	20	50	90	25	20	M12x1.75P	1.20
HSK63A							
SLA06-080	6	25	80	12	10	M06x1.0P	1.00
SLA08-080	8	28	80	14	12	M08x1.25P	1.10
SLA10-080	10	35	80	15	14	M10x1.5P	1.20
SLA12-080	12	40	80	20	16	M10x1.5P	1.30
SLA16-100	16	45	100	22	18	M10x1.5P	1.70
SLA20-100	20	50	100	25	20	M12x1.75P	1.90
SLA25-110	25	55	110	25	22	M12x1.75P	2.00
SLA32-110	32	60	110	30	22	M16x2.0P	2.80

SLA Series

MILLING

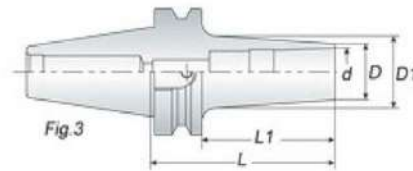
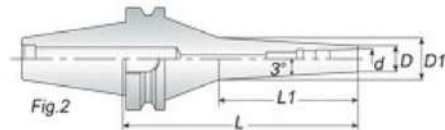
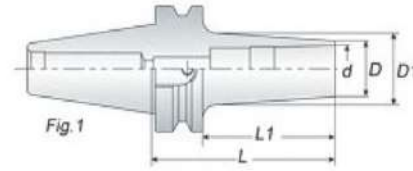
FACEMILLING

TAPPING

BORING

OTHERS

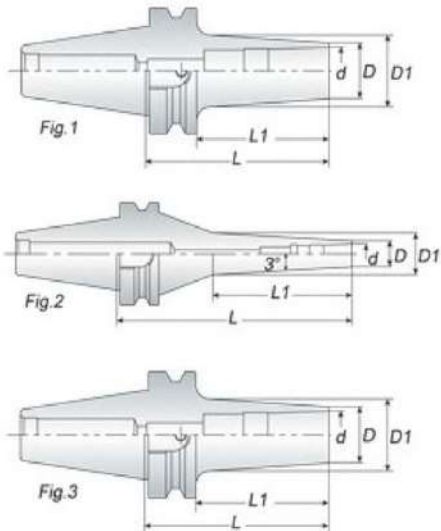
ADS (High Speed Collet Chuck)



unit: mm

Model	Figure	Clamping Range	D	D1	L1	L	Weight (kg)
BT30							
ADS06-060	2	2-6	13	15.5	26	60	0.50
ADS06-090	2	2-6	13	18	50	90	0.60
ADS08-060	1	3-8	16	20.5	40	60	0.50
ADS08-075	1	3-8	16	22.5	55	75	0.60
ADS10-090	1	3-10	21	26	68	90	0.65
ADS12-080	1	3-12	23	31	60	80	0.65
ADS12-110	1	3-12	23	35	90	110	0.90
BT40							
ADS06-060	2	2-6	13	16	26	60	1.10
ADS06-090	2	2-6	13	17.5	43	90	1.20
ADS06-120	2	2-6	13	19.5	60	120	1.30
ADS06-150	2	2-6	13	21	76	150	1.50
ADS08-065	1	3-8	16	20	40	65	1.10
ADS08-090	1	3-8	16	23	60	90	1.20
ADS08-120	1	3-8	16	25.5	80	120	1.30
ADS08-150	2	3-8	16	32	90	150	1.50
ADS10-090	1	3-10	21	26	63	90	1.20
ADS10-120	1	3-10	21	29	93	120	1.40
ADS10-150	1	3-10	21	32	123	150	1.70
BT40							
ADS12-090	1	3-12	23	31	65	90	1.30
ADS12-120	1	3-12	23	38	95	120	1.70
ADS12-150	2	3-12	23	40	88	150	1.90
ADS16-095	1	5-16	28	35	70	95	1.40
ADS16-125	1	5-16	28	38	100	125	1.60
ADS12D-075	3	3-12	30	37.5	50	75	1.60
ADS12D-090	3	3-12	30	36.5	65	90	1.80
ADS16D-075	3	5-16	40	47.5	50	75	1.70
ADS16D-090	3	5-16	40	46.5	65	90	1.90

ADS (High Speed Collet Chuck)



unit: mm

Model	Figure	Clamping Range	D	D1	L1	L	Weight (kg)
BT50							
ADS06-150	1	2-6	13	24	115	150	4.00
ADS08-095	1	3-8	16	23	60	95	3.90
ADS08-110	1	3-8	16	25	75	110	3.90
ADS10-100	1	3-10	21	26	62	100	4.00
ADS10-150	1	3-10	21	31	112	150	4.20
ADS12-100	1	3-12	23	31	65	100	4.10
ADS12-150	1	3-12	23	38.5	115	150	4.40
ADS16-100	1	5-16	28	34.5	65	100	4.00
ADS16-125	1	5-16	28	35.5	90	125	4.20

MILLING

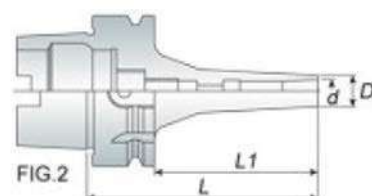
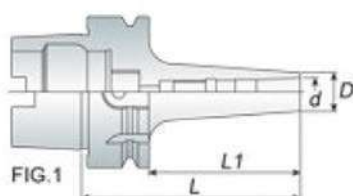
FACEMILLING

TAPPING

BORING

OTHERS

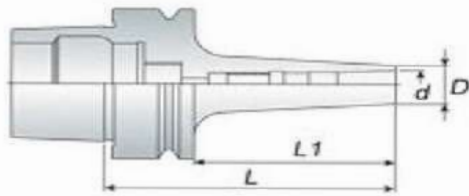
ADS (High Speed Collet Chuck)



unit: mm

Model	Figure	Clamping Range (d)	D	L	L1	Weight (kg)
HSK40A						
ADS06-090	2	1-6	13	90	70	0.50
HSK50A						
ADS08-085	1	3-8	16	85	59	0.60
ADS08-125	2	3-8	16	125	99	0.80
ADS10-095	1	3-10	21	95	69	1.00
ADS12-125	1	3-12	23	125	99	0.80
HSK63A						
ADS06-095	2	2-6	13	95	50	0.90
ADS06-120	2	2-6	13	120	60	1.00
ADS06-150	2	2-6	13	150	76	1.20
ADS08-100	1	3-8	16	100	74	1.00
ADS10-095	1	3-10	21	95	69	1.00
ADS10-120	1	3-10	21	120	94	1.10
ADS10-130	1	3-10	21	130	101	2.60
ADS12-125	1	3-12	23	125	99	1.20
ADS16-125	1	5-16	28	125	99	1.30
HSK100A						
ADS06-130	2	2-6	13	130	101	2.50
ADS08-130	2	3-8	16	130	101	2.50
ADS12-130	1	3-12	23	130	101	2.70
ADS16-130	1	5-16	28	130	101	2.90

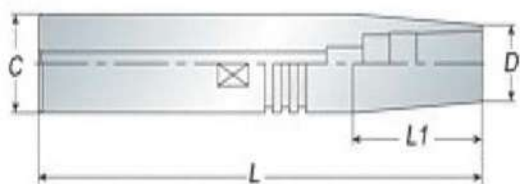
ADS (High Speed Collet Chuck)



unit: mm

Model	Clamping Range	D	L1	L	Weight (kg)
HSK40E					
ADS06-060	2~6	13	60	80	0.40
ADS10-060	2~6	13	70	90	0.50
ADS10-080	3~8	16	60	80	0.50
ADS16-080	3~10	21	70	90	0.60
HSK50E					
ADS06-075	2~6	13	49	75	0.60
ADS08-085	3~8	16	59	85	0.70
ADS10-095	3~10	21	69	95	0.80
ADS12-125	3~12	23	99	125	1.00

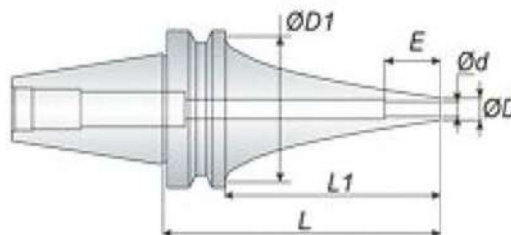
ADS (Straight Shank)



unit: mm

Model	Clamping Range	C	D	D1	L1	L	Weight (kg)
C12							
ADS06-120	2-6	12	13	10	40	120	0.20
ADS06-150	2-6	12	13	10	40	150	0.20
C16							
ADS06-150	2-6	16	13	14	38	150	0.20
ADS06-200	2-6	16	13	14	38	200	0.25
C20							
ADS06-150	2-6	20	13	17	70	150	0.30
ADS06-200	2-6	20	13	17	70	200	0.40
ADS08-150	3-8	20	16	17	50	150	0.30
ADS08-200	3-8	20	16	17	100	200	0.40
ADS10-200	3-10	20	19	17	50	200	0.50
C25							
ADS08-150	3-8	25	16	22	50	150	0.45
ADS08-200	3-8	25	16	22	100	200	0.60
ADS12-200	3-12	25	18	22	50	200	0.80
ADS12-250	3-12	25	18	22	50	250	1.05

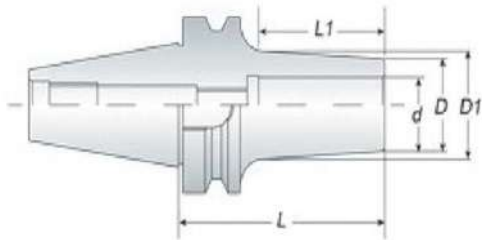
ASR (Curved Type)



unit: mm

Model	d	D	D1	L	L1	E	Weight (kg)
BT30							
ASR04-090S	4	7	34	90	68	12	2.70
ASR04-120S	4	7	34	120	98	12	6.50
ASR06-090S	6	9	34	90	68	18	2.30
ASR06-20S	6	9	34	120	98	18	5.50
ASR08-090S	8	11	34	90	68	24	2.20
ASR10-090S	10	13	34	90	68	30	2.10
BT40							
ASR04-120S	4	7	53	120	93	12	1.30
ASR04-150S	4	7	53	150	123	12	1.60
ASR06-120S	6	9	53	120	93	18	1.30
ASR06-50S	6	9	53	150	123	18	1.60
ASR08-120S	8	11	53	120	93	24	1.30
ASR08-150S	8	11	53	150	123	24	1.60
ASR10-120S	10	13	53	120	93	30	1.30
ASR10-150S	10	13	53	150	123	30	1.60
ASR12-120S	12	15	53	120	93	30	1.30
ASR12-150S	12	15	53	150	123	30	1.60
BT50							
ASR04-165S	4	7	85	165	127	12	5.30
ASR06-165S	6	9	85	165	127	18	5.20
ASR08-165S	8	11	85	165	127	24	4.90
ASR10-165S	10	13	85	165	127	30	4.90
ASR12-165S	12	15	84	165	127	30	4.90

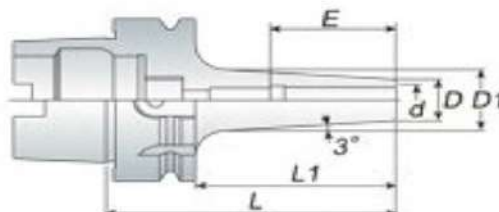
ASR (Shrink Chuck)



unit: mm

Model	d	D	D1	L	L1	Weight (kg)
BT30						
ASR04-075	4	10	15	75	44	0.55
ASR05-075	5	10	15	75	44	0.55
ASR06-075	6	14	19	75	47	0.55
ASR08-075	8	18	23	75	47	0.60
ASR10-075	10	22	27	75	47	0.60
ASR12-075	12	24	29	75	47	0.65
ASR16-075	16	28	33	75	47	0.70
BT40						
ASR04-090	4	10	16	90	52	1.20
ASR05-090	5	10	16	90	52	1.20
ASR06-090	6	14	20	90	57	1.20
ASR08-090	8	18	24	90	57	1.20
BT40						
ASR10-090	10	22	28	90	57	1.30
ASR12-090	12	24	30	90	57	1.30
ASR16-090	16	28	34	90	57	1.30
ASR20-100	20	34	41	100	65	1.50
ASR25-100	25	44	51	100	65	1.50
ASR32-100	32	44	51	100	65	1.55
BT50						
ASR06-105	6	14	21	105	61	3.70
ASR06-165	6	14	26	165	116	3.90
ASR08-105	8	18	25	105	61	3.80
ASR08-165	8	18	30	165	116	4.00
ASR10-105	10	22	29	105	61	4.20
ASR10-165	10	22	29	165	116	4.50
ASR12-105	12	24	31	105	61	4.40
ASR12-165	12	24	31	165	116	4.80
ASR16-105	16	28	35	105	61	4.40
ASR16-165	16	28	35	165	116	4.90
ASR20-105	20	34	41	105	61	4.70
ASR20-165	20	34	41	165	116	5.20
ASR25-105	25	44	51	105	61	4.70
ASR25-165	25	44	56	165	116	5.30
ASR32-105	32	44	51	105	61	5.00
ASR32-165	32	44	56	165	116	5.60

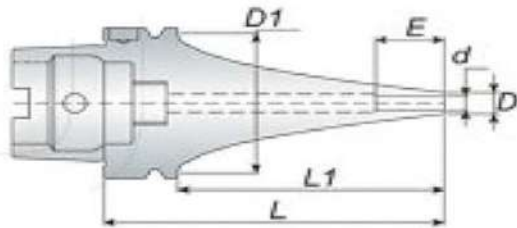
ASR (Shrink Chuck)



unit: mm

Model	d	D	D1	L	L1	E	Weight (kg)
HSK63A							
ASR04-090	4	10	14.6	90	45	16	0.80
ASR05-090	5	10	15.7	90	46	20	0.80
ASR06-090	6	14	19	90	50	24	0.90
ASR08-090	8	18	23	90	50	26	0.90
ASR10-090	10	22	27	90	50	30	1.00
ASR12-090	12	24	29	90	50	30	1.00
ASR16-090	16	28	33	90	50	36	1.10
ASR20-100	20	34	40	100	50	40	1.20
ASR25-115	25	44	50	115	89	45	1.40
ASR32-120	32	44	50	120	94	45	1.50
HSK100A							
ASR04-105	4	10	16.5	105	66	16	2.00
ASR05-105	5	10	16.5	105	66	20	2.20
ASR06-105	6	14	20	105	57	24	2.30
ASR08-105	8	18	24	105	57	26	2.50
ASR10-105	10	22	28	105	57	30	2.50
ASR12-105	12	24	30	105	57	30	2.60
ASR16-105	16	28	34	105	57	36	2.70
ASR20-105	20	34	40	105	57	40	2.80
ASR25-115	25	44	52	115	74	45	3.50
ASR32-120	32	44	52	120	78	45	4.60

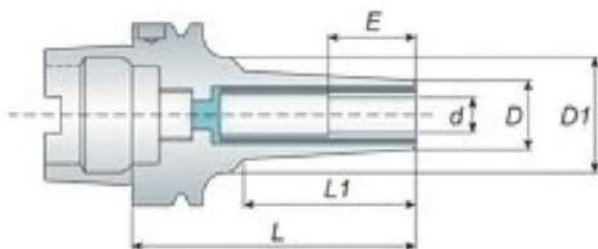
ASR (Curved Type)



unit: mm

Model	d	D	D1	L	L1	E	Weight (kg)
HSK63A							
ASR04S-090S	4	7	53	90	64	16	1.00
ASR04S-120S	4	7	53	120	94	16	1.1
ASR04S-150S	4	7	53	150	124	16	1.3
ASR06S-090S	6	9	53	90	64	24	1.00
ASR06S-120S	6	9	53	120	94	24	1.1
ASR06S-150S	6	9	53	150	124	24	1.3
ASR08S-090S	8	11	53	90	64	26	1.00
ASR08S-120S	8	11	53	120	94	26	1.1
ASR08S-150S	8	11	53	150	124	26	1.3
ASR10S-090S	10	13	53	90	64	30	1.00
ASR10S-120S	10	13	53	120	94	30	1.3
ASR10S-150S	10	13	53	150	124	30	1.4
ASR12S-090S	12	15	53	90	64	30	1.20
ASR12S-120S	12	15	53	120	94	30	1.3
ASR12S-150S	12	15	53	150	124	30	1.5

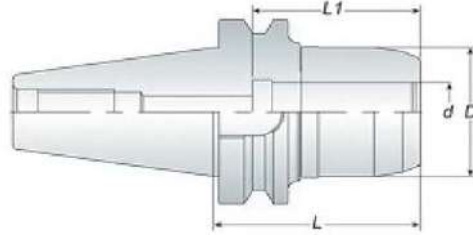
ASR (Coolant Type)



unit: mm

Model	d	D	D1	L	L1	E	Weight (kg)
HSK63A							
ASR06-090	6	14	19	90	50	24	0.90
ASR08-090	8	18	23	90	50	26	0.90
ASR10-090	10	22	27	90	50	30	1.00
ASR12-090	12	24	29	90	50	30	1.00
ASR16-090	16	28	33	90	50	36	1.10

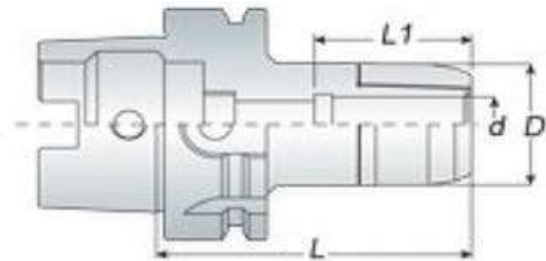
ASG (High Speed Milling Chuck)



unit: mm

Model	Clamping Range	d	D	L	L1	Collet Type	Weight (kg)
BT30							
ASG12-070	3~12	12	35	70	–	SC12	1.1
ASG16-080	3~16	16	46	80	65	SC16	1.1
ASG20-085	4~20	20	54	85	72	SC20	1.4
BT40							
ASG12-080	3~12	12	35	80	–	SC12	1.4
ASG12-095	3~12	12	35	95	–	SC12	1.5
ASG12-120	3~12	12	35	120	–	SC12	1.8
ASG16-080	3~16	16	46	80	65	SC16	1.6
ASG16-105	3~16	16	46	105	65	SC16	2
ASG16-135	3~16	16	46	135	65	SC16	2.4
ASG20-080	4~20	20	54	80	72	SC20	1.8
ASG20-105	4~20	20	54	105	72	SC20	2.3
ASG20-135	4~20	20	54	135	72	SC20	2.9
ASG25-090	6~25	25	58	90	85	SC25	2
ASG25-120	6~25	25	58	120	85	SC25	2.6
ASG32-105	6~32	32	68	105	95	SC32	2.4
ASG32-135	6~32	32	68	135	95	SC32	3.2
	3~12	12	35	90	–	SC12	4.1
BT50							
ASG12-090							
ASG12-110	3~12	12	35	110	–	SC12	4.3
ASG12-135	3~12	12	35	135	–	SC12	4.4
ASG16-090	3~16	16	46	90	65	SC16	4.4
ASG16-110	3~16	16	46	110	65	SC16	4.7
ASG16-135	3~16	16	46	135	65	SC16	4.9
ASG16-150	3~16	16	46	150	65	SC16	5.2
ASG20-090	4~20	20	54	90	72	SC20	4.5
ASG20-110	4~20	20	54	110	72	SC20	5
ASG20-135	4~20	20	54	135	72	SC20	5.3
ASG20-150	4~20	20	54	150	72	SC20	5.4
ASG25-110	6~25	25	58	110	85	SC25	5
ASG25-150	6~25	25	58	150	85	SC25	5.4
ASG32-110	6~32	32	68	10	95	SC32	5.1
ASG32-150	6~32	32	68	150	95	SC32	6.4

ASG (High Speed Milling Chuck)



unit: mm

Model	Clamping Range	d	D	L	L1	Collet Type	Weight (kg)
HSK50A							
ASG12-075	3-12	12	35	75	-	SC12	0.80
ASG16-100	3-16	16	46	100	65	SC16	0.80
HSK63A							
ASG12-075	3-12	12	35	75	-	SC12	1.10
ASG12-095	3-12	12	35	95	-	SC12	1.30
ASG12-120	3-12	12	35	120	-	SC12	1.50
ASG16-080	3-16	16	46	80	65	SC16	1.30
ASG16-100	3-16	16	46	100	65	SC16	1.60
ASG20-095	4-20	20	54	95	72	SC20	1.90
ASG25-105	6-25	25	58	105	85	SC25	2.00
ASG32-115	6-32	32	68	115	95	SC32	2.10
HSK100A							
ASG12-115	3-12	12	35	115	-	SC12	3.00
ASG12-135	3-12	12	35	135	-	SC12	3.30
ASG16-115	3-16	16	46	115	65	SC16	3.00
ASG16-135	3-16	16	46	135	65	SC16	3.30
ASG20-115	4-20	20	54	115	72	SC20	3.20
ASG20-135	4-20	20	54	135	72	SC20	3.80
ASG20-165	4-20	20	54	165	72	SC20	4.60
ASG25-115	6-25	25	58	115	85	SC25	3.40
ASG25-135	6-25	25	58	135	85	SC25	4.00
ASG25-165	6-25	25	58	165	85	SC25	4.80
ASG32-115	6-32	32	68	115	95	SC32	3.40
ASG32-135	6-32	32	68	135	95	SC32	4.20
ASG32-165	6-32	32	68	165	95	SC32	5.00

MILLING

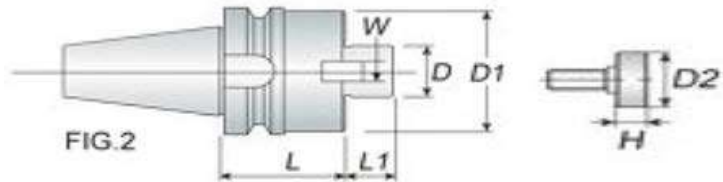
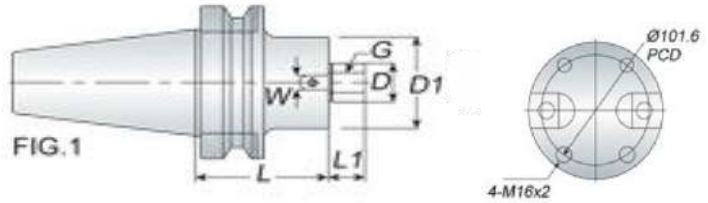
FACEMILLING

TAPPING

BORING

OTHERS

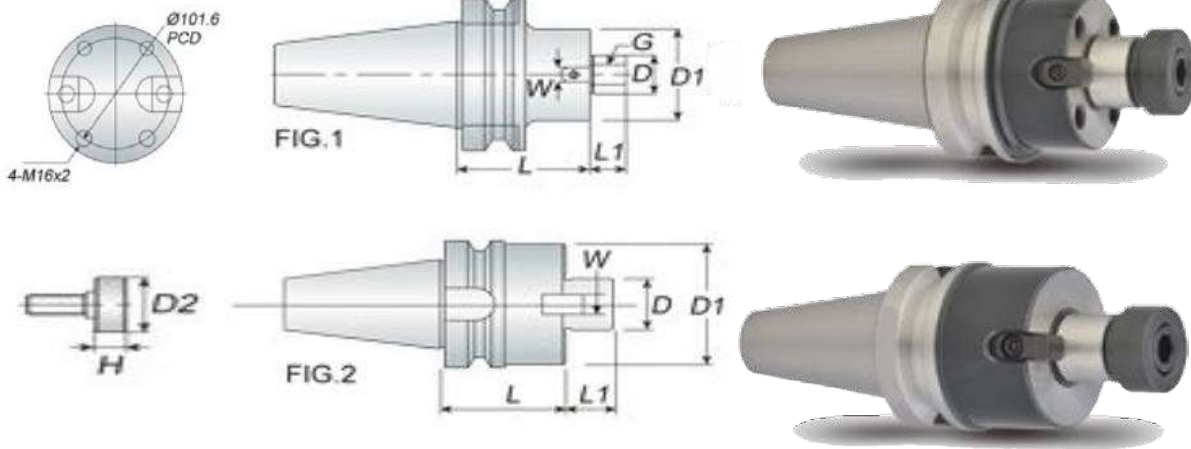
FMA (Face Mill Holder - Inch)



unit: mm

Model	Figure	D	D1	D2	L	L1	W	H	G	Weight (kg)
BT30										
FMA25.4-045	1	25.4	45	33	45	20	9.5	13	M12	0.90
FMA25.4-060	1	25.4	45	33	60	20	9.5	13	M12	1.20
FMA31.75-045	1	31.75	55	40	45	22	12.7	13.5	M12	1.30
BT40										
FMA25.4-045	1	25.4	60	33	45	20	9.5	13	M12	1.70
FMA25.4-060	1	25.4	60	33	60	20	9.5	13	M12	2.00
FMA25.4-090	1	25.4	60	33	90	20	9.5	13	M12	2.60
FMA25.4-105	1	25.4	60	33	105	20	9.5	13	M12	2.90
FMA25.4-125	1	25.4	60	33	125	20	9.5	13	M12	3.20
FMA25.4-150	1	25.4	60	33	150	20	9.5	13	M12	3.80
FMA31.75-045	1	31.75	70	40	45	22	12.7	13.5	M12	1.80
FMA31.75-060	1	31.75	70	40	60	22	12.7	13.5	M12	2.30
FMA31.75-090	1	31.75	70	40	90	22	12.7	13.5	M12	3.20
FMA31.75-105	1	31.75	70	40	105	22	12.7	13.5	M12	3.30
FMA38.1-045	1	38.1	85	50	45	23	15.9	13	M16	2.60
FMA38.1-060	1	38.1	85	50	60	23	15.9	13	M16	2.80
FMA38.1-090	1	38.1	85	50	90	23	15.9	13	M16	3.40
BT50										
FMA25.4-045	1	25.4	60	33	45	20	9.5	13	M12	4.20
FMA25.4-075	1	25.4	60	33	75	20	9.5	13	M12	4.90
FMA25.4-045S	1	25.4	48	33	15	20	9.5	13	M12	4.00
FMA25.4-075S	1	25.4	48	33	75	20	9.5	13	M12	4.50
FMA25.4-105	1	25.4	60	33	105	20	9.5	13	M12	5.30
FMA25.4-125	1	25.4	60	33	125	20	9.5	13	M12	5.60
FMA25.4-105S	1	25.4	48	33	105	20	9.5	13	M12	4.80
FMA25.4-125S	1	25.4	48	33	125	20	9.5	13	M12	5.20
FMA25.4-150	1	25.4	60	33	150	20	9.5	13	M12	6.10
FMA25.4-200	1	25.4	60	33	200	20	9.5	13	M12	7.30
FMA25.4-150S	1	25.4	48	33	150	20	9.5	13	M12	5.60
FMA25.4-200S	1	25.4	48	33	200	20	9.5	13	M12	6.00
FMA25.4-250	1	25.4	60	33	250	20	9.5	13	M12	8.20
FMA25.4-300	1	25.4	60	33	300	20	9.5	13	M12	9.30

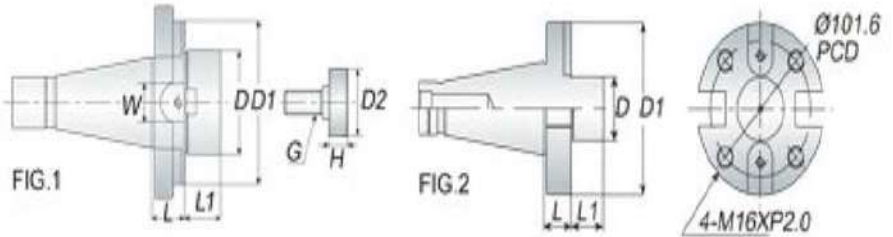
FMA (Face Mill Holder - Inch)



unit: mm

Model	Figure	D	D1	D2	L	L1	W	H	G	Weight (kg)
BT50										
FMA25.4-250S	1	25.4	48	33	250	20	9.5	13	M12	6.90
FMA25.4-300S	1	25.4	48	33	300	20	9.5	13	M12	7.20
FMA25.4-350	1	25.4	60	33	350	20	9.5	13	M12	10.20
FMA25.4-400	1	25.4	60	33	400	20	9.5	13	M12	11.20
FMA31.75-045	1	31.75	70	40	45	22	12.7	13.5	M12	4.40
FMA31.75-075	1	31.75	70	40	75	22	12.7	13.5	M12	5.30
FMA31.75-105	1	31.75	70	40	105	22	12.7	13.5	M12	6.20
FMA31.75-125	1	31.75	70	40	125	22	12.7	13.5	M12	6.50
FMA31.75-150	1	31.75	70	40	150	22	12.7	13.5	M12	7.30
FMA31.75-200	1	31.75	70	40	200	22	12.7	13.5	M12	8.60
FMA31.75-250	1	31.75	70	40	250	22	12.7	13.5	M12	10.30
FMA31.75-300	1	31.75	70	40	300	22	12.7	13.5	M12	11.40
FMA38.1-045	1	38.1	85	50	045	23	15.9	15	M16	4.5
FMA38.1-075	1	38.1	85	50	075	23	15.9	15	M16	5.90
FMA38.1-105	1	38.1	85	50	105	23	15.9	15	M16	7.10
FMA38.1-125	1	38.1	85	50	125	23	15.9	15	M16	8.30
FMA38.1-150	1	38.1	85	50	150	23	15.9	15	M16	9.50
FMA38.1-175	1	38.1	85	50	175	23	15.9	15	M16	10.30
FMA38.1-200	1	50.8	85	50	200	23	15.9	15	M16	10.90
FMA50.8-045	1	50.8	95	65	45	24	19.05	16	M16	5.00
FMA50.8-075	1	50.8	95	65	75	24	19.05	16	M16	6.60
FMA50.8-105	1	50.8	95	65	105	24	19.05	16	M16	8.60
FMA50.8-150	1	50.8	95	65	150	24	19.05	16	M16	11.20
FMA50.8-200	1	50.8	95	65	200	24	19.05	16	M16	13.40
FMA47.625-075	2	47.625	128.57	-	75	32	25.4	-	-	8.30
FMA47.625-105	2	47.625	125.57	-	105	32	25.4	-	-	10.30
FMA47.625-200	2	47.625	128.57	-	200	32	25.4	-	-	15.0

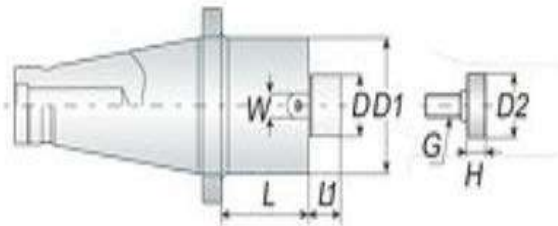
FMA (Face Mill Holder - Inch)



unit: mm

Model	Figure	D	D1	D2	L	L1	W	H	G	Draw Bolt	Weight (kg)
NT30											
FMA25.4-020	1	25.4	65	33	20	20	9.5	13	M12	1/2"-12 M12 x 1.75P	0.80
FMA31.75-020	1	31.75	73	40	20	22	12.7	13.5	M12		0.90
FMA38.1-020	1	38.1	82	50	20	23	15.9	15	M16		1.20
NT40											
FMA25.4-020	1	25.4	65	33	20	20	9.5	13	M12	5/8"-11 M16 x 2.0P	1.40
FMA31.75-020	1	31.75	73	40	20	22	12.7	13.5	M12		1.50
FMA38.1-020	1	38.1	82	50	20	23	15.9	15	M16		2.10
FMA50.8-020	1	50.8	95	65	20	24	19.05	16	M16		2.50
FMA47.625-020	2	47.625	128.57	-	20	32	25.4	-	-		3.90
NT50											
FMA25.4-020	1	25.4	65	33	20	20	9.5	13	M12	1"-8 M24 x 3.0P	3.30
FMA31.75-020	1	31.75	73	40	20	22	12.7	13.5	M12		3.30
FMA38.1-020	1	38.1	82	50	20	23	15.9	15	M16		3.60
FMA50.8-020	1	50.8	95	65	20	24	19.05	16	M16		4.20
FMA47.625-024	2	47.625	128.57	-	24	32	25.4	-	-		5.30

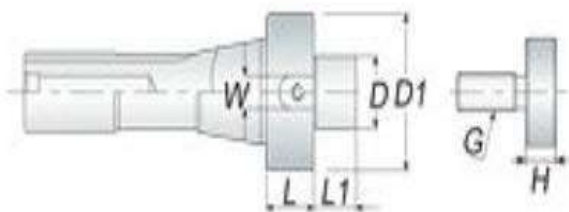
FMA (Face Mill Holder - Long Type)



unit: mm

Model	D	D1	D2	L	L1	W	H	G	Draw Bolt
NT40									
FMA25.4-L	25.4	60	33	50/75 100	20	9.5	13	M12	5/8"-11 M16 x 2.0P
FMA31.75-L	31.75	70	40		22	12.7	13.5	M12	
FMA38.1-L	38.1	85	50		23	15.9	15	M16	
FMA50.8-L	50.8	95	65		24	19.05	16	M16	
NT50									
FMA25.4-L	25.4	60	33	50/75	20	9.5	13	M12	1"-8 M24 x 3.0P
FMA31.75-L	31.75	70	40	100/125	22	12.7	13.5	M12	
FMA38.1-L	38.1	85	50	150/200	23	15.9	15	M16	
FMA50.8-L	50.8	95	65	300	24	19.05	16	M16	
FMA47.625-L	47.625	128.57	-		32	25.4	-	-	

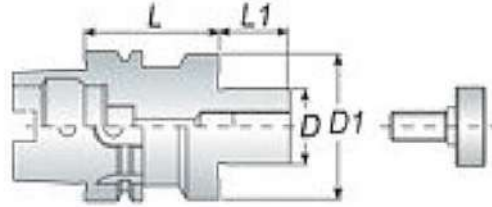
FMA (R8 Taper Shank)



unit: mm

Model	D	D1	L	L1	W	H	G	Weight (kg)
R8								
FMA25.4-020	25.4	48	20	20	0.5	13	M12	0.90
FMA31.75-020	31.75	54	20	22	12.7	13.5	M12	1.40

FMA (Face Mill Holder - Inch)



unit: mm

Model	D	D1	L	L1	Weight (kg)
HSK50A					
FMA25.4-055	25.4	45	55	20	1.00
HSK63A					
FMA25.4-060	25.4	60	60	20	1.50
FMA25.4-090	25.4	60	90	20	2.10
FMA25.4-120	25.4	60	120	20	2.40
FMA25.4-150	25.4	60	150	20	2.70
FMA31.75-060	31.75	70	60	22	1.50
FMA31.75-090	31.75	70	90	22	2.40
HSK100A					
FMA25.4-060	25.4	60	60	20	4.10
FMA25.4-090	25.4	60	90	20	4.70
FMA25.4-105	25.4	60	105	20	5.00
FMA25.4-150	25.4	60	150	20	5.90
FMA25.4-200	25.4	60	200	20	6.8
FMA31.75-060	31.75	70	60	22	4.10
FMA31.75-090	31.75	70	90	22	4.90
FMA31.75-105	31.75	70	105	22	5.40
FMA31.75-150	31.75	70	150	22	6.70
FMA31.75-200	31.75	70	200	22	8.2
FMA38.1-060	38.1	85	60	23	4.20
FMA38.1-090	38.1	85	90	23	5.40
FMA38.1-105	38.1	85	105	23	6.00
FMA38.1-150	38.1	85	150	23	7.90
FMA50.8-075	50.8	95	75	24	5.9

FMA Series

MILLING

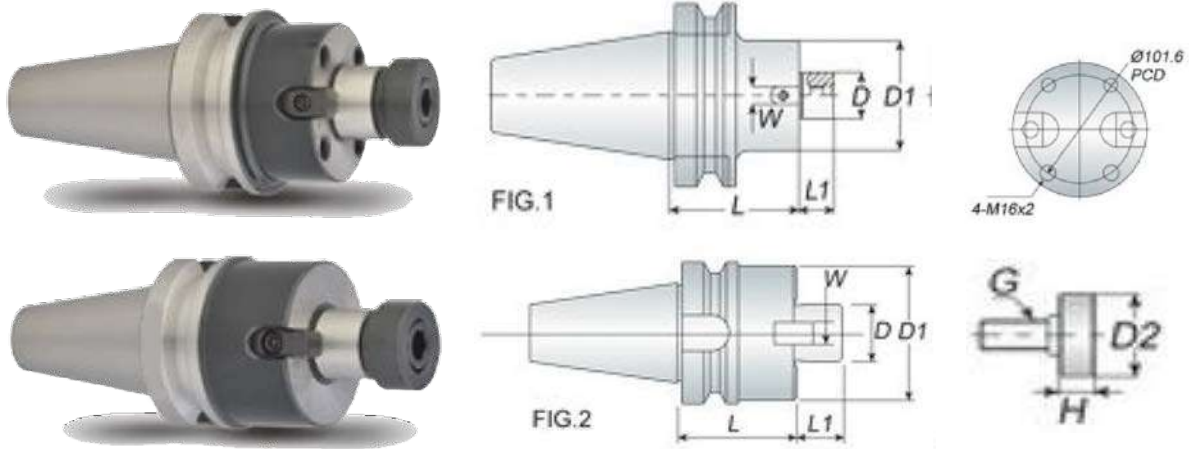
FACEMILLING

TAPPING

BORING

OTHERS

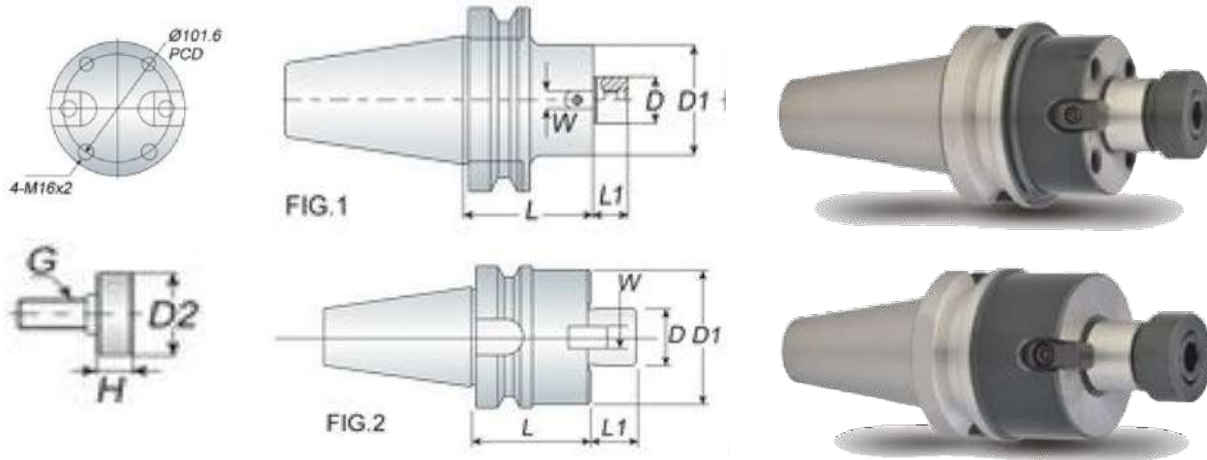
FMB (Face Mill Holder - Metric)



unit: mm

Model	Figure	D	D1	D2	L	L1	W	H	G	Weight (kg)
BT30										
FMB22-045	1	22	56	-	45	18	10	-	M10	0.80
FMB27-045	1	27	60	32	45	20	12	13	M12	1.00
BT40										
FMB16-045	1	16	38	-	45	17	10	-	M8	1.30
FMB22-045	1	22	48	-	45	18	10	-	M10	1.40
FMB22-060	1	22	48	-	60	18	10	-	M10	1.60
FMB22-090	1	22	48	-	90	18	10	-	M10	2.10
FMB22-105	1	22	48	-	105	18	10	-	M10	2.40
FMB22-125	1	22	48	-	125	18	10	-	M10	2.60
FMB22-150	1	22	48	-	150	18	10	-	M10	2.80
FMB22-200	1	22	48	-	200	18	10	-	M10	3.50
FMB27-045	1	27	60	32	45	20	12	13	M12	1.70
FMB27-060	1	27	60	32	60	20	12	13	M12	2.00
FMB27-090	1	27	60	32	90	20	12	13	M12	2.60
FMB27-105	1	27	60	32	105	20	12	13	M12	3.00
FMB32-045	1	32	63	41	45	21	14	16	M16	1.80
FMB32-060	1	32	63	41	60	21	14	16	M16	2.10
FMB32-090	1	32	63	41	90	21	14	16	M16	3.00
FMB32-105	1	32	63	41	105	21	14	16	M16	3.30
FMB40-045	1	40	68	47	45	23	16	15	M16	2.00
FMB40-060	1	40	68	47	60	23	16	15	M16	2.70

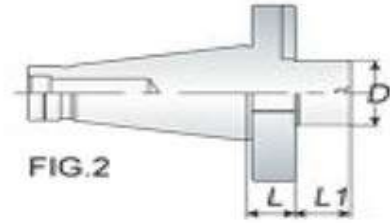
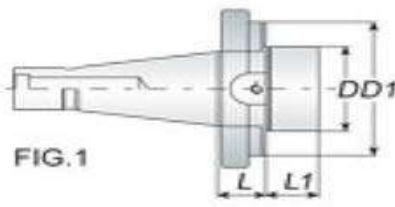
FMB (Face Mill Holder - Metric)



unit: mm

Model	Figure	D	D1	D2	L	L1	W	H	G	Weight (kg)
BT50										
FMB16-045	1	16	38	-	45	17	10	-	M8	3.8
FMB22-045	1	22	48	-	45	18	10	-	M10	4.00
FMB22-075	1	22	48	-	75	18	10	-	M10	4.50
FMB22-105	1	22	48	-	105	18	10	-	M10	4.80
FMB22-125	1	22	48	-	125	18	10	-	M10	5.20
FMB22-150	1	22	48	-	150	18	10	-	M10	5.60
FMB22-175	1	22	48	-	175	18	10	-	M10	6.00
FMB22-200	1	22	48	-	200	18	10	-	M10	6.30
FMB22-250	1	22	48	-	250	18	10	-	M10	6.90
FMB22-300	1	22	48	-	300	18	10	-	M10	7.20
FMB22-350	1	22	48	-	350	18	10	-	M10	7.70
FMB22-400	1	22	48	-	400	18	10	-	M10	8.30
FMB27-045	1	27	65	32	45	20	12	13	M12	4.30
FMB27-075	1	27	65	32	75	20	12	13	M12	5.00
FMB27-090	1	27	65	32	90	20	12	13	M12	5.40
FMB27-105	1	27	65	32	105	20	12	13	M12	5.80
FMB27-150	1	27	65	32	150	20	12	13	M12	7.20
FMB27-200	1	27	65	32	200	20	12	13	M12	8.90
FMB32-045	1	32	73	41	45	21	14	16	M16	4.40
FMB32-075	1	32	73	41	75	21	14	16	M16	5.40
FMB32-105	1	32	73	41	105	21	14	16	M16	6.60
FMB32-150	1	32	73	41	150	21	14	16	M16	8.00
FMB32-200	1	32	73	41	200	21	14	16	M16	9.70
FMB40-045	1	40	85	47	45	23	16	15	M16	4.60
FMB40-075	1	40	85	47	75	23	16	15	M16	5.90
FMB40-105	1	40	85	47	105	23	16	15	M16	6.90
FMB40-150	1	40	85	47	150	23	16	15	M16	8.60
FMB60-075	2	60	128.57	-	75	32	25.4	-	-	7.30

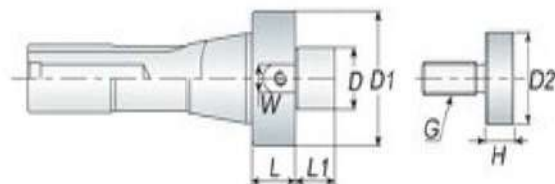
FMB (Face Mill Holder - Metric)



unit: mm

Model	Figure	D	D1	D2	L	L1	H	G	Draw Bolt	Weight (kg)
NT30										
FMB22-020	1	22	53	-	20	18	-	M10	M12 x 1.75P	0.60
FMB27-020	1	27	54	32	20	20	13	M12		0.80
FMB32-020	1	32	59	41	20	21	16	M16		1.00
NT40										
FMB22-020	1	22	60	-	20	18	-	M10	M16 x 2.0P	1.20
FMB27-020	1	27	58	32	20	20	13	M12		1.40
FMB32-020	1	32	69	41	20	21	16	M16		1.40
FMB40-020	1	40	80	41	20	24	15	M16		1.80
FMB60-024	2	60	128	-	24	32	-	-		4.00
NT50										
FMB22-020	1	22	40	-	20	18	-	M10	M24 x 3.0P	3.10
FMB27-020	1	27	70	31	20	20	13	M12		3.30
FMB32-020	1	32	76	41	20	21	16	M16		3.40
FMB40-020	1	40	88	41	20	24	15	M16		3.70
FMB60-024	2	60	128	-	24	32	-	-		5.50

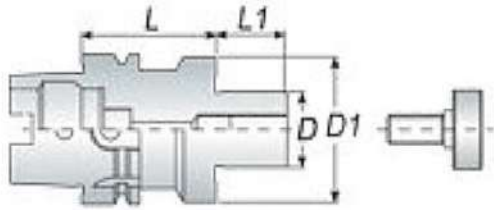
FMB (R8 Taper Shank)



unit: mm

Model	D	D1	D2	L	L1	W	H	G	Weight (kg)
R8									
FMB22-020	22	48	-	20	18	10	-	M10	0.80
FMB27-020	27	54	32	20	22	12	13	M12	1.00

FMB (Face Mill Holder - Metric)



unit: mm

Model	D	D1	L	L1	Weight (kg)
HSK50A					
FMB16-045	16	38	45	16	0.8
FMB22-050	22	40	50	18	0.8
FMB27-055	27	50	55	20	1.00
HSK63A					
FMB16-045	16	38	45	16	1.00
FMB22-045	22	40	45	18	1.10
FMB22-060	22	40	60	18	1.20
FMB22-090	22	40	90	18	1.60
FMB22-120	22	40	120	18	1.90
FMB22-150	22	40	150	18	2.10
FMB27-055	27	52	55	20	1.6
FMB32-055	32	58	55	21	1.7
HSK100A					
FMB22-100	22	40	100	18	3.65
FMB27-100	27	52	100	20	4.9
FMB32-100	32	58	100	21	5.2

MILLING

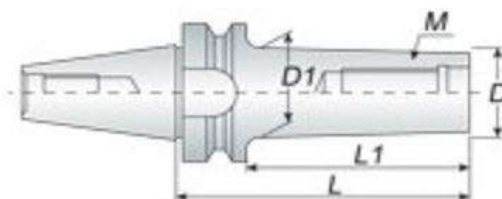
FACEMILLING

TAPPING

BORING

OTHERS

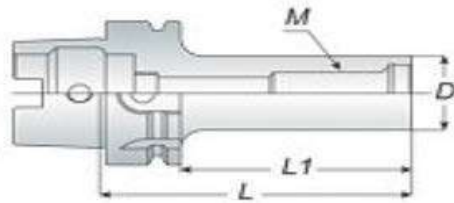
AMD (Screw-in Endmill Holder)



unit: mm

Model	M	D	D1	L1	L	Weight (kg)
BT40						
AMD122-080	6	11	12	53	80	1.10
AMD122-100	6	11	12	73	100	1.20
AMD123-080	6	11	12	53	80	1.20
AMD162-080	8	13	16	53	80	1.20
AMD162-100	8	13	16	73	100	1.30
AMD202-080	10	18	20	53	80	1.20
AMD202-100	10	18	20	73	100	1.30
AMD253-080	12	21	25	53	80	1.30
AMD253-100	12	21	25	73	100	1.40
AMD354-080	16	29	35	53	80	1.40
AMD354-100	16	29	35	73	100	1.60
BT50						
AMD122-100	6	11	12	62	100	4.00
AMD122-120	6	11	12	82	120	4.10
AMD162-100	8	13	16	62	100	4.00
AMD162-120	8	13	16	82	120	4.10
AMD202-100	10	18	20	62	100	4.10
AMD202-120	10	18	20	82	120	4.20
AMD253-100	12	21	25	62	100	4.10
AMD253-120	12	21	25	82	120	4.20
AMD354-100	16	29	35	62	100	4.20
AMD354-120	16	29	35	82	120	4.30

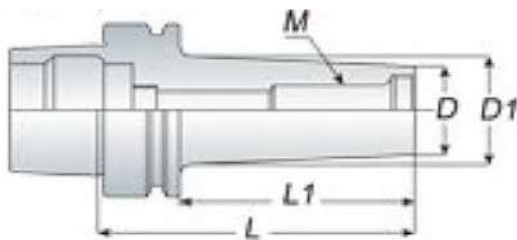
AMD (Screw-in Endmill Holder)



unit: mm

Model	M	D	L1	L	Weight (kg)
HSK63A					
AMD122-080	6	11	54	80	0.90
AMD122-100	6	11	74	100	1.00
AMD123-080	6	11	54	80	0.90
AMD162-080	8	13	54	80	0.90
AMD162-100	8	13	74	100	1.00
AMD202-080	10	18	54	80	0.90
AMD202-100	10	18	74	100	1.00
AMD253-080	12	21	54	80	0.90
AMD253-100	12	21	74	100	1.00
AMD354-080	16	29	54	80	1.00
AMD354-100	16	29	74	100	1.20

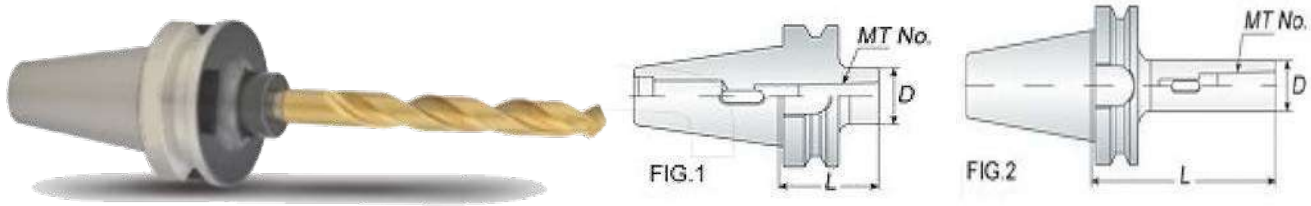
AMD (Screw-in Endmill Holder)



unit: mm

Model	M	D	D1	L1	L	Weight (kg)
HSK40E						
AMD123-060	6	11	17	60	33	0.40
AMD122-060	6	11	19	60	35	0.40
AMD202-060	10	18	23	60	33	0.50
HSK50E						
AMD123-060	6	11	17	60	25	0.70
AMD122-060	6	11	17	60	25	0.70
AMD202-060	10	18	22	60	24	0.85

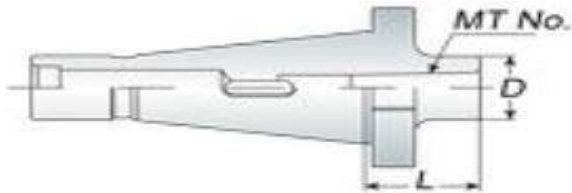
MTA (Morse Taper Holder)



unit: mm

Model	Figure	MT Number	D	L	Capacity			Weight (kg)
					Drill	Reamer	Endmill	
BT30								
MTA1-045	1	MTA1	25	45	2-14	5-14	10-14	0.50
MTA1-120	2	MTA1	25	120	2-14	5-14	10-14	0.80
MTA2-060	1	MTA2	32	60	14-23	14.5-23	16-22	0.60
MTA2-120	2	MTA2	32	120	14-23	14.5-23	16-22	1.00
MTA3-090	1	MTA3	40	90	23-32	24-32	24-32	0.90
MTA3-135	2	MTA3	40	135	23-32	24-32	24-32	1.30
BT40								
MTA1-045	1	MTA1	25	45	2-14	5-14	10-14	1.10
MTA1-120	2	MTA1	25	120	2-14	5-14	10-14	1.40
MTA1-180	2	MTA1	25	180	2-14	5-14	10-14	1.70
MTA2-045	1	MTA2	32	45	14-23	14.5-23	16-22	1.10
MTA2-120	2	MTA2	32	120	14-23	14.5-23	16-22	1.60
MTA2-180	2	MTA2	32	180	14-23	14.5-23	16-22	2.00
MTA3-075	1	MTA3	40	75	23-32	24-32	24-32	1.20
MTA3-135	2	MTA3	40	135	23-32	24-32	24-32	1.90
MTA3-180	2	MTA3	40	180	23-32	24-32	24-32	2.40
MTA4-090	1	MTA4	50	90	32-50	32-50	35-50	1.50
MTA4-165	2	MTA4	50	165	32-50	32-50	35-50	2.60
BT50								
MTA1-045	1	MTA1	25	45	2-14	5-14	10-14	3.80
MTA1-120	2	MTA1	25	120	2-14	5-14	10-14	4.20
MTA1-180	2	MTA1	25	180	2-14	5-14	10-14	4.50
MTA2-045	1	MTA2	32	45	14-23	14.5-23	16-22	3.80
MTA2-135	2	MTA2	32	135	14-23	14.5-23	16-22	4.40
MTA2-180	2	MTA2	32	180	14-23	14.5-23	16-22	4.70
MTA3-045	1	MTA3	40	45	23-32	24-32	24-32	3.60
MTA3-150	2	MTA3	40	150	23-32	24-32	24-32	4.70
MTA3-180	2	MTA3	40	180	23-32	24-32	24-32	5.10
MTA4-075	1	MTA4	50	75	32-50	32-50	35-50	3.80
MTA4-180	2	MTA4	50	180	32-50	32-50	35-50	5.50
MTA5-105	1	MTA5	65	105	50-75	50-75	40-75	4.10
MTA5-210	2	MTA5	65	210	50-75	50-75	40-75	6.80

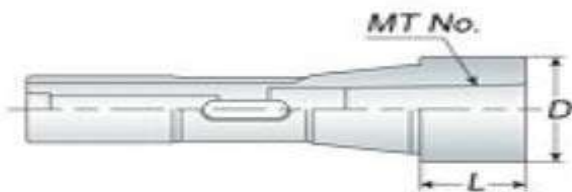
MTA (Morse Taper Holder)



unit: mm

Model	MT Number	D	L	Draw Bolt	Weight (kg)
NT30					
MTA1-045	MTA1	25	45	1/2" - 12 M12x1.75P	0.50
MTA2-050	MTA2	32	50		0.50
MTA3-065	MTA3	40	65		0.75
NT40					
MTA1-030	MTA1	25	30	5/8" - 11 M16x2.0P	0.90
MTA2-040	MTA2	32	40		0.95
MTA3-070	MTA3	40	70		1.20
MTA4-090	MTA4	50	90		1.50
NT50					
MTA2-030	MTA2	32	30	1" - 8 M24x3.0P	2.80
MTA3-030	MTA3	40	30		2.80
MTA4-070	MTA4	50	70		3.10
MTA5-105	MTA5	65	105		4.00

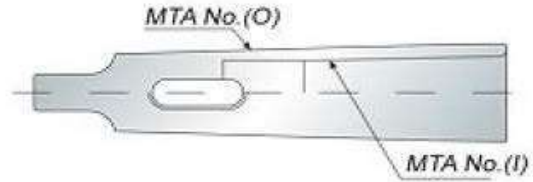
MTA (Morse Taper Holder)



unit: mm

Model	MT Number	D	L	Weight (kg)
R8				
MTA1-020	MTA1	25	20	0.40
MTA2-030	MTA2	32	30	0.45
MTA3-050	MTA3	40	50	0.50

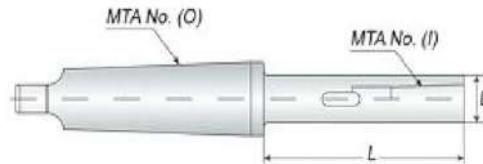
MTA (Morse Taper Sleeve)



unit: mm

Model	MTA No. (O)	MTA No. (I)	Weight (kg)
MTA3-MTA1	MTA3	MTA1	0.25
MTA3-MTA2	MTA3	MTA2	0.20
MTA4-MTA1	MTA4	MTA1	0.55
MTA4-MTA2	MTA4	MTA2	0.50
MTA4-MTA3	MTA4	MTA3	0.45
MTA5-MTA1	MTA5	MTA1	1.50
MTA5-MTA2	MTA5	MTA2	1.45
MTA5-MTA3	MTA5	MTA3	1.30
MTA5-MTA4	MTA5	MTA4	1.10

MTA (Morse Taper Extension)

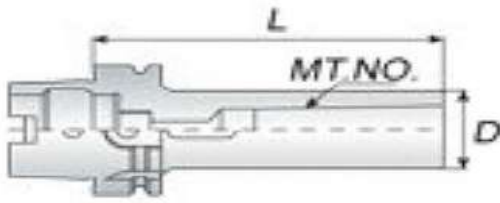


unit: mm

Model	MTA No. (O)	MTA No. (I)	D	L	Weight (kg)
MTA3-MTA1-L	MTA3	MTA1	20	100,150	0.65/0.85
MTA3-MTA2-L		MTA2	25	100,150	0.70/0.95
MTA3-MTA3-L		MTA3	32	100,150,200	0.70/1.10/1.10
MTA4-MTA2-L	MTA4	MTA2	25	100,150,200	0.90/1.20/1.40
MTA4-MTA3-L		MTA3	32	120,170,220	1.20/1.40/1.80
MTA4-MTA4-L		MTA4	38	150,200,250	1.40/1.90/2.40
MTA5-MTA2-L	MTA5	MTA2	25	100,150,200	1.90/2.10/2.30
MTA5-MTA3-L		MTA3	32	120,150,200	2.10/2.40/2.60
MTA5-MTA4-L		MTA4	38	150,200,250	2.40/4.10/4.90
MTA5-MTA5-L		MTA5	55/63	180,200,250,300	4.40/4.90/6.20/5.70

MTA Series

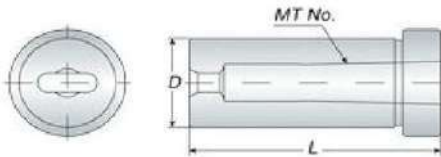
MTA (Morse Taper Holder)



unit: mm

Model	MT Number	D	L	Weight (kg)
HSK50A				
MTA1-100	MTA1	25	100	0.70
MTA2-120	MTA2	32	120	0.90
MTA3-140	MTA3	40	140	1.30
HSK63A				
MTA1-100	MTA1	25	100	1.00
MTA2-120	MTA2	32	120	1.20
MTA3-140	MTA3	40	140	1.60
MTA4-160	MTA4	48	160	2.00
HSK100A				
MTA1-110	MTA1	25	110	2.30
MTA2-120	MTA2	32	120	2.40
MTA3-140	MTA3	40	140	2.70
MTA4-170	MTA4	48	170	3.10

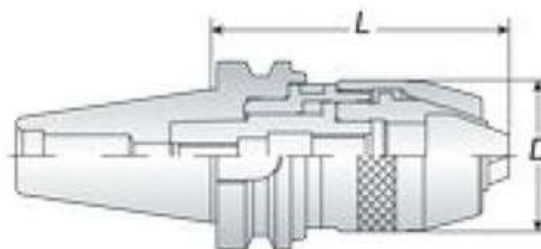
MTA (Straight Shank)



unit: mm

Model	D	L	Weight (kg)
C20			
MTA1	20	60	0.15
MTA2	20	71	0.20
MTA3			
C25			
MTA1	25	61	0.25
MTA2	25	70	0.30
C32			
MTA1	32	61	0.40
MTA2	32	70	0.40
MTA3	32	90	0.40
C42			
MTA1	42	94	1.10
MTA2	42	94	1.10
MTA3	42	90	0.90
MTA4	42	112	0.80

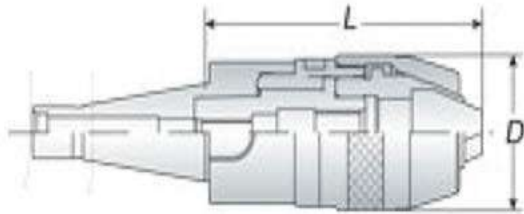
APU (Drill Chuck Holder)



unit: mm

Model	Clamping Range	D	L		Weight (kg)
			Min	Max	
BT30					
APU08-080	0.3-8	37.5	75	82	1.00
APU13-100	0.3-13	50.5	97	104.5	1.50
BT40					
APU08-085	0.3-8	37.5	79	86.5	1.50
APU13-110	0.3-13	50.5	98	109	2.00
APU16-130	3-6	57	116	130	2.60
BT50					
APU08-095	0.3-8	37.5	90	97.5	4.20
APU13-120	0.3-13	50.5	109	120	4.70
APU13-180	0.3-13	50.5	169	180	5.80
APU16-130	3-16	57	116	130	5.10
APU16-190	3-16	57	176	190	6.20

APU (Drill Chuck Holder)



unit: mm

Model	Clamping Range	D	L		Draw Bolt	Weight (kg)
			Min	Max		
NT30						
APU08-080	0.3-8	37.5	75	82	1/2"-12M12	0.90
APU13-100	0.3-13	50.5	94	104.5	x1.75P	1.65
NT40						
APU08-085	0.3-8	37.5	79	86.5		1.50
APU13-110	0.3-13	50.5	98	109	5/8*-11M16	2.10
APU16-130	3-16	57	116	130	x2.0P	2.50
BT50						
APU08-095	0.3-8	37.5	90	97.5		3.80
APU13-120	0.3-13	50.5	109	120		4.10
APU13-180	0.3-13	50.5	169	180	1"-8M24	4.80
APU16-130	3-16	57	116	130	x3.0P	4.50
APU16-190	3-16	57	176	190		5.80

MILLING

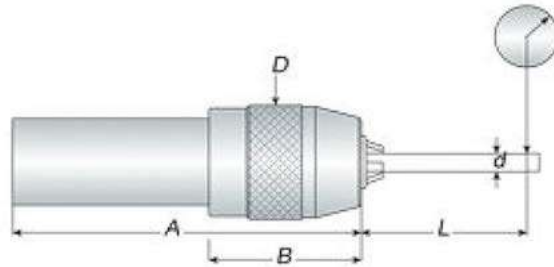
FACEMILLING

TAPPING

BORING

OTHERS

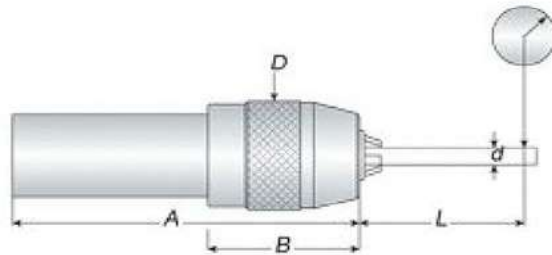
APU (R8 Taper Shank)



unit: mm

Model	Code No.	Size Type	Clamping Range		Taper Type	A	B	C	Wrench	Weight (kg)
			(mm)	(inch)						
R8APU13	12613	135	0.3-13	1/64-1/2	R8	182	81	50.5	12806	1.50
R8APU16	12614	165	3-16	1/8-5/8	R8	188	85	57	12808	1.80

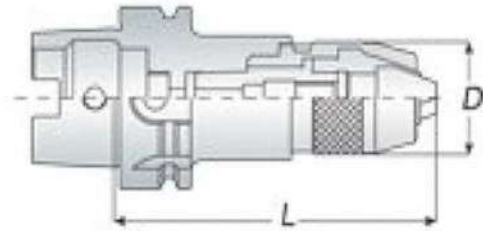
APU (Drill Chuck Holder)



unit: mm

Model	Code No.	Size Type	Clamping Range		Taper Type	A	B	C	Wrench	Weight (kg)
			(mm)	(inch)						
MTA2APU08	12601	85	0.3-8	1/64-5/16	MTA2	142	61	37.5	12802	0.70
MTA2APU10	12601-1	105	0.3-10	1/64-3/8	MTA2	151	70	43	12804	1.00
MTA2APU13	12602-1	135	0.3-13	1/64-1/2	MTA2	162	81	50.5	12806	1.25
MTA3APU13	12602	135	0.3-13	1/64-1/2	MTA3	180	81	50.5	12806	1.40
MTA4APU13	12603	135	0.3-13	1/64-1/2	MTA4	206	81	50.5	12806	1.70
MTA3APU16	12604	165	3-16	1/8-5/8	MTA3	186	85	57	12808	1.70
MTA4APU16	12605	165	3-16	1/8-5/8	MTA4	212	85	57	12808	2.00

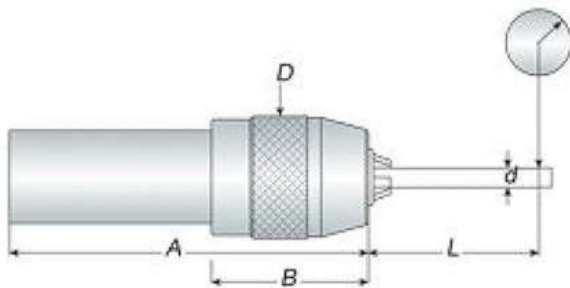
APU (Drill Chuck Holder)



unit: mm

Model	Clamping Range	D	L	Weight (kg)
HSK40A APU08-120	0.3-8	37.5	120	1.10
HSK50A APU08-120	0.3-8	37.5	120	1.30
HSK63A APU08-120	0.3-8	37.5	120	1.50
APU13-155	0.3-13	50.5	155	2.60
APU16-165	3-16	57	165	2.90
HSK100A APU13-155	0.3-13	50.5	155	3.70
APU16-180	3-16	57	180	4.00

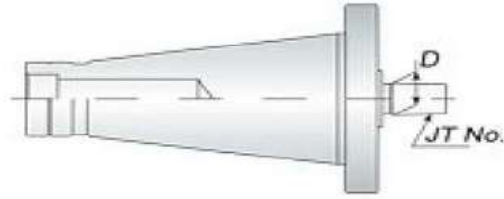
APU (Straight Shank)



unit: mm

Model	Code No.	Size Type	Clamping Range		Taper Type	A	B	C	Wrench	Weight (kg)
			(mm)	(inch)						
C12APU08	12605-1	35	0.3-3	1/64-1/8	C12	88.5	38.5	24	-	0.20
C16APU06	12605-2	65	0.3-6	1/64-1/4	C16	104	54	33	12801	0.50
C20APU08	12606	85	0.3-8	1/64-5/16	C20	121	61	37.5	12802	0.70
C20APU13	12607	135	0.3-13	1/64-1/2	C20	141	81	50.5	12806	1.30
C25APU13	12608	135	0.3-13	1/64-1/2	C25	161	81	50.5	12806	1.40
C32APU13	12609	135	0.3-13	1/64-1/2	C32	162	81	50.5	12806	1.65
C20APU16	12610	165	3-16	1/8-5/8	C20	145	85	57	12808	1.55
C25APU16	12611	165	3-16	1/8-5/8	C25	165	85	57	12808	1.70
C32APU16	12612	165	3-16	1/8-5/8	C32	167	85	57	12808	1.90

JTA (Drill Chuck Holder)

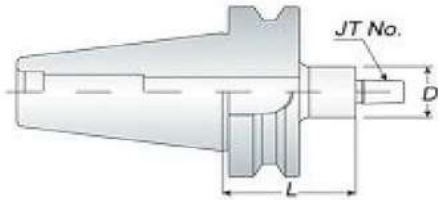


unit: mm

Model	JT No.	D	L	Weight (kg)
BT30				
JTA1-045	JTA1	30	45	0.60
JTA1-090	JTA1	30	90	0.90
JTA2S-045	JTA25	30	45	0.60
JTA2S-090	JTA25	30	90	0.90
JTA2-045	JTA2	30	45	0.60
JTA2-090	JTA2	30	90	0.90
JTA6-045	JTA6	30	45	0.65
JTA6-090	JTA6	30	90	0.90
BT40				
JTA1-045	JTA1	30	45	1.20
JTA1-090	JTA1	30	90	1.45
JTA2S-045	JTA25	30	45	1.20
JTA2S-090	JTA25	30	90	1.45
JTA2-045	JTA2	30	45	1.20
BT40				
JTA2-090	JTA2	30	90	1.45
JTA6-045	JTA6	30	45	1.25
JTA6-090	JTA6	30	90	1.50
BT50				
JTA1-045	JTA1	30	45	4.00
JTA1-105	JTA1	30	105	4.30
JTA2S-045	JTA25	30	45	4.00
JTA2S-105	JTA25	30	105	4.30
JTA2-045	JTA2	30	45	4.00
JTA2-105	JTA2	30	105	4.30
JTA3-045	JTA3	35	45	4.00
JTA3-105	JTA3	35	105	4.30
JTA6-045	JTA6	30	45	4.00
JTA6-105	JTA6	30	105	4.30

JTA Series

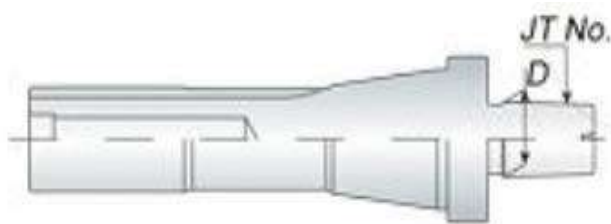
JTA (Drill Chuck Holder)



unit: mm

Model	JT No.	D	Draw Bolt	Weight (kg)
NT30				
JTA1	JTA1	39.754		0.50
JTA2	JTA2	13.94	3/2"-12	0.50
JTA6	JTA6	17.17	M12x1.75P	0.50
NT40				
JTA1	JTA1	9.754		1.00
JTA2	JTA2	13.94	5/8"-11	1.00
JTA6	JTA6	17.17	M12x1.75P	1.00
NT50				
JTA1	JTA1	9.754		2.90
JTA2	JTA2	13.94	1"-8	3.00
JTA6	JTA6	17.17	M24x3.0P	3.00

JTA (R8 Taper Shank)



unit: mm

Model	JT No.	D	Weight (kg)
R8 JTA1	1	9.754	0.40
R8 JTA2	2	13.94	0.45
R8 JTA6	6	17.17	0.45

MILLING

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TAPPING

BORING

OTHERS

JTA (Morse Taper Shank)



unit: mm

Model	JT No.	D	Weight (kg)
MTA2 JTA6	6	17-7	0.30
MTA3 JTA6	6	17-7	0.35
MTA4 JTA6	6	17-7	0.70
MTA5 JTA6	6	17-7	1.65

JTA (Straight Shank)



unit: mm

Model	JT No.	C	D	Weight (kg)
C20 JTA1	1	20	9.754	0.15
C20 JTA2	2	20	13.94	0.2
C20 JTA6	6	20	17.17	0.3
C25 JTA1	1	25	9.754	0.25
C25 JTA2	2	25	13.94	0.3
C25 JTA6	6	25	17.17	0.35

JTA Series

JTA (#122 Keyless Drill Mount - Special Heavy Duty Type)



unit: mm

Model	Code	Size Type	Clamping Range		JT No.	Length		Outer Diameter	Weight (kg)
			(mm)	(inch)		(Open)	(Closed)		
13S-JT6	12203-2	2135	0.3-13	1/64-1/2	JT6	90	102	50.5	1.00
16S-JT6	12205-1	165	3-16	1/8-5/8	JT6	97	110	57	1.35

JTA (#123 Keyless Drill Mount - Heavy Duty Type)



unit: mm

Model	Code	Size Type	Clamping Range		JT No.	Length		Outer Diameter	Weight (kg)
			(mm)	(inch)		(Open)	(Closed)		
13H-JT6	12304-2	13H	0.3-13	1/64-1/2	JT6	90	102	50.5	0.95
16H-JT6	12305-1	16H	3-16	1/8-5/8	JT6	97	110	57	1.30

MILLING

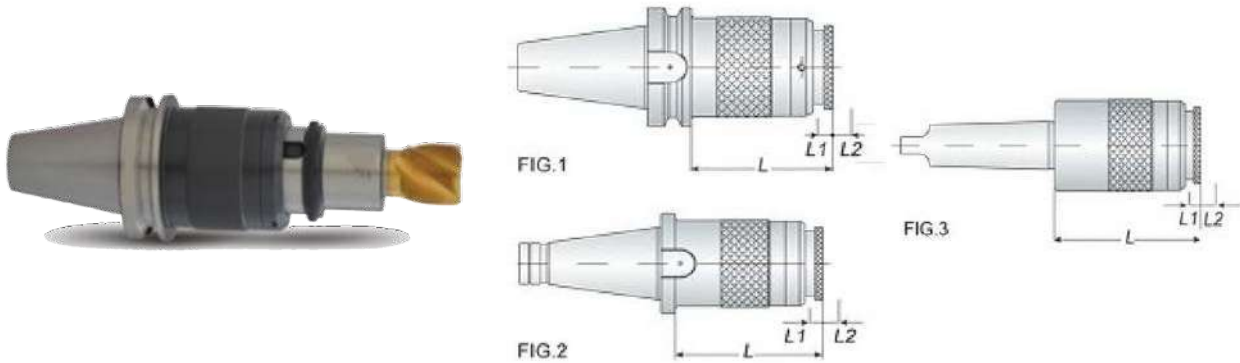
FACEMILLING

TAPPING

BORING

OTHERS

TPG (Tension and Compression Tap Holder)



unit: mm

Model	Figure	L	L1	L2	Tapping Range	Collet Type	Weight (kg)
BT50 TPG875	1	115	15	80	M8-M30	TPG830	7.30
			15	80	M32-M75	TPG875	
NT50 TPG875	2	140	10	80	M8-M30	TPG830	7.30
			10	80	M32-M75	TPG875	
MTA5 TPG875	3	161	15	80	M8-M30	TPG830	6.50
			15	80	M32-M75	TPG875	

TPG (TPG875 Tap Collet)



unit: mm

Model	Tap Diameter (D)	D1	L	Weight (kg)
TPG875-D	M32-M50	Ød+16mm	50	1.30
	PT1-PT1½	Ød+16mm	50	1.30
	M52-M75	Ød+16mm	70	1.80
	PT1¼-PT2½	Ød+16mm	70	1.80

TPG (TPG875 Tap Collet)

Specifications:

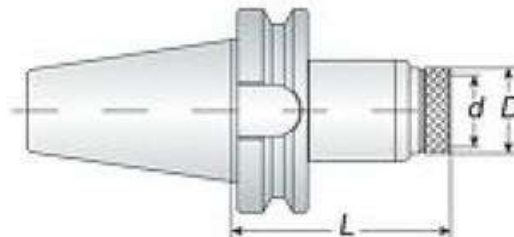
unit: mm			unit: mm		
JIS	Ød	□	ISO	Ød	□
TPG875 M32 W1 ¹ / ₄ PT ⁷ / ₈	24	19	TPG875 M33	22.4	18
TPG875 M33	25	19	TPG875 M36	25	20
TPG875 M34 M35 W1 ³ / ₈ PT1	26	21	TPG875 M39 M42	28	22.4
TPG875 M36 PT1 ¹ / ₈	28	21	TPG875 M45 M48	31.5	25
TPG875 M39 M40 W1 ¹ / ₂	30	23	TPG875 M52	35.5	28
TPG875 M42 W1 ⁵ / ₈	32	26			
TPG875 M45 W1 ³ / ₄ PT1 ³ / ₈	35	26	unit: mm		
TPG875 M48 W1 ⁷ / ₈ PT1 ¹ / ₂	38	29	DIN376	Ød	□
TPG875 M50 W2	40	32	TPG875 M33	25	20
TPG875 M52 PT1 ³ / ₄	42	32	TPG875 M36	28	22
TPG875 M56	44	35	TPG875 M39 M42	32	24
TPG875 M60 PT2	46	35	TPG875 M45 M48	36	29
TPG875 M64 W2 ¹ / ₂	46	38	TPG875 M52	40	32
TPG875 M65	50	38			
TPG875 M68	52	41			
TPG875 M700 M72	55	41			
TPG875 M75	58	46			

TPG875 - TA830 Adapter

The adapter suits to switch TPG875 tap holder to clamp TPC830 tap collet.



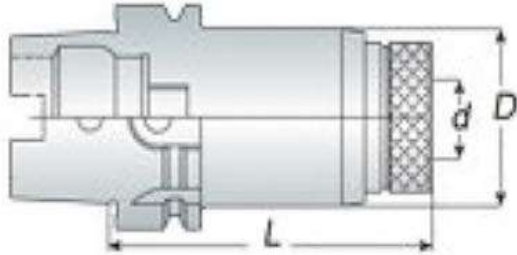
ART (Rigid Tap Holder)



unit: mm

Model	d	D	L	Tapping Range	Collet Type	Weight (kg)
BT30 ART312	19	36	60	M3-M12	ATC312	0.60
BT40 ART312	19	36	65	M3-M12	ATC312	1.20
BT50 ART312	19	36	80	M3-M12	ATC312	4.00
BT40 ART822	31	53	85	M8-M22	ATC822	1.60
BT50 ART822	31	53	95	M8-M22	ATC822	4.40

ART (Rigid Tap Holder)



unit: mm

Model	d	D	L	Tapping Range	Collet Type	Weight (kg)
HSK63A						
ART312	19	36	65	M3-M12	ATC312	00.90
ART822	31	53	85	M8-M22	ATC822	1.30

MILLING

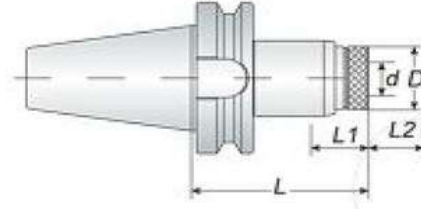
FACEMILLING

TAPPING

BORING

OTHERS

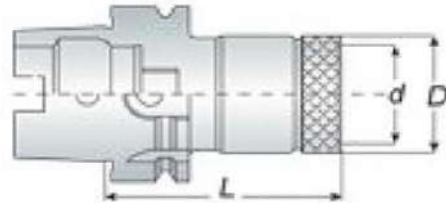
ATP (Tension and Compression Tap Holder)



unit: mm

Model	d	D	L	L1	L2	Tapping Range	Collet Type	Weight (kg)
BT30 ATP312	19	36	70	6-10	6-10	M3-M12	ATC312	0.70
BT40 ATP312	19	36	75	6-10	6-10	M3-M12	ATC312	1.20
BT50 ATP312	19	36	85	6-10	6-10	M3-M12	ATC312	4.00
BT40 ATP822	31	53	110	6-10	6-10	M8-M22	ATC822	1.90
BT50 ATP822	31	53	105	6-10	6-10	M8-M22	ATC822	4.70

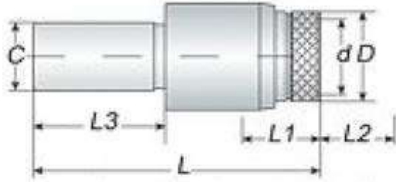
ATP (Tension and Compression Tap Holder)



unit: mm

Model	d	D	L	Tapping Range	Collet Type	Weight (kg)
HSK63A						
ATP312	19	36	120	M3-M12	ATC312	0.90
ATP822	31	53	148	M8-M22	ATC822	1.60
HSK100A						
ATP312	19	36	140	M3-M12	ATC312	3.10
ATP822	31	53	155	M8-M22	ATC822	3.80

ATP (Straight Shank)



unit: mm

Model	C	d	D	L	L1	L2	L3	Tapping Range	Collet Type	Weight (kg)
C20 ATP312	20	19	36	155	6-10	6-10	6-10	M3-M12	ATC312	0.90
C25 ATP312	25	19	36	155	6-10	6-10	6-10	M3-M12	ATC312	1.00
C25 ATP822	25	31	53	185	6-10	6-10	6-10	M8-M22	ATC822	1.70
C32 ATP822	32	31	53	185	6-10	6-10	6-10	M8-M22	ATC822	1.90

MILLING

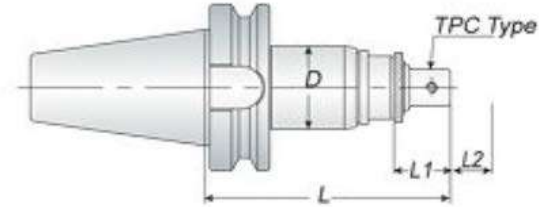
FACEMILLING

TAPPING

BORING

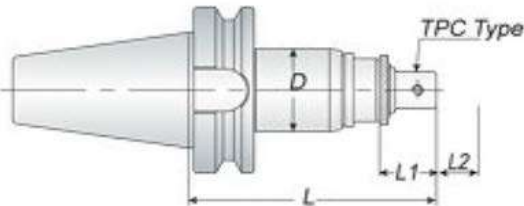
OTHERS

TPM (Tension and Compression Tap Holder)



unit: mm

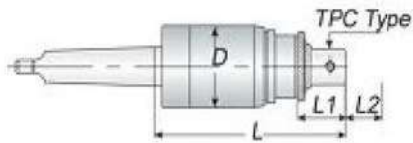
Model	D	L	L1	L2	Tapping Range	Collet Type	Weight (kg)
BT30 TPM316	48	140	10	20	M3-M16	TPC316	1.20
BT40 TPM316	48	140	10	20	M3-M16	TPC316	1.70
BT50 TPM316	48	150	10	20	M3-M16	TPC316	4.50
BT30 TPM830	66	190	10	25	M8-M30	TPC830	2.30
BT40 TPM830	66	180	10	25	M8-M30	TPC830	2.70
BT50 TPM830	66	180	10	25	M8-M30	TPC830	4.80
BT50 TPG830	75	265	10	80	M8-M30	TPC830	8.40



unit: mm

Model	D	L	L1	L2	Tapping Range	Collet Type	Draw Bolt	Weight (kg)
NT30 TPM316	48	140	10	20	M3-M16	TPC316	1/2"-12 M12X1.75P	1.20
NT40 TPM316	48	140	10	20	M3-M16	TPC316	5/8"-11 M16X2.0P	1.70
NT50 TPM316	48	150	10	20	M3-M16	TPC316	1"-8 M24x3.0P	4.50
NT30 TPM830	66	190	10	25	M8-M30	TPC830	1/2"-12 M12X1.75P	2.30
NT40 TPM830	66	180	10	25	M8-M30	TPC830	5/8"-11 M16X2.0P	2.70
NT50 TPM830	66	180	10	25	M8-M30	TPC830	1"-8 M24x3.0P	4.80
NT50 TPG830	75	265	10	80	M8-M30	TPC830	1"-8 M24x3.0P	8.40

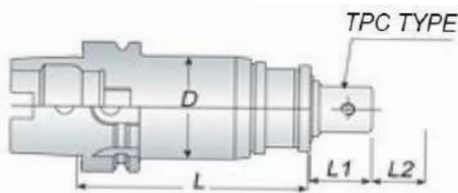
TPM (Morse Taper Shank)



unit: mm

Model	D	L	L1	L2	Tapping Range	Collet Type	Weight (kg)
MTA2 TPM316	48	130	10	20	M3-M16	TPC316	1.20
MTA3 TPM316	48	130	10	20	M3-M16	TPC316	1.30
MTA4 TPM316	48	130	10	20	M3-M16	TPC316	1.60
MTA5 TPM316	48	130	10	20	M3-M16	TPC316	2.50
MTA3 TPM830	66	160	10	20	M8-M30	TPC830	2.20
MTA4 TPM830	66	160	10	20	M8-M30	TPC830	2.60
MTA5 TPM830	66	160	10	20	M8-M30	TPC830	3.50

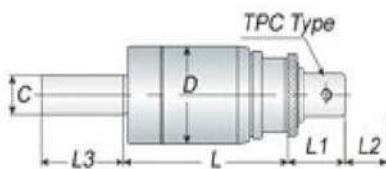
TPM (Tension and Compression Tap Holder)



unit: mm

Model	D	L	L1	L2	Tapping Range	Collet Type	Weight (kg)
HSK63A							
TPM316	48	135	10	20	M3-M16	TPC316	1.80
TPM830	66	165	10	25	M8-M30	TPC830	2.80
HSK100A							
TPM316	48	150	10	20	M3-M16	TPC316	3.50
TPM830	66	170	10	25	M8-M30	TPC830	4.60

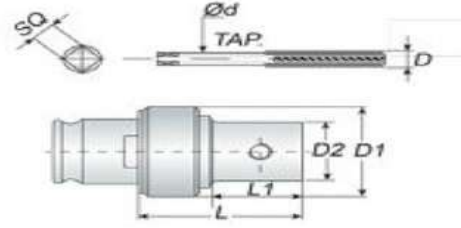
TPM (Straight Shank)



unit: mm

Model	C	D	L	L1	L2	L3	Tapping Range	Collet Type	Weight (kg)
C20 TPM316	20	48	130	10	20	65	M3-M16	TPC316	1.20
C25 TPM830	25	66	160	10	25	65	M8-M30	TPC830	2.10
C32 TPM830	32	66	160	10	25	65	M8-M30	TPC830	2.40

TPC (Tap Collet)



unit: mm

Model	Tap Diameter (D)	D1	D2	L1	L	Collet Type	Weight (kg)
TPC316	M3,M4,M5,M6,M8 M10,M12,M14,M16 W ¹ / ₄ , W ¹ / ₈ , W ³ / ₈ , W ³ / ₁₆ , W ⁵ / ₁₆ , W ⁷ / ₁₆	33	20	27	47	TPM316	0.25
TPC316	W ¹ / ₂ , W ⁵ / ₈ , PT ¹ / ₈ , PT ¹ / ₄	33	25	27	47	TPM316	0.25
TPC830	M8,M10,M12,M14, M16, W ⁵ / ₁₆ , W ³ / ₄ W ⁷ / ₁₆ , W ¹ / ₂ , W ⁵ / ₈	51	30	43	62	TPM830	0.60
TPC830	M18,M20,M22,M24 M27,M30,W ³ / ₄ ,W ⁷ / ₈ , W1, PT ¹ / ₈ , PT ³ / ₈ , PT ¹ / ₄ , PT ¹ / ₂ PT ⁵ / ₈ PT ³ / ₄	51	36	43	62	TPM830	0.60

TPC (Tap Collet Specifications)

TPC830

JIS	Ød	□	unit:mm
TPC830 M08	6.2	5	
TPC830 M10 W ³ /8	7	5.5	
TPC830 M12	8.5	6.5	
TPC830 M14	10.5	8	
TPC830 M16	12.5	10	
TPC830 M18 W ³ /4 PT ³ /8	14	11	
TPC830 M20	15	12	
TPC830 M22 W ⁷ /8	17	13	
TPC830 M24	19	15	
TPC830 M27 W1 PT ⁵ /8	20	15	
TPC830 M30 PT ³ /4	23	17	
TPC830 W ⁵ /16	6.1	5	
TPC830 W ⁷ /16 PT ¹ /8	8	6	
TPC830 W ¹ /2	9	7	
TPC830 W ⁵ /8	12	9	
TPC830 PT ¹ /4	11	9	
TPC830 PT ¹ /2	18	14	

ISO	Ød	□	unit:mm
TPC830 M08	8	6.3	
TPC830 M10	10	8	
TPC830 M12	9	7.1	
TPC830 M14	11.2	9	
TPC830 M16	12.5	10	
TPC830 M18	14	11.2	
TPC830 M20	14	11.2	
TPC830 M22	16	12.5	
TPC830 M24	18	14	
TPC830 M27	20	16	
TPC830 M30	20	16	
TPC830 PT ¹ /2	16	12	

DIN371	Ød	□	unit:mm
TPC830 M08	8	6.2	
TPC830 M10	10	8	

DIN376	Ød	□	unit:mm
TPC830 M08	6	4.9	
TPC830 M10	7	5.5	
TPC830 M12	9	7	
TPC830 M14	11	9	
TPC830 M16	12	9	
TPC830 M18	14	11	
TPC830 M20	16	12	
TPC830 M22	18	14.5	
TPC830 M24	18	14.5	
TPC830 M27	20	16	
TPC830 M30	22	18	

TPC (Tap Collet Specifications)

TPC316

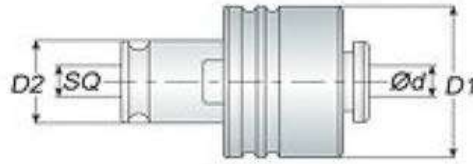
JIS	Ød	□	unit:mm
TPC316 M03 W ¹ /8	4	3.2	
TPC316 M04	5	4	
TPC316 M05 W ³ /16	5.5	4.5	
TPC316 M06 W ¹ /4	6	4.5	
TPC316 M08	6.2	5	
TPC316 M10 W ³ /8	7	5.5	
TPC316 M12	8.5	6.5	
TPC316 M14	10.5	8	
TPC316 M16	12.5	10	
TPC316 W ⁵ /16	6.1	5	
TPC316 W ⁷ /16 PT ¹ /8	8	6	
TPC316 W ¹ /2	9	7	
TPC316 W ⁵ /8	12	9	
TPC316 PT ¹ /4	11	9	

ISO	Ød	□	unit:mm
TPC316 M03	3.15	2.5	
TPC316 M04	4	3.15	
TPC316 M05	5	4	
TPC316 M06	6.3	5	
TPC316 M08	8	6.3	
TPC316 M10	10	8	
TPC316 M12	9	2.1	
TPC316 M14	11.2	9	
TPC316 M16	12.5	10	

DIN376	Ød	□	unit:mm
TPC316 M04	2.8	2.1	
TPC316 M05	3.5	2.7	
TPC316 M06	4.5	3.4	
TPC316 M08	6	4.9	
TPC316 M10	7	5.5	
TPC316 M12	9	7	
TPC316 M14	11	9	
TPC316 M16	12	9	

DIN371	Ød	□	unit:mm
TPC316 M03	3.5	2.1	
TPC316 M04	4.5	3.4	
TPC316 M05	6	4.9	
TPC316 M06	6	4.9	
TPC316 M08	8	6.2	
TPC316 M10	10	8	

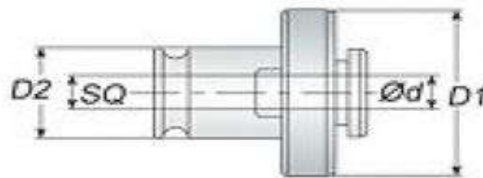
ATC (ATC312 Tap Collet Torque Control Type)



unit: mm

Model	Tap Diameter (D)	D1	D	Weight (kg)
ATC312-D	M03, M04, M05 M06, M08, M10, M12, M14	32	19	0.30
	W ¹ / ₈ , W ³ / ₁₆ , W ¹ / ₄ W ⁵ / ₁₆ , W ³ / ₈ , W ⁷ / ₁₆	30	19	0.30

ATC (ATC312 Tap Collet Positive Drive Type)



unit: mm

Model	Tap Diameter (D)	D1	D	Weight (kg)
ATC312-D	M03, M04, M05 M06, M08, M10, M12, M14	32	19	0.30
	W ¹ / ₈ , W ³ / ₁₆ , W ¹ / ₄ W ⁵ / ₁₆ , W ³ / ₈ , W ⁷ / ₁₆	30	19	0.30

ATC312 Tap Collet Specifications

MILLING

FACEMILLING

TAPPING

BORING

OTHERS

unit: mm

JIS	Ød	<input type="checkbox"/>
ATC312 M03 W ¹ / ₈	4	3.2
ATC312 M04	5	4
ATC312 M05 W ³ / ₁₆	5.5	4.5
ATC312 M06 W ¹ / ₄	6	4.5
ATC312 M08	6.2	5
ATC312 M10 W ³ / ₈	7	5.5
ATC312 M12	8.5	6.5
ATC312 M14	10.5	8
ATC312 W ⁷ / ₁₆ PT ¹ / ₈	8	6
ATC312 W ¹ / ₂	9	7
ATC312 ⁵ / ₁₆	6.1	5

unit: mm

DIN376	Ød	<input type="checkbox"/>
ATC312 M04	2.8	2.1
ATC312 M05	3.5	2.7
ATC312 M06	4.5	3.4
ATC312 M08	6	4.9
ATC312 M10	7	5.5
ATC312 M12	9	7

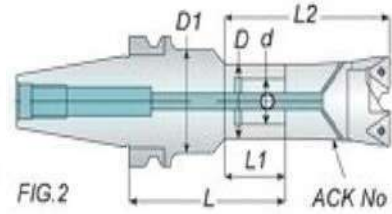
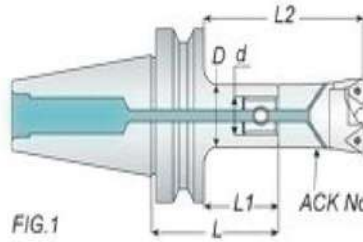
unit: mm

ISO	Ød	<input type="checkbox"/>
ATC312 M03	3.15	2.5
ATC312 M04	4	3.15
ATC312 M05	5	4
ATC312 M06	6.3	5
ATC312 M08	8	6.3
ATC312 M10	10	8
ATC312 M12	9	7.1

unit: mm

DIN371	Ød	<input type="checkbox"/>
ATC312 M03	3.5	2.7
ATC312 M04	4.5	3.4
ATC312 M05 M06	6	4.9
ATC312 M08	8	6.2
ATC312 M10	10	8

ACK (Boring Holder)

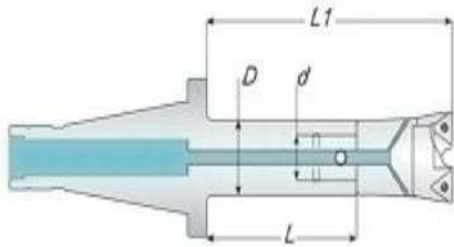


unit: mm

Model	Figure	D	D1	d	L	L1	L2	ACK No.	Boring Range	Weight (kg)
BT30										
ACK1-070	2	19	31	11	70	40	78	ACK19	19-25	0.60
ACK2-040	1	24	-	14	40	15	60	ACK25	25-33	0.40
ACK2-080	1	24	-	14	80	55	100	ACK25	25-33	0.70
ACK3-040	1	31	-	18	40	15	65	ACK32	32-42	0.70
ACK3-075	1	31	-	18	75	50	100	ACK32	32-42	0.90
ACK4-040	1	39	-	22	40	15	80	ACK40	40-55	0.90
ACK4-075	1	39	-	22	75	50	115	ACK40	40-55	1.20
ACK5-065	1	50	-	28	65	40	110	ACK52	52-70	1.90
ACK6-065	1	64	-	36	65	40	120	ACK68	68-92	3.00
						50	130	ACK90	90-122	
BT40										
ACK1-060	1	19	-	11	60	35	73	ACK19	19-25	1.10
ACK1-080	2	19	-	11	80	55	93	ACK19	19-25	1.20
ACK1-120	2	19	40	11	120	40	78	ACK19	19-25	1.30
ACK1-170	1	19	40	11	170	40	78	ACK19	19-25	1.6
ACK2-060	1	24	-	14	60	35	80	ACK25	25-33	1.20
ACK2-080	1	24	-	14	80	55	100	ACK25	25-33	1.20
ACK2-100	1	24	-	14	100	75	120	ACK25	25-33	1.30
ACK2-120	2	24	-	14	120	95	140	ACK25	25-33	1.40
ACK2-125	2	24	45	14	125	53	98	ACK25	25-33	1.45
ACK2-175	1	24	45	14	175	53	98	ACK25	25-33	1.90
ACK3-060	1	31	-	18	60	35	85	ACK32	32-42	1.20
ACK3-080	1	31	-	18	80	55	105	ACK32	32-42	1.20
ACK3-100	1	31	-	18	100	75	125	ACK32	32-42	1.30
ACK3-120	2	31	-	18	120	95	145	ACK32	32-42	1.50
ACK3-150	2	31	50	18	150	58	108	ACK32	32-42	1.80
ACK3-200	1	31	50	18	200	58	108	ACK32	32-42	2.30
ACK4-080	1	39	-	22	80	55	120	ACK40	40-55	1.40
ACK4-100	1	39	-	22	100	75	140	ACK40	40-55	1.60
ACK4-125	1	39	-	22	125	100	165	ACK40	40-55	1.80
ACK4-145	2	39	50	22	145	56	121	ACK40	40-55	1.90
ACK4-195	2	39	50	22	195	56	121	ACK40	40-55	2.10
ACK5-080	1	39	-	22	80	55	125	ACK40	40-55	1.60
ACK5-100	1	50	-	28	100	75	145	ACK52	52-70	2.00
ACK5-135	1	50	-	28	135	110	180	ACK52	52-70	2.50
ACK6-055	1	64	-	36	55	30	110	ACK68	68-92	1.40
							120	ACK90	90-122	

ACK Series

ACK (Boring Holder)



unit: mm

Model	D	d	L	L1	ACK No.	Boring Range	Draw Bolt	Weight (kg)			
NT40											
ACK1-060	19	11	60	98	ACK19	19-25	5/8"-11 M16x2.0P	0.80			
ACK1-080	19	11	80	118	ACK25	19-25		1.00			
ACK2-060	24	14	60	105	ACK25	25-33		1.00			
ACK2-080	24	14	80	125	ACK25	25-33		1.10			
ACK2-100	24	14	100	145	ACK25	25-33		1.20			
ACK2-120	24	14	120	165	ACK32	25-33		1.30			
ACK3-060	31	18	60	110	ACK32	32-42		1.10			
ACK3-080	31	18	80	130	ACK32	32-42		1.30			
ACK3-100	31	18	100	150	ACK32	32-42		1.40			
ACK3-120	31	18	120	170	ACK40	32-42		1.50			
ACK4-080	39	22	80	145	ACK40	40-55		1.50			
ACK4-100	39	22	100	165	ACK40	40-55		1.70			
ACK4-125	39	22	125	190	ACK40	40-55		1.90			
ACK5-080	39	22	80	150	ACK52	52-70		2.00			
ACK5-100	50	28	100	170	ACK52	52-70		2.40			
ACK5-135	50	28	135	205	ACK52	52-70		2.80			
ACK6-055											
	64	36	55	135	ACK68	68-92	1"-8 M24x3.0P	1.60			
				145	ACK90	90-122		1.60			
NT50											
ACK2-090	24	14	90	135	ACK25	25-33	1"-8 M24x3.0P	3.30			
ACK2-125	24	14	125	170	ACK25	25-33		4.00			
ACK3-090	31	18	90	140	ACK32	32-42		3.40			
ACK3-125	31	18	125	175	ACK32	32-42		4.00			
ACK4-115	39	22	115	180	ACK40	40-55		3.60			
ACK4-175	39	22	175	240	ACK40	40-55		4.20			
ACK5-090	50	28	90	160	ACK52	52-70		3.90			
ACK5-135	50	28	135	205	ACK52	52-70		4.50			
ACK5-195	50	28	195	265	ACK52	52-70		5.40			
ACK6-110											
	64	36	110	190	ACK68 ACK90	68-92 90-122		1"-8 M24x3.0P	4.40		
				200					5.70		
ACK6-170											
	64	36	170	250	ACK68 ACK90	68-92 90-122			1"-8 M24x3.0P	5.70	
				260						7.20	
ACK6-215											
	64	36	215	295	ACK68 ACK90	68-92 90-122	1"-8 M24x3.0P			7.20	
				305						7.60	
ACK6-255											
	64	36	255	335	ACK68 ACK90	68-92 90-122				1"-8 M24x3.0P	7.60
				345							

MILLING

FACEMILLING

TAPPING

BORING

OTHERS

ACK (Adjustable Balance Cutter - Ø19 to Ø122)

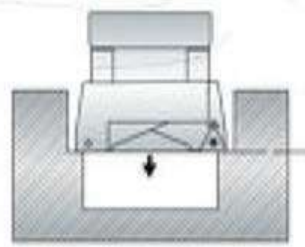


FIG.1

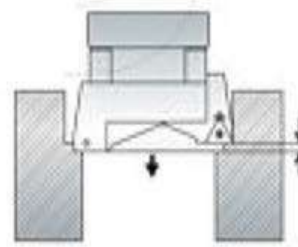


FIG.2

unit: mm

Model	Boring Range		D	L	Tool Holder	Weight (kg)
	Min	Max				
ACK19-C	19	25	11	38	BST	0.10
ACK25-C	25	33	14	45		0.20
ACK32-C	32	42	18	50		0.30
ACK32-T	32	42	18	50		0.30
ACK40-C	40	55	22	65		0.50
ACK40-T	40	55	22	65		0.50
ACK52-C	52	70	28	70		0.90
ACK52-T	52	70	28	70		0.90
ACK68-C	68	92	36	80		0.80
ACK68-T	68	92	36	80		0.80
ACK90-C	90	122	36	90		2.60
ACK90-T	90	122	36	90		2.60

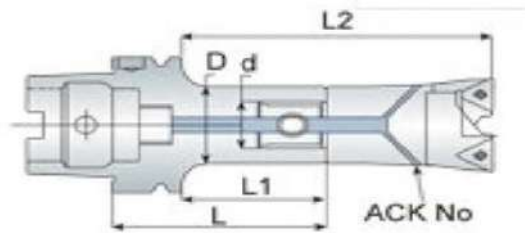
ACK (Adjustable Balance Cutter - Ø120 to Ø500)



unit: mm

Model	Boring Range		D	L	Tool Holder	Weight (kg)
	Min	Max				
ACK120-C	120	164	95	95	BST	3.80
ACK120-T	120	164	95	95		3.80
ACK160-C	160	204	95	95		4.80
ACK160-T	160	204	95	95		4.80
ACK200-C	200	300	80	75		5.20
ACK200-T	200	300	80	75		5.20
ACK300-C	300	400	80	75		7.90
ACK300-T	300	400	80	75		7.90
ACK400-C	400	500	80	75		9.70
ACK400-T	400	500	80	75		9.70

ACK (Boring Holder)



unit: mm

Model	D	d	L	L1	L2	ACK No.	Boring Range	Weight (kg)
HSK63A								
ACK1-080	19	11	80	54	92	ACK19	19-25	0.81
ACK2-090	24	14	90	64	109	ACK25	25-33	0.87
ACK3-100	31	18	100	74	124	ACK32	32-42	1.07
ACK4-090	39	22	90	64	129	ACK40	40-55	1.18
ACK5-080	50	28	80	54	124	ACK52	52-70	1.07
ACK6-065	64	36	65	39	119	ACK68	68-92	1.18
					129	ACK90	90-122	

MILLING

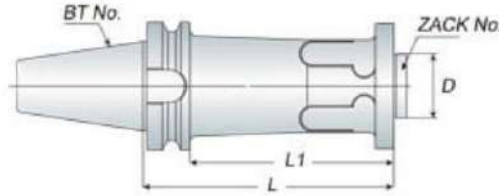
FACEMILLING

TAPPING

BORING

OTHERS

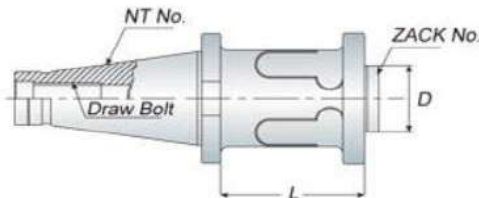
ZACK (Large Micro Boring System - Boring Holder)



unit: mm

Model	D	L	L1	ZACK No.	Weight (kg)
BT50					
BST100	50	100	65		5.0
BST125	50	125	90		5.3
BST150	50	150	115	ZACK200	6.7
BST175	50	175	140	ZACK270	7.3
BST200	50	200	165	ZACK340	7.6
BST225	50	225	190	ZACK410	8.3
BST250	50	250	215	ZACK480	9.5
BST275	50	275	240	ZACK550	9.9
BST300	50	300	265		10.8
BST350	50	350	315		13.5
BST400	50	400	365		15.8

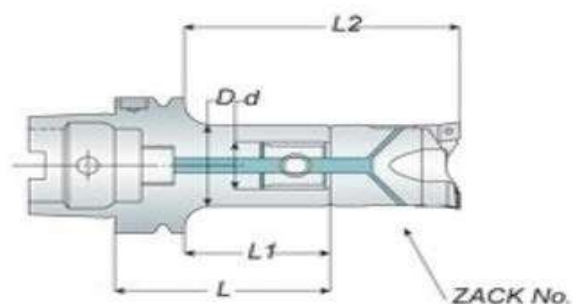
ZACK (Large Micro Boring System - Boring Holder)



unit: mm

Model	D	L	Draw Bolt	ZACK No.	Weight (kg)
NT50					
BST100	50	100			4.8
BST125	50	125			5.1
BST150	50	150		ZACK200	6.5
BST175	50	175		ZACK270	6.8
BST200	50	200		ZACK340	7.3
BST225	50	225		ZACK410	7.9
BST250	50	250		ZACK480	8.7
BST275	50	275		ZACK550	9.0
BST300	50	300			9.9
BST350	50	350			12.6
BST400	50	400			13.5

ZACK (Boring Holder)



unit: mm

Model	D	d	L	L1	L2	ACK No.	Boring Range	Weight (kg)
HSK63A								
ACK1-080	19	11	80	54	92	ZACK20	20-26	0.71
ACK2-090	24	14	90	64	109	ZACK25	25-33	0.87
ACK3-100	31	18	100	74	124	ZACK32	32-42	1.07
ACK4-090	39	22	90	64	129	ZACK41	41-54	1.18
ACK5-080	50	28	80	54	124	ZACK53	53-70	1.07
ACK6-065	64	36	65	39	119	ZACK68	68-90	1.18
					129	ZACK90	90-120	

MILLING

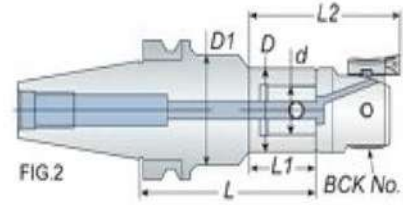
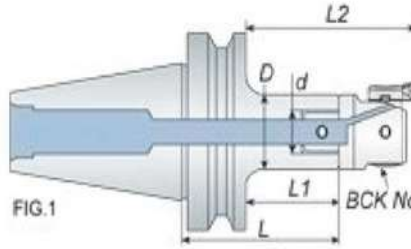
FACEMILLING

TAPPING

BORING

OTHERS

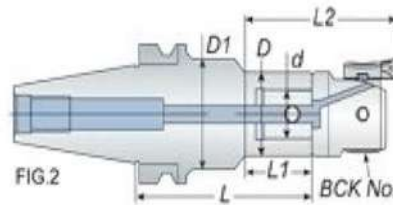
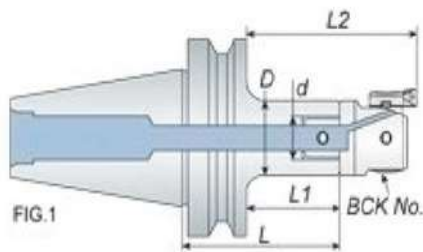
BCK (Boring Holder)



unit: mm

Model	Figure	D	D1	d	L	L1	L2	BCK No.	Boring Range	Weight (kg)
BT30										
ACK1-070	2	19	31	11	70	40	72.5	BCK20	20-36	0.60
ACK2-040	1	24	-	14	40	15	50.5	BCK25	25-47	0.40
ACK2-080	1	24	-	14	80	55	90.5	BCK25	25-47	0.70
ACK3-040	1	31	-	18	40	15	55	BCK32	32-60	0.70
ACK3-075	1	31	-	18	75	50	90	BCK32	32-60	0.90
ACK4-040	1	39	-	22	40	15	62	BCK41	41-74	0.90
ACK4-075	1	39	-	22	75	50	97	BCK41	41-74	1.2
ACK5-045	1	50	-	28	65	40	97	BCK53	53-95	1.90
ACK6-065	1	64	-	36	65	40	111	BCK68	68-150	3.00
						50		BCK100	100-203	
BT40										
ACK1-060	1	19	-	11	60	35	67.5	BCK20	20-36	1.10
ACK1-080	1	19	-	11	80	55	87.5	BCK20	20-36	1.20
ACK1-120	2	19	40	11	120	40	72.5	BCK20	20-36	1.30
ACK1-170	2	19	40	11	170	40	72.5	BCK20	20-36	1.60
ACK2-060	1	24	-	14	60	35	70.5	BCK25	25-47	1.20
ACK2-080	1	24	-	14	80	55	90.5	BCK25	25-47	1.20
ACK2-100	1	24	-	14	100	75	110.5	BCK25	25-47	1.30
ACK2-120	1	24	-	14	120	95	130.5	BCK25	25-47	1.40
ACK2-125	2	24	45	14	125	53	88.5	BCK25	25-47	1.45
ACK2-175	2	24	45	14	175	53	88.5	BCK25	25-47	1.90
ACK3-060	1	31	-	18	60	35	75	BCK32	32-60	1.20
ACK3-080	1	31	-	18	80	55	95	BCK32	32-60	1.20
ACK3-100	1	31	-	18	100	75	115	BCK32	32-60	1.30
ACK3-120	1	31	-	18	120	95	135	BCK32	32-60	1.50
ACK3-150	2	31	50	18	150	58	98	BCK32	32-60	1.80
ACK3-200	2	31	50	22	200	58	98	BCK32	32-60	2.30
ACK4-080	1	39	-	22	80	55	102	BCK41	41-74	1.40
ACK4-100	1	39	-	22	100	75	122	BCK41	41-74	1.60
ACK4-125	1	39	-	22	125	100	147	BCK41	41-74	1.80
ACK4-145	2	39	50	22	145	56	103	BCK41	41-74	1.90
ACK4-195	2	39	50	22	195	56	103	BCK41	41-74	2.10
ACK5-080	1	50	-	28	80	55	112	BCK53	53-95	1.60
ACK5-100	1	50	-	28	100	75	132	BCK53	53-95	2.00
ACK5-135	1	50	-	28	135	110	167	BCK53	53-95	2.50
ACK6-055	1	64	-	36	55	30	101	BCK68	68-150	1.40
								BCK100	100-203	

BCK (Boring Holder)



unit: mm

Model	Figure	D	D1	d	L	L1	L2	BCK No.	Boring Range	Weight (kg)
BT50										
ACK1-100	1	19	-	11	100	65	97.50	BBCK20	220-36	3.90
ACK1-125	1	19	-	11	125	90	122.50	BCK20	220-36	4.10
ACK1-170	2	19	40	11	170	40	73	BCK20	220-36	4.50
ACK1-220	2	19	40	11	220	40	73	BCK20	220-36	4.90
ACK2-090	1	24	-	14	90	55	50.50	BCK25	25-47	4.00
ACK2-125	1	24	-	14	125	90	125.50	BCK25	25-47	4.10
ACK2-175	2	24	45	14	175	65	100.50	BCK25	25-47	4.55
ACK2-225	2	24	45	14	225	65	100.50	BCK25	25-47	4.95
ACK3-090	1	31	-	18	90	55	95	BCK32	32-60	4.00
ACK3-125	1	31	-	18	125	90	130	BCK32	32-60	4.30
ACK3-200	2	31	50	18	200	80	120	BCK32	32-60	4.95
ACK3-240	2	31	50	18	240	80	120	BCK32	32-60	5.30
ACK4-115	1	39	-	22	115	90	137	BCK41	41-74	4.40
ACK4-175	1	39	-	22	175	140	187	BCK41	41-74	5.00
ACK4-195	2	39	50	22	195	80	127	BCK41	41-74	5.20
ACK4-235	2	39	50	22	235	80	127	BCK41	41-74	5.60
ACK5-090	1	50	-	28	90	55	112	BCK53	53-95	4.20
ACK5-135	1	50	-	28	135	80	137	BCK53	53-95	5.20
ACK5-195	1	50	-	28	195	160	217	BCK53	53-95	6.10
ACK6-110	1	64	-	36	110	75	146			4.90
ACK6-170	1	64	-	36	170	135	206			6.10
ACK6-215	1	64	-	36	215	180	251	BCK68	68-150	7.50
ACK6-265	1	64	-	36	265	220	291	BCK100	100-203	9.00
ACK6-300	1	64	-	36	300	265	336			9.60
ACK6-350	1	64	-	36	350	315	386			11.50

MILLING

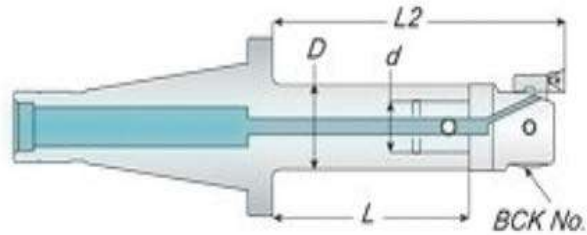
FACEMILLING

TAPPING

BORING

OTHERS

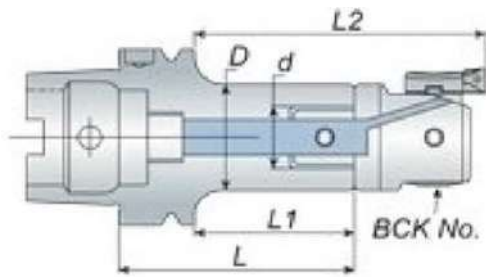
BCK (Boring Holder)



unit: mm

Model	D	d	L	L1	BCK No.	Boring Range	Draw Bolt	Weight (kg)
NT40								
ACK1-060	19	11	60	92.5	BCK20	20-36		0.80
ACK1-080	19	11	80	112.5	BCK20	20-36		1.00
ACK2-060	24	14	60	95.5	BCK25	25-47		1.00
ACK2-080	24	14	80	115.5	BCK25	25-47		1.10
ACK2-100	24	14	100	135.5	BCK25	25-47		1.20
ACK2-120	24	14	120	155.5	BCK25	25-47	5/8"-11	1.30
ACK3-060	31	18	60	100	BCK32	32-60	M16x2.0P	1.10
ACK3-080	31	18	80	120	BCK32	32-60		1.30
ACK3-100	31	18	100	140	BCK32	32-60		1.40
ACK3-120	31	18	120	160	BCK32	32-60		1.50
ACK4-080	39	22	80	127	BCK41	41-74		1.50
ACK4-100	39	22	100	147	BCK41	41-74		1.70
ACK4-125	39	22	125	172	BCK41	41-74		1.90
ACK5-080	50	28	80	137	BCK53	53-95		2.00
ACK5-100	50	28	100	157	BCK53	53-95		2.40
ACK5-135	50	28	135	192	BCK53	53-95		2.80
ACK6-055	64	36	55	126	BCK68	68-150		1.60
					BCK100	100-203		
NT50								
ACK2-090	24	14	90	125.5	BCK25	25-47		3.30
ACK2-125	24	14	125	160.5	BCK25	25-47		4.00
ACK3-090	31	18	90	130	BCK32	32-60		3.40
ACK3-125	31	18	125	165	BCK32	32-60	1"-8	4.00
ACK4-115	39	22	115	162	BCK41	41-74	M24x3.0P	3.60
ACK4-175	39	22	175	222	BCK41	41-74		4.20
ACK5-090	50	28	90	147	BCK53	53-95		3.90
ACK5-135	50	28	135	192	BCK53	53-95		4.50
ACK5-195	50	28	195	252	BCK53	53-95		5.40
ACK6-110	64	36	110	181				4.40
ACK6-170	64	36	170	241	BCK68	68-150		5.70
ACK6-215	64	36	215	286	BCK100	100-203		7.20
ACK6-255	64	36	255	326				7.60

BCK (Boring Holder)



unit: mm

Model	D	d	L	L1	L2	ACK No.	Boring Range	Weight (kg)
HSK63A								
ACK1-080	19	11	80	54	86.5	BCK20	20-36	0.81
ACK2-090	24	14	90	64	99.5	BCK25	25-47	0.87
ACK3-100	31	18	100	74	114	BCK32	32-60	1.07
ACK4-090	39	22	90	64	111	BCK41	41-74	1.18
ACK5-080	50	28	80	54	111	BCK53	53-95	1.10
ACK6-065	64	36	60	39	110	BCK63 BCK100	68-150 100-203	1.20

MILLING

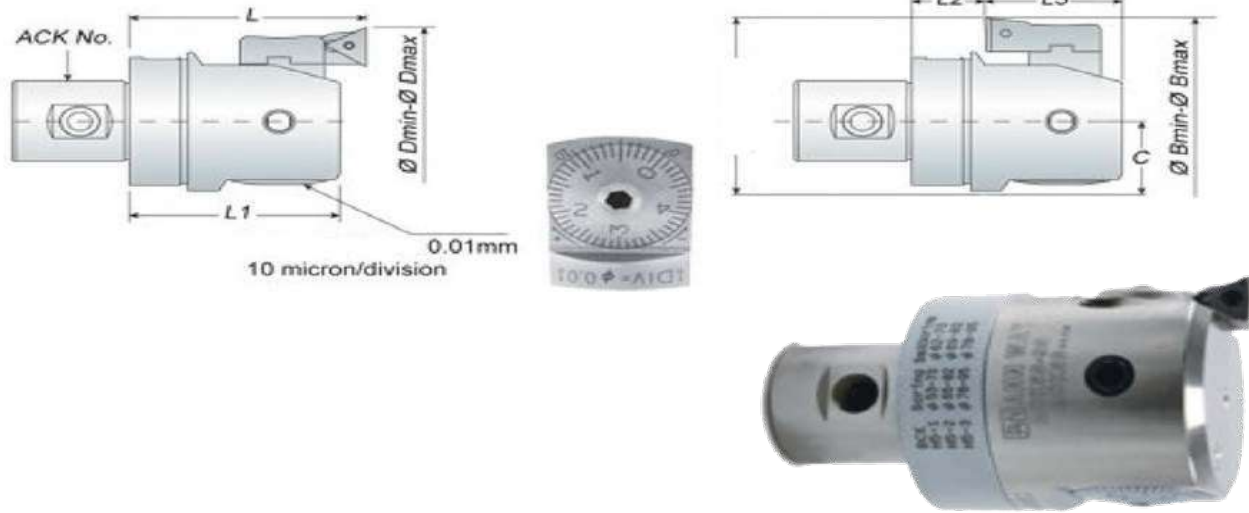
FACEMILLING

TAPPING

BORING

OTHERS

BCK (Micro Boring Head)



unit: mm

Model	ACK No.	Insert Holder	Boring ØD			Boring ØD				Weight (kg)	Insert
			Range	L	L1	Range	L2	L3	C		
BCK20	1	BCK H1-1	20-26	32.5	29.5	30-31	10.5	19	10	0.07	TP..0802
		BCK H1-2	25-31			30-36					
		BCK H1-3	30-36								
BCK25	2	BCK H2-1	25-33	35.5	32.5	36-40	11.5	21	12.5	0.12	TP..0802
		BCK H2-2	32-40			39-47					
		BCK H2-3	39-47								
BCK32	3	BCK H3-1	32-42	40	35	46-51	10	25	16	0.21	TP..0802
		BCK H3-2	41-51			50-60					
		BCK H3-3	50-60								
BCK41	4	BCK H4-1	41-54	47	43	53-63	14	29	20	0.40	TC..1102
		BCK H4-2	50-63			61-74					
		BCK H4-3	61-74								
BCK53	5	BCK H5-1	53-70	57	53	62-70	19	34	25.5	1.10	TC..1102
		BCK H5-2	65-82			65-82					
		BCK H5-3	78-95			78-95					
BCK68	6	BCK H6-1	68-100	71	67.2	80-100	22	45.2	32.5	1.74	TC..1102
		BCK H6-2	94-126			94-126					
		BCK H6-3	118-150			118-150					
BCK100	6	BCK H6-1	100-153	71	67.2	112-153	22	45	45.5	2.46	TC..1102
		BCK H6-2	126-179			126-179					
		BCK H6-3	150-203			150-203					

BCK Series

MILLING

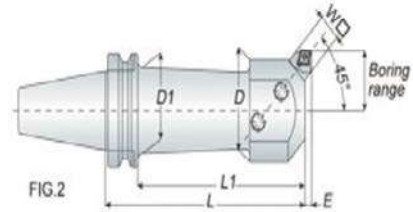
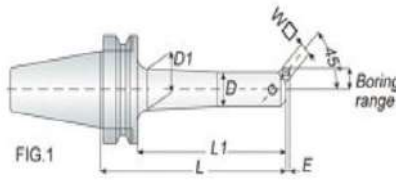
FACEMILLING

TAPPING

BORING

OTHERS

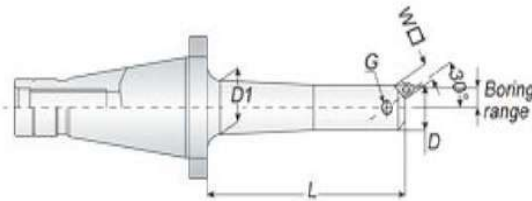
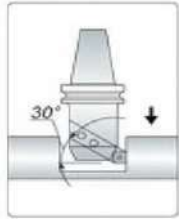
BSA (Boring Holder)



unit: mm

Model	Figure	Boring Range		D	D1	L	L1	E	W	Weight (kg)
		Min	Max							
BT40										
BSA025-135	1	25	38	20	24	135	110	1	8	1.40
BSA030-150	1	30	42	24	28	150	125	1.6	8	1.60
BSA038-165	1	38	52	30	36	165	140	2.6	10	2.00
BSA050-165	1	50	65	40	48	165	140	3	13	2.50
BSA050-210	1	50	65	40	48	210	185	3	13	2.90
BSA062-165	1	62	90	50	58	165	140	2	16	3.20
BSA062-225	1	62	90	50	58	225	200	2	16	4.20
BSA072-165	2	72	110	60	60	165	140	2.4	19	3.90
BSA072-225	2	72	110	60	60	225	200	2.4	19	5.20
BSA090-165	2	90	125	75	75	165	140	4	19	4.60
BSA090-210	2	90	125	75	75	210	185	4	19	5.30
BT50										
BSA025-135	1	25	38	20	24	135	100	1	8	4.20
BSA030-165	1	30	42	24	28	165	130	1.6	8	4.40
BSA038-180	1	38	52	30	36	180	145	2.6	10	4.80
BSA038-230	1	38	52	30	36	230	195	2.6	10	5.10
BSA042-210	1	42	56	34	38	210	175	2	10	5.20
BSA042-240	1	42	56	34	38	240	205	2	10	5.60
BSA050-180	11	50	65	40	48	180	145	3	13	5.40
BSA050-240	1	50	65	40	48	240	205	3	13	6.20
BSA050-270	1	50	65	40	48	270	235	3	13	6.50
BSA050-300	1	50	65	40	48	300	265	3	13	6.80
BSA062-195	1	62	90	50	58	195	160	2	16	6.40
BSA062-240	1	62	90	50	58	240	205	2	16	7.20
BSA062-270	1	62	90	50	58	270	235	2	16	7.80
BSA062-300	1	62	90	50	58	300	265	2	16	8.30
BSA072-195	1	72	110	60	68	195	160	2.4	19	7.30
BSA072-240	1	72	110	60	68	240	205	2.4	19	8.50
BSA072-285	1	72	110	60	68	285	250	2.4	19	9.60
BSA072-320	1	72	110	60	68	320	285	2.4	19	9.70
BSA090-210	1	90	125	75	74	210	175	4	19	8.60
BSA090-250	1	90	125	75	74	250	215	4	19	9.80
BSA090-300	1	90	125	75	74	300	265	4	19	11.10
BSA105-195	2	105	160	90	76	195	160	3	26	8.60
BSA105-285	2	105	160	90	76	285	250	3	25	11.60

BSA (Boring Holder)



unit: mm

Model	Boring Range		D	D1	L	W	G	Draw Bolt	Weight (kg)
	Min	Max							
NT40									
BSA016-100	16	20	14	16	100	6	M06	5/8"-11M16 x 2.0P	1.00
BSA020-120	20	25	16	19	120	6	M06		1.20
BSA025-135	25	38	20	24	135	8	M06		1.30
BSA030-165	30	42	24	28	165	8	M06		1.60
BSA038-180	38	52	30	36	180	10	M08		2.10
BSA042-210	42	56	34	38	210	10	M08		2.40
BSA050-180	50	65	40	48	180	13	M10		2.70
BSA050-240	50	65	40	48	240	13	M10		3.40
BSA062-195	62	90	50	58	195	16	M10		3.90
BSA062-270	62	90	50	58	270	16	M10		5.30
BSA072-195	72	110	60	68	195	19	M12		4.60
BSA072-285	72	110	60	68	285	19	M12		6.00
BSA090-210	90	125	75	-	210	19	M12		5.20
BSA090-300	90	125	75	-	300	19	M12		6.70
BSA0105-195	105	160	90	-	195	25	M16		6.60
BSA0105-285	105	160	90	-	285	25	M16		8.20
NT50									
BSA016-100	16	20	14	16	100	6	M06	1"-8M24 x 3.0P	3.00
BSA020-120	20	25	16	19	120	6	M06		3.10
BSA025-135	25	38	20	24	135	8	M06		4.00
BSA030-165	30	42	24	28	165	8	M06		4.10
BSA038-180	38	52	30	36	180	10	M08		4.30
BSA038-230	38	52	30	36	230	10	M08		4.50
BSA042-210	42	56	34	38	210	10	M08		4.60
BSA042-240	42	56	34	38	240	10	M08		4.80
BSA050-180	50	65	40	48	180	13	M10		4.90
BSA050-240	50	65	40	48	240	13	M10		5.60
BSA050-270	50	65	40	48	270	13	M10		5.90
BSA062-195	62	90	50	58	195	16	M10		5.40
BSA062-240	62	90	50	58	240	16	M10		6.20
BSA062-270	62	90	50	58	270	16	M10		6.60
BSA072-195	72	110	60	68	195	19	M12		7.00
BSA072-240	72	110	60	68	240	19	M12		8.20
BSA072-285	72	110	60	68	285	19	M12		9.20
BSA090-210	90	125	75	80	210	19	M12		9.70
BSA090-250	90	125	75	80	250	19	M12		11.60
BSA090-300	90	125	75	76	300	19	M12		11.30
BSA0105-195	105	160	90	68	195	25	M16		8.50
BSA0105-285	105	160	90	74	285	25	M16		11.40

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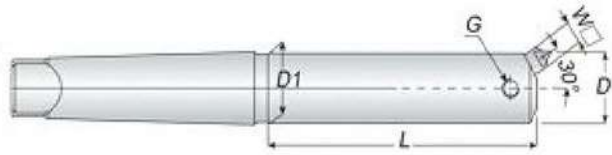
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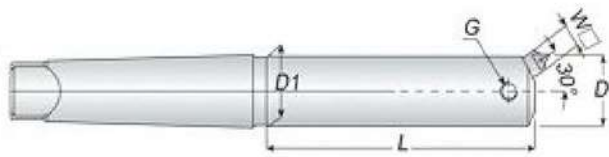
BSA (Boring Holder)



unit: mm

Model	Boring Range		D	D1	L	W	G
	Min	Max					
MTA3							
BSA016-100	16	20	14	16	100	6	M06
BSA020-120	20	25	16	19	120	6	M06
BSA025-135	25	38	20	24	135	8	M06
BSA030-165	30	42	24	28	165	8	M06
BSA038-180	38	52	30	36	180	10	M08
BSA042-210	42	56	34	38	210	10	M08
MTA4							
BSA016-100	16	20	14	16	100	6	M06
BSA020-120	20	25	16	19	120	6	M06
BSA025-135	25	38	20	24	135	8	M06
BSA030-165	30	42	24	28	165	8	M06
BSA038-180	38	52	30	36	180	10	M08
BSA042-210	42	56	34	38	210	10	M08
MTA5							
BSA016-100	16	20	14	16	100	6	M06
BSA020-120	20	25	16	19	120	6	M06
BSA025-135	25	38	20	24	135	8	M06
BSA030-165	30	42	24	28	165	8	M06
BSA038-180	38	52	30	36	180	10	M08
BSA042-210	42	56	34	38	210	10	M08
BSA050-180	50	65	40	48	180	13	M10
BSA050-240	50	65	40	48	240	13	M10
BSA062-195	62	90	50	58	195	16	M10
BSA062-270	62	90	50	58	270	16	M10
BSA072-195	72	110	60	68	195	19	M12
BSA072-285	72	110	60	68	285	19	M12
BSA090-210	90	125	75	-	210	19	M12
BSA090-300	90	125	75	-	300	19	M12
BSA0105-195	105	160	90	-	195	25	M16
BSA0105-285	105	160	90	-	285	25	M16

BSA (Boring Holder)



unit: mm

Model	Boring Range		D	D1	L	W	G
	Min	Max					
MTA6							
BSA016-100	16	20	14	16	100	6	M06
BSA020-120	20	25	16	19	120	6	M06
BSA025-135	25	38	20	24	135	8	M06
BSA030-165	30	42	24	28	165	8	M06
BSA038-180	38	52	30	36	180	10	M08
BSA042-210	42	56	34	38	210	10	M08
BSA050-180	50	65	40	48	180	13	M10
BSA050-240	50	65	40	48	240	13	M10
BSA062-195	62	90	50	58	195	16	M10
BSA062-270	62	90	50	58	270	16	M10
BSA072-195	72	110	60	68	195	19	M12
BSA072-285	72	110	60	68	285	19	M12
BSA090-210	90	125	75	-	210	19	M12
BSA090-300	90	125	75	-	300	19	M12
BSA0105-195	105	160	90	-	195	25	M16
BSA0105-285	105	160	90	-	285	25	M16

MILLING

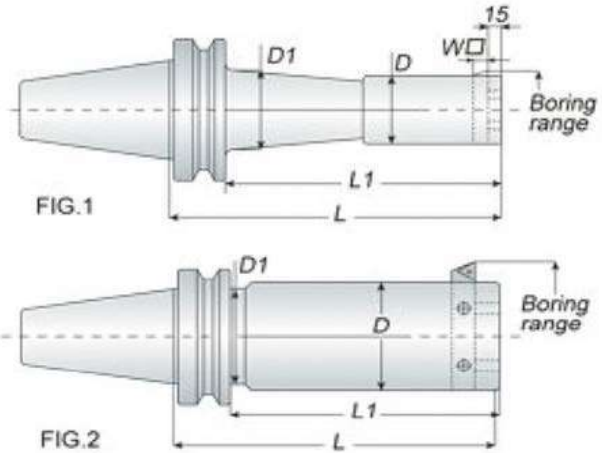
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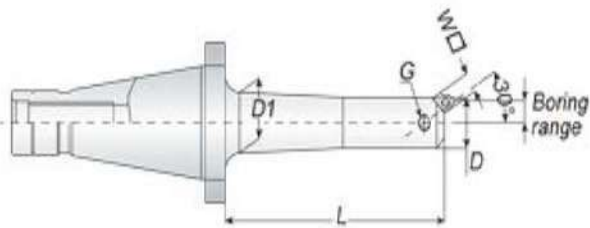
BSB (Boring Holder)



unit: mm

Model	Figure	Boring Range		D	D1	L	L1	W	Weight (kg)
		Min	Max						
BT40									
BSB025-135	1	25	38	20	24	135	110	8	1.40
BSB038-165	1	38	52	30	36	165	140	10	2.00
BSB050-165	1	50	65	40	48	165	140	13	2.80
BSB050-210	1	50	65	40	48	210	185	13	3.40
BSB062-165	1	62	90	50	56	165	140	16	3.20
BSB062-225	1	62	90	50	56	225	200	16	4.50
BSB072-165	2	72	110	60	60	165	140	19	4.40
BSB072-225	2	72	110	60	60	225	200	19	5.30
BSB090-165	2	90	125	75	75	165	140	19	5.10
BSB090-210	2	90	125	75	75	210	185	19	6.30
BT50									
BSB025-135	1	25	38	20	24	135	100	8	4.20
BSB038-180	1	38	52	30	38	180	145	10	4.90
BSB038-230	1	38	52	30	38	230	195	10	5.30
BSB042-210	1	42	56	34	38	210	175	10	5.40
BSB042-240	1	42	56	34	38	240	205	10	5.60
BSB050-180	1	50	65	40	48	180	145	13	5.60
BSB050-240	1	50	65	40	48	240	205	13	6.10
BSB050-270	1	50	65	40	48	270	235	13	6.70
BSB050-300	1	50	65	40	48	300	265	13	7.20
BSB062-195	1	62	90	50	58	195	160	16	6.40
BSB062-240	1	62	90	50	58	240	205	16	7.50
BSB062-270	1	62	90	50	58	270	235	16	7.70
BSB062-300	1	62	90	50	58	300	265	16	8.00
BSB062-330	1	62	90	50	58	330	295	16	8.40
BSB072-195	1	72	110	60	68	195	160	19	8.00
BSB072-240	1	72	110	60	68	240	205	19	8.60
BSB072-285	1	72	110	60	68	285	250	19	9.60
BSB090-210	1	90	125	75	80	210	170	19	8.90
BSB090-250	1	90	125	75	80	250	215	19	10.80
BSB090-300	1	90	125	75	80	300	265	19	12.40
BSB0105-195	2	105	160	90	80	195	160	25	9.50
BSB0105-285	2	105	160	90	80	285	250	25	12.20

BSB (Boring Holder)



unit: mm

Model	Boring Range		D	D1	L	W	G	Draw Bolt	Weight (kg)
	Min	Max							
NT40									
BSB016-100	16	20	14	16	100	6	M06	5/8"-11 M16x2.0P	1.00
BSB020-120	20	25	16	19	120	6	M06		1.20
BSB025-135	25	38	20	24	135	8	M06		1.30
BSB030-165	30	42	24	28	165	8	M06		1.60
BSB038-180	38	52	30	36	180	10	M08		2.10
BSB042-210	42	56	34	38	210	10	M08		2.40
BSB050-180	50	65	40	48	180	13	M10		2.70
BSB050-240	50	65	40	48	240	13	M10		3.40
BSB062-195	62	90	50	58	195	16	M10		3.90
BSB062-270	62	90	50	58	270	16	M10		5.30
BSB072-195	72	110	60	68	195	19	M12		4.60
BSB072-285	72	110	60	68	285	19	M12		6.00
BSB090-210	90	125	75	-	210	19	M12		5.20
BSB090-300	90	125	75	-	300	19	M12		6.70
BSB0105-195	105	160	90	-	195	25	M16	6.60	
BSB0105-285	105	160	90	-	285	25	M16	8.20	
NT50									
BSB016-100	16	20	14	16	100	6	M06	1"-8 M24x3.0P	3.00
BSB020-120	20	25	16	19	120	6	M06		3.10
BSB025-135	25	38	20	24	135	8	M06		4.00
BSB030-165	30	42	24	28	165	8	M06		4.10
BSB038-180	38	52	30	36	180	10	M08		4.30
BSB038-230	38	52	30	36	230	10	M08		4.50
BSB042-210	42	56	34	38	210	10	M08		4.60
BSB042-240	42	56	34	38	240	10	M08		4.80
BSB050-180	50	65	40	48	180	13	M10		4.90
BSB050-240	50	65	40	48	240	13	M10		5.60
BSB050-270	50	65	40	48	270	13	M10		5.90
BSB062-195	62	90	50	58	195	16	M10		5.40
BSB062-240	62	90	50	58	240	16	M10		6.20
BSB062-270	62	90	50	58	270	16	M10		6.60
BSB072-195	72	110	60	68	195	19	M12		7.00
BSB072-240	72	110	60	68	240	19	M12		7.50
BSB072-285	72	110	60	68	285	19	M12		9.20
BSB090-210	90	125	75	-	210	19	M12		9.70
BSB090-250	90	125	75	-	250	19	M12		11.60
BSB090-300	90	125	75	-	300	19	M12		11.30
BSB0105-195	105	160	90	-	195	25	M16		8.50
BSB0105-285	105	160	90	-	285	25	M16		11.40

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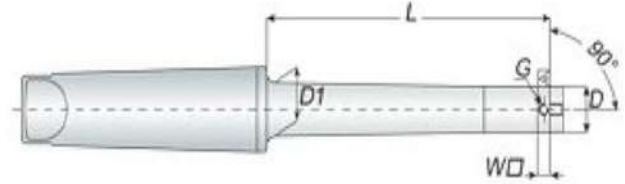
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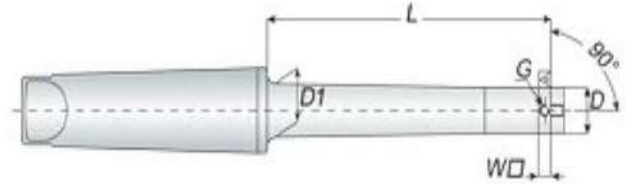
BSB (Boring Holder)



unit: mm

Model	Boring Range		D	D1	L	W	G
	Min	Max					
MTA3							
BSB016-100	16	20	14	16	100	6	M06
BSB020-120	20	25	16	19	120	6	M06
BSB025-135	25	38	20	24	135	8	M06
BSB030-165	30	42	24	28	165	8	M06
BSB038-180	38	52	30	36	180	10	M08
BSB042-210	42	56	34	38	210	10	M08
BSB050-180	50	65	40	48	180	13	M10
MTA4							
BSB016-100	16	20	14	16	100	6	M06
BSB020-120	20	25	16	19	120	6	M06
BSB025-135	25	38	20	24	135	8	M06
BSB030-165	30	42	24	28	165	8	M06
BSB038-180	38	52	30	36	180	10	M08
BSB042-210	42	56	34	38	210	10	M08
BSB050-180	50	65	40	48	180	13	M10
MTA5							
BSB016-100	16	20	14	16	100	6	M06
BSB020-120	20	25	16	19	120	6	M06
BSB025-135	25	38	20	24	135	8	M06
BSB030-165	30	42	24	28	165	8	M06
BSB038-180	38	52	30	36	180	10	M08
BSB042-210	42	56	34	38	210	10	M08
BSB050-180	50	65	40	48	180	13	M10
BSB050-240	50	65	40	48	240	13	M10
BSB062-195	62	90	14	58	195	16	M10
BSB062-270	62	90	16	58	270	16	M10
BSB072-195	72	110	20	68	195	19	M12
BSB072-285	72	110	24	68	285	19	M12
BSB090-210	90	125	30	75	210	19	M12
BSB090-300	90	125	34	75	300	19	M12
BSB0105-195	105	160	40	95	195	25	M16
BSB0105-285	105	160	40	95	285	25	M16

BSB (Boring Holder)



unit: mm

Model	Boring Range		D	D1	L	W	G
	Min	Max					
MTA6							
BSB016-100	16	20	14	16	100	6	M06
BSB020-120	20	25	16	19	120	6	M06
BSB025-135	25	38	20	24	135	8	M06
BSB030-165	30	42	24	28	165	8	M06
BSB038-180	38	52	30	36	180	10	M08
BSB042-210	42	56	34	38	210	10	M08
BSB050-180	50	65	40	48	180	13	M10
BSB050-240	50	65	40	48	240	13	M10
BSB062-195	62	90	14	58	195	16	M10
BSB062-270	62	90	16	58	270	16	M10
BSB072-195	72	110	20	68	195	19	M12
BSB072-285	72	110	24	68	285	19	M12
BSB090-210	90	125	30	75	210	19	M12
BSB090-300	90	125	34	75	300	19	M12
BSB0105-195	105	160	40	95	195	25	M16
BSB0105-285	105	160	40	95	285	25	M16

MILLING

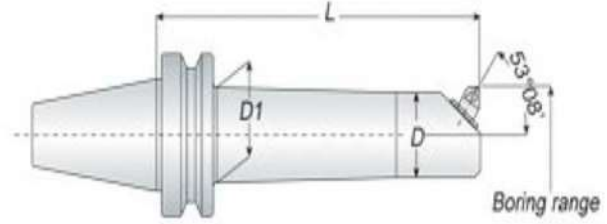
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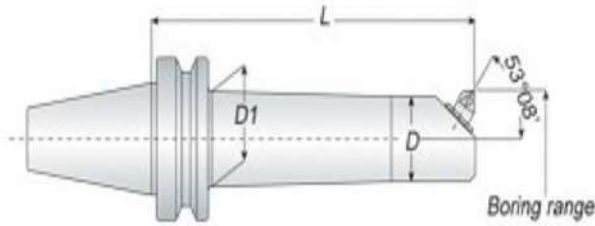
BCA (Micro Boring Holder)



unit: mm

Model	Boring Range		D	D1	L	Boring Head	G
	Min	Max					
BT40							
BCA025-150	25	29	22	25	150	L148C-31	1.50
BCA026-150	26	30	23	26	150	L148C-31	1.50
BCA026-180	26	30	23	26	180	L148C-31	1.70
BCA030-160	30	34	26	30	160	L148C-31	1.80
BCA030-210	30	34	26	30	210	L148C-31	1.90
BCA033-165	33	38	29	33	165	L148C-32	1.80
BCA033-210	33	38	29	33	210	L148C-32	1.90
BCA038-165	38	43	33	38	165	L148C-32	2.10
BCA038-210	38	43	33	38	210	L148C-32	2.50
BCA043-165	43	52	38	43	165	L148C-33	2.30
BCA043-210	43	52	38	43	210	L148C-33	2.80
BCA052-180	52	61	47	52	180	L148C-33	3.30
BCA052-240	52	61	47	52	240	L148C-33	4.30
BCA061-180	61	70	56	61	180	L148C-33	4.10
BCA061-240	61	70	56	61	240	L148C-33	5.20
BCA070-180	70	85	65	70	180	L148C-34	4.30
BCA070-240	70	85	65	70	240	L148C-34	5.80
BCA085-180	85	100	80	85	180	L148C-34	5.20
BCA085-240	85	100	80	85	240	L148C-34	6.90
BCA0100-165	100	115	95	100	165	L148C-34	6.10
BCA0100-240	100	115	95	100	240	L148C-34	7.50

BCA (Micro Boring Holder)



unit: mm

Model	Boring Range		D	D1	L	Boring Head	G
	Min	Max					
BT50							
BCA025-150	25	29	22	25	150	L148C-31	4.30
BCA026-150	26	30	23	26	150	L148C-31	4.30
BCA026-180	26	30	23	26	180	L148C-31	4.40
BCA030-160	30	34	26	30	160	L148C-31	4.40
BCA030-210	30	34	26	30	210	L148C-31	4.60
BCA033-165	33	38	29	33	165	L148C-32	4.50
BCA033-210	33	38	29	33	210	L148C-32	4.80
BCA038-165	38	43	33	38	165	L148C-32	4.70
BCA038-210	38	43	33	38	210	L148C-32	5.20
BCA043-165	43	52	38	43	165	L148C-33	5.00
BCA043-210	43	52	38	43	210	L148C-33	5.30
BCA052-180	52	61	47	52	180	L148C-33	5.60
BCA052-240	52	61	47	52	240	L148C-33	6.70
BCA061-180	61	70	56	61	180	L148C-33	6.60
BCA061-240	61	70	56	61	240	L148C-33	7.40
BCA061-330	61	70	56	61	330	L148C-33	9.40
BCA070-180	70	85	65	70	180	L148C-34	7.30
BCA070-240	70	85	65	70	240	L148C-34	9.00
BCA070-330	70	85	65	70	330	L148C-34	10.90
BCA085-180	85	100	80	85	180	L148C-34	8.30
BCA085-240	85	100	80	85	240	L148C-34	10.10
BCA085-330	85	100	80	85	330	L148C-34	12.00
BCA0100-165	100	115	95	100	165	L148C-34	8.40
BCA0100-240	100	115	95	100	240	L148C-34	10.60
BCA0100-31	100	115	95	100	315	L148C-34	12.50
BCA0115-165	115	130	110	115	165	L148C-34	8.60
BCA0115-240	115	130	110	115	240	L148C-34	10.80
BCA0115-315	115	130	110	115	315	L148C-34	12.70
BCA0130-165	130	145	125	130	165	L148C-34	9.00
BCA0130-240	130	145	125	130	240	L148C-34	10.50
BCA0145-165	145	160	140	145	165	L148C-34	9.50
BCA0145-240	145	160	140	145	240	L148C-34	11.00

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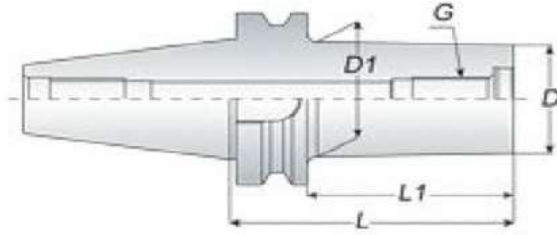
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BORING

OTHERS

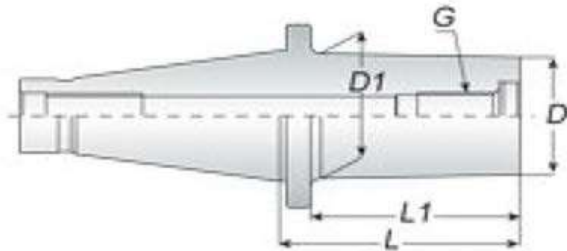
ABH (Micro Boring Holder)



unit: mm

Model	Boring Range		D	D1	L1	L	G	Weight (kg)
	Min	Max						
BT40								
ABH18-060	22	32	18	24	35	60	M10x1.5P	1.20
ABH18-080	22	32	18	24	55	80	M10x1.5P	1.30
ABH18-100	22	32	18	24	75	100	M10x1.5P	1.40
ABH23-080	28	46	23	29	55	80	M12x1.75P	1.30
ABH23-120	28	46	23	29	95	120	M12x1.75P	1.50
ABH30-080	36	60	30	36	55	80	M16x2.0P	1.40
ABH30-105	36	60	30	36	80	105	M16x2.0P	1.50
ABH30-130	36	60	30	36	105	130	M16x2.0P	1.60
ABH40-080	46	80	40	48	55	80	M18x2.5P	1.50
ABH40-105	46	80	40	48	80	105	M18x2.5P	1.90
ABH40-125	46	80	40	48	100	125	M18x2.5P	2.10
ABH40-150	46	80	40	48	125	150	M18x2.5P	2.40
ABH-SB50-080	55	73	53	53	55	80	M22x2.5P	1.80
ABH-SB50-105	55	73	53	53	80	105	M22x2.5P	2.20
ABH-SB50-130	55	73	53	53	105	130	M22x2.5P	2.60
ABH60-80	70	130	63	63	55	80	M25x2.0P	2.20
ABH60-105	70	130	63	63	80	105	M25x2.0P	2.90
ABH60-150	70	130	63	63	125	150	M25x2.0P	3.70
BT50								
ABH18-080	22	32	18	24	45	80	M10x1.5P	4.00
ABH18-120	22	32	18	24	85	150	M10x1.5P	4.20
ABH23-080	28	46	23	29	45	80	M12x1.75P	3.90
ABH23-120	28	46	23	29	85	120	M12x1.75P	4.20
ABH30-080	36	60	30	36	45	80	M16x2.0P	4.10
ABH30-105	36	60	30	36	70	105	M16x2.0P	4.20
ABH30-130	36	60	30	36	95	130	M16x2.0P	4.40
ABH40-080	46	80	40	48	45	80	M18x2.5P	4.20
ABH40-105	46	80	40	48	70	105	M18x2.5P	4.40
ABH40-125	46	80	40	48	90	125	M18x2.5P	4.80
ABH40-150	46	80	40	48	115	150	M18x2.5P	5.20
ABH40-180	46	80	40	48	145	180	M18x2.5P	5.40
ABH-SB50-080	55	73	53	53	45	80	M22x2.5P	4.50
ABH-SB50-105	55	73	53	53	70	105	M22x2.5P	4.90
ABH-SB50-125	55	73	53	53	90	125	M22x2.5P	5.10
ABH-SB50-150	55	73	53	53	115	150	M22x2.5P	5.70
ABH-SB50-180	55	73	53	53	145	180	M22x2.5P	6.00
ABH63-080	70	130	63	63	45	80	M25x2.0P	4.50
ABH63-105	70	130	63	68	70	105	M25x2.0P	5.30
ABH63-150	70	130	63	68	115	150	M25x2.0P	6.70
ABH63-180	70	130	63	68	150	180	M25x2.0P	7.50
ABH63-200	70	130	63	68	165	200	M25x2.0P	8.00
ABH63-230	70	130	63	68	195	230	M25x2.0P	8.40
ABH83-080	90	160	83	83	45	80	-	4.80
ABH83-105	90	160	83	58	70	105	-	5.80
ABH83-150	90	160	83	63	150	150	-	6.30
ABH83-210	90	160	83	83	210	210	-	6.90

ABH (Micro Boring Holder)



unit: mm

Model	Boring Range		D	D1	L	L1	G	Draw Bolt
	Min	Max						
NT40								
ABH18-060	22	32	18	24	76	60	M10x1.5P	5/8"-11 M16x2.0P
ABH18-100	22	32	18	24	116	100	M10x1.5P	
ABH23-080	28	46	23	29	96	80	M12x1.75P	
ABH23-120	28	46	23	29	136	120	M12x1.75P	
ABH30-080	36	60	30	36	96	80	M16x2.0P	
ABH30-130	36	60	30	36	146	130	M16x2.0P	
ABH40-080	46	80	40	48	96	80	M18x2.5P	
ABH40-150	46	80	40	48	166	150	M18x2.5P	
ABH63-80	70	130	63	63	96	80	M25x2.0P	1"-8 M24x3.0P
ABH63-150	70	130	63	63	166	150	M25x2.0P	
NT50								
ABH18-060	22	32	18	24	96	60	M10x1.5P	
ABH18-100	22	32	18	24	136	100	M10x1.5P	
ABH23-080	28	46	23	29	96	80	M12x1.75P	
ABH23-120	28	46	23	29	136	120	M12x1.75P	
ABH30-080	36	60	30	36	96	80	M16x2.0P	
ABH30-130	36	60	30	36	146	130	M16x2.0P	
ABH40-080	46	80	40	48	96	80	M18x2.5P	
ABH40-150	46	80	40	48	166	150	M18x2.5P	
ABH40-220	46	80	40	48	236	220	M18x2.5P	
ABH63-080	70	130	63	68	96	80	M25x2.0P	
ABH63-150	70	130	63	68	166	150	M25x2.0P	
ABH63-230	70	130	63	68	246	230	M25x2.0P	
ABH83-080	90	160	83	68	96	80	-	
ABH83-130	90	160	83	73	146	130	-	
ABH83-200	90	160	83	-	216	200	-	

MILLING

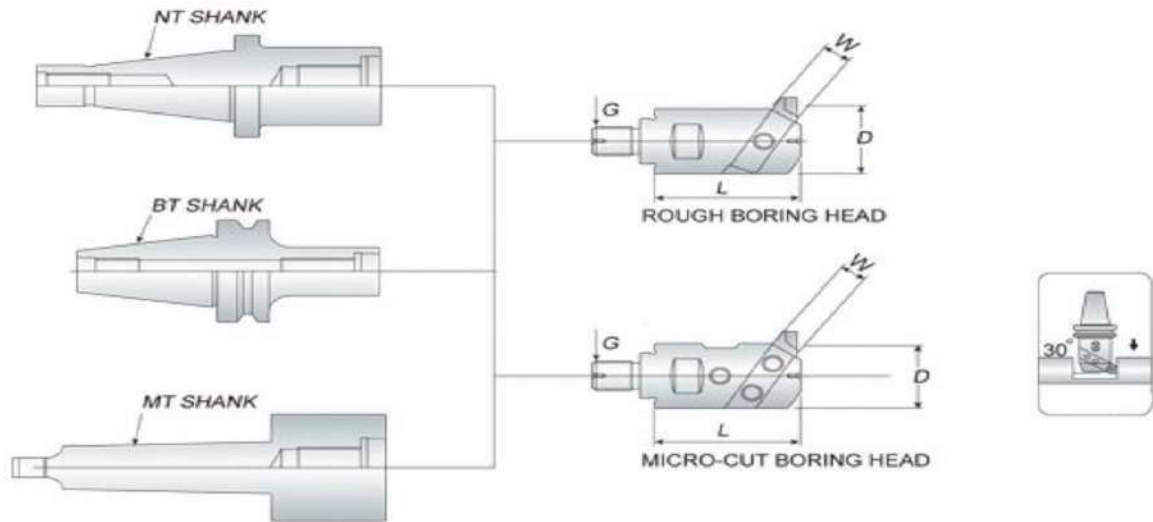
FACEMILLING

TAPPING

BORING

OTHERS

ABH (Rough/Fine Boring Head - Taiwan)



Rough Type

unit: mm

Model	Boring Range		D	L	W	G	Weight (kg)
	Min	Max					
ABH18(Rough-T)	-	32	18	50	6	M10x1.5P	0.20
ABH23(Rough-T)	28	46	23	65	8	M12x1.75P	0.30
ABH30(Rough-T)	36	60	30	80	10	M16x2.0P	0.50
ABH40(Rough-T)	46	80	40	90	13	M18x2.5P	1.10
ABH63(Rough-T)	70	130	63	97	16	M25x2.0P	2.30
ABH83(Rough-T)	90	160	83	100	16	-	4.00

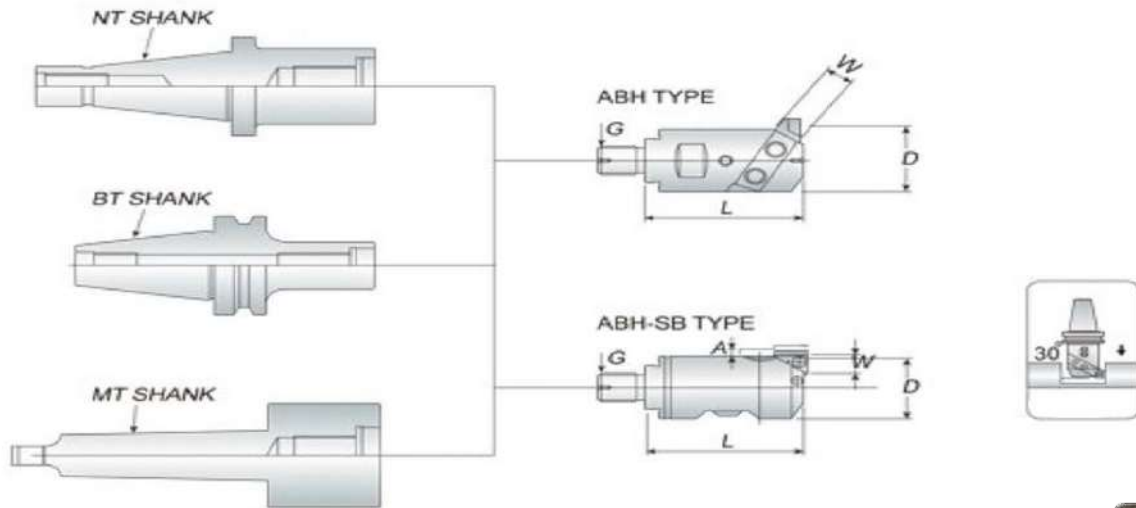


Fine Type

unit: mm

Model	Boring Range		D	L	W	G	Weight (kg)
	Min	Max					
ABH18(Fine-T)	-	32	18	50	6	M10x1.5P	0.40
ABH23(Fine-T)	28	46	23	65	8	M12x1.75P	0.50
ABH30(Fine-T)	36	60	30	80	10	M16x2.0P	0.70
ABH40(Fine-T)	46	80	40	90	13	M18x2.5P	1.40
ABH63(Fine-T)	70	130	63	97	16	M25x2.0P	2.80

ABH (Fine Boring Head - KKS)



ABH Type



unit: mm

Model	Boring Range		D	L	W	G	Weight (kg)
	Min	Max					
ABH18(Fine)	22	32	18	50	6	M10x1.5P	0.20
ABH23(Fine)	28	46	23	65	8	M12x1.75P	0.30
ABH30(Fine)	36	60	30	80	10	M16x2.0P	0.50
ABH40(Fine)	46	80	40	90	13	M18x2.5P	1.00
ABH63(Fine)	70	130	63	97	16	M25x2.0P	2.30
ABH83(Fine)	90	160	83	100	16	-	4.00

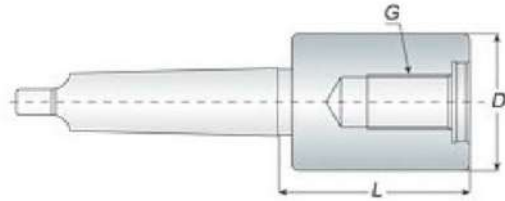
ABH-SB Type



unit: mm

Model	Boring Range		A	D	L	W	G	Insert	Weight (kg)
	Min	Max							
ABH-SB18(Fine)	20	25	2.5	18	40	8.2	M10x1.5P	TPGX08 or TPGT08	0.20
ABH-SB23(Fine)	25	32	3.5	23	50		M12x1.75P		0.30
ABH-SB30(Fine)	32	42	5	30	60		M16x2.0P		0.50
ABH-SB40(Fine)	42	55	6.5	40	70		M18x2.5P		1.00
ABH-SB50(Fine)	55	73	9	50	72		M25x2.0P		1.80

ABH (Micro Boring Holder)

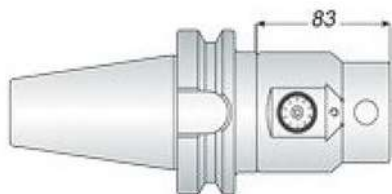


unit: mm

Model	Boring Range		D	L	G
	Min	Max			
MTA4					
ABH18-060	22	32	18	60	M10x1.5P
ABH18-100	22	32	18	100	M10x1.5P
ABH23-080	28	46	23	80	M12x1.75P
ABH23-120	28	46	23	120	M12x1.75P
ABH30-080	36	60	30	80	M16x2.0P
ABH30-130	36	60	30	130	M16x2.0P
ABH40-080	46	80	40	80	M18x2.5P
ABH40-150	46	80	40	150	M18x2.5P
ABH63-80	70	130	63	80	M25x2.0P
ABH63-150	70	130	63	150	M25x2.0P
MTA5					
ABH18-080	22	32	18	80	M10x1.5P
ABH18-120	22	32	18	120	M10x1.5P
ABH23-080	28	46	23	80	M12x1.75P
ABH23-120	28	46	23	120	M12x1.75P
ABH30-080	36	60	30	80	M16x2.0P
ABH30-130	36	60	30	130	M16x2.0P
ABH40-080	46	80	40	80	M18x2.5P
ABH40-150	46	80	40	150	M18x2.5P
ABH40-220	46	80	40	220	M18x2.5
MTA5					
ABH63-080	70	130	63	80	M25x2.0P
ABH63-150	70	130	63	150	M25x2.0P
ABH63-230	70	130	63	230	M25x2.0P
ABH83-050	90	160	83	50	-
ABH83-130	90	160	83	130	-
ABH83-200	90	160	83	200	-
MTA6					
ABH18-080	22	32	18	80	M10x1.5P
ABH18-120	22	32	18	120	M10x1.5P
ABH23-080	28	46	23	80	M12x1.75P
ABH23-120	28	46	23	120	M12x1.75P
ABH30-080	36	60	30	80	M16x2.0P
ABH30-130	36	60	30	130	M16x2.0P
ABH40-080	46	80	40	80	M18x2.5P
ABH40-150	46	80	40	150	M18x2.5P
ABH40-220	46	80	40	220	M18x2.5P
ABH63-080	70	130	63	80	M25x2.0P
ABH63-150	70	130	63	150	M25x2.0P
ABH63-230	70	130	63	230	M25x2.0P
ABH83-080	90	160	83	80	-
ABH83-130	90	160	83	130	-
ABH83-200	90	160	83	200	-

ABH/NBH Series

NBH (NBH2084 Micro Boring System)



unit: mm

Model	Boring Range	Holder	Draw Bolt	Weight (kg)
BT40 NBH2084/SET	8-280	BT40NBH2084	-	7.00
BT50 NBH2084/SET	8-280	BT50NBH2084	-	9.50
NT30 NBH2084/SET	8-280	NT30NBH2084	1/2"-12 M12x1.75P	6.00
NT40 NBH2084/SET	8-280	NT40NBH2084	5/8"-11 M16x2.0P	6.35
NT50 NBH2084/SET	8-280	NT50NBH2084	1"-8 M24x3.0P	8.90
MTA4 NBH2084/SET	8-280	MTA4NBH2084	-	6.80
MTA5 NBH2084/SET	8-280	MTA5NBH2084	-	7.40

MILLING

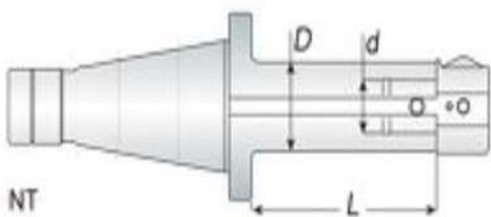
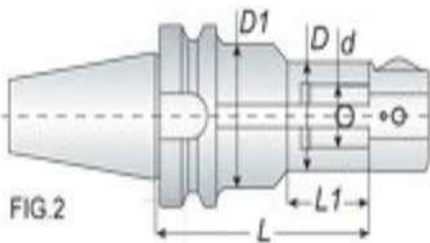
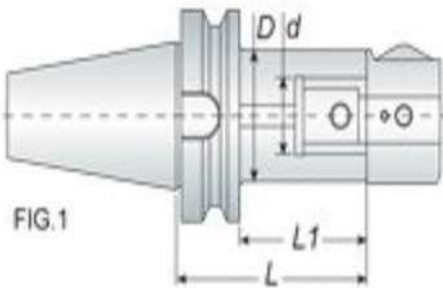
FACEMILLING

TAPPING

BORING

OTHERS

ABJ (Boring Holder)



unit: mm

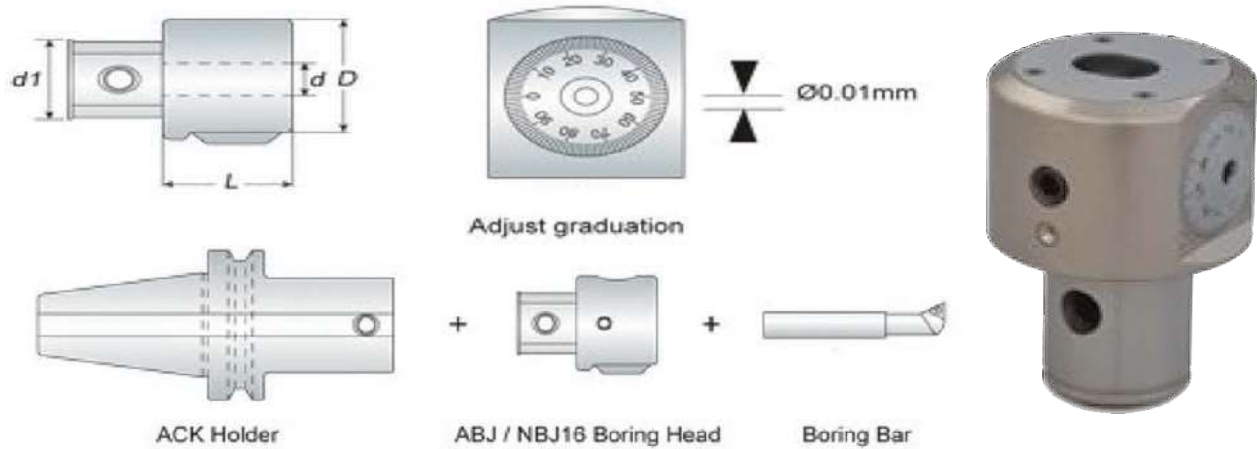
Model	Figure	D	d	L	L1	Weight (kg)
BT40						
ACK4-080	1	1	22	80	55	1.40
ACK4-100	1	1	22	100	75	1.60
ACK4-125	1	1	22	125	100	1.80
ACK4-145	2	2	22	145	56	1.90
ACK4-195	2	2	22	195	56	2.10
ACK5-080	1	1	28	80	55	1.60
ACK5-100	1	1	28	100	75	2.00
ACK5-135	1	1	28	135	110	2.50
ACK6-055	1	1	36	55	30	1.40
BT50						
ACK4-115	1	1	22	115	90	4.40
ACK4-175	1	1	22	175	140	5.00
ACK4-195	2	2	22	195	80	5.20
ACK4-235	2	2	22	235	80	5.60
ACK5-090	1	1	28	90	55	4.20
ACK5-135	1	1	28	135	80	5.20
ACK5-195	1	1	28	195	160	6.10
ACK6-110	1	1	36	110	75	4.90
ACK6-170	1	1	36	170	135	6.10
ACK6-215	1	1	36	215	180	7.50
ACK6-255	1	1	36	255	220	9.00
ACK6-300	1	1	36	300	265	9.60
ACK6-350	1	1	36	350	315	11.50

unit: mm

Model	D	d	L	Draw Bolt	Weight (kg)
NT40					
ACK4-080	39	22	80	5/8"-11 M16x2.0P	1.50
ACK4-100	39	22	100		1.70
ACK4-125	39	22	125		1.90
ACK5-080	50	28	80		2.00
ACK5-100	50	28	100		2.40
ACK5-135	50	28	135		2.80
ACK6-055	64	36	55	1.60	
NT50					
ACK4-115	39	22	115	1"-8 M24x3.0P	3.60
ACK4-175	39	22	175		4.20
ACK5-090	50	28	190		3.90
ACK5-135	50	28	135		4.50
ACK5-195	50	28	195		5.40
ACK6-110	64	36	110		4.40
ACK6-170	64	36	170		5.70
ACK6-215	64	36	215		7.20
ACK6-255	64	36	255		7.60

ABJ Series

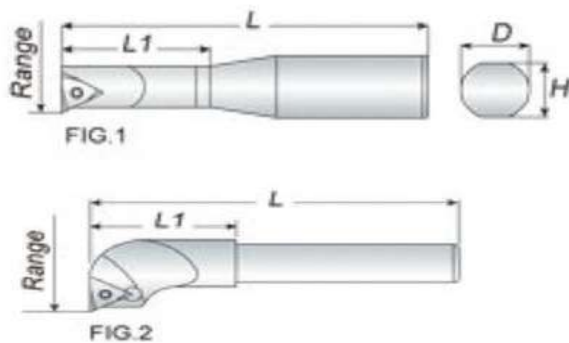
ABJ (Modular Micro Boring Head)



Model	Boring Range	d	d1	D	L	Holder/ Adapter Type	Weight (kg)
ABJ10	6-25	10	22	39	29	ACK4	0.4
ABJ12	6-32	12	28	50	36	ACK5	0.6
ABJ16	6-50	16	36	64	45	ACK6	1.2
NBJ16	6-50	16	36	63	50	ACK6	1.3

unit: mm

BJ (10B / 12B / 16 Boring Bar)



Model	d	Dimensions			H	Insert	Screw	Wrench	Weight (kg)
		Range	L	L1					
BJ10B06-24	10	6-8	64	24	9	WBGT0601..L	MS2003A	T6	0.03
BJ10B08-32		8-10	64	32		TBGT0601..L	MS2004A		0.03
BJ10B10-40		10-12	72	40		MS2005A	0.04		
BJ10B12-45		12-16	77	22		TPGH0902..L	MS2506A	T9	0.04
BJ10B16-45		16-20	77	22					0.05
BJ10B20-45		20-25	77	25					0.05
BJ10B-6PCS/ SET	BJ10B06-24, BJ10B08-32, BJ10B10-40, BJ10B12-40, BJ10B12-45, BJ10B16-45, BJ10B20-45								0.06

unit: mm

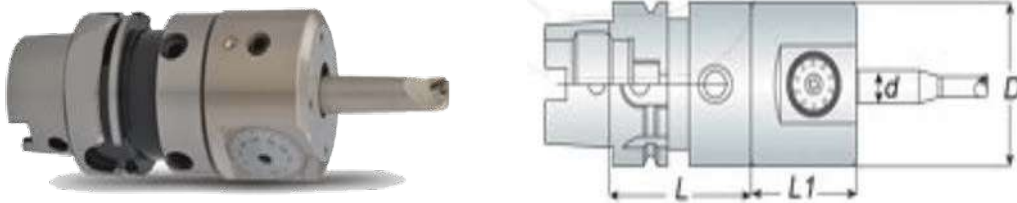
ABJ/NBJ (BM1625 Micro Boring Holder)



unit: mm

Model	Boring Range ØMin-ØMax	WM	Weight (kg)
BM1625-40	-	28	0.30
BM1625-63	-	52	0.40
BM1625-100	-	88	0.60
SRTP2938	29-38	10	0.02
SRTP3652	36-52	12	0.03
SRTP4468	44-68	12	0.05

ABJ/NBJ (Modular Micro Boring Holder)

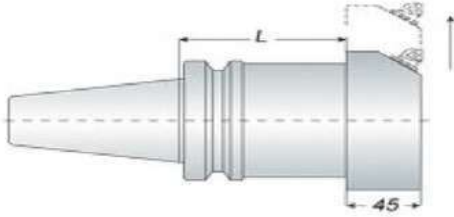


unit: mm

Model	Micro Boring Head Type	Boring Range	d	D	L	L1
HSK63A						
ACK4-090	ABJ10	6~25	10	39	90	29
ACK5-090	ABJ12	6~32	12	50	80	36
ACK6-065	ABJ16	6~50	16	64	65	45
NBJ16-65	NBJ16	6~50	16	63	65	50

ABJ/BCT Series

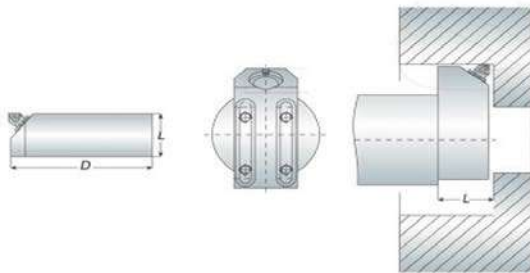
BCT (Large Micro Boring Holder with Slide Block)



unit: mm

Model	JT No.	Weight (kg)
BT50		
BCT100	100	6.50
BCT150	150	6.90
BCT200	200	9.50
BCT250	250	9.70
BCT300	300	10.70

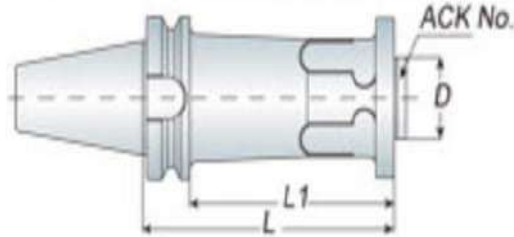
BCT (Boring Block)



unit: mm

Model	Boring Range		D	L	Boring Head	Weight (kg)
	Min	Max				
BCT-100	115	145	100	45	L148C-33	1.30
BCT-125	140	180	125	45	L148C-33	1.60
BCT-150	165	205	150	45	L148C-33	2.00
BCT-175	190	230	175	45	L148C-33	2.20
BCT-200	215	260	200	45	L148C-33	2.70
BCT-225	240	280	225	45	L148C-33	3.20
BCT-250	265	325	250	45	L148C-33	3.40
BCT-300	315	385	300	45	L148C-33	7.60
BCT-350	365	435	350	45	L148C-33	8.90

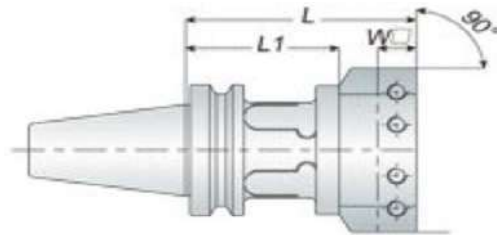
BST (Adjustable Balance Cutter Tool Holder)



unit: mm

Model	D	L	L1	ACK Cutter No.	Weight (kg)
BT40					
BST100	50	100	65		5.00
BST125	50	125	90		5.30
BST150	50	150	115		6.70
BST175	50	175	140	ACK120	7.30
BST200	50	200	165	ACK160	7.60
BST225	50	225	190	ACK200	8.30
BST250	50	250	215	ACK300	9.50
BST275	50	275	240	ACK400	9.90
BST300	50	300	265		10.80
BST350	50	350	315		13.50
BST400	50	400	365		14.40

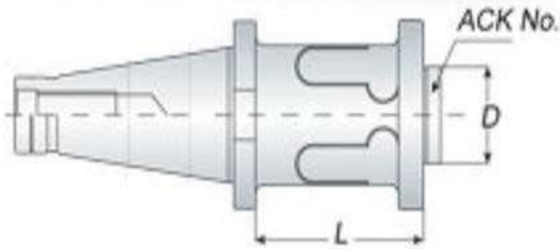
BST (Large Size Boring Holder)



unit: mm

Model	L1	L	Weight (kg)
BT50			
BST100	100	150	5.00
BST150	150	200	6.70
BST200	200	250	7.60
BST250	250	300	9.50
BST300	300	350	10.80
BST350	350	400	13.50

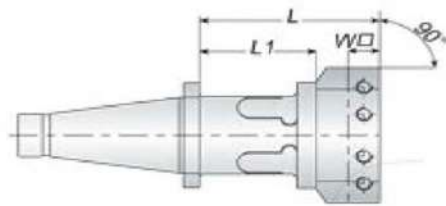
BST (Adjustable Balance Cutter Tool Holder)



unit: mm

Model	D	L	ACK Cutter No.	Draw Bolt	Weight (kg)
NT50					
BST100	50	100			4.80
BST125	50	125			5.10
BST150	50	150	ACK120		6.50
BST175	50	175	ACK160	1"-8M24	6.80
BST200	50	200	ACK200	x	7.30
BST225	50	225	ACK300	3.0P	7.90
BST250	50	250	ACK400		8.70
BST275	50	275			9.00
BST300	50	300			9.90
BST350	50	350			12.60
BST400	50	400			13.50

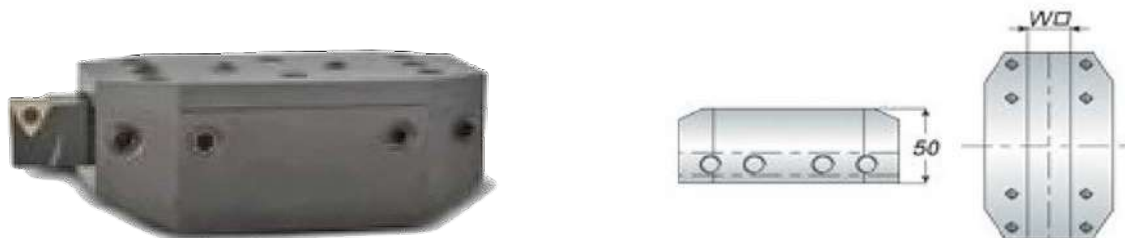
BST (Large Size Boring Holder)



unit: mm

Model	L1	L	Draw Bolt	Weight (kg)
NT50				
BST100	100	150		4.80
BST150	150	200		6.50
BST200	200	250	1"-8 M24	7.30
BST250	250	300	x	8.70
BST300	300	350	3.0P	9.90
BST350	350	400		12.60

BST (Boring Block)

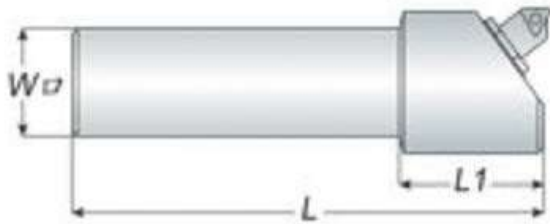


unit: mm

Model	Boring Range		W□	Weight (kg)
	Min	Max		
BST-125	150	200	19/25	3.20/2.90
BST-150	170	250	19/25	3.80/3.50
BST-200	220	300	19/25	5.30/4.80
BST-250	270	350	19/25	6.20/5.60
BST-300	320	450	19/25	7.40/6.90
BST-400	450	600	19/25	10.0/9.20

BST/MBT Series

MBT (Square Micro Boring Holder)



unit: mm

Model	Applicable Angle	L	L1	W	Boring Head
MBT16-L	30°, 45°, 90°	80, 130	30	16	L148C-31
MBT19	30°, 45°, 90°	100, 150, 200	30	19	L148C-32
MBT19.05-L	30°, 45°, 90°	100, 150, 200	30	19.05	L148C-32
MBT25	30°, 45°, 90°	100, 150, 200	30	25	L148C-33
MBT25.4-L	30°, 45°, 90°	100, 150, 200	30	25.4	L148C-33

MILLING

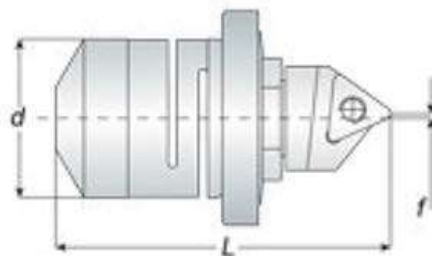
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BORING

OTHERS

R/L 148C (Fine Boring Head)

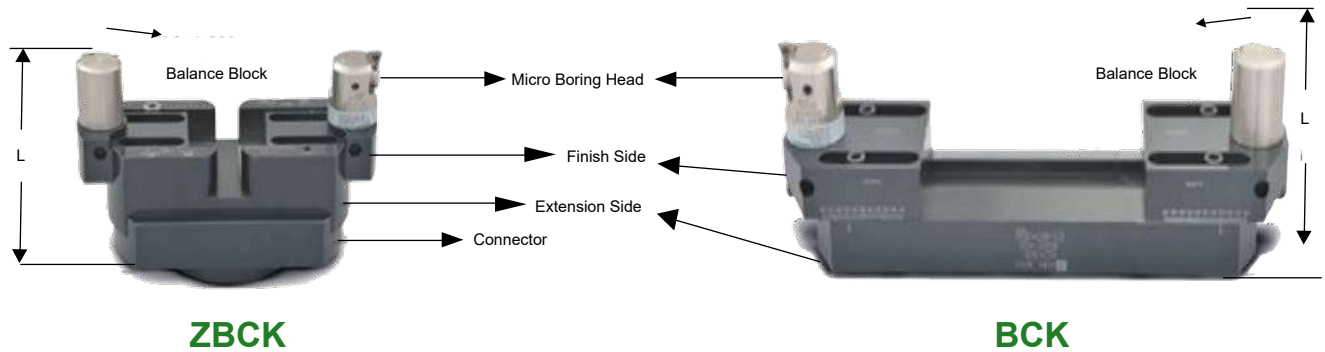


unit: mm

Model	d	L	f	D Min	Screw	Insert	Weight (kg)
R/L 148C-31-0602	16	15.5	0.2	24.8	5513 020-03	CCMT060204	0.15
R/L 148C-32-0902	20	33.7	0.9	32.5	5513-020-05	TCMT090204	0.20
R/L 148C-33-1102	22	45.3	1.1	42.0	5513-020-03	TCMT110204	0.30
R/L 148C-34-16T3	32	62.3	1.2	59.4	5513-020-10	TCMT16T304	0.50

R/L / ZBCK Series

ZBCK/BCK (Large Micro Boring Head)



ZBCK

BCK

MILLING

FACEMILLING

TAPPING

BORING

OTHERS

ZBCK Specifications:

unit: mm

Model	Boring Range	BST Holder	L	Connector	Extension Slide	Finish Side	Balance Block	Micro Boring Head	Weight (kg)
ZBCK200	200-270	BST	135	CL180 (3.2kgs)	ES200-270 (3.2kgs)	ZFS200-620 2PCS/Set (1.3kgs)	BS41 (0.36kgs)	BCK41	TC..1102
ZBCK270	270-340				ES270-340 (4.1kgs)				
ZBCK340	340-410				ES340-410 (4.9kgs)				
ZBCK410	410-480				ES410-480 (5.8kgs)				
ZBCK480	480-550				ES480-550 (6.6kgs)				
ZBCK550	550-620	CL220 (3.7kgs)	ES550-620 (7.5kgs)						

BCK Specifications:

unit: mm

Model	Boring Range	BST Holder	L	Extension Slide	Finish Side	Balance Block	Micro Boring Head	Weight (kg)
BCK200	200-300	BST	106.50	ES-BCK200	FS200-600 (1.3kgs)	BS41 (0.36kgs)	BCK41	TC..1102
BCK300	300-400			ES-BCK300				
BCK400	400-500			ES-BCK400				
BCK500	500-600			ES-BCK500				



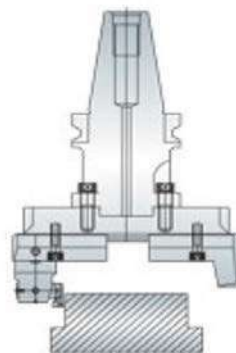
BCKH4-1



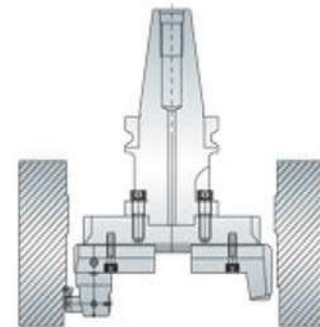
BCKH4-2
+Ø9



BCKH4-3
+Ø11

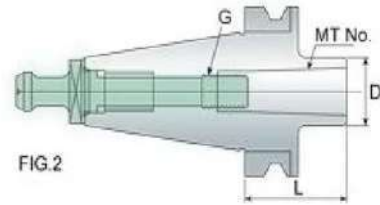
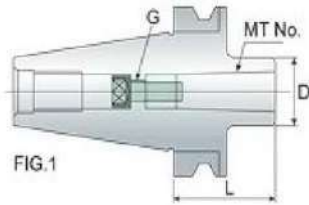


Turning



Back Boring

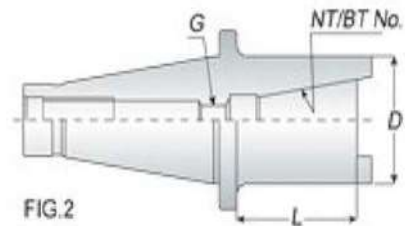
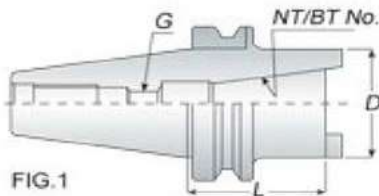
MTB (Morse Taper Holder)



unit: mm

Model	Figure	MT No.	L	D	G	Capacity			Weight (kg)
						Drill	Reamer	Endmill	
BT40									
MTB1-045	1	MTB1	45	25	M6x1.0P	2-14	5-14	10-14	1.10
MTB2-045	1	MTB2	45	32	M10x1.5P	14-23	14.5-23	16-22	1.10
MTB3-075	1	MTB3	75	40	M12x1.75P	23-32	24-32	24-32	1.30
MTB4-075	2	MTB4	75	45	M16x2.0P	32-50	32-50	35-50	1.30
BT50									
MTB1-045	1	MTB1	45	25	M6x1.0P	2-14	5-14	10-14	3.80
MTB2-045	1	MTB2	45	32	M10x1.5P	14-23	14.5-23	16-22	3.85
MTB3-060	1	MTB3	60	40	M12x1.75P	23-32	24-32	24-32	3.90
MTB4-075	1	MTB4	75	50	M16x2.0P	32-50	32-50	35-50	4.00
MTB5-120	2	MTB5	120	70	M20x2.5P	50-75	50	40-75	4.90

TSA (Adapter)

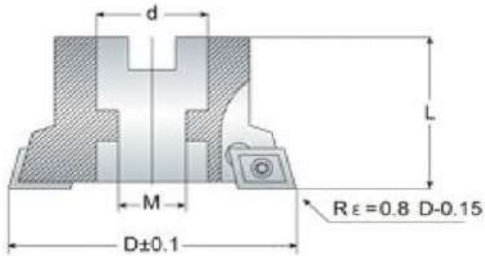


unit: mm

Model	Figure	D	L	G	Draw Bolt	Weight (kg)
BT50						
TSA40-075	1	70	75	M16X2.0P	-	4.50
NT40						
TSA30-075	2	60	75	M12X1.75P	5/8"-11 M16x2.0P	2.00
NT50						
TSA30-075	2	60	75	M12X1.75P	1"-8	3.00
TSA40-075	2	70	75	M16X2.0P	M24x3.0P	4.10

MTB/TSA/ TB Series

TB (Fixed Rough Boring Bar)



unit: mm

TB	Model	Model No. (d=25.4)	Insert	Model No. (d=25.4)	Insert	D	Teeth	
45	TB45-22.0-CC09	TB50-25.4-CC09	CC..09T308		CC..120408	44.8	2	
46	TB46-22.0-CC09					45.8		
47	TB47-22.0-CC09					46.8		
48	TB48-22.0-CC09					47.8		
50	TB50-22.0-CC09					49.8		
51	TB51-22.0-CC09	TB51-25.4-CC09	CC..09T308		CC..120408	50.8	2	
52	TB52-22.0-CC09	TB52-25.4-CC09				51.8		
55	TB55-22.0-CC09	TB55-25.4-CC09				TB55-22.0-CC09		54.8
57	TB57-22.0-CC09	TB57-25.4-CC09				TB57-22.0-CC09		56.8
59	TB59-22.0-CC09	TB59-25.4-CC09				TB59-22.0-CC09		58.8
60	TB60-22.0-CC09	TB60-25.4-CC09	CC..09T308	TB60-22.0-CC09	CC..120408	59.8	2	
62	TB62-22.0-CC09	TB62-25.4-CC09				TB62-25.4-CC09		61.8
63	TB63-22.0-CC09	TB63-25.4-CC09				TB63-25.4-CC09		62.8
65	TB65-22.0-CC09	TB65-25.4-CC09				TB65-25.4-CC09		64.8
66	TB66-22.0-CC09	TB66-25.4-CC09				TB66-25.4-CC09		65.8
68	TB68-22.0-CC09	TB68-25.4-CC09				CC..09T308		TB68-25.4-CC09
69	TB69-22.0-CC09	TB69-25.4-CC09	TB69-25.4-CC09	68.8				
70	TB70-22.0-CC09	TB70-25.4-CC09	TB70-25.4-CC09	69.8				
72	TB72-22.0-CC09	TB72-25.4-CC09	TB72-25.4-CC09	71.8				
74		TB74-25.5-CC09	TB74-25.4-CC09	73.8				
75	TB75-22.0-CC09	TB75-25.4-CC09	CC..09T308	TB75-25.4-CC09	CC..120408	74.8	2	
76		TB76-25.5-CC09				TB76-25.4-CC09		75.8
78		TB78-25.5-CC09				TB78-25.4-CC09		77.8
80		TB80-25.5-CC09				TB80-25.4-CC09		79.8
82		TB82-25.5-CC09				TB82-25.4-CC09		81.8
84		TB84-25.5-CC09	CC..09T308	TB84-25.4-CC09	CC..120408	83.8	2	
85		TB85-25.5-CC09				TB85-25.4-CC09		84.8
88		TB88-25.5-CC09				TB88-25.4-CC09		87.8
90		TB90-25.5-CC09				TB90-25.4-CC09		89.8
95		TB95-25.5-CC09				TB95-25.4-CC09		94.8

Inserts	Screw	Wrench
CCMT060208	MS2506A	T9
CCMT09T308	MS4011A	T15
CCMT120408	MS5011A	T20

Dimension	d	M	L
TB... - 2.0-..	22.0	11	50
TB... - 25.4-..	25.4	13	50

MILLING

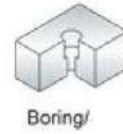
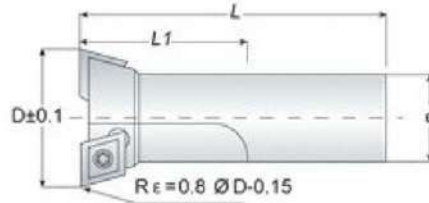
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BORING

OTHERS

TB (Fixed Rough Boring Bar)

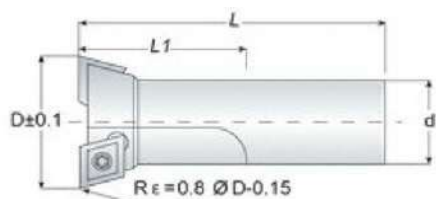


unit: mm

TB	Model	L	Model	L	Model	L	Dimension			Teeth	Insert
							D	d	L		
12	TB12-S16-120	120	TB12-S16-160	160	TB12-S16-200	200	11.8	16	30	1	CC..060208
13	TB13-S16-120						12.8				
14	TB14-S16-120						13.8				
15	TB15-S16-120						14.8				
16	TB16-S16-120						15.8				
16	TB17-S16-120	120	TB16-S16-160	160	TB16-S16-200	200	15.8	16	30	2	
17	TB18-S16-120						16.8				
18	TB19-S16-120						17.8				
19	TB20-S16-120						18.8				
20	TB21-S16-120						19.8				
21	TB22-S16-120						20.8				
22	TB22-S16-120						21.8				
23	TB23-S25-130	130	TB23-S20-160	160	TB23-S20-200	200	22.8	20	30	2	
24	TB24-S20-130						23.8				
25	TB25-S20-130						24.8				
26	TB26-S20-130						25.8				
26	TB27-S20-130	120	TB26-S20-160	160	TB26-S20-200	200	25.8	20	30	2	
27	TB28-S20-130						26.8				
28	TB29-S20-130						27.8				
29	TB29-S20-130						28.8				
30	TB30-S25-160						160				
31	TB31-S25-160	30.8									
32	TB32-S25-160	31.8									
33	TB33-S25-160	32.8									
34	TB34-S25-160	33.8									
35	TB35-S25-160	34.8									
36	TB36-S25-160	35.8									
37	TB37-S25-160	36.8									
38	TB38-S25-160	37.8									
39	TB39-S25-160	38.8									
40	TB40-S25-160	39.8									
30	TB30-S25-160	160	TB30-S25-200	200	TB30-S25-250	250	29.8	25	40	2	
31	TB31-S25-160						30.8				
32	TB32-S25-160						31.8				
33	TB33-S25-160						32.8				
34	TB34-S25-160						33.8				
35	TB35-S25-160						34.8				
36	TB36-S25-160						35.8				
37	TB37-S25-160						36.8				
38	TB38-S25-160						37.8				
39	TB39-S25-160						38.8				
40	TB40-S25-160						39.8				

TB Series

TB (Fixed Rough Boring Bar)



unit: mm

TB	Model	L	Model	L	Model	L	Dimension			Teeth	Insert
							D	d	L		
41	TB41-S32-200	200	TB41-S32-250	250	TB41-S32-300	300	40.8	32	45	2	CC..09T308
42	TB42-S32-200		TB42-S32-250		TB42-S32-300		41.8				
43	TB43-S32-200		TB43-S32-250		TB43-S32-300		42.8				
44	TB44-S32-200		TB44-S32-250		TB44-S32-300		43.8				
45	TB45-S32-200		TB45-S32-250		TB45-S32-300		44.8				
46	TB46-S32-200		TB46-S32-250		TB46-S32-300		45.8				
47	TB47-S32-200		TB47-S32-250		TB47-S32-300		46.8				
48	TB48-S32-200		TB48-S32-250		TB48-S32-300		47.8				
49	TB49-S32-200		TB49-S32-250		TB49-S32-300		48.8				
50	TB50-S32-200		TB50-S32-250		TB50-S32-300		49.8				
51	TB51-S32-200	200	TB51-S32-250	250	TB51-S32-300	300	50.8	32	45	2	CC..09T308
52	TB52-S32-200		TB52-S32-250		TB52-S32-300		51.8				
53	TB53-S32-200		TB53-S32-250		TB53-S32-300		52.8				
54	TB54-S32-200		TB54-S32-250		TB54-S32-300		53.8				
55	TB55-S32-200		TB55-S32-250		TB55-S32-300		54.8				
56	TB56-S32-200		TB56-S32-250		TB56-S32-300		55.8				
57	TB57-S32-200		TB57-S32-250		TB57-S32-300		56.8				

MILLING

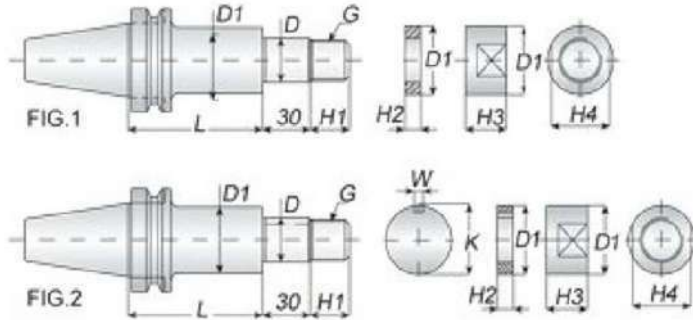
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BORING

OTHERS

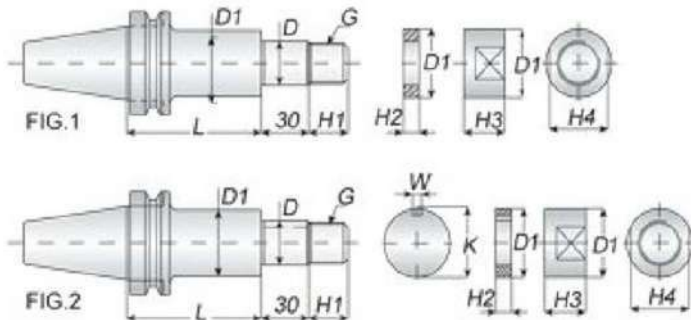
SCA (Side Cutter Holder)



unit: mm

Model	Fig.	D	L	D1	H1	W	K	H2	H3	H4	G	Weight (kg)
BT30												
SCA13-060	1	13	60	20	15	-	-		12	17	M12x1.75P	0.7
SCA13-090			90									1.0
SCA16-075	2	16	75	26	16	4	17.2		13	22	M16x1.5P	0.9
SCA16-105			105									1.1
SCA22-075	2	22	75	34	21	6	23.6		18	30	M22x1.5P	1.3
SCA22-120			120									1.5
BT40												
SCA13-060	1	13	60	20	15	-	-		12	17	M12x1.75P	1.1
SCA13-090			90									1.4
SCA16-075	2	16	75	26	16	4	17.2		13	22	M16x1.5P	1.5
SCA16-105			105									1.6
SCA22-075	2	22	75	34	21	6	23.6	5	18	30	M22x1.5P	1.9
SCA22-120			120									2.2
SCA27-075	2	27	75	40	25	7	29	10	21	32	M25x1.5P	2.0
SCA27-120			120									2.6
SCA32-090	2	32	90	46	30	8	34	20	26	41	M31x2.0P	2.7
SCA12.7-060	1	12.7	60	20	15	-	-		12	17	M12x1.75P	1.1
SCA12.7-090			90									1.4
SCA15.875-075	2	15.875	75	26	16	3.18	17.42		13	22	M16x1.5P	1.5
SCA15.875-105			105									1.6
SCA22.225-075	2	22.225	75	34	21	3.18	23.82		18	30	M22x1.5P	1.9
SCA22.225-120			120									2.2
SCA25.4-075	2	25.4	75	40	25	6.35	27.78		21	32	M25x1.5P	2.0
SCA25.4-120			120									2.5
SCA31.75-090	2	31.75	90	46	30	7.92	34.92		26	41	M31x2.0P	2.7

SCA (Side Cutter Holder)



unit: mm

Model	Fig.	D	L	D1	H1	W	K	H2	H3	H4	G	Weight (kg)
BT50												
SCA13-075	1	13	75	20	15	-	-	5 10 20	12	17	M12x1.75P	4.1
SCA13-105		105										
SCA16-090	2	16	90	26	16	4	17.2		13	22	M16x1.5P	4.1
SCA16-120		120										4.4
SCA22-090		22	90	34	21	6	23.6		18	30	M22x1.5P	4.6
SCA22-135		135										5.0
SCA27-090		27	90	40	25	7	29		21	32	M25x1.5P	5.0
SCA27-135		135										5.5
SCA32-090	2	32	90	46	30	8	34		26	41	M31x2.0P	5.4
SCA32-135		135										6.1
SCA40-090		40	90	55	36	10	42.5	31	46	M36x2.0P	6.1	
SCA40-135		135									7.0	
SCA12.7-075	1	12.7	75	20	15	-	-	5 10 20	12	17	M12x1.75P	4.1
SCA12.7-105		105										
SCA15.875-090	2	15.875	90	26	16	3.18	17.42		13	22	M16x1.5P	4.2
SCA15.875-120		120										4.5
SCA22.225-090		22.225	90	34	21	3.18	23.82		18	30	M22x1.5P	4.6
SCA22.225-135		135										5.0
SCA25.4-090		25.4	90	40	25	6.35	27.78		21	32	M25x1.5P	5.0
SCA25.4-135		135										5.5
SCA31.75-090	2	31.75	90	46	30	7.92			26	41	M31x2.0P	5.4
SCA31.75-135		135					34.92					6.1
SCA38.1-090		38.1	90	55	36	9.52		31	46	M36x2.0P	6.1	
SCA38.1-135	135						42.06				7.0	

MILLING

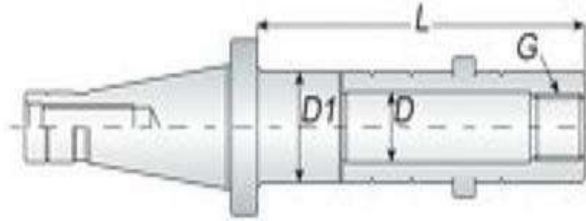
FACEMILLING

TAPPING

BORING

OTHERS

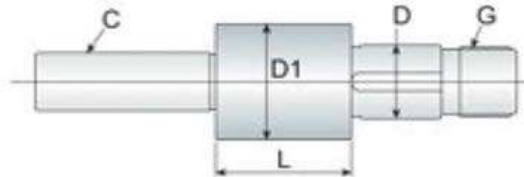
SCA (Side Cutter Holder)



unit: mm

Model	D	D1	L	G	Draw Bolt
NT30					
SCA25.4-L	25.4	4	3",4",5",6"	M25x1.5P	1/2"-12
SCA31.75-L	31.75	46	3",4",5",6"	M31x2.0P	M12x1.75P
NT40					
SCA25.4-L	25.4	40	3",4",5",6",7",8"	M25x1.5P	5/8"-11
SCA31.75-L	31.75	46	3",4",5",6",7",8"	M31x2.0P	M16x2.0P
NT50					
SCA25.4-L	25.4	40	3",4",5",6",7",8"	M25x1.5P	1"-8
SCA31.75-L	31.75	46	3",4",5",6",7",8"	M31x2.0P	M24x3.0P
SCA38.1-L	38.1	55	3",4",5",6",7",8"	M36x2.0P	

SCA (Straight Shank)



unit: mm

Model	C	D	D1	L	G
C20					
SCA25.4-075	20	25.4	40	20	
SCA25.4-100	20	25.4	40	45	M25x1.5P
SCA25.4-125	20	25.4	40	70	
SCA25.4-150	20	25.4	40	95	
C25					
SCA25.4-075	25	25.4	40	20	
SCA25.4-100	25	25.4	40	45	M25x1.5P
SCA25.4-125	25	25.4	40	70	
C32					
SCA25.4-075	32	25.4	40	20	
SCA25.4-100	32	25.4	40	45	M25x1.5P
SCA25.4-125	32	25.4	40	70	
SCA25.4-150	32	25.4	40	95	

SCA Series

MILLING

FACEMILLING

TAPPING

BORING

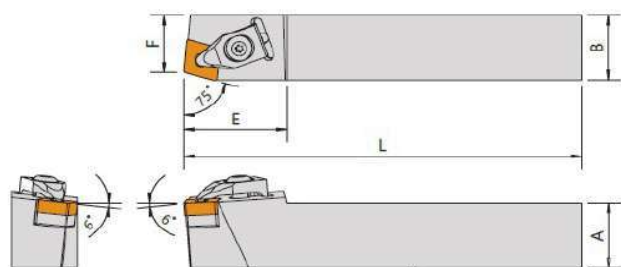
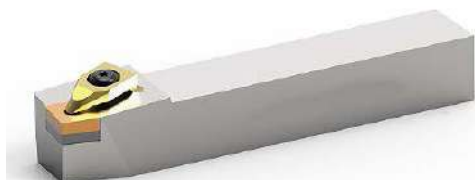
OTHERS

EXTERNAL TURNING TOOL HOLDERS

CONTENTS

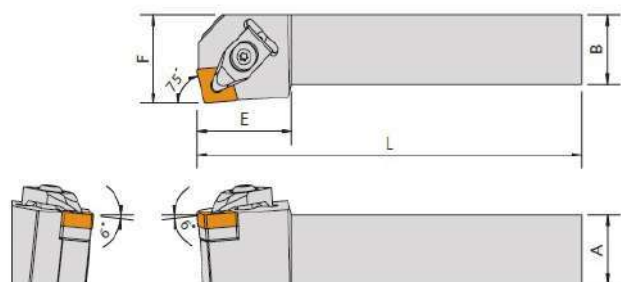
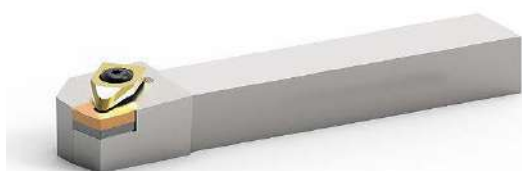
C Insert Shape	B03
D Insert Shape	B10
R Insert Shape	B15
S Insert Shape	B17
T Insert Shape	B22
V Insert Shape	B31
W Insert Shape	B37
Special Tool holders	B39

DCBN 75°



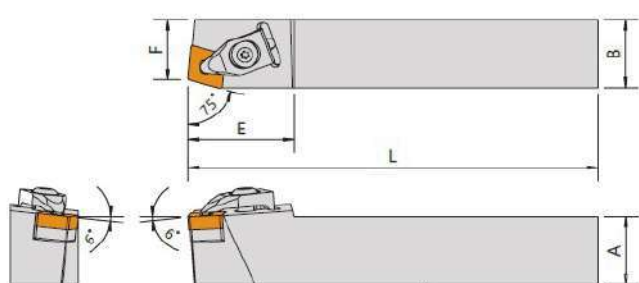
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
DCBN__-2020K12X	CNMG1204	20	20	125	37	17
DCBN__-2525M12X	CNMG1204	25	25	150	37	22
DCBN__-3232P12X	CNMG1204	32	32	170	37	22

DCKN 75°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
DCKN__-2020K12X	CNMG1204	20	20	125	37	25
DCKN__-2525M12X	CNMG1204	25	25	150	37	32
DCKN__-3232P12X	CNMG1204	32	32	170	37	32

DCLN 95°



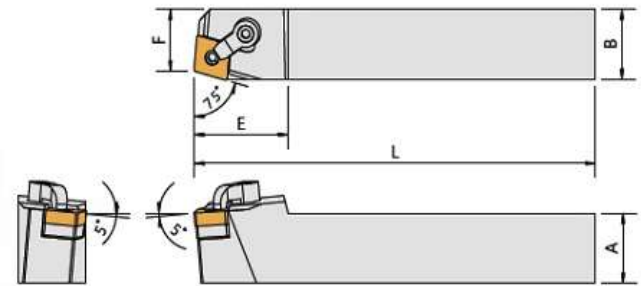
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
DCLN__-1616H09X	CNMG0903	16	16	100	33	20
DCLN__-2020K09X	CNMG0903	20	20	125	30	25
DCLN__-2525M09X	CNMG0903	25	25	150	30	32
DCLN__-2020K12X	CNMG1204	20	20	125	40	25
DCLN__-2525M12X	CNMG1204	25	25	150	36	32
DCLN__-3232P12X	CNMG1204	32	32	170	36	32



Insert Shape

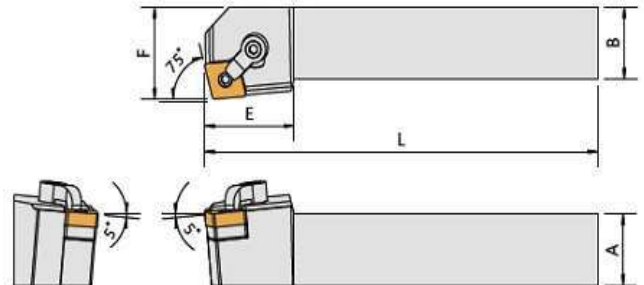
MCBN 75°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MCBN__-2020K12	CNMG1204	20	20	125	35	17
MCBN__-2525M12	CNMG1204	25	25	150	35	22
MCBN__-3232P12	CNMG1204	32	32	170	40	27
MCBN__-2525M16	CNMG1606	25	25	150	35	22
MCBN__-3232P16	CNMG1606	32	32	170	40	27
MCBN__-3232P19	CNMG1606	32	32	170	40	27



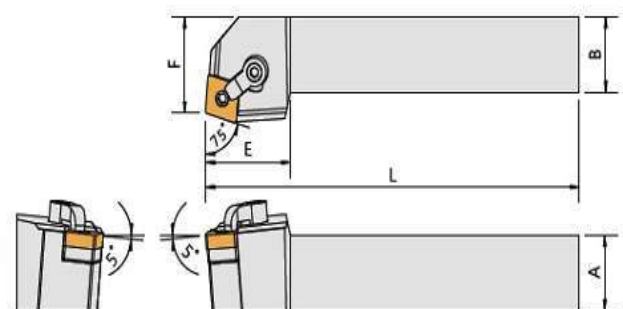
MCKN 75°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MCKN__-2020K12	CNMG1204	20	20	125	37	25
MCKN__-2525M12	CNMG1204	25	25	150	34	32
MCKN__-3225P12	CNMG1204	32	32	170	34	32
MCKN__-3232P12	CNMG1204	32	32	170	40	40



MCRN 75°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MCRN__-2020K12	CNMG1204	20	20	125	37	22
MCRN__-2525M12	CNMG1204	25	25	150	34	27
MCRN__-3225P12	CNMG1204	32	32	170	34	27
MCRN__-3232P12	CNMG1204	32	32	170	40	35
MCRN__-3232P16	CNMG1606	32	32	170	40	35
MCRN__-3232P19	CNMG1906	32	32	170	40	35



C
INSERT

D
INSERT

R
INSERT

S
INSERT

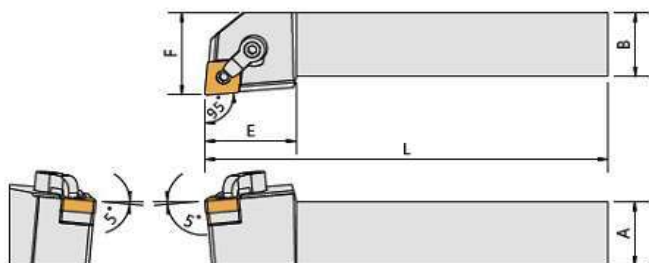
T
INSERT

V
INSERT

W
INSERT

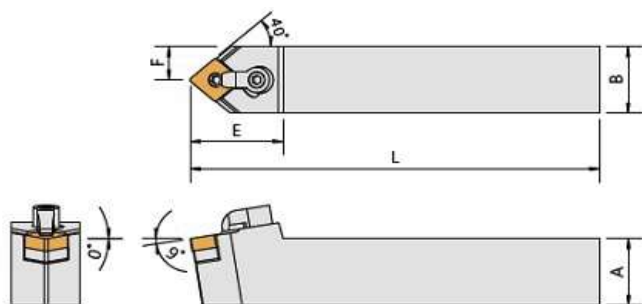
SPECIAL
INSERT

MCLN 95°



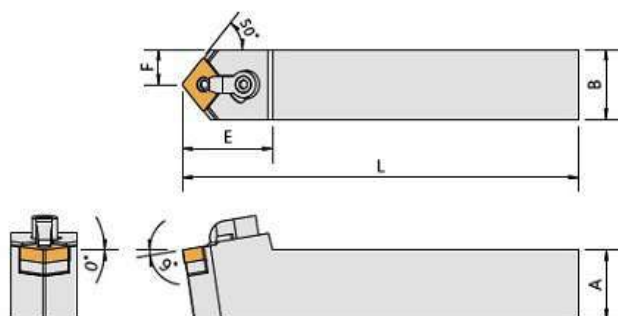
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MCLN__1616H12	CNMG1204	16	16	100	33	20
MCLN__2020K12	CNMG1204	20	20	125	33	25
MCLN__2525M12	CNMG1204	25	25	150	33	32
MCLN__3225P12	CNMG1204	32	25	170	33	32
MCLN__3232P12	CNMG1204	32	32	170	33	40
MCLN__2525M16	CNMG1606	25	25	150	33	32
MCLN__3225P16	CNMG1606	32	25	170	33	32
MCLN__3232P16	CNMG1606	32	32	170	33	40
MCLN__4040S16	CNMG1606	40	40	250	38	50
MCLN__2525M19	CNMG1906	25	25	150	38	32
MCLN__3225P19	CNMG1906	32	25	170	38	32
MCLN__3232P19	CNMG1906	32	32	170	38	40
MCLN__4040S19	CNMG1906	40	40	250	38	50

MCMNN 40°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MCMNN__2020K12	CNMG1204	20	20	125	37	10
MCMNN__2525M12	CNMG1204	25	25	150	37	12.5
MCMNN__3225P12	CNMG1204	32	25	170	37	12.5
MCMNN__3232P12	CNMG1204	32	32	170	40	16
MCMNN__3232P16	CNMG1606	32	32	170	40	16
MCMNN__3232P19	CNMG1906	32	32	170	40	16

MCMNN-100 50°

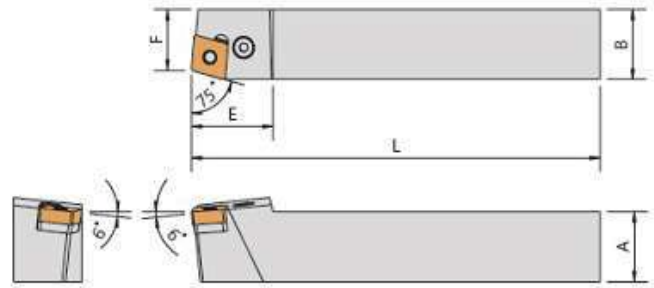


ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MCMNN__2020K12-100	CNMG1204	20	20	125	37	10
MCMNN__2525M12-100	CNMG1204	25	25	150	37	12.5
MCMNN__3225P12-100	CNMG1204	32	25	170	37	12.5
MCMNN__3232P12-100	CNMG1204	32	32	170	40	16
MCMNN__3232P16-100	CNMG1606	32	32	170	40	16
MCMNN__3232P19-100	CNMG1906	32	32	170	40	16

PCBN 75°



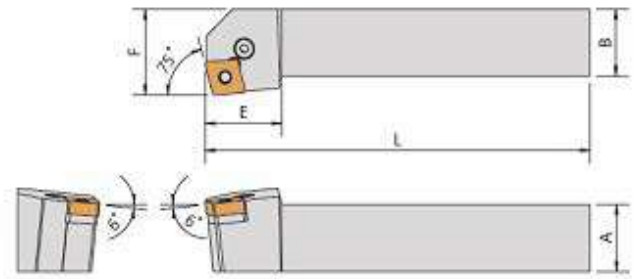
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
PCBN__-2020K12	CNMG1204	20	20	125	30	17
PCBN__-2525M12	CNMG1204	25	25	150	30	22
PCBN__-3225P12	CNMG1204	32	25	170	30	22
PCBN__-3232P12	CNMG1204	32	32	170	30	29



PCKN 75°



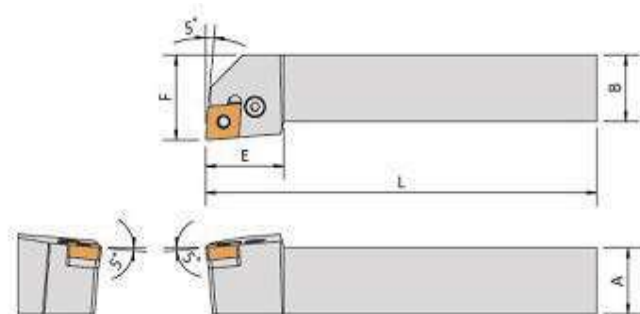
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
PCKN__-2020K12	CNMG1204	20	20	125	26	25
PCKN__-2525M12	CNMG1204	25	25	150	26	32
PCKN__-3225P12	CNMG1204	32	25	170	26	32
PCKN__-3232P12	CNMG1204	32	32	170	40	40



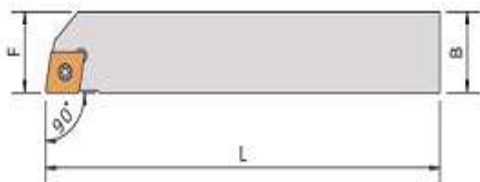
PCLN 95°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
PCLN__1616H09	CNMG0903	16	16	100	20	20
PCLN__2020K12	CNMG1204	20	20	125	26	25
PCLN__2525M12	CNMG1204	25	25	150	26	32
PCLN__3225P12	CNMG1204	32	25	170	26	32
PCLN__3232P12	CNMG1204	32	32	170	33	40
PCLN__2525M16	CNMG1606	25	25	150	33	32
PCLN__2525M19	CNMG1906	25	25	150	36	32

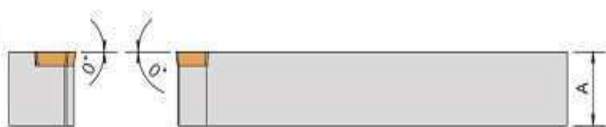
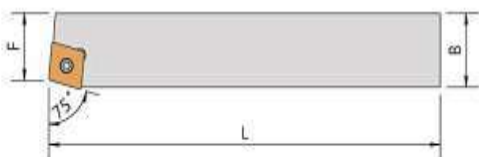


SCAC 90°



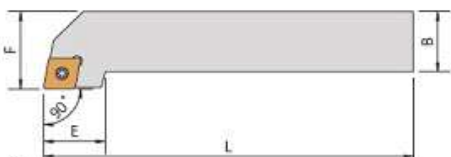
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SCAC__0808H06	CCMT0602	8	8	100	-	8.5
SCAC__1010H06	CCMT0602	10	10	100	-	10.5
SCAC__1212H06	CCMT0602	12	12	100	-	12.5
SCAC__0808K06	CCMT0602	8	8	125	-	8.5
SCAC__1010K06	CCMT0602	10	10	125	-	10.5
SCAC__1212K06	CCMT0602	12	12	125	-	12.5
SCAC__1212H09	CCMT09T3	12	12	100	-	12.5
SCAC__1616H09	CCMT09T3	16	16	100	-	16.5
SCAC__1212K09	CCMT09T3	12	12	125	-	12.5
SCAC__1616K09	CCMT09T3	16	16	125	-	16.5
SCAC__2020K12	CCMT1204	20	20	125	-	20.5
SCAC__2525M12	CCMT1204	25	25	150	-	25.5

SCBC 75°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SCBC__-2020K09	CCMT09T3	20	20	125	-	18.3
SCBC__-2525M09	CCMT09T3	25	25	150	-	23.3
SCBC__-2020K12	CCMT1204	20	20	125	-	17.5
SCBC__-2525M12	CCMT1204	25	25	150	-	22.5

SCGC 90°

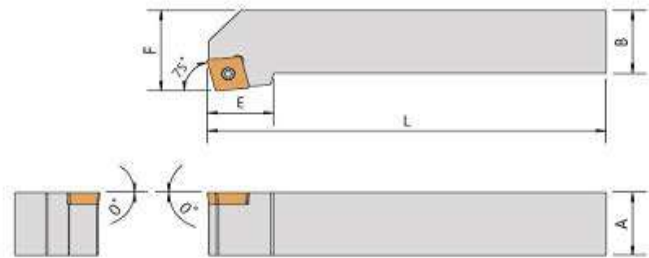


ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SCGC__0808H06	CCMT0602	8	8	100	12	10
SCGC__1010H06	CCMT0602	10	10	100	12	12
SCGC__1212H09	CCMT09T3	12	12	100	17	16
SCGC__1616H06	CCMT09T3	16	16	100	18	20
SCGC__2020K12	CCMT1204	20	20	125	22	25
SCGC__2525M12	CCMT1204	25	25	150	25	32

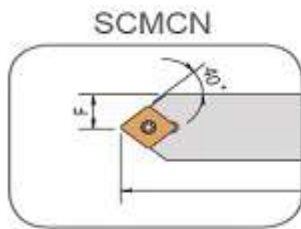
SCKC 75°



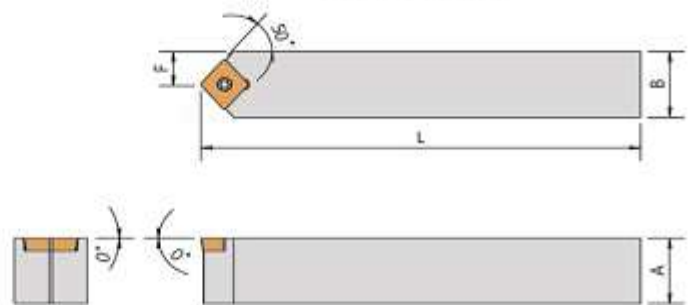
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SCKC__-2020K09	CCMT09T3	20	20	125	22	25
SCKC__-2525M09	CCMT09T3	25	25	150	25	32
SCKC__-2020K12	CCMT1204	20	20	125	22	25
SCKC__-2525M12	CCMT1204	25	25	150	25	32



SCMCN 80° / SCMCN-100°

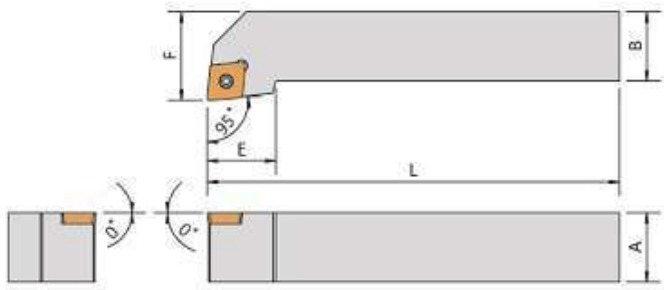


SCMCN-100



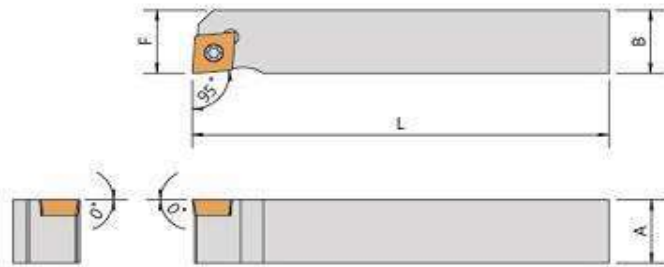
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SCMCN-1212H09	CCMT09T3	12	12	100	-	6
SCMCN-1616H09	CCMT09T3	16	16	100	-	8
SCMCN-2020K09	CCMT09T3	20	20	125	-	10
SCMCN-2525M09	CCMT09T3	25	25	150	-	12.5
SCMCN-2020K12	CCMT1204	20	20	125	-	10
SCMCN-2525M12	CCMT1204	25	25	150	-	12.5
SCMCN-1212H09-100	CCMT09T3	12	12	100	-	6
SCMCN-1616H09-100	CCMT09T3	16	16	100	-	8
SCMCN-2020K09-100	CCMT09T3	20	20	125	-	10
SCMCN-2525M09-100	CCMT09T3	25	25	150	-	12.5
SCMCN-2020K12-100	CCMT1204	20	20	125	-	10
SCMCN-2525M12-100	CCMT1204	25	25	150	-	12.5

SCLC 95°



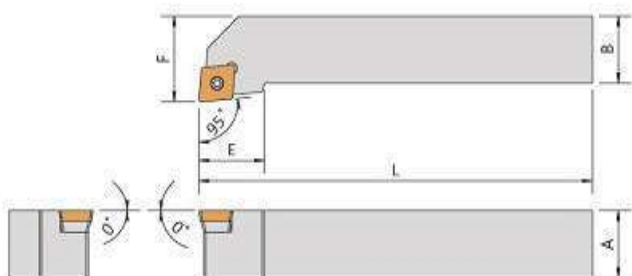
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SCLC__-0808H06	CCM0602	8	8	100	12	10
SCLC__-1010H06	CCM0602	10	10	100	12	12
SCLC__-1212H06	CCM0602	12	12	100	17	16
SCLC__-1212H09	CCMT09T3	12	12	100	17	16
SCLC__-1616H09	CCMT09T3	16	16	100	18	20
SCLC__-2020K09	CCMT09T3	20	20	125	22	25
SCLC__-2525M09	CCMT09T3	25	25	150	25	32
SCLC__-2020K12	CCMT1204	20	20	125	22	25
SCLC__-2525M12	CCMT1204	25	25	150	25	32

SCLC-N 95°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SCLC__-0808H06N	CCMT0602	8	8	100	-	8
SCLC__-1010H06N	CCMT0602	10	10	100	-	10
SCLC__-0808K06N	CCMT0602	8	8	125	-	8
SCLC__-1010K06N	CCMT0602	10	10	125	-	10
SCLC__-1212H09N	CCMT09T3	12	12	100	-	12
SCLC__-1616H09N	CCMT09T3	16	16	100	-	16
SCLC__-1212K09N	CCMT09T3	12	12	125	-	12
SCLC__-1616K09N	CCMT09T3	16	16	125	-	16

SCLC-S 95°



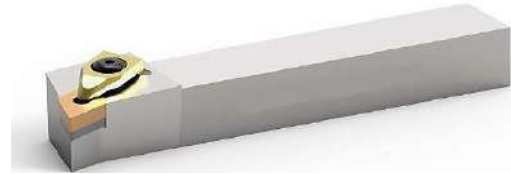
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SCLC__-2020K09S	CCMT09T3	20	20	125	22	25
SCLC__-2525M09S	CCMT09T3	25	25	150	25	32
SCLC__-2020K12S	CCMT1204	20	20	125	22	25
SCLC__-2525M12S	CCMT1204	25	25	150	25	32

D

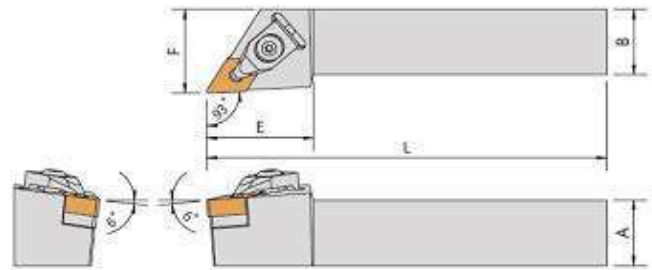


Insert Shape

DDHN 107.5°V



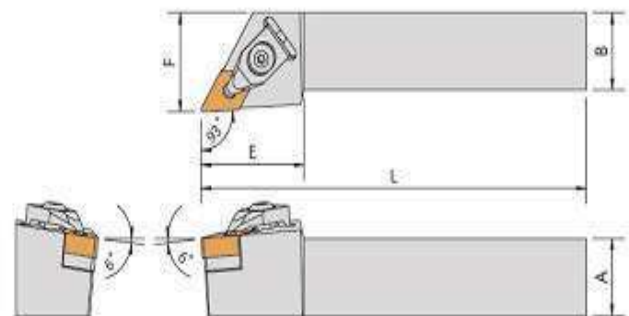
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
DDHN__2020K15X	DNMG1504-SMD463	20	20	125	35	25
DDHN__2525M15X	DNMG1506-SMD443	25	25	150	35	32



DDJN 93°



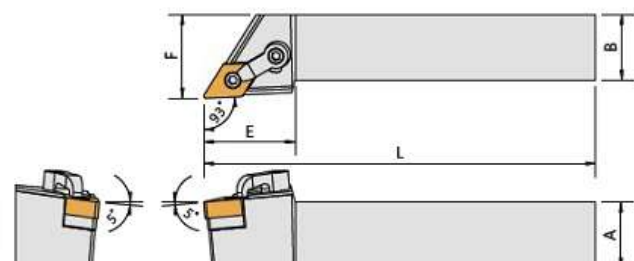
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
DDJN__1616H11X	DNMG1104	16	16	100	36	20
DDJN__2020K11X		20	20	125	36	25
DDJN__2525M11X		25	25	150	36	32
DDJN__2020K15X	DNMG1504-SMD463	20	20	125	43	25
DDJN__2525M15X	DNMG1506-SMD443	25	25	150	43	32
DDJN__3232P15X		32	32	170	43	40



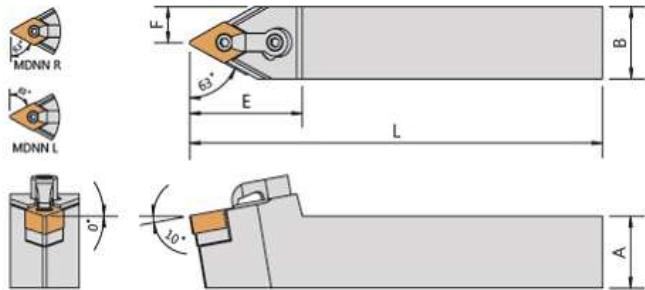
MDJN 93°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MDJN__-2020K15	DNMG1504-SMD463	20	20	125	37	25
MDJN__-2525M15		25	25	150	37	32
MDJN__-3225P15	DNMG1506-SMD443	32	25	170	42	32
MDJN__-3232P15		32	32	170	42	40

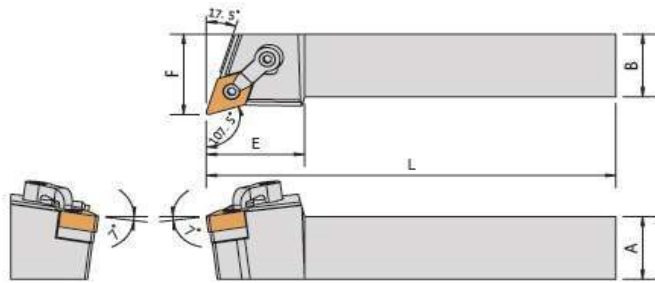
C
INSERTD
INSERTR
INSERTS
INSERTT
INSERTV
INSERTW
INSERTSPECIAL
INSERT

MDNN 63°



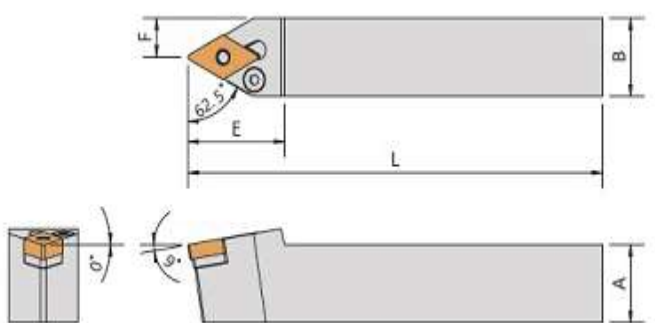
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MDNN__-2020K15	DNMG1504-SMD463	20	20	125	41	10
MDNN__-2525M15	DNMG1504-SMD463	25	25	150	41	12.5
MDNN__-3225P15	DNMG1506-SMD443	32	25	170	42	12.5
MDNN__-3232P15	DNMG1506-SMD443	32	32	170	43	16

MDQN 107.5°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MDQN__-2020K15	DNMG1504-SMD463	20	20	125	36	25
MDQN__-2525M15	DNMG1504-SMD463	25	25	150	36	32
MDQN__-3225P15	DNMG1506-SMD443	32	32	170	40	32
MDQN__-3232P15	DNMG1506-SMD443	32	32	170	40	40

PDNN 63°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
PDNN__2525M1504	DNMG1504	25	25	150	35	12.5
PDNN__3225P1504	DNMG1504	32	25	170	35	12.5
PDNN__3232P1504	DNMG1504	32	32	170	35	16
PDNN__2525M1506	DMNG1506	25	25	150	35	12.5
PDNN__3225P1506	DMNG1506	32	25	170	35	12.5
PDNN__3232P1506	DMNG1506	32	32	170	35	16

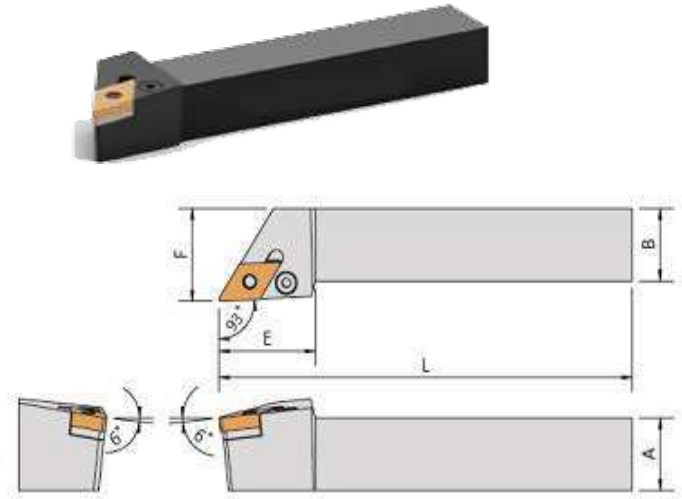
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Insert Shape

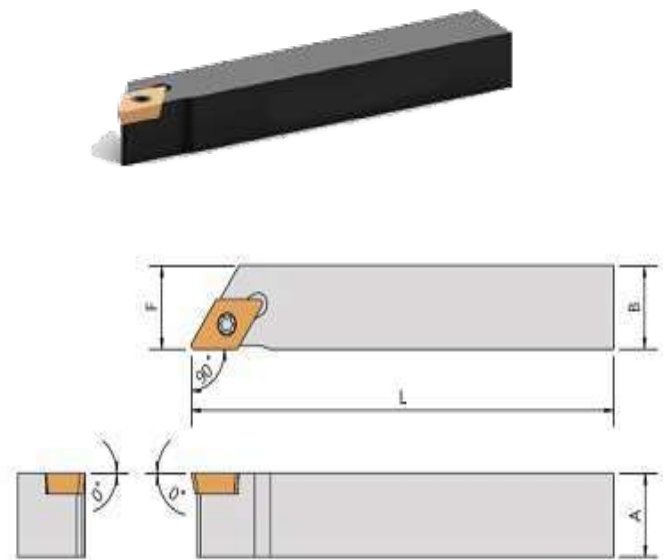
PDJN 95°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
PDJN__2020L11	DNMG1104	20	20	125	35	25
PDJN__2525M11	DNMG1104	25	25	150	35	32
PDJN__2020K1504	DNMG1504	20	20	125	36	25
PDJN__2525M1504	DNMG1504	25	25	150	36	32
PDJN__3225P1504	DNMG1504	32	25	170	38	32
PDJN__3232P1504	DNMG1504	32	32	170	38	40
PDJN__2020K1506	DNMG1506	20	20	150	36	25
PDJN__2525M1506	DNMG1506	25	25	150	36	32
PDJN__3225P1506	DNMG1506	32	25	170	38	32
PDJN__3232P1506	DNMG1506	32	32	170	38	40



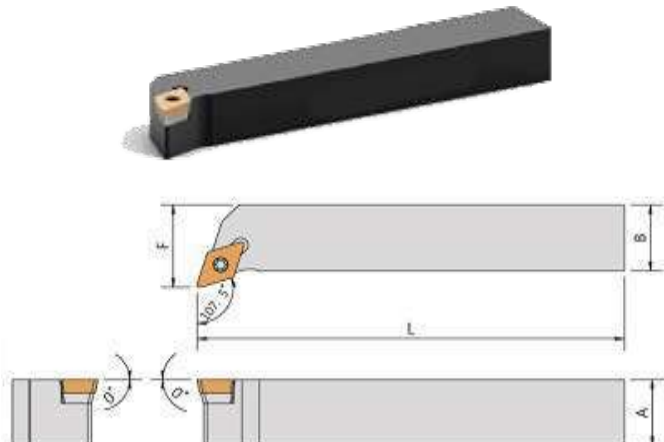
SDAC 90°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SDAC__0808H07	DCMT0702	8	8	100	-	8
SDAC__1010H07	DCMT0702	10	10	100	-	10
SDAC__1212H07	DCMT0702	12	12	100	-	12
SDAC__0808K07	DCMT0702	8	8	125	-	8
SDAC__1010K07	DCMT0702	10	10	125	-	10
SDAC__1212K07	DCMT0702	12	12	125	-	12
SDAC__1212H11	DCMT11T3	12	12	100	-	12
SDAC__1616H11	DCMT11T3	16	16	100	-	16
SDAC__1212K11	DCMT11T3	12	12	125	-	12
SDAC__1616K11	DCMT11T3	16	16	125	-	16
SDAC__2020K11	DCMT11T3	20	20	125	-	20
SDAC__2525M11	DCMT11T3	25	25	150	-	25



SDQC-S 107.5°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SDQC__2020K11S	DCMT11T3	20	20	125	-	25
SDQC__2525M11S	DCMT11T3	25	25	150	-	32



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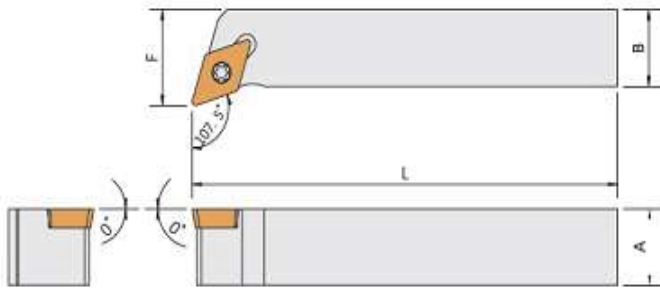
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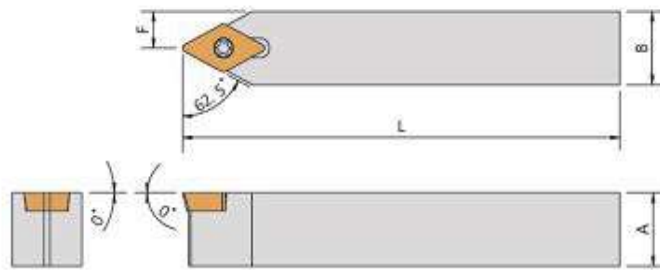
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SDQC 107.5°



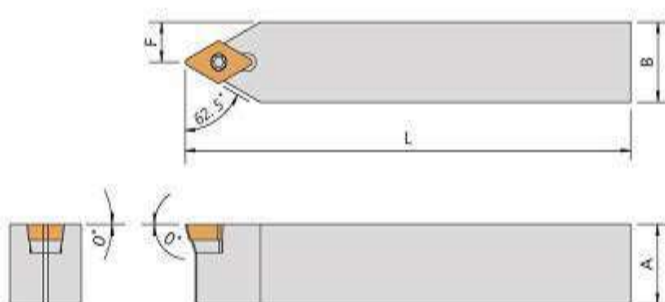
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SDQC__1010H07	DCMT0702	10	10	100	-	12
SDQC__1212H11	DCMT11T3	12	12	100	-	16
SDQC__1616H11	DCMT11T3	16	16	100	-	20
SDQC__2020K11	DCMT11T3	20	20	125	-	25
SDQC__2525M11	DCMT11T3	25	25	150	-	32

SDNCN 62.5°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SDNCN-0808H07	DCMT0702	8	8	100	-	4
SDNCN1010H07	DCMT0702	10	10	100	-	5
SDNCN1212H11	DCMT11T3	12	12	100	-	6
SDNCN1616H11	DCMT11T3	16	16	100	-	8
SDNCN2020K11	DCMT11T3	20	20	125	-	10
SDNCN2525M11	DCMT11T3	25	25	150	-	12.5

SDNCN-S 62.5°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SDNCN-2020K11S	DCMT11T3	20	20	125	-	25
SDNCN-2525M11S	DCMT11T3	25	25	150	-	32

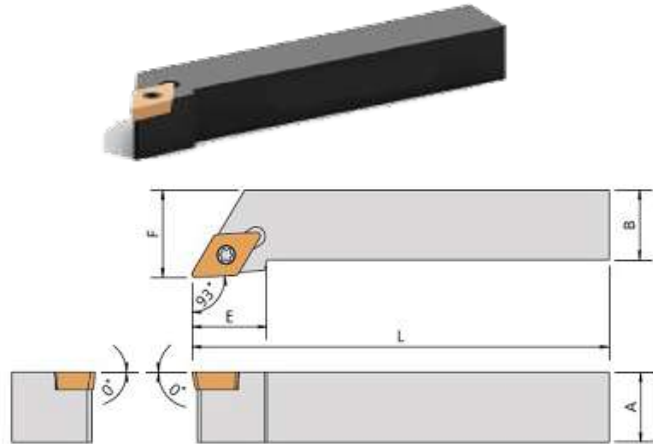
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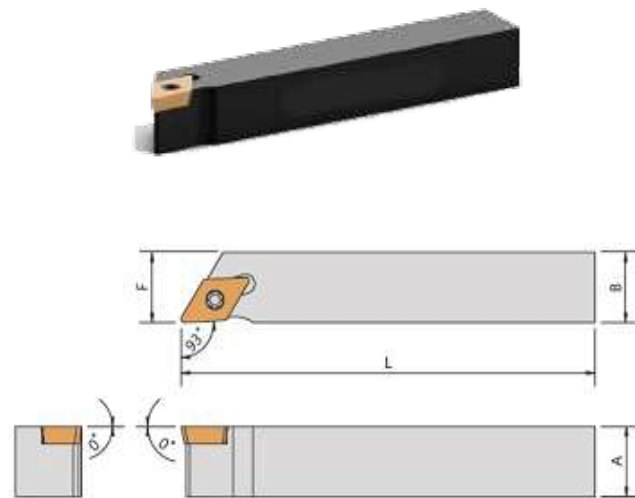
SDJC 93°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SDJC__0808H07	DCMT0702	8	8	100	12.5	10
SDJC__1010H07	DCMT0702	10	10	100	15	12
SDJC__1212H07	DCMT0702	12	12	100	16	16
SDJC__1212H11	DCMT11T3	12	12	100	16	16
SDJC__1616H11	DCMT11T3	16	16	100	18	20
SDJC__2020K11	DCMT11T3	20	20	125	23	25
SDJC__2525M11	DCMT11T3	25	25	125	27	32



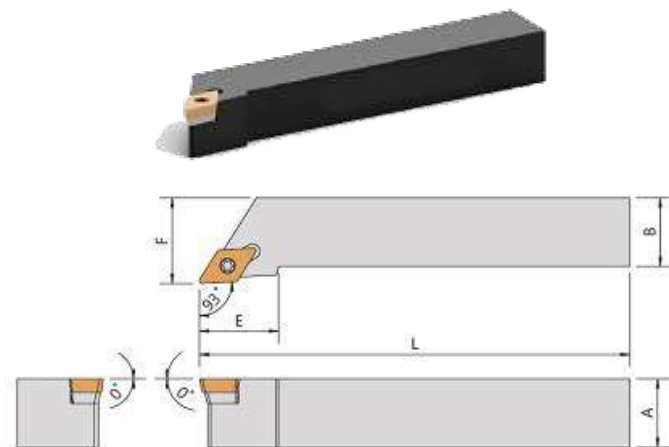
SDJC-N 93°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SDJC__0808H07N	DCMT0702	8	8	100	-	8
SDJC__1010H07N	DCMT0702	10	10	100	-	10
SDJC__1212H07N	DCMT0702	12	12	100	-	12
SDJC__0808K07N	DCMT0702	8	8	125	-	8
SDJC__1010K07N	DCMT0702	10	10	125	-	10
SDJC__1212K07N	DCMT0702	12	12	125	-	12
SDJC__1212H11N	DCMT11T3	12	12	100	-	12
SDJC__1616H11N	DCMT11T3	16	16	100	-	16
SDJC__1212K11N	DCMT11T3	12	12	125	-	12
SDJC__1616K11N	DCMT11T3	16	16	125	-	16



SDJC-S 93°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SDJC__2020K11S	DCMT11T3	20	20	125	22	25
SDJC__2525M11S	DCMT11T3	25	25	150	25	32



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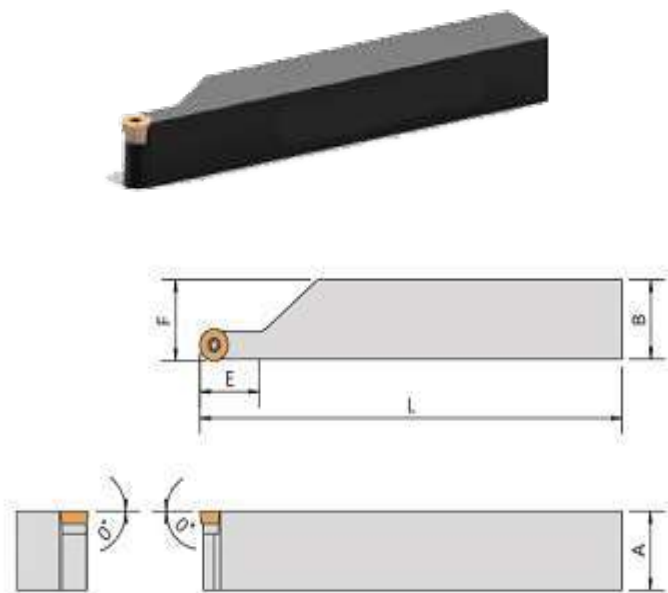
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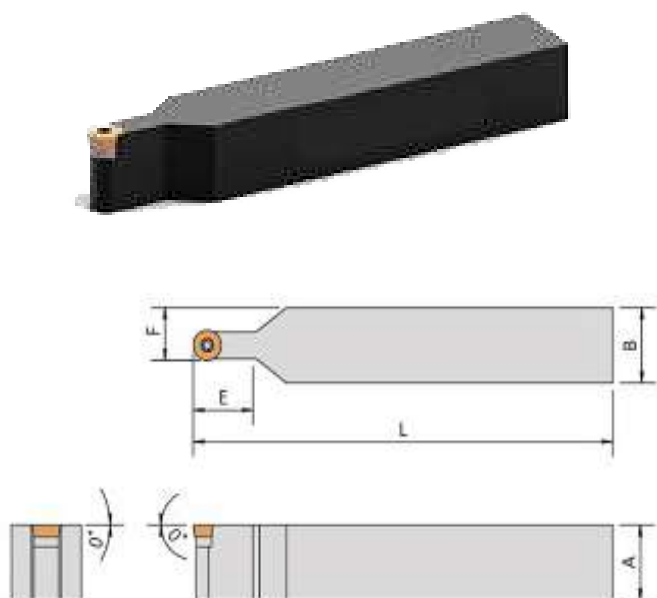
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ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SRAC__-1010H05	RCMT0502	10	10	100	10	10.3
SRAC__-1212H05	RCMT0502	12	12	100	10	12.3
SRAC__-1616H05	RCMT0502	16	16	100	10	16.3
SRAC__-2020K05	RCMT0502	20	20	125	10	20.3
SRAC__-2525M05	RCMT0502	25	25	150	10	25.3
SRAC__-1212H06	RCMT0602	12	12	100	12	12.4
SRAC__-1616H05	RCMT0602	16	16	100	12	16.4
SRAC__-2020H06	RCMT0602	20	20	125	12	20.4
SRAC__-2525K06	RCMT0602	25	25	150	12	25.4
SRAC__-1616H08	RCMT0803	16	16	100	16	16.4
SRAC__-2020K08	RCMT0803	20	20	125	16	20.4
SRAC__-2525M08	RCMT0803	25	25	150	16	25.4
SRAC__-2020K1003	RCMT1003	20	20	125	20	20.4
SRAC__-2525K1003	RCMT1003	25	25	150	20	25.4
SRAC__-2020K10	RCMT10T3	20	20	125	20	20.4
SRAC__-2525M10	RCMT10T3	25	25	150	20	25.4
SRAC__-2525M12	RCMT1204	25	25	150	20	25.4

SRDC 0°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SRDCN-0808H06	RCMT0602	8	8	100	12	7
SRDCN-1010H06	RCMT0602	10	10	100	12	8
SRDCN-1212H06	RCMT0602	12	12	100	12	9
SRDCN-1616H06	RCMT0602	16	16	100	12	11
SRDCN-1212H08	RCMT0803	12	12	100	16	9
SRDCN-1616H08	RCMT0803	16	16	100	16	12
SRDCN-2020K08	RCMT0803	20	20	125	16	14
SRDCN-2525M08	RCMT0803	25	25	150	16	16.5
SRDCN-1616H1003	RCMT1003	16	16	100	20.3	13
SRDCN-2020K1003	RCMT1003	20	20	125	20.3	15
SRDCN-2525M1003	RCMT1003	25	25	150	20.3	17.5
SRDCN1616H10	RCMT10T3	16	16	100	20.3	13
SRDCN2020K10	RCMT10T3	20	20	125	20.3	15
SRDCN2525M10	RCMT10T3	25	25	150	20.3	17.5
SRDCN2020K12	RCMT1204	20	20	125	24	16
SRDCN2525M12	RCMT1204	25	25	150	24	18.5

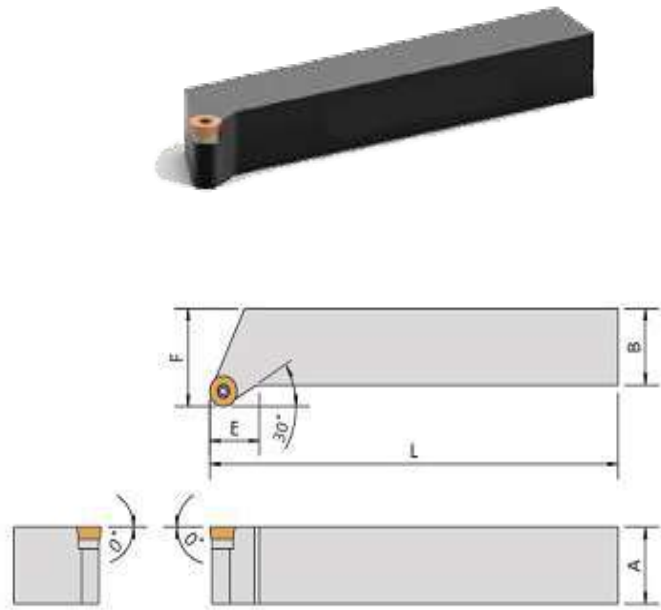
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Insert Shape

SRGC 0°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SRGC__-1212H05	RCMT0502	12	12	100	10.5	16
SRGC__-1616H05	RCMT0502	16	16	100	10.5	20
SRGC__-2020K05	RCMT0502	20	20	125	12	25
SRGC__-2525M05	RCMT0502	25	25	150	15.5	32
SRGC__-1212H06	RCMT0602	12	12	100	10.5	16
SRGC__-1616H06	RCMT0602	16	16	100	10.5	20
SRGC__-2020K06	RCMT0602	20	20	125	12.5	25
SRGC__-2525M06	RCMT0602	25	25	150	16	32
SRGC__-1616H08	RCMT0803	16	16	100	11.5	20
SRGC__-2020K08	RCMT0803	20	20	125	14	25
SRGC__-2525M08	RCMT0803	25	25	150	17	32
SRGC__-2020K1003	RCMT1003	20	20	125	15	25
SRGC__-2525M1003	RCMT1003	25	25	125	18.5	32
SRGC__-2020K10	RCMT10T3	20	20	125	15	25
SRGC__-2525M10	RCMT10T3	25	25	150	18.5	32



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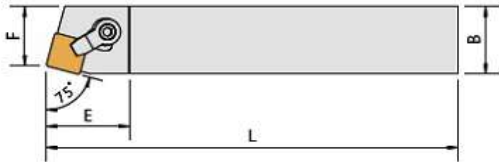
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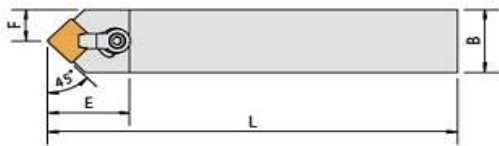
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CSBP 75°



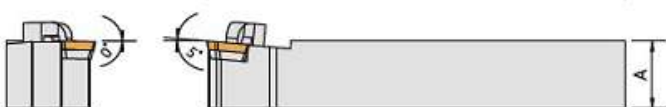
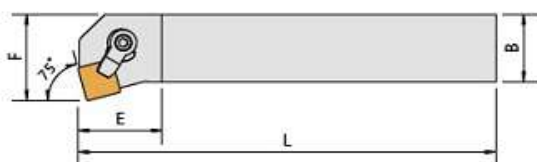
ORDER (Right /Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
CSBP__ 2020K12	SPMN1203	20	20	125	30	17
CSBP__ 2525M12	SPMN1203	25	25	150	30	22

CSDPN 45°



ORDER (Right /Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
CSDPN-2020K12	SPMN1203	20	20	125	30	10
CSDPN-2525M12	SPMN1203	25	25	150	30	12.5

CSKP 75°



ORDER (Right /Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
CSKP__ 2020K09	SPMN0903	20	20	125	26	25
CSKP__ 2020K12	SPMN1203	20	20	125	26	25
CSKP__ 2525M12	SPMN1203	20	25	150	26	25

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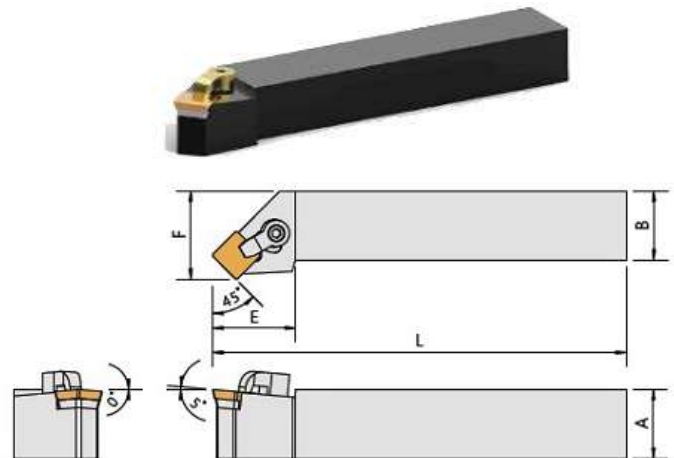
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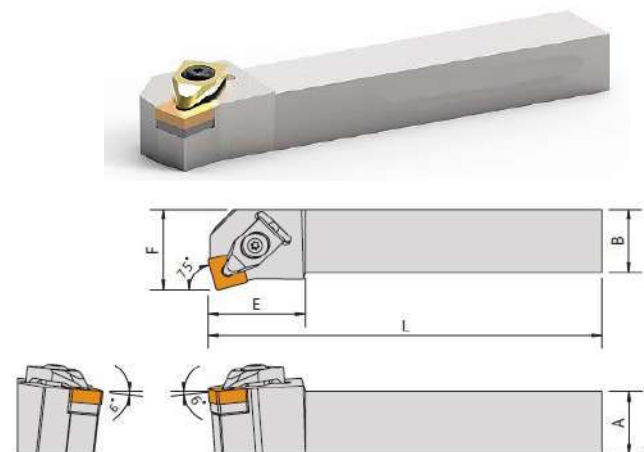
CSSP 45°

ORDER (Right /Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
CSSP__2020K12	SPMN1203	20	20	125	30	25
CSSP__2525M12	SPMN1203	25	25	150	30	32



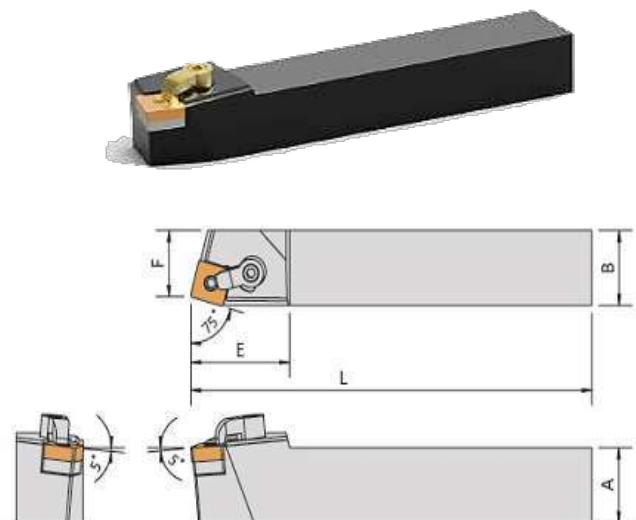
DSKN 75°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
DSKN__2020K12X	SNMG1204	20	20	125	37	25
DSKN__2525M12X	SNMG1204	25	25	150	37	32
DSKN__3232P12X	SNMG1204	32	32	170	37	40

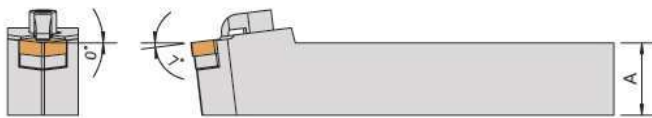
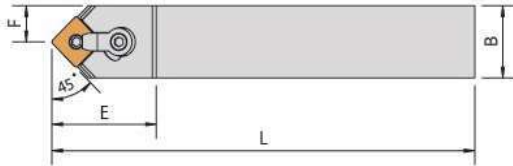


MSBN 75°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MSBN__-2020K12	SNMG1204	20	20	125	37	17
MSBN__-2525M12	SNMG1204	25	25	150	37	22
MSBN__-3225P12	SNMG1204	32	25	170	42	22
MSBN__-3232P12	SNMG1204	32	32	170	42	27
MSBN__-2020K15	SNMG1506	20	20	125	40	17
MSBN__-2525M15	SNMG1506	25	25	150	40	22
MSBN__-3225P15	SNMG1506	32	25	170	42	22
MSBN__-3232P15	SNMG1506	32	32	170	42	27
MSBN__-2525M19	SNMG1906	25	25	150	42	22
MSBN__-3225P19	SNMG1906	32	25	170	42	22
MSBN__-3232P19	SNMG1906	32	32	170	42	27
MSBN__-4040S19	SNMG1906	40	40	250	42	35

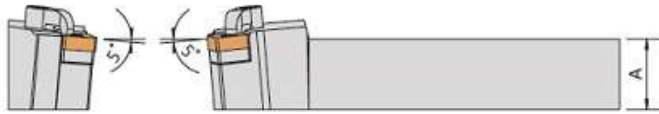
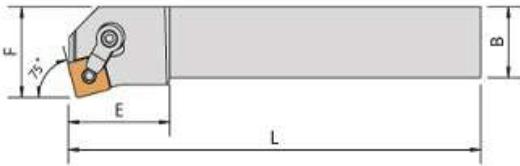


MSDNN 45°



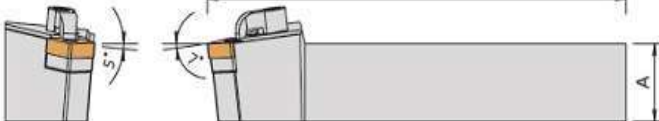
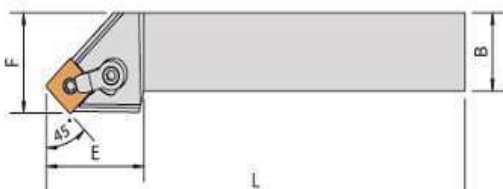
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MSDNN-2020K12	SNMG1204	20	20	125	35	10
MSDNN-2525M12	SNMG1204	25	25	150	37	12.5
MSDNN-3225P12	SNMG1204	32	25	170	42	12.5
MSDNN-3232P12	SNMG1204	32	32	170	43	16

MSKN 75°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MSKN__-2020K12	SNMG1204	20	20	125	37	25
MSKN__-2525M12	SNMG1204	25	25	150	37	32
MSKN__-3225P12	SNMG1204	32	25	170	42	32
MSKN__-3232P12	SNMG1204	32	32	170	42	40
MSKN__-2525M15	SNMG1506	25	25	150	37	32
MSKN__-3225P15	SNMG1506	32	25	170	42	32
MSKN__-3232P15	SNMG1506	32	32	170	42	40
MSKN__-4040S19	SNMG1506	40	40	250	42	50

MSNN 45°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MSSN__-2020K12	SNMG1204	20	20	125	35	25
MSSN__-2525M12	SNMG1204	25	25	150	35	32
MSSN__-3225P12	SNMG1204	32	25	170	42	32
MSSN__-3232P12	SNMG1204	32	32	170	42	40
MSSN__-2525M15	SNMG1506	25	25	150	40	32
MSSN__-3225P15	SNMG1506	32	25	170	40	40
MSSN__-3232P15	SNMG1506	32	32	170	40	40
MSSN__-3232P19	SNMG1906	32	32	170	42	40
MSSN__-4040S19	SNMG1906	40	40	250	42	40

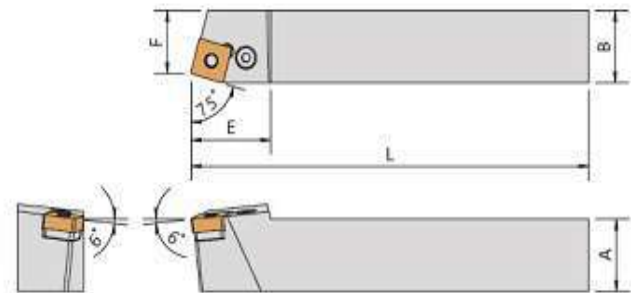
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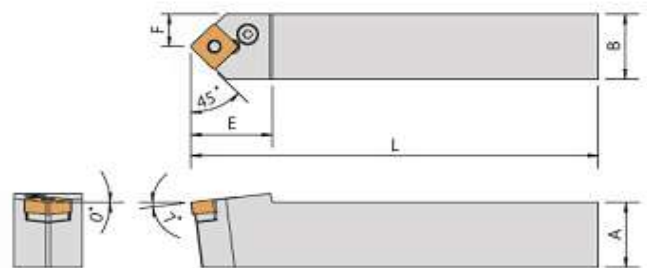
PSBN 75°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
PSBN__-2020K12	SNMG1204	20	20	125	30	17
PSBN__-2525M12	SNMG1204	25	25	150	30	22
PSBN__-3225P12	SNMG1204	32	25	170	30	22
PSBN__-3232P12	SNMG1204	32	32	170	35	29



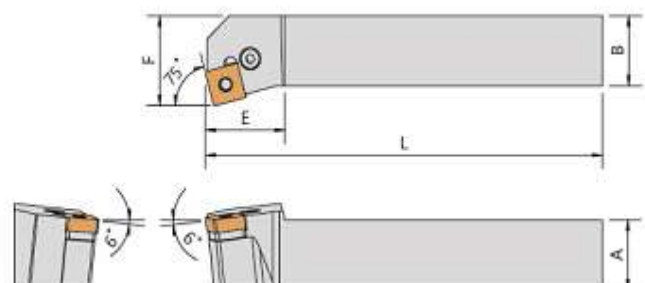
PSDNN 45°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
PSDNN-2020K12	SNMG1204	20	20	125	30	10
PSDNN-2525M12	SNMG1204	25	25	150	30	12.5
PSDNN-3225P12	SNMG1204	32	25	170	30	12.5
PSDNN-3232P12	SNMG1204	32	32	170	30	16

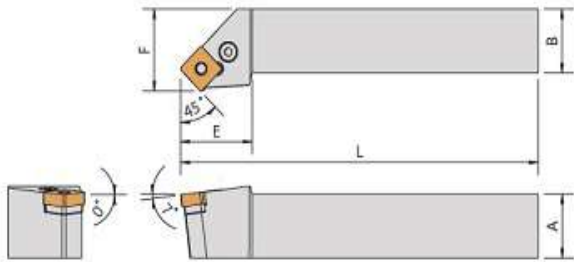


PSKN 75°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
PSKN__-2020K12	SNMG1204	20	20	125	30	25
PSKN__-2525M12	SNMG1204	25	25	150	30	32
PSKN__-3225P12	SNMG1204	32	25	170	30	32
PSKN__-3232P12	SNMG1204	32	32	170	35	40

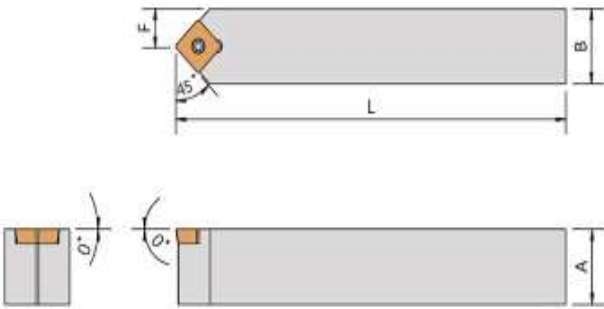
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PSSN 45°



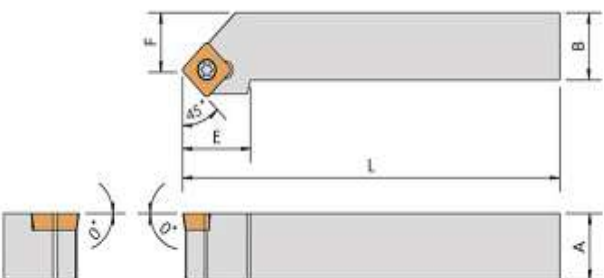
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
PSSN__-2020K12	SNMG1204	20	20	125	30	25
PSSN__-2525M12	SNMG1204	25	25	150	30	32
PSSN__-3225P12	SNMG1204	32	25	170	30	32
PSSN__-3232P12	SNMG1204	32	32	170	35	40

SSDCN 45°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SSDCN1212H09	SCMT09T3	12	12	100	-	6
SSDCN1616H09	SCMT09T3	16	16	100	-	8
SSDCN2020K09	SCMT09T3	20	20	125	-	10
SSDCN2525M09	SCMT09T3	25	25	150	-	12.5
SSDCN1616H12	SCMT1204	16	16	100	-	8
SSDCN-2020K12	SCMT1204	20	20	125	-	10
SSDCN2525M12	SCMT1204	25	25	150	-	12.5

SSSC 45°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SSSC__-1212H09	SCMT09T3	12	12	100	18	16
SSSC__-1616H09	SCMT09T3	16	16	100	18	20
SSSC__-1616H12	SCMT1204	16	16	100	25	20

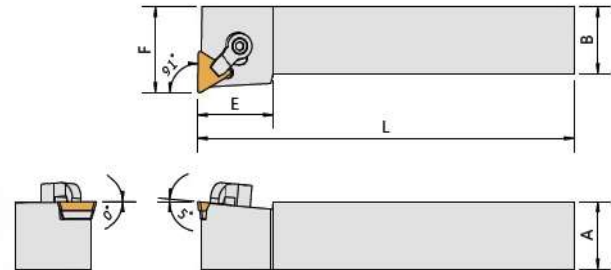


Insert Shape

CTFP 91°



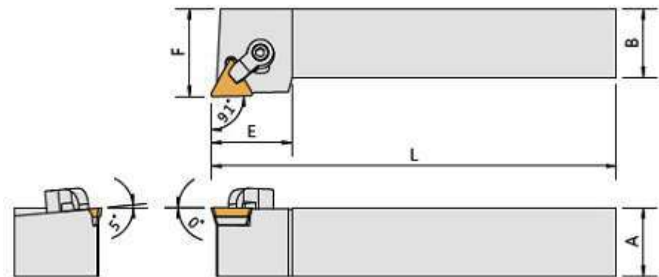
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
CTFP__-1616H11	TPMN1103	16	16	100	30	25
CTFP__-2020K16	TPMN1603	20	20	125	30	25
CTFP__-2525M16	TPMN1603	25	25	150	30	32



CTGP 91°



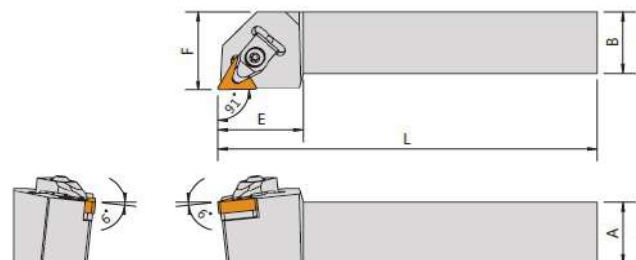
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
CTGP__1212F11	TPMN1103	12	12	80	20	16
CTGP__1616H11	TPMN1103	16	16	100	20	20
CTGP__2020K16	TPMN1603	20	20	125	30	25
CTGP__2525M16	TPMN1603	25	25	150	30	32



DTGN 91°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
DTGN__1616H16X	TNMG1604	16	16	100	33	20
DTGN__2020K16X	TNMG1604	20	20	125	33	25
DTGN__2525M16X	TNMG1604	25	25	150	33	32



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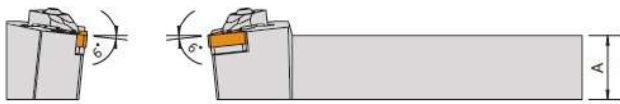
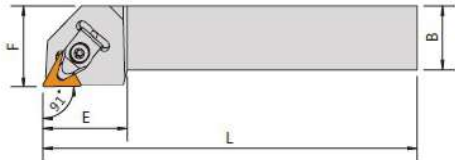
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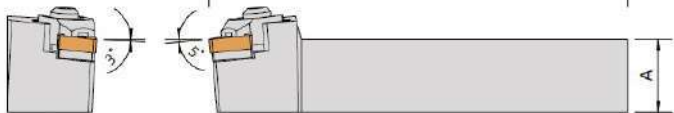
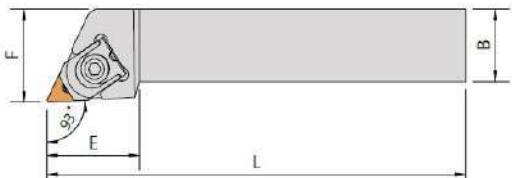
SPECIAL
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DTJN 93°



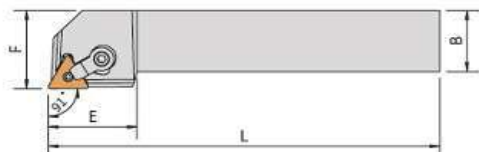
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
DTJN__1616H16X	TNMG1604	16	16	100	33	20
DTJN__2020K16X	TNMG1604	20	20	125	33	25
DTJN__2525M16X	TNMG1604	25	25	150	33	32

ETJN 93°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
ETJN__2020K16	TNMG1604	20	20	125	32	25
ETJN__2525M16	TNMG1604	25	25	150	32	32
ETJN__3232P16	TNMG1604	32	32	170	32	40
ETJN__2020-33	TNMG1604	20	20	125	32	25
ETJN__2525-33	TNMG1604	25	25	150	32	32

MTAN 90°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MTAN__2020K16	TNMG1604	20	20	125	32	20.5
MTAN__2525M16	TNMG1604	25	25	150	32	25.5

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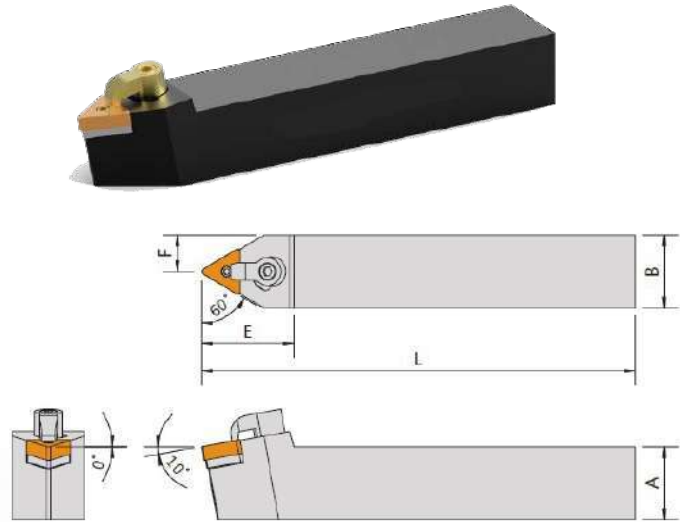
SPECIAL
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Insert Shape

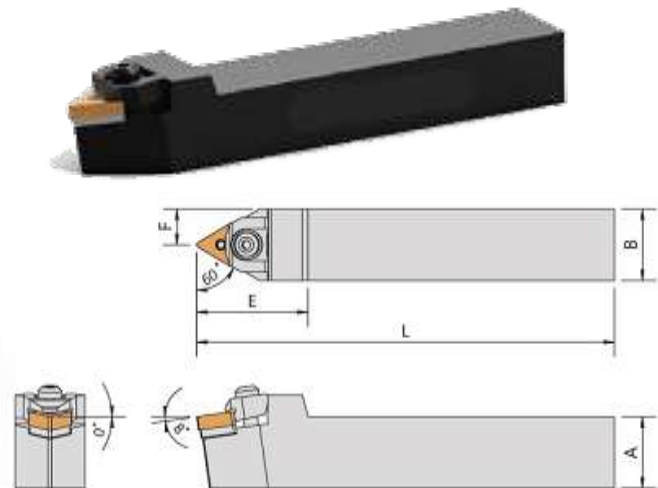
MTENN 60°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MTENN2020K16	TNMG1604	20	20	125	38	10
MTENN2525M16	TNMG1604	25	25	150	40	12.5
MTENN3225P16	TNMG1604	32	25	170	38	12.5
MTENN3232P16	TNMG1604	32	32	170	43	16
MTENN2525M22	TNMG2204	25	25	150	40	12.5
MTENN3225P22	TNMG2204	32	25	170	43	12.5
MTENN3232P22	TNMG2204	32	32	170	43	16



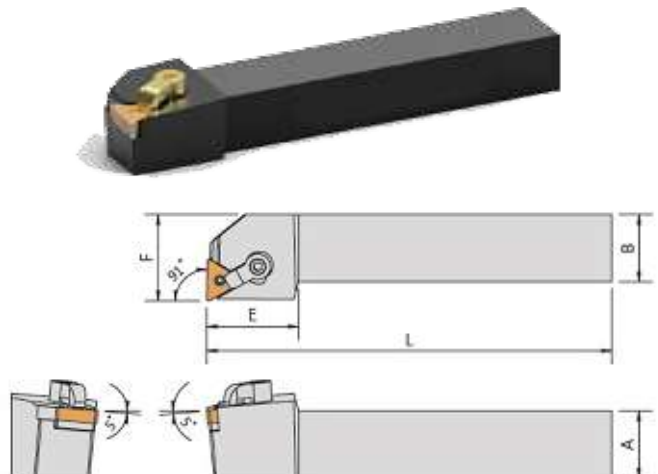
MTENN-W 60°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MTEEN-2020K16W	TNMG1604	20	20	125	32	10
MTEEN-2525M16W	TNMG1604	25	25	150	32	12.5
MTEEN-3225P16W	TNMG1604	32	25	170	32	12.5
MTEEN-3232P16W	TNMG1604	20	20	125	32	10
MTEEN-3225P22W	TNMG1604	32	25	170	32	12.5



MTFN 91°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MTFN__1616H16	TNMG1604	16	16	100	30	20
MTFN__2020K16	TNMG1604	20	20	125	34	25
MTFN__2525M16	TNMG1604	25	25	150	34	32



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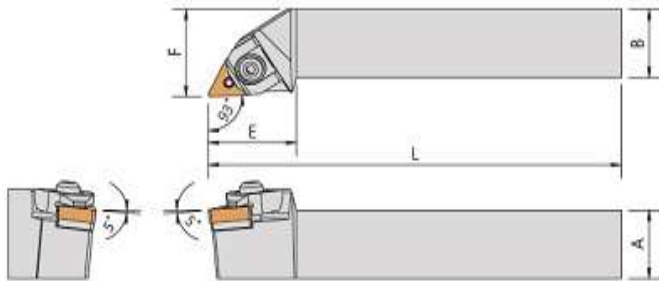
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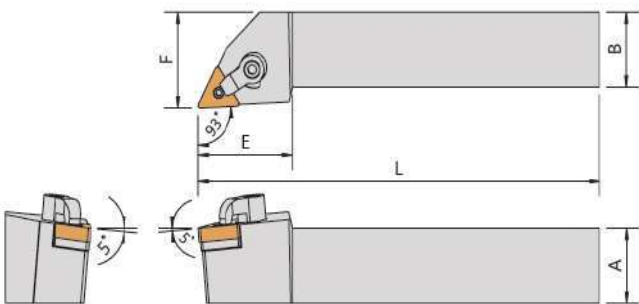
SPECIAL
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MTGN 91°



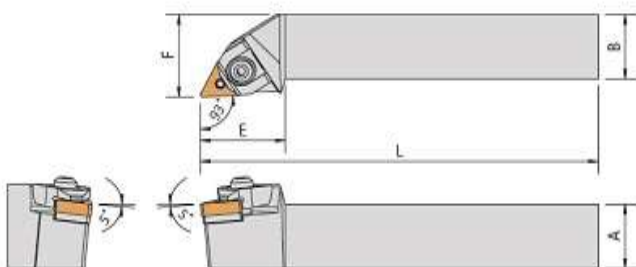
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MTGN__1616H16	TNMG1604	16	16	100	30	20
MTGN__2020K16	TNMG1604	20	20	125	34	25
MTGN__2525M16	TNMG1604	25	25	150	34	32
MTGN__3232P16	TNMG1604	32	32	170	34	40

MTJN 93°/ MTJN-N 93°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MTJN__1616H16	TNMG1604	16	16	100	30	20
MTJN__2020K16	TNMG1604	20	20	125	33	25
MTJN__2525M16	TNMG1604	25	25	150	35	32
MTJN__3225P16	TNMG1604	32	25	170	43	32
MTJN__3232P16	TNMG1604	32	32	170	43	40
MTJN__2525M22	TNMG2204	25	25	150	43	32
MTJN__3225P22	TNMG2204	32	25	170	43	32
MTJN__3232P22	TNMG2204	32	32	170	43	40
MTJN__4040S22	TNMG2204	40	40	250	43	50
MTJN__4040S27	TNMG2706	40	40	250	43	50
MTJN__1212H16N	TNMG1604	12	12	100	30	12
MTJN__1616H16N	TNMG1604	16	16	100	30	16

MTJN-W 93°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MTJN__2020K16W	TNMG1604	20	20	125	32	25
MTJN__2525M16W	TNMG1604	25	25	150	32	32
MTJN__3225P16W	TNMG1604	32	25	170	32	32
MTJN__3232P16W	TNMG1604	32	32	170	32	40
MTJN__2525M22W	TNMG2204	25	25	150	32	32
MTJN__3225P22W	TNMG2204	32	25	170	32	32
MTJN__3232P22W	TNMG2204	32	32	170	32	40

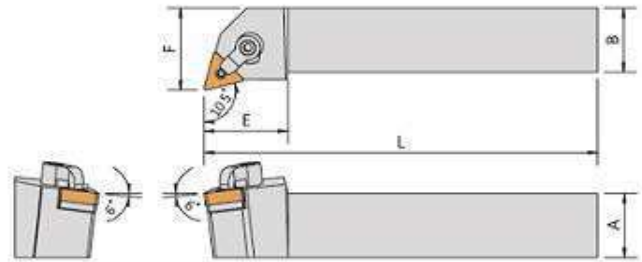


Insert Shape

MTQN 105°



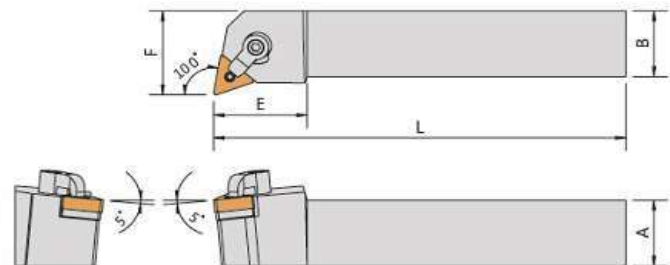
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MTQN__2020K16	TNMG1604	20	20	125	30	25
MTQN__2525M16	TNMG1604	25	25	150	30	32



MTQN-W 105°



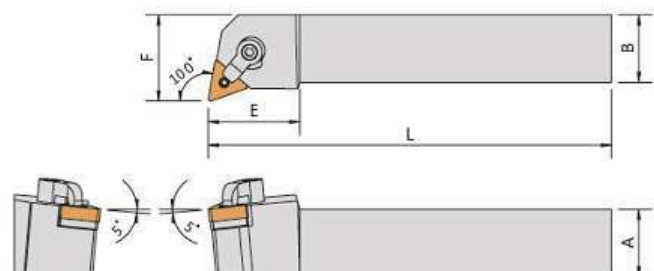
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MTQN__2020K16W	TNMG1604	20	20	125	30	25
MTQN__2525M16W	TNMG1604	25	25	150	30	32
MTQN__3232P16W	TNMG1604	32	32	170	30	40



MTXN 100°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MTXN__2020K16	TNMG1604	20	20	125	34	25
MTXN__2525M16	TNMG1604	25	25	150	34	32



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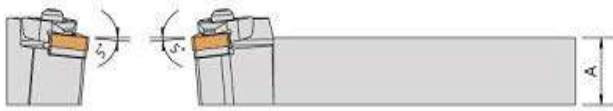
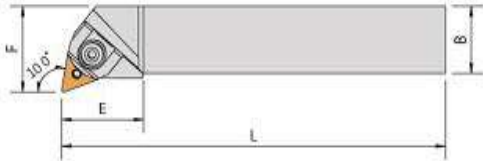
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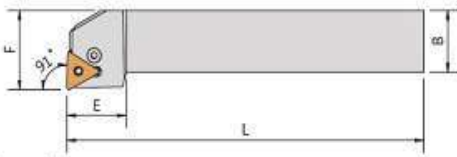
SPECIAL
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MTXN-W 100°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MTXN__2020K16W	TNMG1604	20	20	125	32	25
MTXN__2525M16W	TNMG1604	25	25	150	32	25

PTFN 91°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
PTFN__2020K16	TNMG1604	20	20	125	20	25
PTFN__2525M16	TNMG1604	25	25	150	20	32

PTGN 91°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
PTGN__2020K16	TNMG1604	20	20	125	20	25
PTGN__2525M16	TNMG1604	25	25	150	20	32

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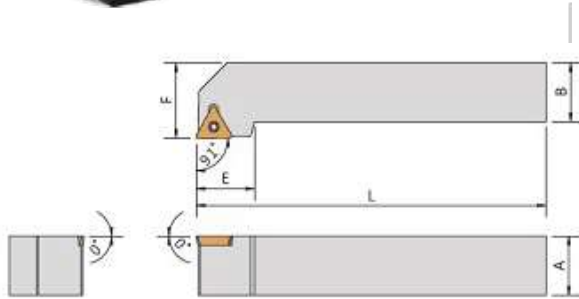
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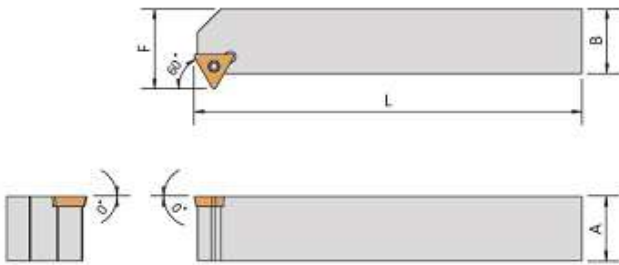
SPECIAL
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STGC 91°



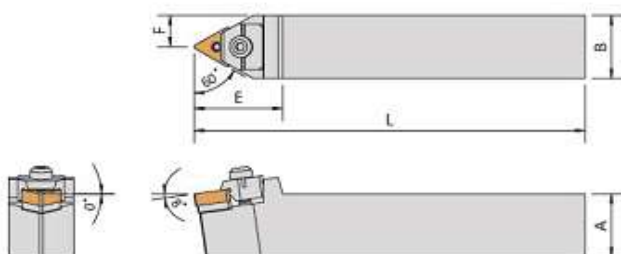
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
STGC__1212H11	TCMT1102	12	12	100	17	16
STGC__1616H11	TCMT1102	16	16	100	18	20
STGC__2020K16	TCMT16T3	20	20	125	22	25
STGC__2525M16	TCMT16T3	25	25	150	25	32

STWC 60°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
STWC__1212H11	TCMT1102	12	12	100	-	15.3
STWC__1616H11	TCMT1102	16	16	100	-	19.3
STWC__2020K11	TCMT1102	20	20	125	-	23.3
STWC__2525M11	TCMT1102	25	25	150	-	28.3
STWC__1616H16	TCMT16T3	16	16	100	-	21
STWC__2020K16	TCMT16T3	20	20	125	-	26
STWC__2525M16	TCMT16T3	25	25	150	-	31
STWC__3232P16	TCMT16T3	32	32	170	-	38

WTENN 60°



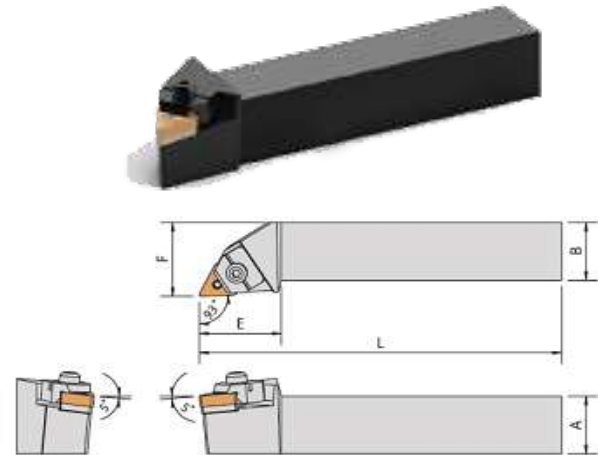
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
WTENN__2020K16	TNMG1604	20	20	125	34	10
WTENN__2525M16	TNMG1604	25	25	150	34	12.5
WTENN__3225P16	TNMG1604	32	25	170	34	12.5
WTENN__3232P16	TNMG1604	32	32	170	34	16



Insert Shape

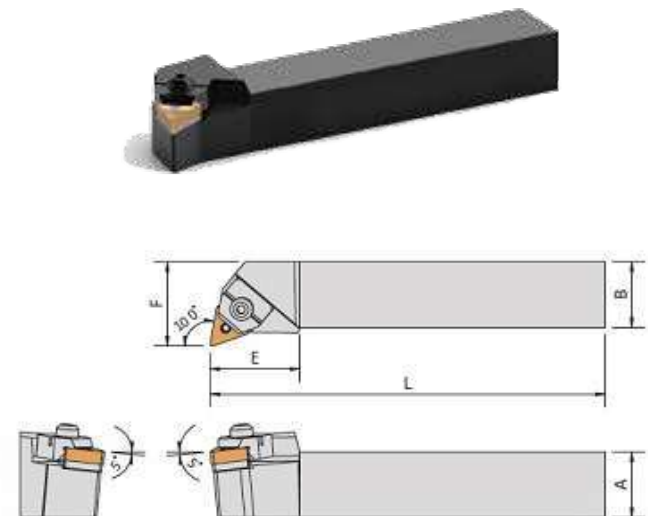
WTJN 93°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
WTJN__2020K16	TNMG1604	20	20	125	34	25
WTJN__2525M16	TNMG1604	25	25	150	34	32
WTJN__3225P16	TNMG1604	32	25	170	34	32
WTJN__3232P16	TNMG1604	32	32	170	34	40



WTXN 100°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
WTXN__2020K16	TNMG1604	20	20	125	33	25
WTXN__2525M16	TNMG1604	25	25	150	32	32



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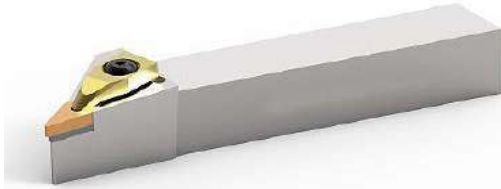
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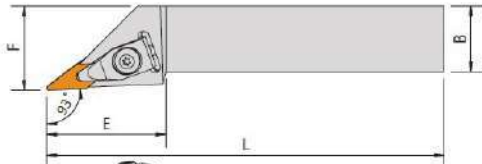
SPECIAL
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DVJN 93°

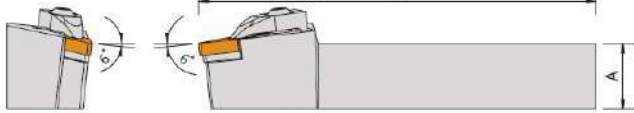
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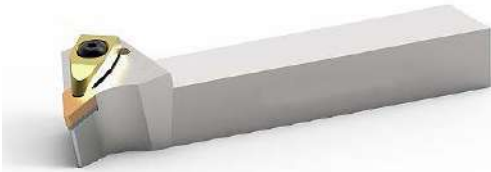
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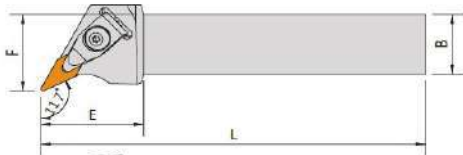
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
DVJN__2020K16X	VNMG1604	20	20	125	50	25
DVJN__2525M16X	VNMG1604	25	25	150	46	32

DVPN 117°

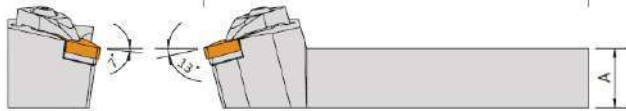
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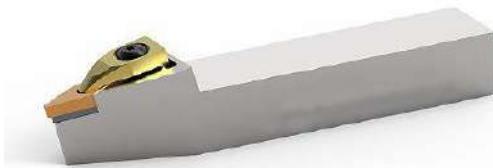
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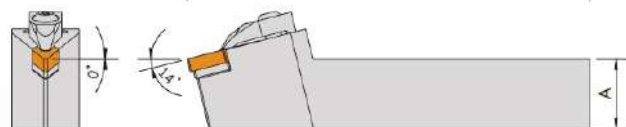
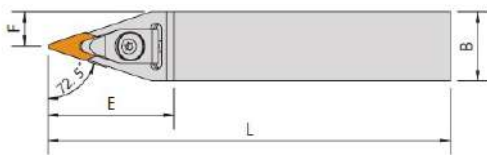
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
DVPN__2020K16X	VNMG1604	20	20	125	43	25
DVPN__2525M16X	VNMG1604	25	25	150	43	32

DVVNN 72.5°

W
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SPECIAL
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ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
DVVNN2020K16X	VNMG1604	20	20	125	47	10
DVVNN2525M16C	VNMG1604	25	25	150	47	12.5

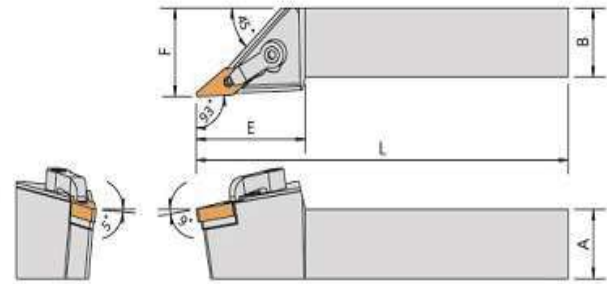


Insert Shape

MVJN 93°



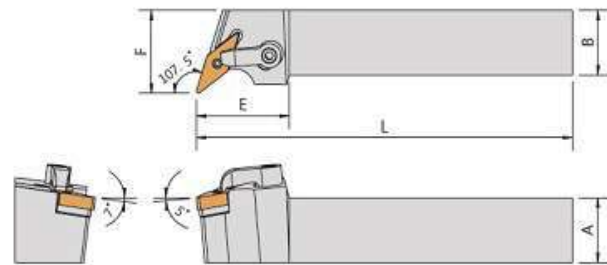
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MVJN__2020K16	VNMG1604	20	20	125	39	25
MVJN__2525M16	VNMG1604	25	25	150	44	32
MVJN__3225P16	VNMG1604	32	25	170	44	32
MVJN__3232P16	VNMG1604	32	32	170	45	40



MVPN 117.5°



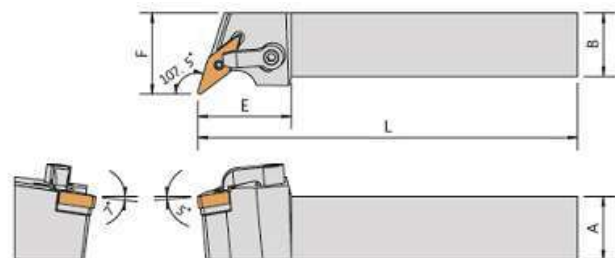
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MVPN__2020K16	VNMG1604	20	20	125	37	25
MVPN__2525M16	VNMG1604	25	25	150	37	32
MVPN__3225P16	VNMG1604	32	25	170	42	32
MVPN__3232P16	VNMG1604	32	32	170	42	40



MVQN 107.5



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MVQN__2020K16	VNMG1604	20	20	125	36	32
MVQN__2525M16	VNMG1604	25	25	150	36	32
MVQN__3225P16	VNMG1604	32	25	170	36	32
MVQN__3232P16	VNMG1604	32	32	170	36	40



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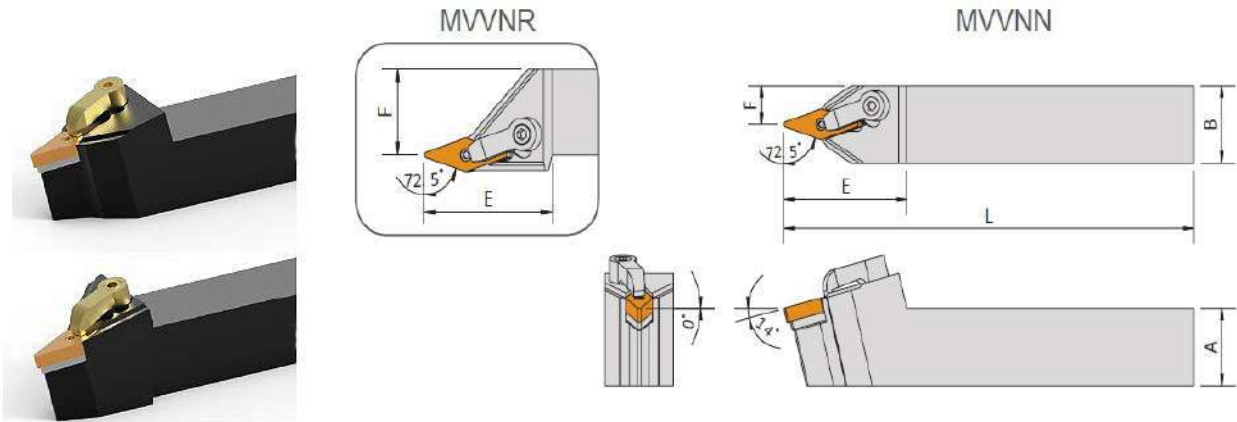
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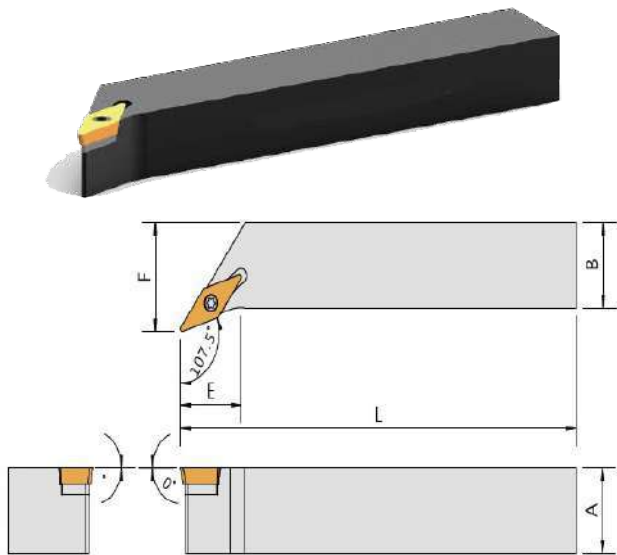
SPECIAL
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MVVNN 72.5°/ MVVN 72.5°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MVVNN-2020K16	VNMG1604	20	20	125	45	10
MVVNN-2525M16	VNMG1604	25	25	150	45	12.5
MVVNN-3225P16	VNMG1604	32	25	170	45	12.5
MVVNN-3232P16	VNMG1604	32	32	170	45	16
MVVN__2020K16	VNMG1604	20	20	125	42	20
MVVN__2525M16	VNMG1604	25	25	150	42	25

SVHB 107°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SVHB__1212F11	VCMT1103	12	12	80	13	16
SVHB__1616H11	VCMT1103	16	16	100	13	20
SVHB__2020K11	VCMT1103	20	20	125	16.5	25
SVHB__2020K16	VCMT1604	20	20	125	17	25
SVHB__2525M16	VCMT1604	25	25	150	23	32
SVHB__3232P16	VCMT1604	32	32	170	26.5	40

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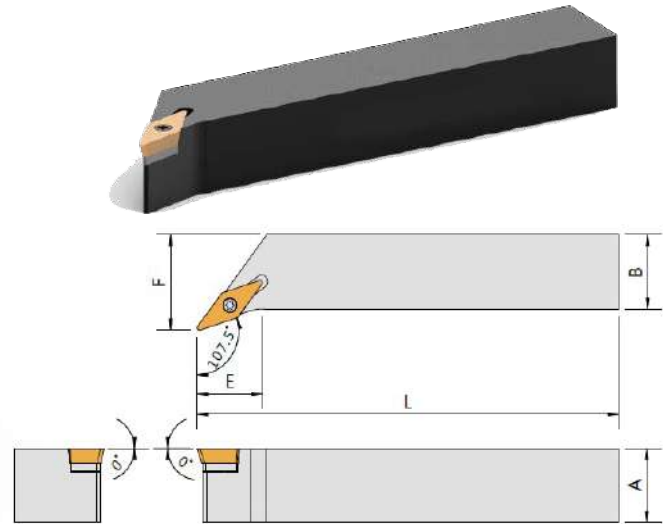
SPECIAL
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Insert Shape

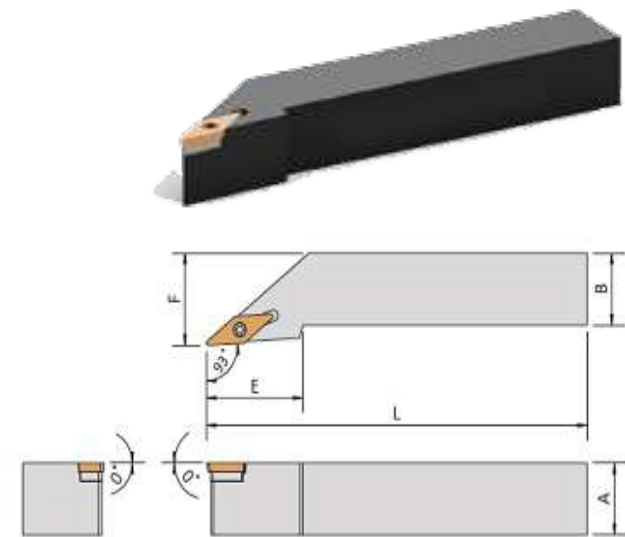
SVHC 107°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SVHC__1212F11	VCMT1103	12	12	80	13	16
SVHC__1616H11	VCMT1103	16	16	100	13	20
SVHC__2020K11	VCMT1103	20	20	125	16.5	25
SVHC__2020K16	VCMT1604	20	20	125	17	25
SVHC__2525M16	VCMT1604	25	25	150	23	32
SVHC__3232P16	VCMT1604	32	32	170	26.5	40



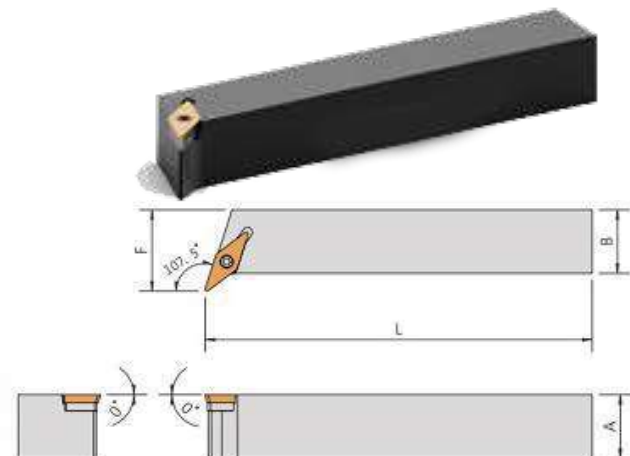
SVJB 93°/ SVJB-N 93°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SVJB__2020K11	VBMT1103	20	20	125	22	25
SVJB__2020K16	VBMT1604	20	20	125	33	25
SVJB__2525M16	VBMT1604	25	25	150	38	32
SVJB__1212H11N	VBMT1103	12	12	100	--	12
SVJB__1616H11N	VBMT1103	16	16	100	--	16
SVJB__1212K11N	VBMT1103	12	12	125	--	12
SVJB__1616K11N	VBMT1103	16	16	125	--	16
SVJB__1616H16N	VBMT1604	16	16	100	--	16



SVQC 107.5°

ORDER (Right/Left)	Insert	Dimensions (mm)			
		A	B	L	F
SVQC__2020K16	VCMT1604	20	20	125	25
SVQC__2525M16	VCMT1604	25	25	150	32



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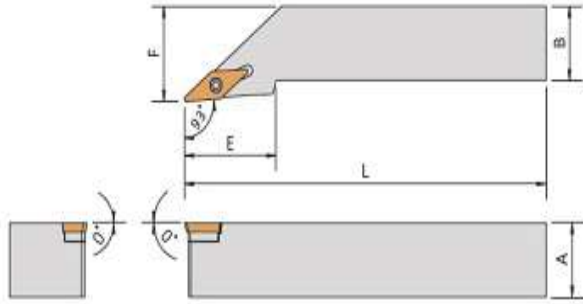
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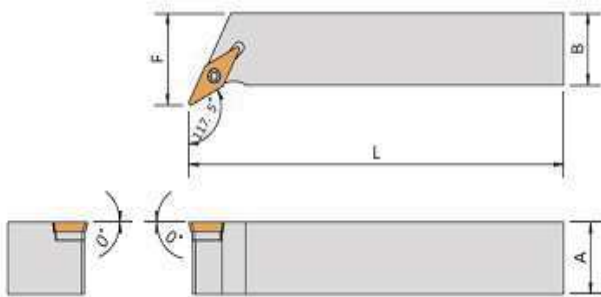
SPECIAL
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SVJC 93°/ SVJC-N 93°



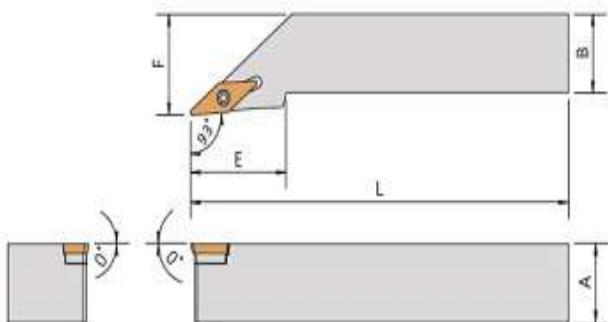
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SVJC__2020K11	VCMT1103	20	20	125	22	25
SVJC__2525M11	VCMT1103	25	25	150	25	32
SVJC__2020K16	VCMT1604	20	20	125	33	25
SVJC__2525M16	VCMT1604	25	25	150	38	32
SVJC__1010H11N	VCMT1103	10	10	100	--	10
SVJC__1212H11N	VCMT1103	12	12	100	--	12
SVJC__1616H11N	VCMT1103	16	16	100	--	16
SVJC__1010K11N	VCMT1103	10	10	125	--	10
SVJC__1212K11N	VCMT1103	12	12	125	--	12
SVJC__1616K11N	VCMT1103	16	16	125	--	16
SVJC__1616H16N	VCMT1604	16	16	100	--	16

SVPC 117.5°



ORDER (Right/Left)	Insert	Dimensions (mm)			
		A	B	L	F
SVPC__1010H11	VCMT1103	10	10	100	14.5
SVPC__1212H11	VCMT1103	12	12	100	16.5
SVPC__1616H11	VCMT1103	16	16	100	20.5
SVPC__2020K16	VCMT1604	20	20	125	25
SVPC__2525M16	VCMT1604	25	25	150	32

SVUC 93°



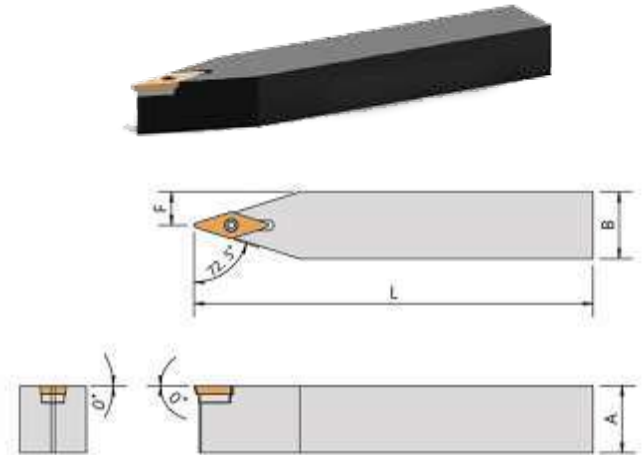
ORDER (Right/Left)	Insert	Dimensions (mm)			
		A	B	L	F
SVUC__2020K16	VCMT1604	20	20	125	30
SVUC__2525M16	VCMT1604	25	25	150	35



Insert Shape

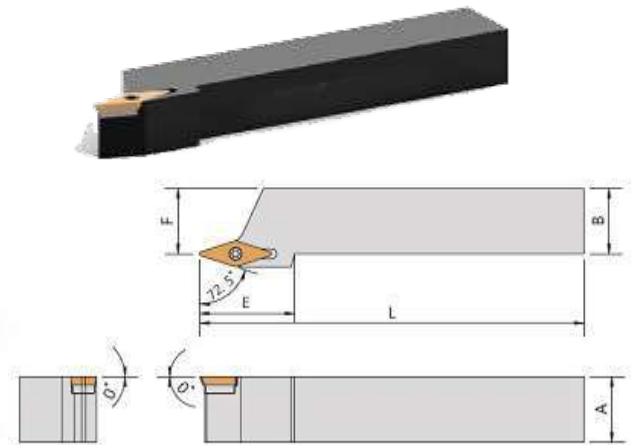
SVVBN 72.5°

ORDER (Right/Left)	Insert	Dimensions (mm)			
		A	B	L	F
SVVBN-2020K11	VBMT1103	20	20	125	10
SVVBN-2525M11	VBMT1103	25	25	150	12.5
SVVBN-2020K16	VBMT1604	20	20	125	10
SVVBN-2525M16	VBMT1604	25	25	150	12.5



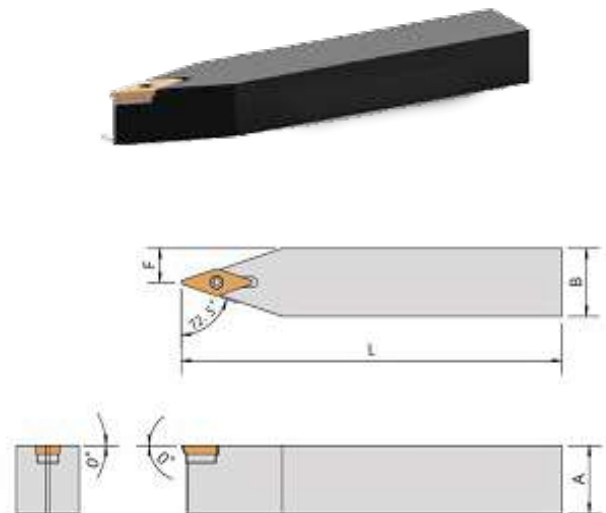
SVVC 72.5°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SVVC__2020K16	VCMT1604	20	20	125	37	20
SVVC__2525M16	VCMT1604	25	25	150	37	25



SVVCN 72.5°

ORDER (Right/Left)	Insert	Dimensions (mm)			
		A	B	L	F
SVVCN-0808H11	VCMT1103	8	8	100	4
SVVCN-1010H11	VCMT1103	10	10	100	5
SVVCN-1212H11	VCMT1103	12	12	100	6
SVVCN-1616H11	VCMT1103	16	16	100	8
SVVCN-2020K16	VCMT1604	20	20	125	10
SVVCN-2525M16	VCMT1604	25	25	150	12.5



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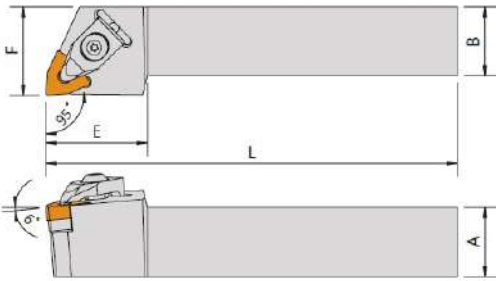
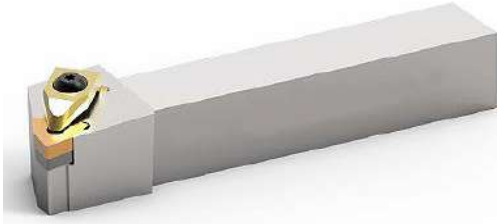
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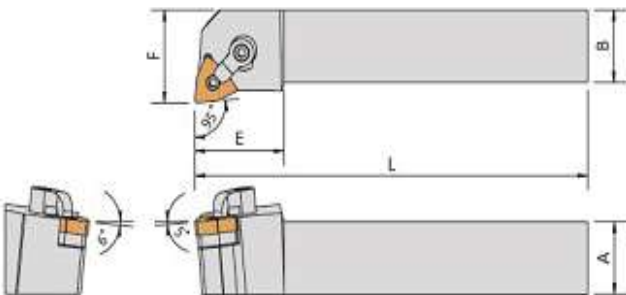
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DWLN 95°



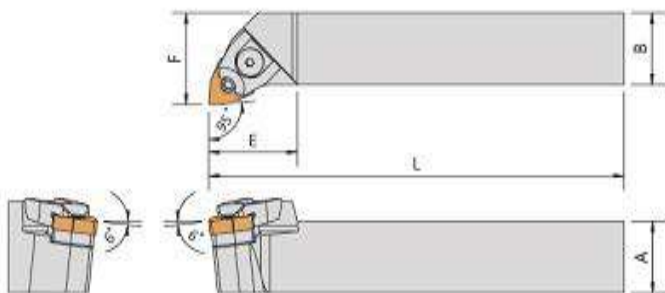
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
DWLN__1616H06X	WNMG0604	16	16	100	33	20
DWLN__2020K06X	WNMG0604	20	20	125	33	25
DWLN__2525M06X	WNMG0604	25	25	150	33	32
DWLN__2020K08X	WNMG0804	20	20	125	40	25
DWLN__2525M08X	WNMG0804	25	25	150	40	32
DWLN__3232P08X	WNMG0804	32	32	170	40	32

MWLN 95°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MWLN__-2020K06	WNMG0604	20	20	125	34	25
MWLN__-2525M06	WNMG0604	25	25	150	34	32
MWLN__-2020K08	WNMG0804	20	20	125	34	25
MWLN__-2525M08	WNMG0804	25	25	150	34	32
MWLN__-3225P08	WNMG0804	32	25	170	40	32
MWLN__-3232P08	WNMG0804	32	32	170	40	40

MWLN-W 95°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
MWLN__-2020K08	WNMG0804	20	20	125	32	25
MWLN__-2525M08W	WNMG0804	25	25	150	32	32
MWLN__-3225P08W	WNMG0804	32	25	170	32	32
MWLN__-3232P08W	WNMG0804	32	32	170	32	40

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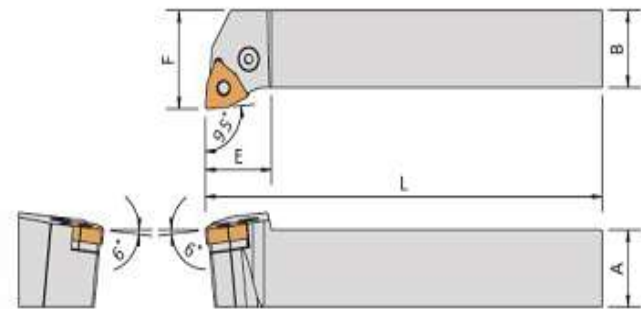
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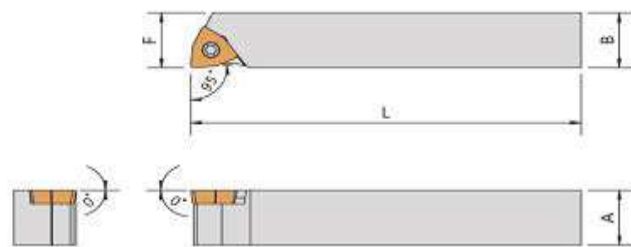
PWLN 95°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
PWLN__-1616H06	WNMG0604	16	16	100	20	20
PWLN__-2020K06	WNMG0604	20	20	125	20	25
PWLN__-2525M06	WNMG0604	25	25	150	23	32
PWLN__-2020K08	WNMG0804	20	20	125	20	25
PWLN__-2525M08	WNMG0804	25	25	150	26	32
PWLN__-3225P08	WNMG0804	32	25	170	26	32
PWLN__-3232P08	WNMG0804	32	32	170	30	40



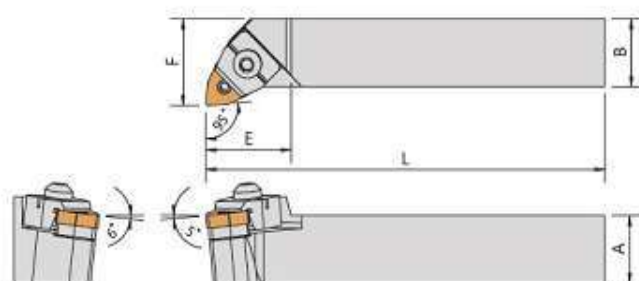
SWLC-N 95°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
SWLC__-1212H06N	WCMT06T3	12	12	100	-	12
SWLC__-1616H06N	WCMT06T3	16	16	100	-	16



WWLN 95°

ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
WWLN__-2020K08	WNMG0804	20	20	125	32	25
WWLN__-2525M08	WNMG0804	25	25	150	32	32
WWLN__-3225P08	WNMG0804	32	25	170	32	32
WWLN__-3232P08	WNMG0804	32	32	170	32	40



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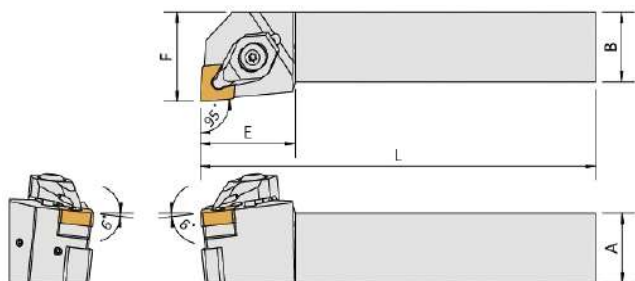
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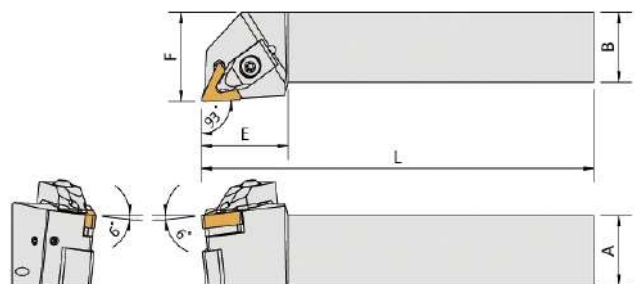
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ADCLN 95°



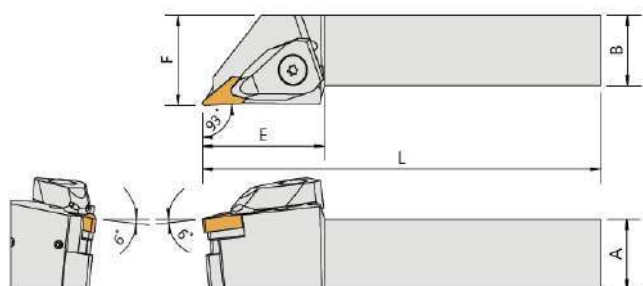
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
ADCLNR-2020K12WP	CNMG1204	20	20	125	40	25
ADCLNR-2525M12WP	CNMG1204	25	25	150	36	32

ADTJN 93°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
ADTJNR-2020K16WP	TNMG1604	20	20	125	33	25
ADTJNR-2525K16WP	TNMG1604	25	25	150	33	32

ADVJN 93°



ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
ADVJNR-2020K16WP	VNMG1604	20	20	125	50	25
ADVJNR-2525M16WP	VNMG1604	25	25	150	45	32

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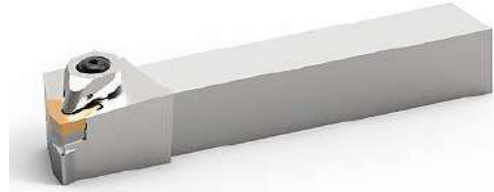
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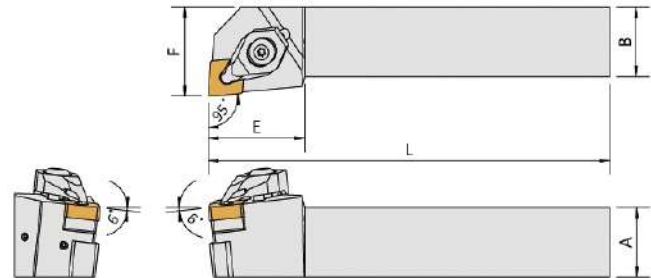
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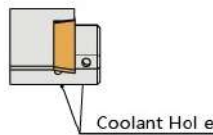
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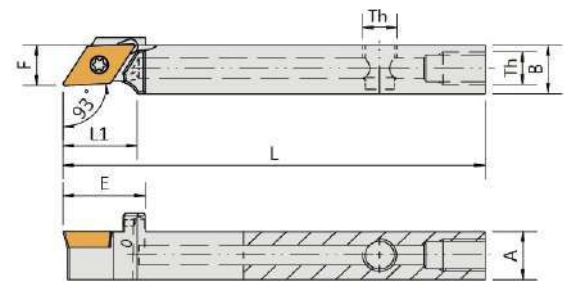
ORDER (Right/Left)	Insert	Dimensions (mm)				
		A	B	L	E	F
ADWLN-2020K08WP	WNMG0804	20	20	125	40	25
ADWLN-2525M08WP	WNMG0804	25	25	150	40	32



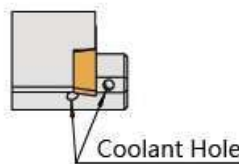
ASDJC 93°



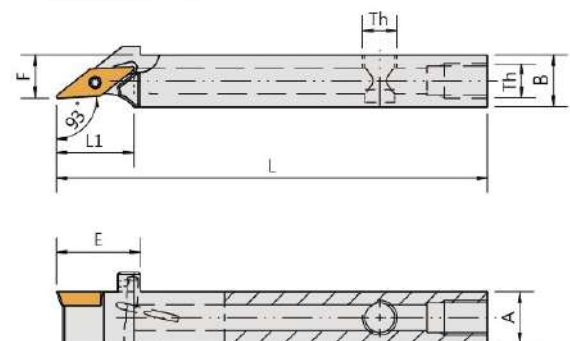
ORDER (Right/Left)	Insert	Dimensions (mm)						
		A	B	L	L1	E	F	Th
ASDJC_-1212H11F10	DCMT11T3	12	12	100	19	19.5	10	5/16"
ASDJC_-1616H11F14	DCMT11T3	16	16	100	19	19.5	14	5/16"



ASVJC 93°



ORDER (Right/Left)	Insert	Dimensions (mm)						
		A	B	L	L1	E	F	Th
ASVJC_-1212H11F10	VCMT1103	12	12	100	18	19.5	10	5/16"
ASVJC_-1616H11F14	VCMT1103	16	16	100	18	19.5	14	5/16"





TEN SOON

Users' Experience is our Priority

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