

YL CUTTING TOOLS

GENERAL CATALOG

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Precision Tools. Superior Performance.



HIGH
PRECISION



RELIABLE
QUALITY



MAXIMUM
PERFORMANCE



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TOOLS DESIGNATION:INTERNAL TURNING

S	2	0	R	S	C	L	C	R	0	9	*
6	8	9	10	1	2	3	4	5	11	12	13

6 刀柄 SHANK

B = 抗震鋼柄 Steel shank + device anti-vibration

C = 錫鋼柄 Cemented carbide shank with steel head

D = 抗震鋼柄 + 中心水孔 Steel shank + device anti-vibration + coolant hole

E = 錫鋼柄 + 中心水孔 Cemented carbide shank with steel head + coolant hole

F = 抗震錫鋼柄 Cemented carbide shank with steel head + device anti-vibration

G = 抗震錫鋼柄 + 中心水孔 Cemented carbide with steel head + device anti-vibration + coolant hole

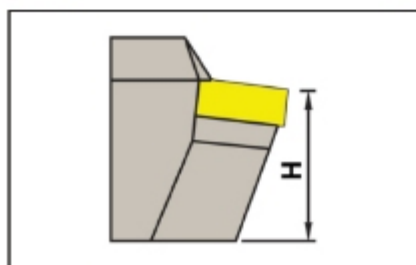
H = 重金屬 Heavy metal shank

J = 重金屬 + 中心水孔 Heavy metal shank + coolant hole

卡式刀座指定系統 CARTRIDGES DESIGNATION

S	T	F	C	R	1	0	C	A	1	1
1	2	3	4	5	6	7	8	9	11	12

6/7 SHANK HEIGHT



8 TYPE OF TOOL

C=CARTRIDGE

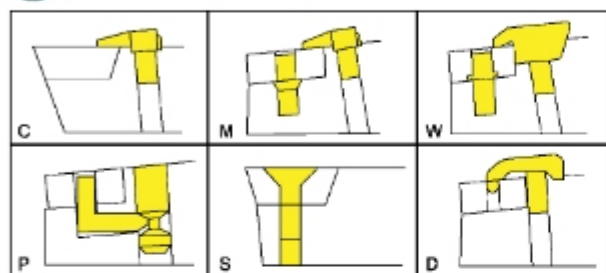
9 EXECUTION

A=ISO 5611

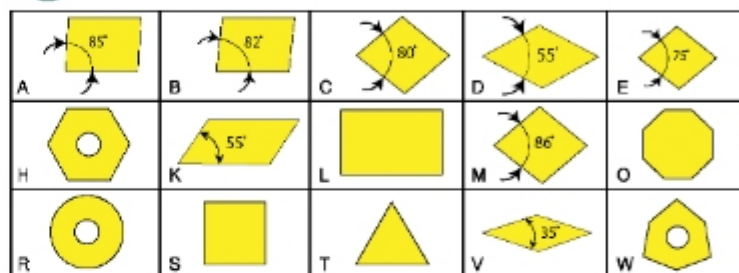
TOOLS DESIGNATION:INTERNAL TURNING

M	C	L	N	R	2	5	2	5	M	1	2	*
1	2	3	4	5	6	7	8	9	10	11	12	13

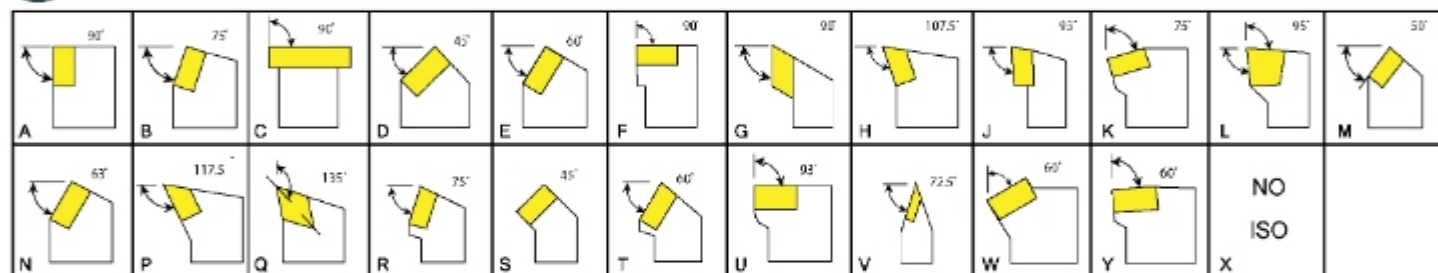
1 刀片挾持方式 TYPE OF LOCKING



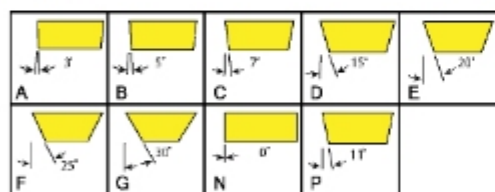
2 刀片形狀 INSERT SHAPE



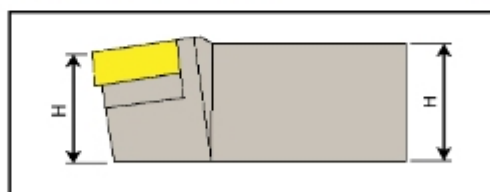
3 切入角 TYPE OF TOOL



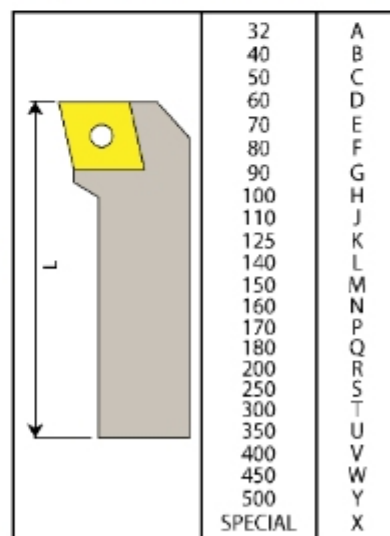
4 刀片逃隙角 RAKE ANGLES



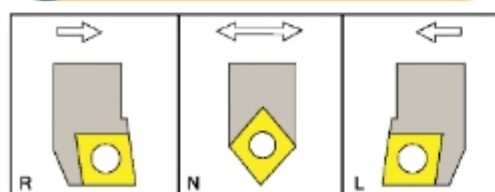
6/7 刀柄高度 SHANK HEIGHT



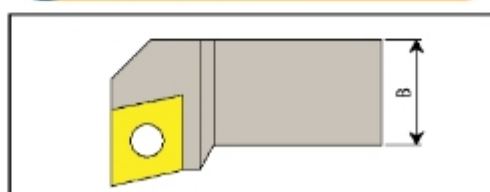
10 刀柄長度 TOOL LENGTH



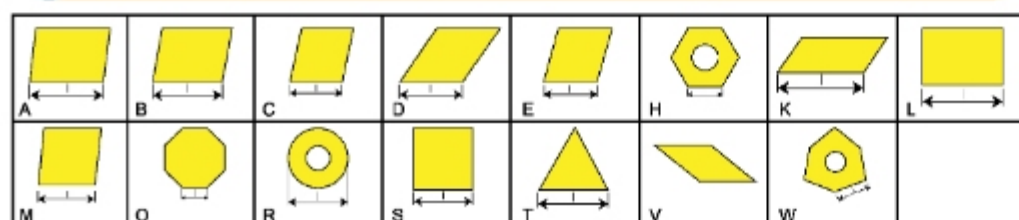
5 方向 HAND OF TOOL



8/9 刀柄寬度 SHANK WIDTH



11/12 切刃長 CUTTING EDGE LENGTH



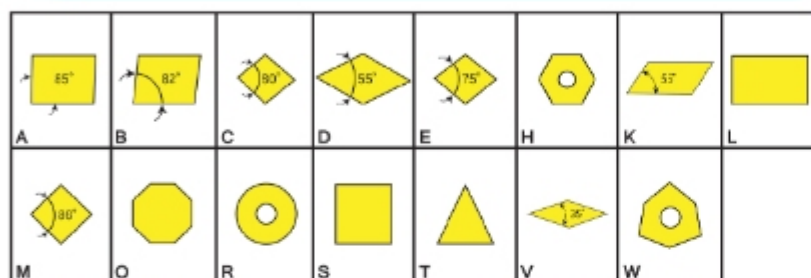
13 特殊註記 OPTIONAL CODE

INSERTS R-L

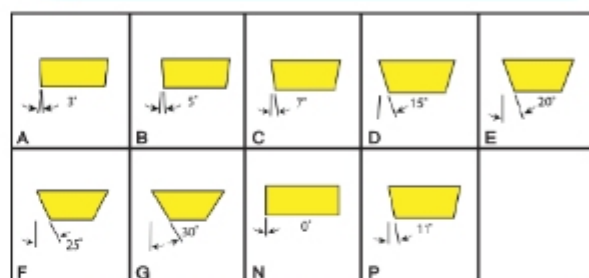
ISO DESIGNATION FOR INSERTS

C	N	M	G	12	04	08	(E)	(N)	(MR)
1	2	3	4	5	6	7	8	9	10

1 刀片形状 INSERT SHAPE



2 刀片逃角 CLEARANCE ANGLE



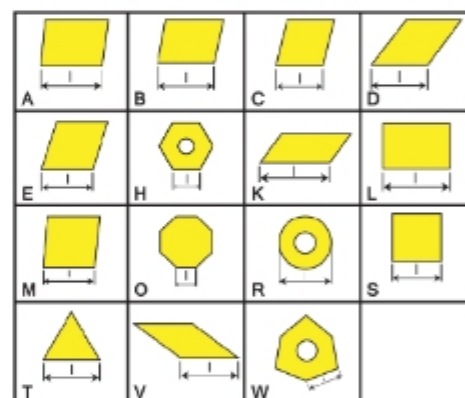
3 刀片公差 TOLERANCES CLASS

Tolerance			
	d±	m±	s±
A	0.025	0.005	0.025
C	0.025	0.013	0.025
E	0.025	0.025	0.025
F	0.013	0.005	0.025
G	0.025	0.025	0.05-0.13
H	0.013	0.013	0.025
J	0.05-0.15	0.005	0.025
K	0.05-0.15	0.013	0.025
L	0.05-0.15	0.025	0.025
M	0.05-0.15	0.08-0.2	0.05-0.13
N	0.05-0.15	0.08-0.2	0.025
U	0.08-0.25	0.13-0.38	0.13

4 刀片沟孔 INSERT FEATURES

A		
C		
F		
G		
H		
J		
M		
N		
Q		
R		
T		
U		
W		
X	Special shape	

5 刀片边长 EDGE LENGTH



8 刀口角度 CUTTING EDGE

E	F	T	S
Rounded	Sharp	Chamfered	Chamfered and rounded

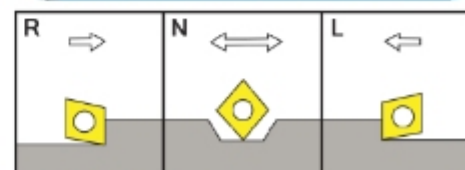
6 刀片厚度 TIP THICKNESS

Index	01	T1	02	03	T3	04	05	06	07	09
S(mm)	1.59	1.98	2.38	3.18	3.97	4.76	5.56	6.35	7.64	9.52

7 刀尖R角 CORNER RADIUS

Index	02	04	08	12	16	24	00
S(mm)	0.2	0.4	0.8	1.2	1.6	2.4	0

9 刃口方向 CUTTING DIRECTION



10 排屑槽 Manufacture's type designation

Chip breaker design

-MG -M -MR -D -DK



YL CUTTING TOOLS

INSERTS

Insert grade and chip breaker



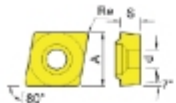
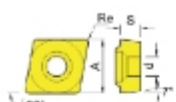
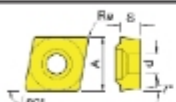
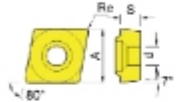
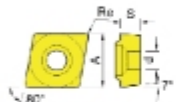
Insert Code 11,16..IR&ER..

Insert Shape	Description	Dimension (mm)				Working Material				
		A	S	d1	r	P	M	K	N	H
	11IR A55 DT9030G	11	0.8	0.9	0.05	●	●	●	●	●
	11IR A60 DT9030G	11	0.8	0.9	0.05	●	●	●	●	●
	16IR AG55 DT9030G	16	1.2	1.7	0.05	●	●	●	●	●
	16IR AG60 DT9030G	16	1.2	1.7	0.05	●	●	●	●	●
	16ER AG55 DT9030G	16	1.2	1.7	0.05	●	●	●	●	●
	16ER AG60 DT9030G	16	1.2	1.7	0.05	●	●	●	●	●
	16IR AG55 DT8090	16	1.2	1.7	0.05	●	●	●	●	●
	16IR AG60 DT8090	16	1.2	1.7	0.05	●	●	●	●	●
	16ER N55 DT8090	16	1.2	1.7	0.05	●	●	●	●	●
	16ER N60 DT8090	16	1.2	1.7	0.05	●	●	●	●	●
	22ER N55 DT9030G	22	1.2	1.7	0.05	●	●	●	●	●
	22ER N60 DT9030G	22	1.2	1.7	0.05	●	●	●	●	●
	22IR N55 DT9030G	22	1.2	1.7	0.05	●	●	●	●	●
	22IR N60 DT9030G	22	1.2	1.7	0.05	●	●	●	●	●
	22IR N55 DT8090	22	1.2	1.7	0.05	●	●	●	●	●
	22IR N60 DT8090	22	1.2	1.7	0.05	●	●	●	●	●
	22ER N55 DT8090	22	1.2	1.7	0.05	●	●	●	●	●
	22ER N60 DT8090	22	1.2	1.7	0.05	●	●	●	●	●

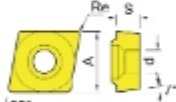
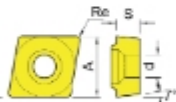
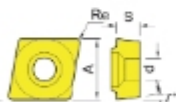
Insert Code AP..1135..

Insert Shape	Description	Dimension (mm)				Working Material				
		A	S	d1	r	P	M	K	N	H
	APMT1135PDER-M2 DT9030G	6.35	3.5	11	0.8	●	●	●	●	●
	APMT1604PDER-M2 DT9030G	9.525	4.76	16.5	1.6	●	●	●	●	●
	APGT1135PDER-G2 DA01	6.35	3.5	11	0.8	●	●	●	●	●
	APGT1604PDER-G2 DA01	9.525	4.76	16.5	1.6	●	●	●	●	●
	APMT1604PDER-DL DT9030G	9.525	4.76	16.5	1.6	●	●	●	●	●
						●	●	●	●	●
	APMT1604PDER-DL DT8090	9.525	4.76	16.5	1.6	●	●	●	●	●
						●	●	●	●	●
	APMT1135PDER-M2 DT8090	6.35	3.5	11	0.8	●	●	●	●	●
	APMT1604PDER-M2 DT8090	9.525	4.76	16.5	1.6	●	●	●	●	●

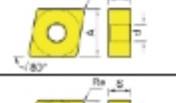
Insert Code CC..0602.. , CC..09T3..

Insert Shape	Description	Dimension (mm)				Working Material				
		A	S	d1	r	P	M	K	N	H
 	CCMT060202EM DT9030G	6.35	2.38	2.8	0.2	●	●			
	CCMT060204EM DT9030G	6.35	2.38	2.8	0.4	●	●			
	CCMT09T302EM DT9030G	9.525	3.97	4.4	0.2	●	●			
	CCMT09T304EM DT9030G	9.525	3.97	4.4	0.4	●	●			
 	CCMT060202HQ DX650T	6.35	2.38	2.8	0.2	●				
	CCMT060204HQ DX650T	6.35	2.38	2.8	0.4	●				
	CCMT09T302HQ DX650T	9.525	3.97	4.4	0.2	●				
	CCMT09T304HQ DX650T	9.525	3.97	4.4	0.4	●				
 	CCMT060204PZ DT2025	6.35	2.38	2.8	0.4	●		●		
	CCMT09T304PZ DT2025	9.525	3.97	4.4	0.4	●		●		
 	CCMT060204MZ DT9095	6.35	2.38	2.8	0.4	●	●			
	CCMT09T304MZ DT9095	9.525	3.97	4.4	0.4	●	●			
 	CCGT060202AK DA01	6.35	2.38	2.8	0.2				●	
	CCGT060204AK DA01	6.35	2.38	2.8	0.4				●	
	CCGT09T302AK DA01	9.525	3.97	4.4	0.2				●	
	CCGT09T304AK DA01	9.525	3.97	4.4	0.4				●	

Insert Code CC..1204..

Insert Shape	Description	Dimension (mm)				Working Material				
		A	S	d1	r	P	M	K	N	H
 	CCMT120404EM DT9030	6.35	2.38	2.8	0.4	●	●			
	CCMT120408EM DT9030	6.35	2.38	2.8	0.8	●	●			
 	CCMW120408 DT13115	6.35	2.38	2.8	0.8			●		
 	CCGT120404AK DA01	6.35	2.38	2.8	0.4				●	
	CCGT120408AK DA01	6.35	2.38	2.8	0.8				●	

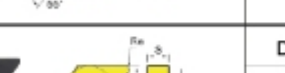
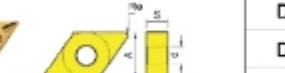
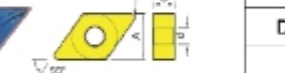
Insert Code CN..1204..

Insert Shape	Description	Dimension (mm)				Working Material				
		A	S	d1	r	P	M	K	N	H
 	CNMG120404MA DT9030	12.7	4.76	5.16	0.4	●	●			
	CNMG120408MA DT9030	12.7	4.76	5.16	0.8	●	●			
 	CNMG120404HQ DX650T	12.7	4.76	5.16	0.4	●				
	CNMG120408HQ DX650T	12.7	4.76	5.16	0.8	●				
 	CNMG120404MA DT8090	12.7	4.76	5.16	0.4	●	●	●		●
	CNMG120408MA DT8090	12.7	4.76	5.16	0.8	●	●	●		●
 	CNMG120404PZ DT2025	12.7	4.76	5.16	0.4	●		●		
	CNMG120408PZ DT2025	12.7	4.76	5.16	0.8	●		●		

Insert Code DC..0702.. , DC..11T3..

[illegible]

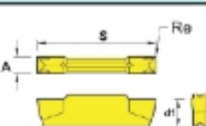
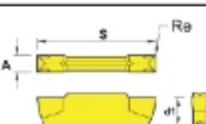
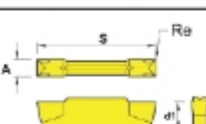
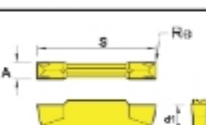
Insert Code DN..1504..

Insert Shape	Description	Dimension (mm)				Working Material				
		A	S	d1	r	P	M	K	N	H
	DNMG150404MM DT6060	12.7	4.76	5.16	0.4	●	●			
	DNMG150408MM DT6060	12.7	4.76	5.16	0.8	●	●			
	DNMG150404HQ DX850T	12.7	4.76	5.16	0.4	●				
	DNMG150408HQ DX850T	12.7	4.76	5.16	0.8	●				
	DNMG150404PZ DT2025	12.7	4.76	5.16	0.4	●		●		
	DNMG150408PZ DT2025	12.7	4.76	5.16	0.8	●		●		
	DNMA150408 DT3115	12.7	4.76	5.16	0.8			●		
	DNMA150412 DT3115	12.7	4.76	5.16	1.2			●		

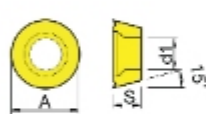
Insert Code GMM..2020.. , GMM..3020..

Insert Shape	Description	Dimension (mm)				Working Material				
		A	S	d1	r	P	M	K	N	H
	GMM2020-MT DT9030	2	20	4.3	0.20	●	●			
	GMM3020-MT DT9030	3	20	4.3	0.25	●	●			

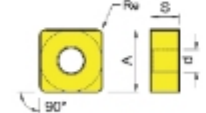
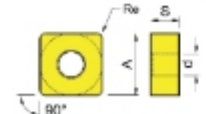
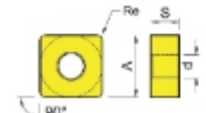
Insert Code MG..150 , 200 , 250 , 300 , 400 , 500..

Insert Shape	Description	Dimension (mm)				Working Material				
		A	S	d1	r	P	M	K	N	H
 	MGMN150-G DT9030G	1.5	16.0	3.5	0.15	●	●	●		
	MGMN200-G DT9030G	2.0	16.0	3.5	0.2	●	●	●		
	MGMN250-G DT9030G	2.5	18.5	3.85	0.2	●	●	●		
 	MGMN300-M DT9030G	3.0	21.0	4.8	0.4	●	●	●		
	MGMN400-M DT9030G	4.0	21.0	4.8	0.4	●	●	●		
	MGMN500-M DT9030G	5.0	21.0	4.8	0.4	●	●	●		
 	MGMN150-G DT8090	1.5	16.0	3.5	0.15	●	●	●		●
	MGMN200-G DT8090	2.0	16.0	3.5	0.2	●	●	●		●
	MGMN250-G DT8090	2.5	18.5	3.85	0.2	●	●	●		●
 	MGMN300-M DT8090	3.0	21.0	4.8	0.4	●	●	●		●
	MGMN400-M DT8090	4.0	21.0	4.8	0.4	●	●	●		●

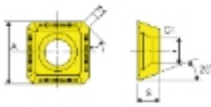
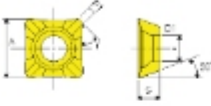
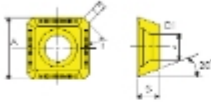
Insert Code RD..10T3.. , RD..1204.. , RD..1605..

Insert Shape	Description	Dimension (mm)				Working Material				
		A	S	d1	r	P	M	K	N	H
 	RDMW0802MOT DT9030G	8	3.97	3.2	0.0	●	●	●		
	RDMW10T3MOT DT9030G	10	3.97	3.2	0.0	●	●	●		
 	RDMT0802MO-FM DT9095	8	3.97	3.2	0.0	●	●	●		
	RDMT10T3MO-FM DT9095	10	3.97	3.2	0.0	●	●	●		
 	RDMT1204MO-MQ DT8090	12	3.97	3.2	0.0	●	●	●		●
	RDMT1605MO DT8090	16	3.97	3.2	0.0	●	●	●		●

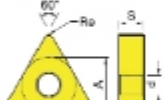
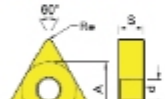
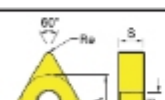
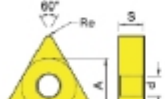
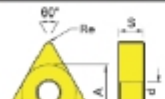
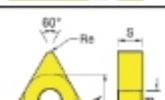
Insert Code SN..1204..

Insert Shape	Description	Dimension (mm)				Working Material				
		A	S	d1	r	P	M	K	N	H
 	SNMG120404HA DT9030	12.7	4.76	5.16	0.4	●	●	●		
 	SNMG120404MA DT8090	12.7	4.76	5.16	0.4	●	●	●		●
	SNMG120408MA DT8090	12.7	4.76	5.16	0.8	●	●	●		●
 	SNMG120404PZ DT2025	12.7	4.76	5.16	0.4	●		●		
	SNMG120408PZ DT2025	12.7	4.76	5.16	0.8	●		●		

Insert Code SE..1204..

Insert Shape	Description	Dimension (mm)				Working Material				
		A	S	d1	r	P	M	K	N	H
 	SEKT1204AFTN-XM DT9030G	12.7	4.76	5.5	0.8	●	●			
 	SEKT1204AFTN-X83 DA01	12.7	4.76	5.5	0.8				●	
 	SEMT13T3AGSN-FM DT9095	13.4	3.97	4.2	1.5	●	●			

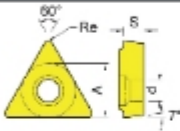
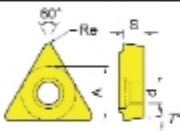
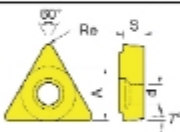
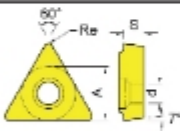
Insert Code TN..1604..

Insert Shape	Description	Dimension (mm)				Working Material				
		A	S	d1	r	P	M	K	N	H
 	TNMG160404MA DT9030	9.525	4.76	3.81	0.4	●	●			
	TNMG160408MA DT9030	9.525	4.76	3.81	0.8	●	●			
 	TNMG160404PZ DT2025	9.525	4.76	3.81	0.4	●		●		
	TNMG160408PZ DT2025	9.525	4.76	3.81	0.8	●		●		
 	TNMG160404MZ DT9095	9.525	4.76	3.81	0.4	●	●			
	TNMG160408MZ DT9095	9.525	4.76	3.81	0.8	●	●			
 	TNMG160404HQ DX650	9.525	4.76	3.81	0.4	●	●			
	TNMG160408HQ DX650	9.525	4.76	3.81	0.8	●	●			
	TNMG160404HQ DX650T	9.525	4.76	3.81	0.4	●	●			
	TNMG160408HQ DX650T	9.525	4.76	3.81	0.8	●	●			
 	TNMG160404MA DT8090	9.525	4.76	3.81	0.4	●	●	●		●
	TNMG160408MA DT8090	9.525	4.76	3.81	0.8	●	●	●		●
 	TNMG160404MM DT6060	9.525	4.76	3.81	0.4	●	●			
	TNMG160408MM DT6060	9.525	4.76	3.81	0.8	●	●			
 	TNMG160402R-F DT9030	9.525	4.76	3.81	0.2	●	●			
	TNMG160404R-F DT9030	9.525	4.76	3.81	0.4	●	●			
 	TNMG160404R-S DX650	9.525	4.76	3.81	0.4	●				
	TNMG160408R-S DX650	9.525	4.76	3.81	0.8	●				

Insert Code TC..0902.. , TC..1102.. , TC..16T3..

Insert Shape	Description	Dimension (mm)				Working Material				
		A	S	d1	r	P	M	K	N	H
	TCMT090204EM DT9030	5.56	2.38	2.5	0.4	●	●			
	TCMT110204EM DT9030	6.35	2.38	2.8	0.4	●	●			
	TCMT110204PZ DT2025	6.35	2.38	2.8	0.4	●		●		
	TCMT16T304PZ DT2025	9.525	3.97	4.4	0.4	●		●		
	TCMT16T308PZ DT2025	9.525	3.97	4.4	0.8	●		●		

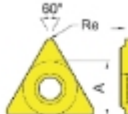
Insert Code TC..1102.. , TC..16T3..

Insert Shape	Description	Dimension (mm)				Working Material				
		A	S	d1	r	P	M	K	N	H
 	TCMT110204HQ DX850T	6.35	2.38	2.8	0.4	●				
 	TCMT110204SL DT8090	6.35	2.38	2.8	0.4	●	●	●		●
 	TCMT16T304MT DX650T	9.525	3.97	4.4	0.4	●	●			
 	TCGT090204AK DA01	5.56	2.38	2.5	0.4				●	
	TCGT09024AK DA01	5.56	2.38	2.5	0.4					●
	TCGT110204AK DA01	6.35	2.38	2.8	0.4					●
	TCGT16T304AK DA01	9.525	3.97	4.4	0.4					●

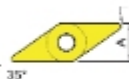
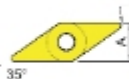
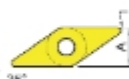
Insert Code TP..1103..

Insert Shape	Description	Dimension (mm)				Working Material				
		A	S	d1	r	P	M	K	N	H
	TPMT110304HQ DX650T	6.35	2.38	2.8	0.4	●	●	●	●	●
						●	●	●	●	●
						●	●	●	●	●
	TPGH110302L-F DT9030	6.35	2.38	2.8	0.2	●	●	●	●	●
	TPGH110304L-F DT9030	6.35	2.38	2.8	0.4	●	●	●	●	●
	TPGH090202L DT9030	5.56	2.38	2.9	0.2	●	●	●	●	●
	TPGH090204L DT9030	5.56	2.38	2.9	0.4	●	●	●	●	●
	TBGT060104L DT9095	3.97	1.59	2.3	0.4	●	●	●	●	●
	TPGH110302L-F DX650	6.35	2.38	2.8	0.2	●	●	●	●	●
	TPGH110304L-F DX650	6.35	2.38	2.8	0.4	●	●	●	●	●
	TPGH090204L DX650	5.56	2.38	2.9	0.4	●	●	●	●	●
	TBGT060102L DX650	3.97	1.59	2.3	0.2	●	●	●	●	●
	TBGT060104L DX650	3.97	1.59	2.3	0.4	●	●	●	●	●

Insert Code TP..0902.. , TP..1103.. , TB..0601..

Insert Shape	Description	Dimension (mm)				Working Material				
		A	S	d1	r					
 	TPGH090202L DT8090	5.56	2.38	2.9	0.2	●	●	●		●
	TPGH090204L DT8090	5.56	2.38	2.9	0.4	●	●	●		●
	TBGT060102L DT8090	3.97	1.59	2.3	0.2	●	●	●		●
 	TPMH090204MV DT9030	6.35	2.38	2.8	0.4	●	●			
	TPMT110304MV DT9030	6.35	2.38	2.8	0.4	●	●			

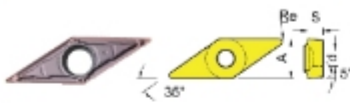
Insert Code VN..1604..

Insert Shape	Description	Dimension (mm)				Working Material				
		A	S	d1	r	P	M	K	N	H
 	VNMG160404PZ DT2025	9.525	4.76	3.81	0.4	●		●		
	VNMG160408PZ DT2025	9.525	4.76	3.81	0.8	●		●		
 	VNMG160404MZ DT9095	9.525	4.76	3.81	0.4	●				
	VNMG160408MZ DT9095	9.525	4.76	3.81	0.8	●				
 	VNMG160404MA DT8090	9.525	4.76	3.81	0.4	●	●	●		●
	VNMG160408MA DT8090	9.525	4.76	3.81	0.8	●	●	●		●
 	VNMG160404MM DT6060	9.525	4.76	3.81	0.4	●	●			
	VNMG160408MM DT6060	9.525	4.76	3.81	0.8	●	●			
 	VNMG160404MT DX650T	9.525	4.76	3.81	0.4	●				
 	VNGG160402PJ DT8090	9.525	4.76	3.81	0.2	●	●	●		●

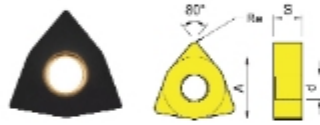
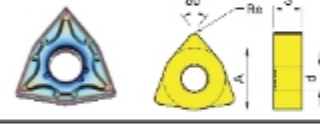
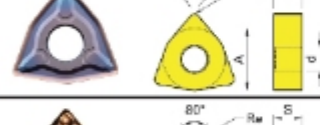
Insert Code VB..1103.. ,VC..1103..

Insert Shape	Description	Dimension (mm)				Working Material				
		A	S	d1	r	P	M	K	N	H
 	VBMT110304MV DT9030	9.525	4.76	4.4	0.4	●	●			
	VBMT110308MV DT9030	9.525	4.76	4.4	0.8	●	●			
 	VCMT110304TM DT9095	9.525	4.76	4.4	0.4	●	●			
	VCMT110308TM DT9095	9.525	4.76	4.4	0.8	●	●			

Insert Code VB..1604.. ,VC..1604..

Insert Shape	Description	Dimension (mm)				Working Material				
		A	S	d1	r	P	M	K	N	H
	VBMT160404M/V DT9030	9.525	4.76	4.4	0.4	●	●			
	VBMT160408M/V DT9030	9.525	4.76	4.4	0.8	●	●			
	VBMT160404M/V DT8090	9.525	4.76	4.4	0.4	●	●	●		●
	VBMT160408M/V DT8090	9.525	4.76	4.4	0.8	●	●	●		●
	VCMT160404TM DT9095	9.525	4.76	4.4	0.4	●	●			
	VCMT160408TM DT9095	9.525	4.76	4.4	0.8	●	●			

Insert Code WN..0804..

Insert Shape	Description	Dimension (mm)				Working Material				
		A	S	d1	r	P	M	K	N	H
	WNMG080404MA DT9030	12.7	4.76	5.16	0.4	●	●			
	WNMG080408MA DT9030	12.7	4.76	5.16	0.8	●	●			
	WNMA080408 DT3115	12.7	4.76	5.16	0.8			●		
	WNMA080412 DT3115	12.7	4.76	5.16	1.2			●		
	WNMG080404MA DT8090	12.7	4.76	5.16	0.4	●	●			●
	WNMG080408MA DT8090	12.7	4.76	5.16	0.8	●	●			●
	WNMG080404PZ DT2025	12.7	4.76	5.16	0.4	●		●		
	WNMG080408PZ DT2025	12.7	4.76	5.16	0.8	●		●		
	WNMG080404MM DT6060	12.7	4.76	5.16	0.4	●	●			
	WNMG080408MM DT6060	12.7	4.76	5.16	0.8	●	●			
	WNMG080408MZ DT9095	12.7	4.76	5.16	0.8	●	●			
	WNMG080412MZ DT9095	12.7	4.76	5.16	1.2	●	●			

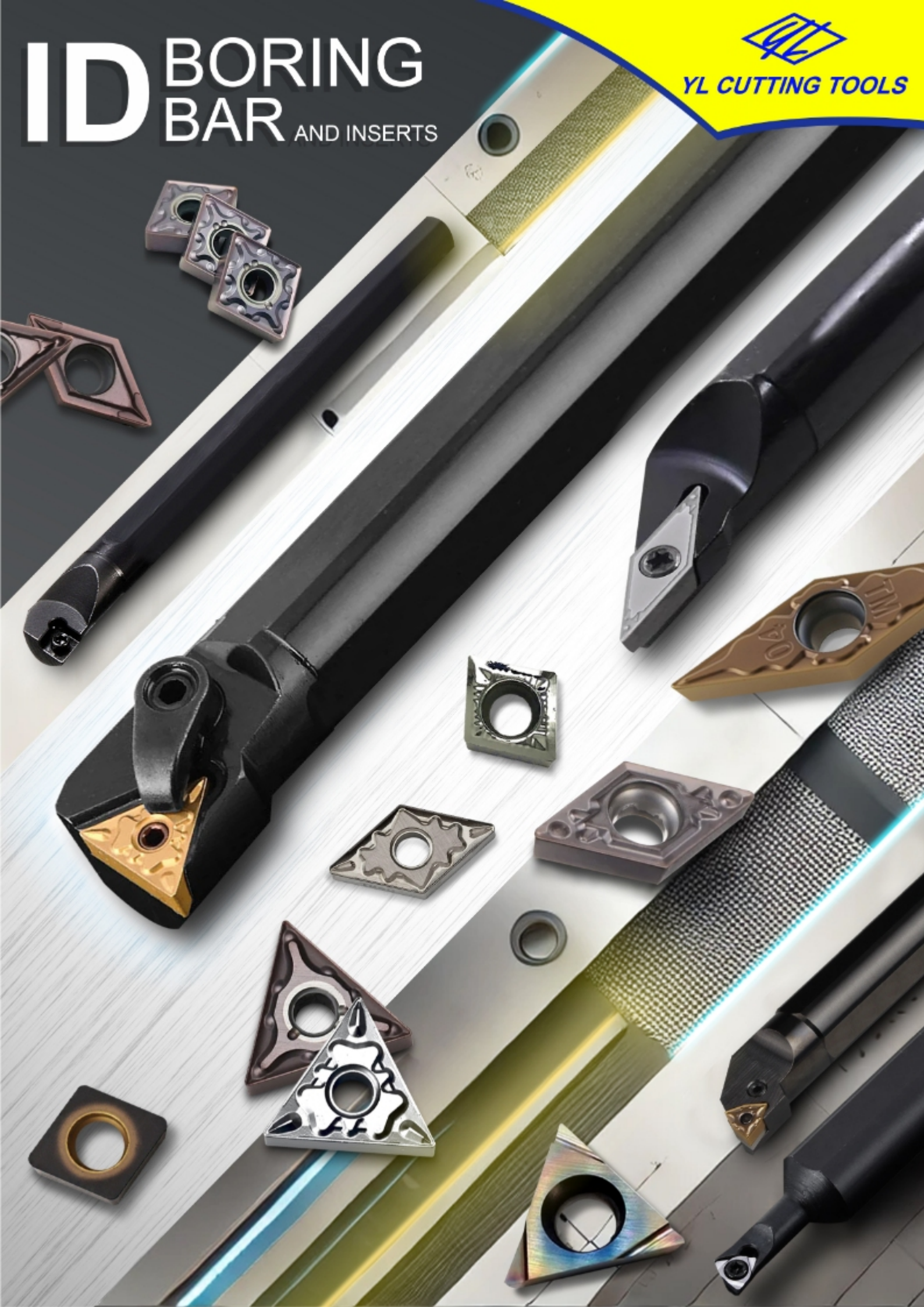
Recommended Cutting Conditions

Working Material		Vc	fz	ap
P Steel	Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
M Stainless Steel	Stainless 300 Series	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
K Cast Iron	Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
N Alloy	Aluminium alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
H Hardened Steel	Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

ID BORING BAR AND INSERTS



YL CUTTING TOOLS



MTQN TN..16

105°



Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Shim	Pin	Wrench	Clamp	Screw
無水孔 Non-coolant	D	L	dmin							
S20R-MTQNR/L-16	20	200	25	TN..1604..	0.49	-	CTM511	L2.0 L3.0	HL1810	ML0620
S25S-MTQNR/L-16	25	200	30		0.77					
S32S-MTQNR/L-16	32	200	40		1.58	MT1603	CTM511		HL1813	ML0625

Enforced blade

Use	○	○	○	○	○	○	○	○	○
Insert shape									
Insert Code	TNMG160404MA DT9030 TNMG160408MA DT9030	TNMG160404HQ DX650T TNMG160408HQ DX650T	TNMG160404MZ DT9095 TNMG160408MZ DT9095	TNMG160404PZ DT2025 TNMG160408PZ DT2025					

Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

MTUN TN..16

93°



Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Shim	Pin	Wrench	Clamp	Screw
無水孔,Non-coolant	D	L	dmin							
S20R-MTUNR/L-16	20	200	25	TN..1604..	0.49	—	CTM511	L2.0 L3.0	HL1810	ML0620
S25R-MTUNR/L-16	25	200	30		0.77	MT1603	CTM511		HL1813	ML0625
S32S-MTUNR/L-16	32	250	40		1.58					
S40T-MTUNR/L-16	40	300	50		2.96					
S50U-MTUNR/L-16	50	350	60		5.40					

Enforced blade

Use	○	○	○	○	○	○	○	○	○
Insert shape									
Insert Code	TNMG160404MA DT9030 TNMG160408MA DT9030	TNMG160404HQ DX650T TNMG160408HQ DX650T	TNMG160404MZ DT9095 TNMG160408MZ DT9095	TNMG160404PZ DT2025 TNMG160408PZ DT2025					

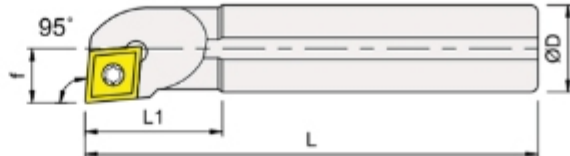
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

SCLC

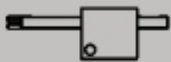
CC..06

95°



Right-hand shown

Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔Non-coolant	D	L	dmin				
S08K-SCLCR/L-06	8	125	10	CC..0602..	0.07	M2.5 x 6	T8
S10K-SCLCR/L-06	10	125	12		0.09		
S12M-SCLCR/L-06	12	150	16		0.13		

Enforced blade

Use									
Insert shape									
Insert Code	CCMT060202EM DT9030 CCMT060204EM DT9030	CCMT060202HQ DX650T CCMT060204HQ DX650T	CCMT060202PZ DT2025 CCMT060204PZ DT2025	CCMT060202AK DA01 CCMT060204AK DA01	CCMT060202AK DA01 CCMT060204AK DA01	CCMT060202AK DA01 CCMT060204AK DA01	CCMT060202AK DA01 CCMT060204AK DA01	CCMT060202AK DA01 CCMT060204AK DA01	CCMT060202AK DA01 CCMT060204AK DA01

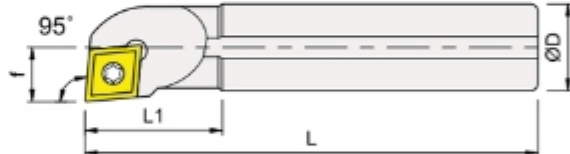
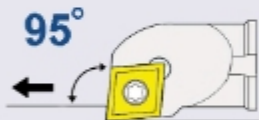
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

SCLC

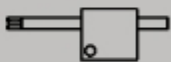
CC..09

95°



Right-hand shown

Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔Non-coolant	D	L	dmin				
S12M-SCLCR/L-09	12	150	16	CC..09T3..	0.13	M4 x 8	T15
S14N-SCLCR/L-09	14	160	16		0.22		
S16Q-SCLCR/L-09	16	180	20		0.28		
S18Q-SCLCR/L-09	18	180	20		0.36		
S20R-SCLCR/L-09	20	200	25		0.49		
S25S-SCLCR/L-09	25	250	30		0.77		
S32T-SCLCR/L-09	32	300	38		1.58		

Enforced blade

Use									
Insert shape									
Insert Code	CCMT09T304EM DT9030 CCMT09T308EM DT9030	CCMT09T304HQ DX650T CCMT09T308HQ DX650T	CCMT09T304PZ DT2025 CCMT09T308PZ DT2025	CCMT09T304AK DA01 CCMT09T308AK DA01	CCMT09T304AK DA01 CCMT09T308AK DA01	CCMT09T304AK DA01 CCMT09T308AK DA01	CCMT09T304AK DA01 CCMT09T308AK DA01	CCMT09T304AK DA01 CCMT09T308AK DA01	CCMT09T304AK DA01 CCMT09T308AK DA01

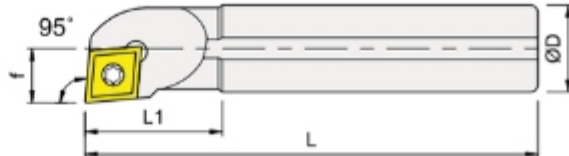
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

SCLC

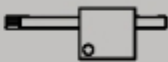
CC..12

95°



Right-hand shown

Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔 Non-coolant	D	L	dmin				
S20R-SCLCR/L-12	20	200	25	CC..1204..	0.49	M5 x 12	T20
S25S-SCLCR/L-12	25	200	30		0.77		
S32T-SCLCR/L-12	32	250	38		1.58		
S40T-SCLCR/L-12	40	300	50		2.96		

Enforced blade

Use												
Insert shape												
Insert Code	CCMT120404EM DT9030 CCMT120408EM DT9030											

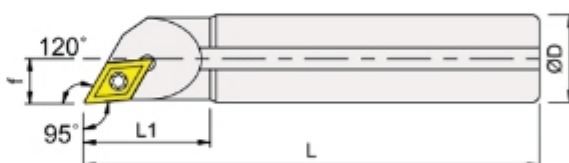
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

SDJC

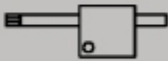
DC..07

95°



Right-hand shown

Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔 Non-coolant	D	L	dmin				
S08K-SDJCR/L-07	8	125	10	CC..0702..	0.07	M2.5 x 6	T8
S10K-SDJCR/L-07	10	125	12		0.09		
S12M-SDJCR/L-07	12	150	14		0.13		
S16Q-SDJCR/L-07	16	180	19		0.28		

Enforced blade

Use												
Insert shape												
Insert Code	DCMT070204MV DT9030 DCMT070204HQ DX650T DCMT070204PZ DT2025 DCGT070204AK DA01											

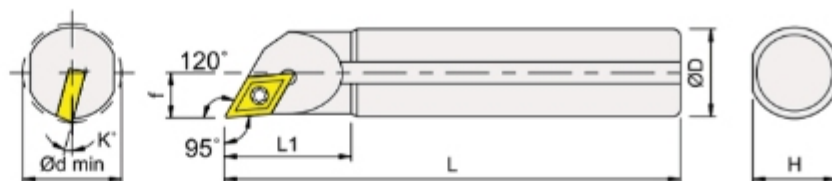
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

SDJC

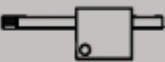
DC..11

95°



Right-hand shown

Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔 Non-coolant	D	L	dmin				
S16Q-SDJCR/L-11	16	180	19	CC..11T3..	0.28	M4 x 8	T15
S20R-SDJCR/L-11	20	200	23		0.49		
S25R-SDJCR/L-11	25	200	28		0.77		
S25S-SDJCR/L-11	25	250	28		0.96		
S32S-SDJCR/L-11	32	250	35		1.58		

Enforced blade

Use									
Insert shape									
Insert Code	DCMT11T304EM DT9030 DCMT11T308EM DT9030		DCMT11T304HQ DX650T		DCMT11T304PZ DT2025 DCMT11T308PZ DT2025		DCGT11T304AK DA01 DCGT11T308AK DA01		

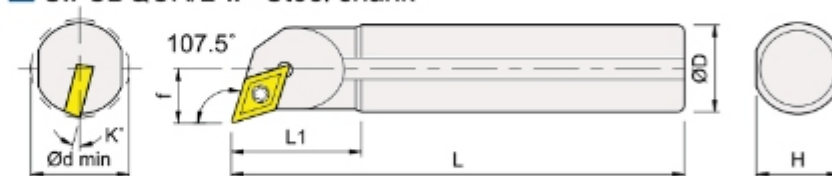
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.06 ~ 0.25	0.3 ~ 3.0

SDQC

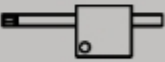
DC..07

107.5°



Right-hand shown

Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔 Non-coolant	D	L	dmin				
S10K-SDQCR/L-07	10	125	13	DC..0702..	0.08	M2.5 x 6	T8
S12M-SDQCR/L-07	12	150	16		0.13		

Enforced blade

Use									
Insert shape									
Insert Code	DCMT070204MV DT9030		DCMT070204HQ DX650T		DCMT070204PZ DT2025		DCGT070204AK DA01		

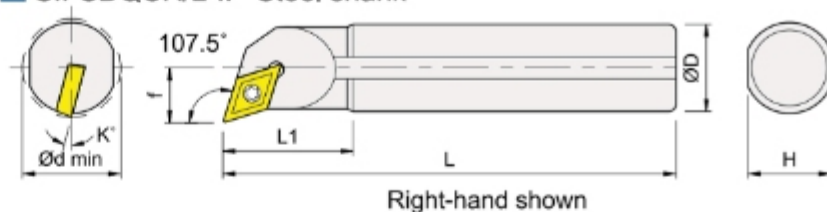
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.06 ~ 0.25	0.3 ~ 3.0

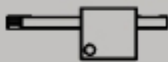
SDQC DC..11



S...SDQCR/L... Steel shank



Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔Non-coolant	D	L	dmin				
S16Q-SDQCR/L-11	16	180	20	DC..11T3..	0.28	M4 x 8	T15
S20R-SDQCR/L-11	20	200	25		0.49		
S25R-SDQCR/L-11	25	200	32		0.77		
S32S-SDQCR/L-11	32	250	40		1.58		
S40T-SDQCR/L-11	40	300	50		2.96		

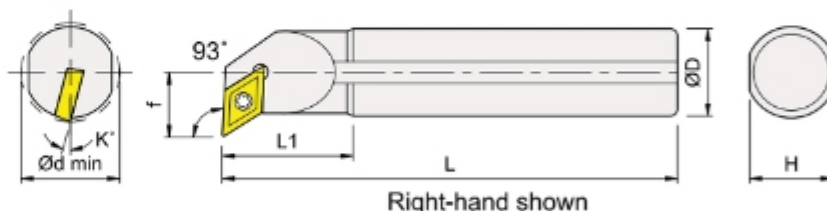
Enforced blade

Use							
Insert shape							
Insert Code	DCMT11T304EM DT9030 DCMT11T308EM DT9030	DCMT11T304HQ DX650T	DCMT11T304PZ DT2025 DCMT11T308PZ DT2025	DCGT11T304AK DA01 DCGT11T308AK DA01			

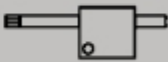
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

SDUC DC..07



Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔Non-coolant	D	L	dmin				
S10K-SDUCR/L-07	10	125	13	DC..0702..	0.08	M2.5 x 6	T8
S12M-SDUCR/L-07	12	150	16		0.13		
S16Q-SDUCR/L-07	16	180	20		0.28		

Enforced blade

Use							
Insert shape							
Insert Code	DCMT070204MV DT9030	DCMT070204HQ DX650T	DCMT070204PZ DT2025	DCGT070204AK DA01			

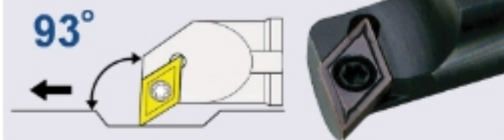
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

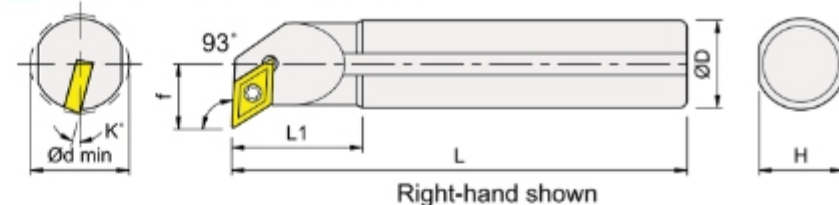
SDUC

DC..11

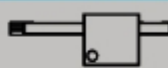
93°



S...SDUCR/L... Steel shank



Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔 Non-coolant	D	L	dmin				
S16Q-SDUCR/L-11	16	180	20	DC..11T3..	0.28	M4 x 8	T15
S20R-SDUCR/L-11	20	200	25		0.49		
S25S-SDUCR/L-11	25	200	32		0.77		
S25T-SDUCR/L-11	25	250	32		0.96		
S32S-SDUCR/L-11	32	250	40		1.58		
S40T-SDUCR/L-11	40	300	50		2.98		

Enforced blade

Use																																																																																																																																																																																								
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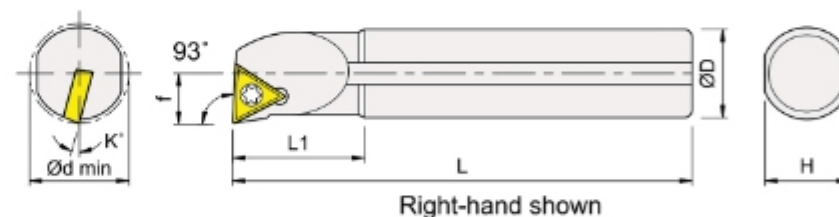
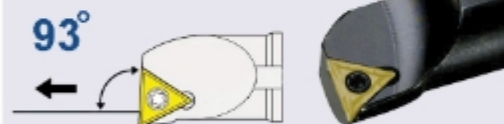
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

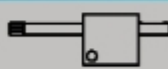
STUB

TB..06

93°



Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔 Non-coolant	D	L	dmin				
S06H-STUBR/L-06	6	100	7	TB..0601..	0.02	M2.2 x 5	T6

Enforced blade

Use																								
Insert shape																								
Insert Code	TBGTT060102L DT9030 TBGTT060104L DT9030				TBGT060102L DX650 TBGT060104L DX650				TBGT060102L DT8090 TBGT060104L DT8090															

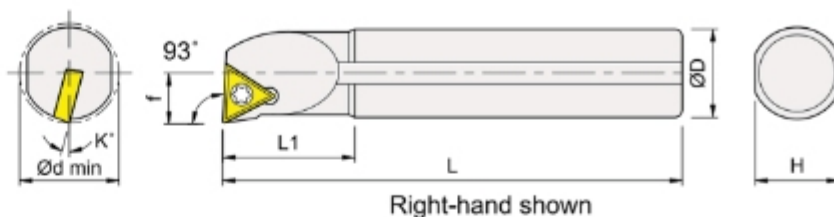
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

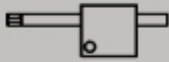
STUC

TC..09

93°



Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔Non-coolant	D	L	dmin				
S08K-STUCR/L-09	8	125	10	TC..0902..	0.05	M2.2 x 6	T6
S10K-STUCR/L-09	10	125	12		0.08	M2.5 x 6	
S12M-STUCR-09	12	150	16		0.13		

Enforced blade

Use																				
Insert shape																				
Insert Code	TCMT090204EM DT9030				TCMT090204HQ DX650T															

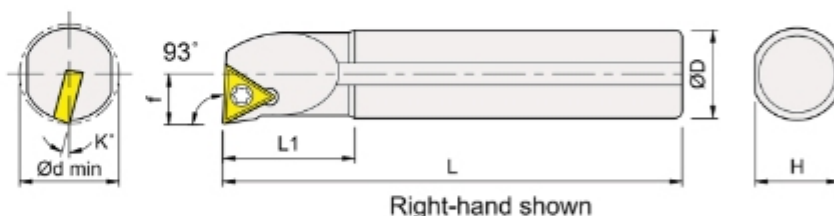
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

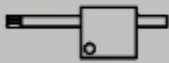
STUC

TC..11

93°



Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔Non-coolant	D	L	dmin				
S10K-STUCR/L-11	10	125	12	TC..1102..	0.08	M2.5 x 6	T8
S12M-STUCR/L-11	12	150	13		0.13		
S16Q-STUCR/L-11	16	180	20		0.28		
S20R-STUCR/L-11	20	200	25		0.49		

Enforced blade

Use				
Insert shape				
Insert Code	TCMT110204EM DT9030 TCMT110208EM DT9030	TCMT110204HQ DX650T	TCMT110204PZ DT2025	TCGT110204AK DA01

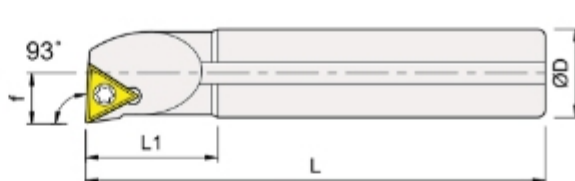
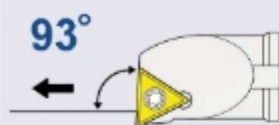
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

STUC

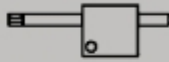
TC..16

93°



Right-hand shown

Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔Non-coolant	D	L	dmin				
S20R-STUCR/L-16	20	200	25	TC..16T3..	0.49	M4 x 10	T15
S25S-STUCR/L-16	25	250	30		0.77		
S32T-STUCR/L-16	32	300	38		1.89		

Enforced blade

Use									
Insert shape									
Insert Code	TCMT16T304EM DT9030 TCMT16T308EM DT9030		TCMT16T304HQ DX650T		TCMT16T304PZ DT2025 TCMT16T308PZ DT2025		TCGT16T304AK DA01		

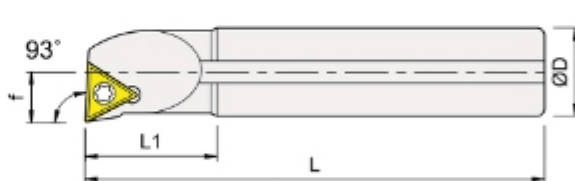
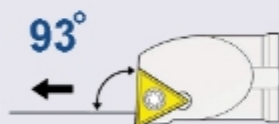
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

STUP

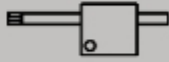
TP..08

93°



Right-hand shown

Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔Non-coolant	D	L	dmin				
S08K-STUPR/L-08	8	125	10	TP..0802..	0.07	M2.2 x 6	T6
S10K-STUPR/L-08	10	125	12		0.09		
S12M-STUPR/L-08	12	150	16		0.13		

Enforced blade

Use									
Insert shape									
Insert Code	TPMH080204MV DT9030		TPGH080202L DX650 TPGH080204L DX650		TPGH080202L DT8090 TPGH080204L DT8090				

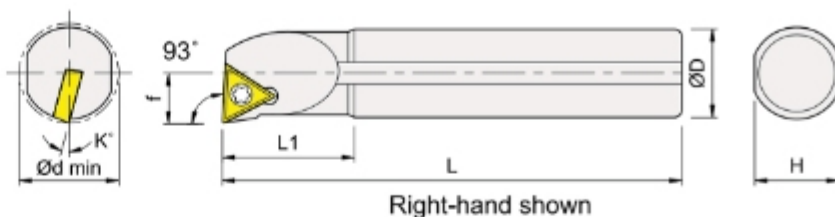
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

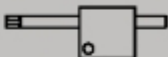
STUP

TP..09

93°



Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔Non-coolant	D	L	dmin				
S08K-STUPR/L-09	8	125	10	TP..0902..	0.07	M2.5 x 6	T8
S10K-STUPR/L-09	10	125	12		0.09		
S12M-STUPR/L-09	12	150	16		0.13		

Enforced blade

Use										
Insert shape										
Insert Code	TPMH090204MV DT9030 TPGH090202L DX650T TPGH090202L DT8090 TPGH090204L DX650T TPGH090204L DT8090									

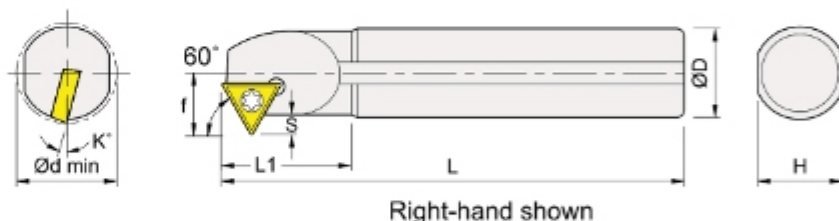
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

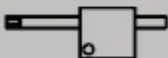
STWC

TC..11

60°



Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔Non-coolant	D	L	dmin				
S10K-STWCR/L-11	10	125	13	TC..1102..	0.09	M2.5 x 6	T8
S12M-STWCR/L-11	12	150	16		0.13		
S14M-STWCR/L-11	14	150	18		0.18		
S16Q-STWCR/L-11	16	180	20		0.28		
S20R-STWCR/L-11	20	200	25		0.49		

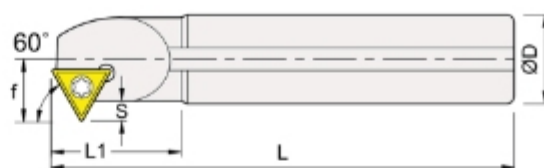
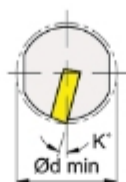
Enforced blade

Use										
Insert shape										
Insert Code	TCMT110204EM DT9030 TCMT110208EM DT9030 TCMT110204HQ DX650T TCMT110204PZ DT2025 TCMT110208PZ DT2025 TCGT110204AK DA01									

Recommended Cutting Conditions

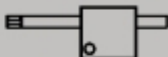
Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

STWP TP..11



Right-hand shown

Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔 Non-coolant	D	L	dmin				
S10K-STWPR/L-11	10	125	13	TP..1103..	0.09	M3 x 8	T8
S12M-STWPR/L-11	12	150	16		0.13		
S14M-STWPR/L-11	14	150	18		0.18		
S16Q-STWPR/L-11	16	180	20		0.28		
S20R-STWPR/L-11	20	200	25		0.49		

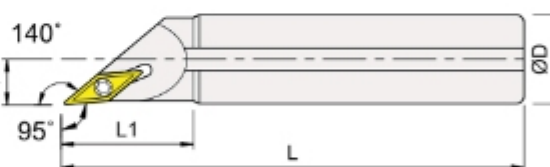
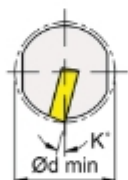
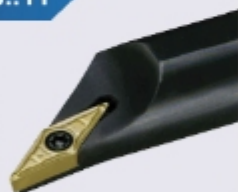
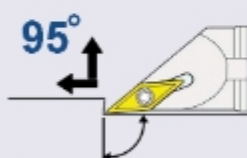
Enforced blade

Use																														
Insert shape																														
Insert Code	TPMT110304MV DT9030					TPMT110304HQ DX650T																								

Recommended Cutting Conditions

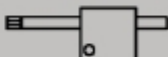
Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

SVJB VB..11



Right-hand shown

Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔 Non-coolant	D	L	dmin				
S10K-SVJBR/L-11	10	125	12	VB..1103..	0.08	M2.5 x 6	T8
S12M-SVJBR/L-11	12	150	14		0.13		
S16Q-SVJBR/L-11	14	180	19		0.28		
S20R-SVJBR/L-11	16	200	23		0.49		

Enforced blade

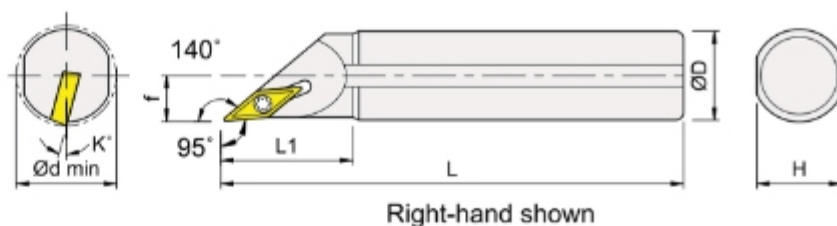
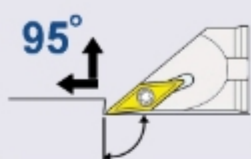
Use																														
Insert shape																														
Insert Code	VBMT110304TM DT9095					VBMT110304HQ DX650T					VBGT110302AK DA01 VBGT110304AK DA01																			

Recommended Cutting Conditions

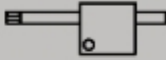
Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

SVJB

VB..16



Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
	D	L	dmin				
無水孔Non-coolant							
S16Q-SVJBR/L-16	16	180	19	VB..1604..	0.28	M4 x 10	T15
S20R-SVJBR/L-16	20	200	23		0.49		
S25S-SVJBR/L-16	25	200	28		0.77		
S32T-SVJBR/L-16	32	250	35		1.58		
S40T-SVJBR/L-16	40	300	43		2.96		

Enforced blade

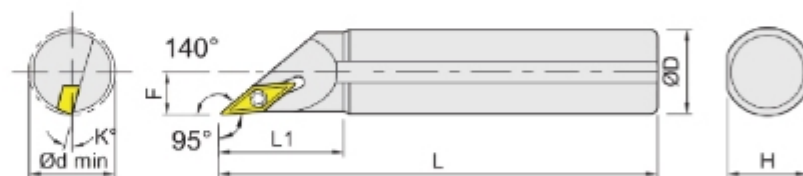
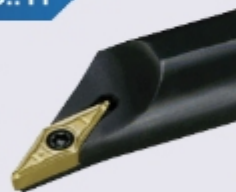
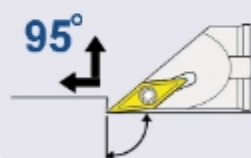
Use									
Insert shape									
Insert Code	VBMT160404MV DT9030 VBMT160404MV DT9090 VBMT160404MT DX650T VBGT160404AK DA01								

Recommended Cutting Conditions

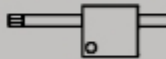
Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

SVJC

VC..11



Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
	D	L	dmin				
無水孔Non-coolant							
S10K-SVJCR/L-11	10	125	12	VC..1103..	0.08	M2.5 x 6	T8
S12M-SVJCR/L-11	12	150	14		0.13		
S16Q-SVJCR/L-11	16	180	19		0.28		
S20R-SVJCR/L-11	20	200	23		0.49		

Enforced blade

Use									
Insert shape									
Insert Code	VCMT110304TM DT9095 VCMT110304HQ DX650T VCGT110302AK DA01 VCGT110304AK DA01								

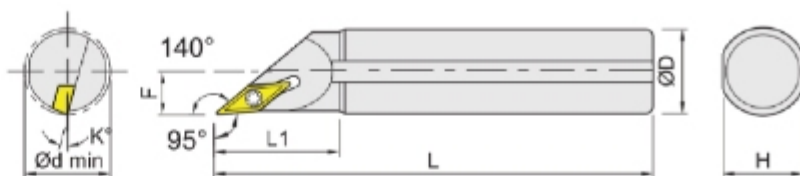
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

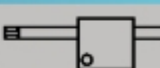
SVJC

VC..16

95°



Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔 Non-coolant	D	L	dmin				
S16Q-SVJCR/L-16	16	180	19	VC..1604..	0.28	M4 x 10	T15
S20R-SVJCR/L-16	20	200	23		0.49		
S25R-SVJCR/L-16	25	200	28		0.77		
S32S-SVJCR/L-16	32	250	35		1.58		
S40T-SVJCR/L-16	40	300	43		2.96		

Enforced blade

Use																																																																																																																																																																																								
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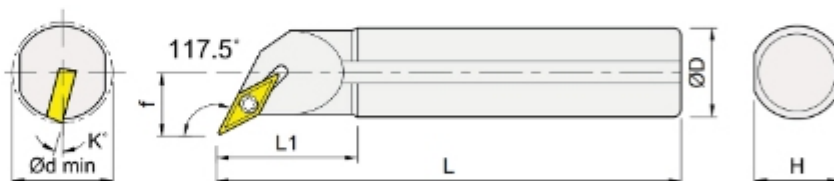
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

SVQB

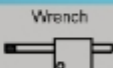
VB..11

117.5°



Right-hand shown

Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔 Non-coolant	D	L	dmin				
S12M-SVQBR/L-11	12	150	16	VB..1103..	0.13	M2.5 x 6	T8
S16Q-SVQBR/L-11	16	180	20		0.28		
S20R-SVQBR/L-11	20	200	25		0.49		

Enforced blade

Use					
Insert shape					
Insert Code	VBMT110304TM DT9095	VBMT110304HQ DX650T	VBGT110302AK DA01 VBGT110304AK DA01		

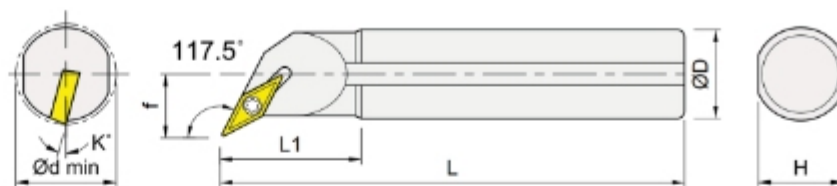
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

SVQB

VB..16

117.5°



Right-hand shown

Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw	Wrench
無水孔Non-coolant	D	L	dmin				
S20R-SVQBR/L-16	20	200	27	VB..1604..	0.13	M4 x 10	T15
S25S-SVQBR/L-16	25	250	32		0.28		
S32T-SVQBR/L-16	32	250	40		0.49		
S40T-SVQBR/L-16	40	300	50		0.49		

Enforced blade

Use				
Insert shape				
Insert Code	VBMT160404MV DT9030	VBMT160404MV DT8090	VBMT160404MT DX850T	VBGT160404AK DA01

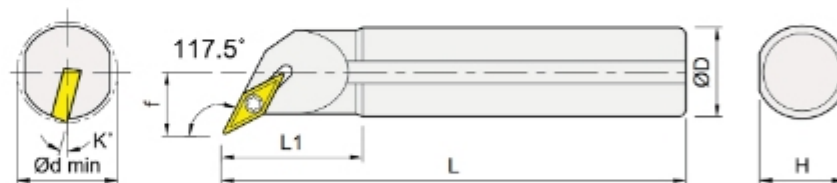
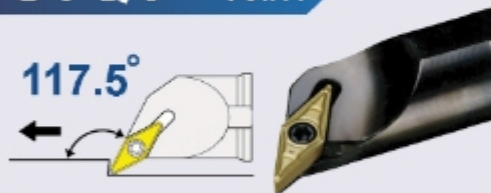
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

SVQC

VC..11

117.5°



Right-hand shown

Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw	Wrench
無水孔Non-coolant	D	L	dmin				
S12M-SVQCR/L-11	12	150	16	VC..1103..	0.13	M2.5 x 6	T8
S16Q-SVQCR/L-11	16	180	20		0.28		
S20R-SVQCR/L-11	20	200	25		0.49		

Enforced blade

Use				
Insert shape				
Insert Code	VCMT110304TM DT9095	VCMT110304HQ DX850T	VCMT110302AK DA01	VCMT110304AK DA01

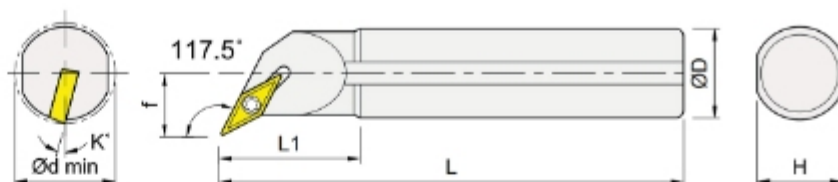
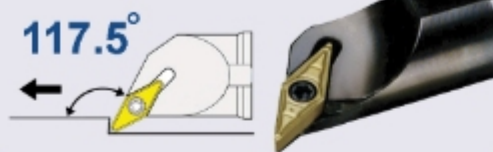
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

SVQC

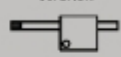
VC..16

117.5°



Right-hand shown

Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
	D	L	dmin				
無水孔Non-coolant							
S20R-SVQCR/L-16	20	200	27	VC..1604..	0.49	M4 x 10	T15
S25R-SVQCR/L-16	25	200	32		0.77		
S25S-SVQCR/L-16	25	250	32		0.96		
S32S-SVQCR/L-16	32	250	40		1.58		
S40T-SVQCR/L-16	40	300	50		2.96		
S40V-SVQCR/L-16	40	400	50		3.95		

Enforced blade

Use										
Insert shape										
Insert Code	VCMT160404TM DT9095 VCMT160408TM DT9095		VCGT160404AK DA01 VCGT160408AK DA01							

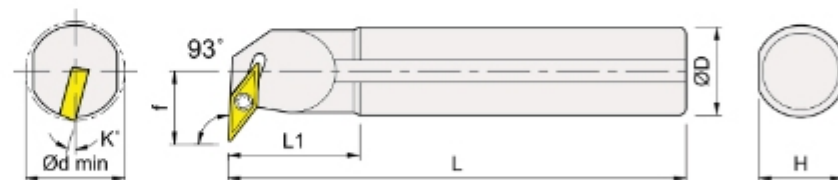
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.06 ~ 0.25	0.3 ~ 3.0

SVUB

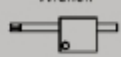
VB..11

93°



Right-hand shown

Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
	D	L	dmin				
無水孔Non-coolant							
S16Q-SVUBR/L-11	16	180	22	VB..1103..	0.28	M2.5 x 6	T8
S20R-SVUBR/L-11	20	200	27		0.49		

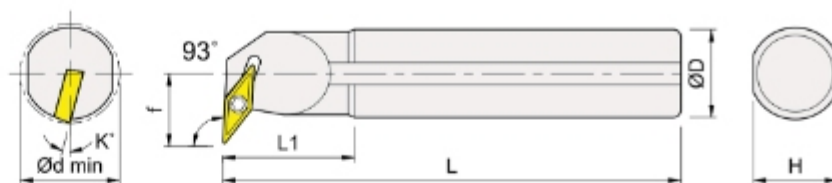
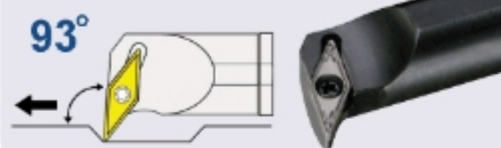
Enforced blade

Use				
Insert shape				
Insert Code	VBMT110304TM DT9095	VBMT110304HQ DX650T	VBGT110302AK DA01 VBGT110304AK DA01	

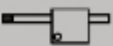
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.06 ~ 0.25	0.3 ~ 3.0

SVUB VB..16



Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
	D	L	dmin				
無水孔Non-coolant							
S25R-SVUBR/L-16	25	200	32	VB..1604..	0.77	M4 x 10	T15
S25S-SVUBR/L-16	32	250	40		1.58		
S40T-SVUBR/L-16	40	300	50		2.96		

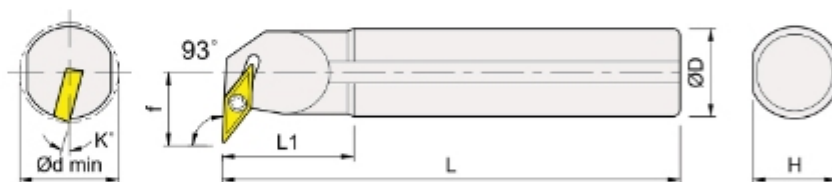
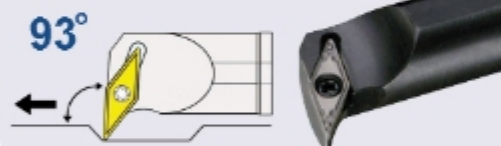
Enforced blade

Use									
Insert shape									
Insert Code	VBMT160404MV DT9030	VBMT160404MV DT8090	VBMT160404MT DX650T	VBGT160404AK DA01					

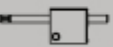
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

SVUC VC..11



Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
	D	L	dmin				
無水孔Non-coolant							
S16Q-SVUCR/L-11	16	180	22	VC..1103..	0.28	M2.5 x 6	T8
S20R-SVUCR/L-11	20	200	27		0.49		

Enforced blade

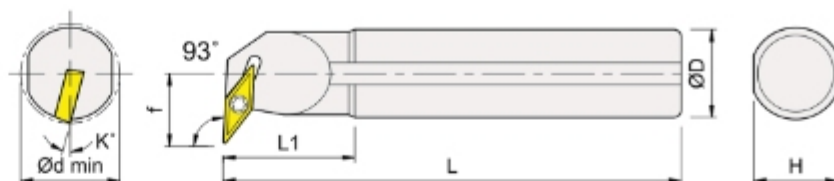
Use									
Insert shape									
Insert Code	VCMT110304TM DT9095	VCMT110304HQ DX650T	VCMT110302AK DA01	VCMT110304AK DA01					

Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

SVUC

VC..16



Right-hand shown

Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw	Wrench
無水孔Non-coolant	D	L	dmin				
S25S-SVUCR/L-16	25	200	32	VC..1604..	0.96	M4 x 10	T15
S32S-SVUCR/L-16	32	250	40		1.58		
S40T-SVUCR/L-16	40	300	50		2.96		

Enforced blade

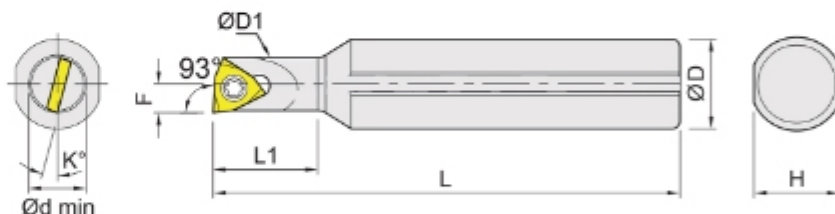
Use	○	○	○	○	○	○	○
Insert shape							
Insert Code	VCMT160404TM DT9095		VCGT160404AK DA01				
	VCMT160408TM DT9095		VCGT160408AK DA01				

Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

SWUB

WB..06



Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw	Wrench
無水孔Non-coolant	D	L	dmin				
S1006K-SWUBR/L-06-L18	10	125	7	WB..0601..	0.08	M2.2 x 5	T6
S1007K-SWUBR/L-06-L20	10	125	8		0.08		
S1205K-SWUBR/L-06-L15	12	125	6		0.11		

Enforced blade

Use	○	○	○	○	○	○	○
Insert shape							
Insert Code	WBMT060102L-DP DT9030		WBG060102L-F DX650T				
	WBMT060104L-DP DT9030		WBG060104L-F DX650T				

Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

FIG-1

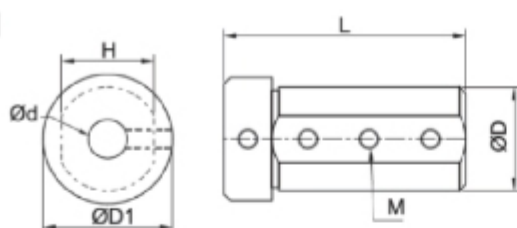


FIG-2

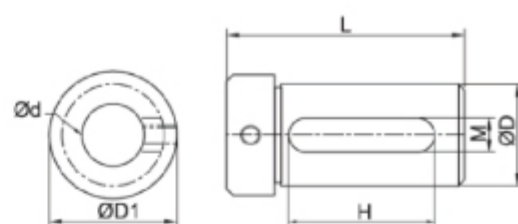


FIG-4

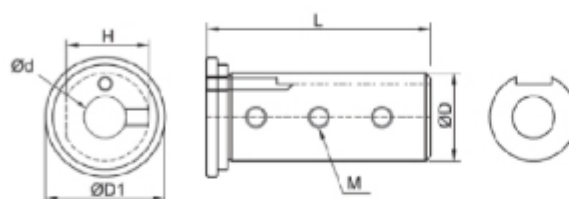
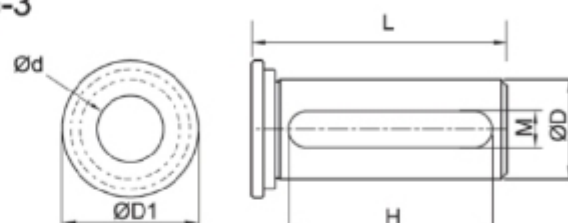


FIG-3



Product Specification

Steel shank Item code 無水孔Non-coolant	SHAPE	Dimensions,mm					Weight (KG)
		d	D	L	H	M	
NC1603	FIG-1	3	16	62	14.5	M4	0.11
NC1604	FIG-1	4	16	62	14.5	M5	0.10
NC1605	FIG-1	5	16	62	14.5	M5	0.08
NC1606	FIG-1	6	16	62	14.5	M5	0.08
NC1608	FIG-1	8	16	62	14	M5	0.07
NC1610	FIG-1	10	16	62	14.2	M5	0.06
NC1612	FIG-2	12	16	62	50	11	0.06
NC2004	FIG-1	4	20	67	17.5	M5	0.17
NC2005	FIG-1	5	20	67	17.5	M5	0.17
NC2006	FIG-1	6	20	67	17.5	M6	0.16
NC2007	FIG-1	7	20	67	17.5	M6	0.15
NC2008	FIG-1	8	20	67	17.5	M6	0.14
NC2010	FIG-1	10	20	67	17.5	M6	0.13
NC2012	FIG-1	12	20	67	17.5	M6	0.12
NC2014	FIG-2	14	20	67	53	13	0.09
NC2015	FIG-2	15	20	67	53	13	0.08
NC2016	FIG-2	16	20	67	53	13	0.07
NC2514	FIG-3	14	25	64	51	12	0.20
NC2515	FIG-3	15	25	64	51	12	0.19
NC2516	FIG-3	16	25	64	51	12	0.18

Product Specification							
Steel shank Item code	SHAPE	Dimensions,mm					Weight (KG)
無水孔Non-coolant		d	D	L	H	M	
NC2517	FIG-3	17	25	64	51	12	0.17
NC2518	FIG-3	18	25	64	51	12	0.16
NC2520	FIG-3	20	25	64	51	12	0.13
NC3204	FIG-1	4	32	85	29.5	M6	0.56
NC3205	FIG-1	5	32	85	29.5	M6	0.53
NC3206	FIG-1	6	32	85	29.5	M6	0.55
NC3208	FIG-1	8	32	85	29.5	M6	0.54
NC3210	FIG-1	10	32	100	29.5	M8	0.60
NC3212	FIG-1	12	32	100	29.5	M8	0.58
NC3214	FIG-1	14	32	100	29.5	M8	0.55
NC3216	FIG-1	16	32	100	29.5	M8	0.52
NC3218	FIG-1	18	32	100	29.5	M8	0.49
NC3220	FIG-2	20	32	100	77	14	0.40
NC3225	FIG-2	25	32	100	77	14	0.28
NC25-04	FIG-4	4	25	64	23.5	M4	0.27
NC25-05	FIG-4	5	25	64	23.5	M5	0.26
NC25-06	FIG-4	6	25	64	23.5	M6	0.26
NC25-07	FIG-4	7	25	64	23.5	M6	0.25
NC25-08	FIG-4	8	25	64	23.5	M6	0.25
NC25-09	FIG-4	9	25	64	23.5	M6	0.24
NC25-10	FIG-4	10	25	64	23.5	M6	0.23
NC25-11	FIG-4	11	25	64	23.5	M6	0.23
NC25-12	FIG-4	12	25	64	23.5	M6	0.22
NC25-13	FIG-4	13	25	64	23.5	M6	0.20
NC4005	FIG-1	5	40	100	38	M6	1.03
NC4006	FIG-1	6	40	100	38	M6	1.00
NC4007	FIG-1	7	40	100	38	M6	1.01
NC4008	FIG-1	8	40	100	38	M8	0.99

Product Specification							
Steel shank Item code 無水孔Non-coolant	SHAPE	Dimensions,mm					Weight (KG)
		d	D	L	H	M	
NC4010	FIG-1	10	40	100	38	M8	0.93
NC4012	FIG-1	12	40	100	38	M8	0.94
NC4014	FIG-1	14	40	100	38	M8	0.90
NC4015	FIG-1	15	40	100	38	M8	0.89
NC4016	FIG-1	16	40	100	38	M8	0.87
NC4018	FIG-1	18	40	100	38	M8	0.83
NC4020	FIG-2	20	40	100	78	14	0.71
NC4022	FIG-2	22	40	100	78	14	0.69
NC4025	FIG-2	25	40	100	78	14	0.60
NC4032	FIG-2	32	40	100	78	14	0.40

FIG-1

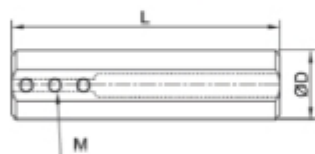
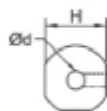


FIG-4

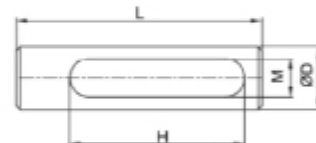
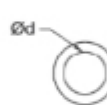


FIG-2

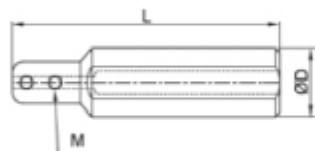
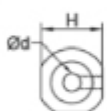


FIG-5

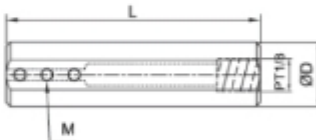
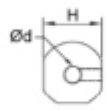


FIG-3

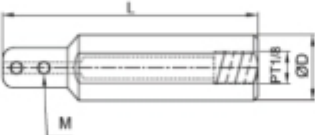
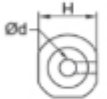
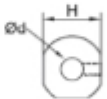


FIG-6



Metric

Product Specification							
Steel shank Item code 無水孔Non-coolant	SHAPE	Dimensions,mm					Weight (KG)
		d	D	L	H	M	
SHB-1603	FIG-1	3	16	100	14	M4	0.12
SHB-1604	FIG-1	4	16	100	14	M4	0.12
SHB-1605	FIG-1	5	16	100	14	M4	0.12
SHB-1606	FIG-1	6	16	100	14	M5	0.11
SHB-1607	FIG-1	7	16	100	14	M5	0.11
SHB-1608	FIG-1	8	16	100	14	M5	0.10

Metric

Product Specification							
Steel shank Item code	SHAPE	Dimensions,mm					Weight (KG)
無水孔Non-coolant		d	D	L	H	M	
SHB-1610	FIG-1	10	16	100	15	M4	0.09
SHB-2004A	FIG-1	4	20	100	18	M4	0.19
SHB-2005	FIG-1	5	20	100	18	M5	0.21
SHB-2006	FIG-1	6	20	100	18	M5	0.21
SHB-2008	FIG-1	8	20	100	18	M5	0.21
SHB-2010	FIG-1	10	20	100	18	M5	0.16
SHB-2012	FIG-1	12	20	100	18	M5	0.14
SHB-2204A	FIG-2	4	22	100	20	M4	0.24
SHB-2205	FIG-1	5	22	100	20	M5	0.27
SHB-2206	FIG-1	6	22	100	20	M5	0.26
SHB-2208	FIG-1	8	22	100	20	M5	0.24
SHB-2210	FIG-1	10	22	100	20	M5	0.22
SHB-2212	FIG-2	12	22	100	20	M5	0.20
SHB-2214	FIG-4	14	22	100	--	11	0.20
SHB-2216	FIG-4	16	22	100	--	10	0.13
SHB-2503	FIG-1	3	25	100	23	M4	0.37
SHB-2504	FIG-1	4	25	100	23	M4	0.36
SHB-2505	FIG-1	5	25	100	23	M5	0.35
SHB-2506	FIG-1	6	25	100	23	M5	0.35
SHB-2507	FIG-1	7	25	100	23	M5	0.34
SHB-2508	FIG-1	8	25	100	23	M5	0.33
SHB-2510	FIG-1	10	25	100	23	M5	0.31
SHB-2512	FIG-1	12	25	100	23	M5	0.28
SHB-2516	FIG-1	16	25	100	23	M5	0.22
SHB-2520	FIG-4	20	25	100	--	10	0.13

Inch

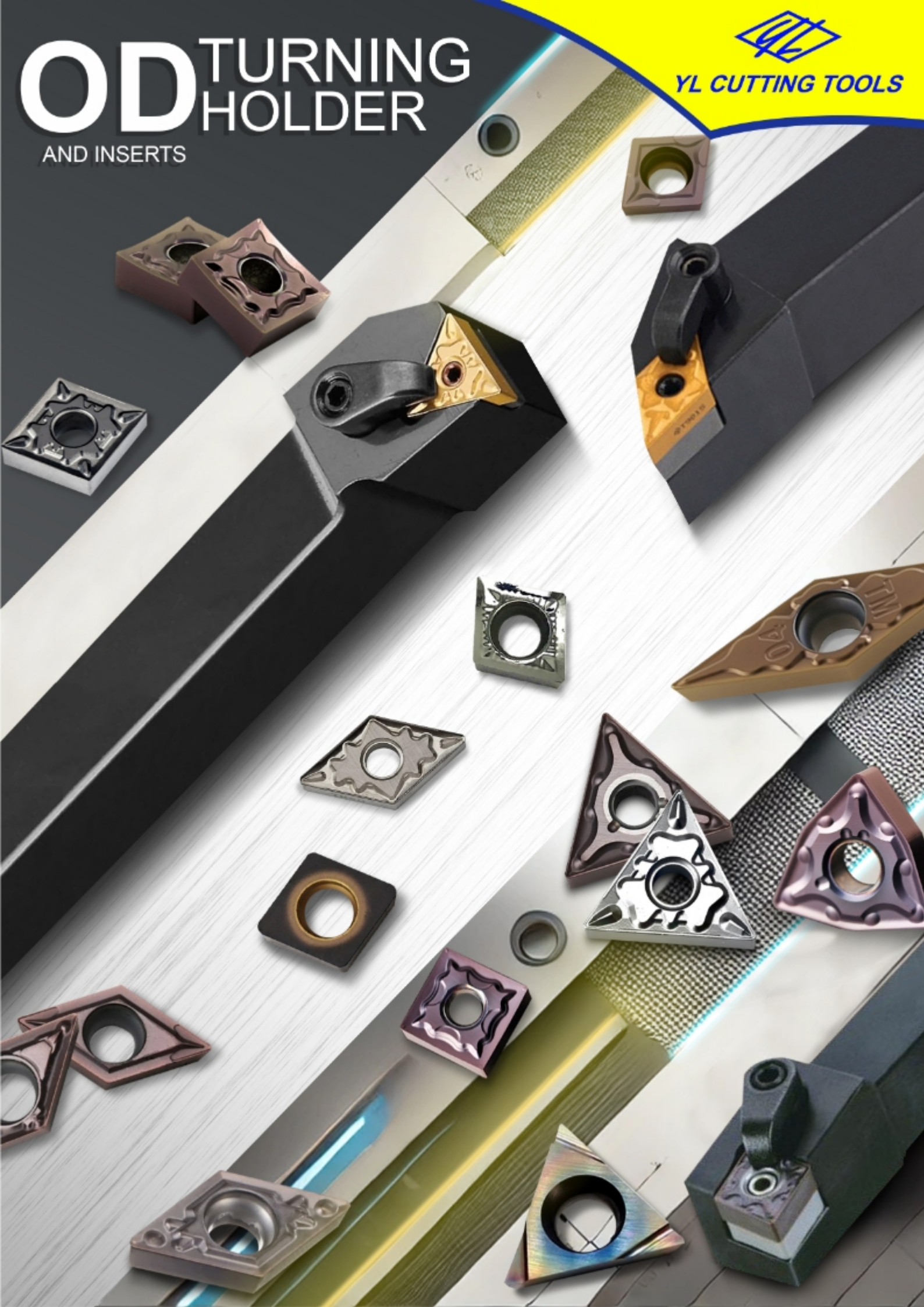
Product Specification							
Steel shank Item code	SHAPE	Dimensions,mm					Weight (KG)
無水孔Non-coolant		d	D	L	H	M	
SHBI-19.05-06	FIG-1	6	19.05	100	18	M5	0.20
SHBI-19.05-08	FIG-1	8	19.05	100	18	M5	0.19
SHBI-19.05-10	FIG-1	10	19.05	100	18	M5	0.20
SHBI-19.05-12	FIG-1	12	19.05	100	19	M5	0.19
SHBI-25.4-06	FIG-1	6	25.4	100	23	M5	0.37
SHBI-25.4-08	FIG-1	8	25.4	100	23	M5	0.34
SHBI-25.4-10	FIG-1	10	25.4	100	23	M5	0.33
SHBI-25.4-12	FIG-1	12	25.4	100	23	M5	0.29
SHBI-25.4-16	FIG-1	16	25.4	100	23	M5	0.24
SHBI-25.4-20	FIG-4	20	25.4	100	--	10	0.24

OD TURNING HOLDER

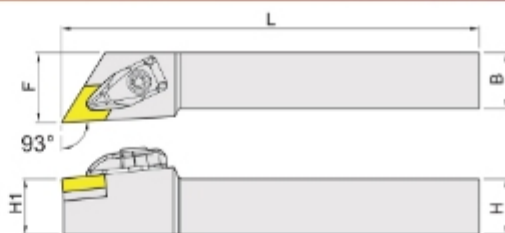
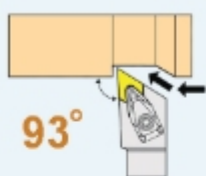
AND INSERTS



YL CUTTING TOOLS



DDJN DN..1504



Right-hand shown

Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Shim	Pin	Clamp	Screw	Wrench
	H(H1)	B	L	F							
DDJNR/L-2020K-1504	20	20	125	25	DN..1504..	0.45	MD1504 MD1506	CTM619	HL2114	ML0625	L3.0
DDJNR/L-2525M-1504	25	25	150	32		0.84					
DDJNR/L-3232P-1504	32	32	170	40		1.51					

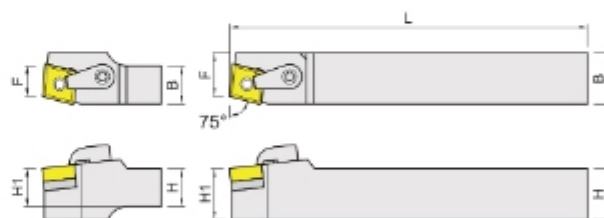
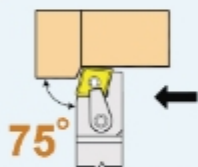
Enforced blade

Use	○	○	○	○	○	○	○	○	○	○	○
Insert shape											
Insert Code	DNMG150404MM DT6060	DNMG150404HQ DX650T	DNMG150404PZ DT2025	DNMA150408 DT3115	DNMG150408PZ DT2025	DNMA150412 DT3115					

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

MCBN CN..12



MCBNR/L-1616K-12

Right-hand shown

Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Shim	Pin	Clamp	Screw	Wrench
	H(H1)	B	L	F							
MCBNR/L-1616K-12	16	16	125	13	CN..1204..	0.29	MC1204	CTM617	HL1813	ML0625	L3.0
MCBNR/L-2020K-12	20	20	125	17		0.45					
MCBNR/L-2525M-12	25	25	150	22		0.84					
MCBNR/L-3232P-12	32	32	170	29		1.51					

Enforced blade

Use	○	○	○	○	○	○	○	○	○	○	○
Insert shape											
Insert Code	CNMG120404MA DT9030	CNMG120404HQ DX650T	CNMG120404MA DT8090	CNMG120404PZ DT2025	CNMG120408MA DT9030	CNMG120408HQ DX650T	CNMG120408MA DT8090	CNMG120408PZ DT2025			

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

MCKN CN..12



Right-hand shown

Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Shim	Pin	Clamp	Screw	Wrench
	H(H1)	B	L	F							
MCKNR/L-1616K-12	16	16	125	20	CN..1204..	0.29	MC1204	CTM617	HL1813	ML0625	L3.0
MCKNR/L-2020K-12	20	20	125	25		0.45					
MCKNR/L-2525M-12	25	25	150	32		0.84					
MCKNR/L-3232P-12	32	32	170	40		1.51					

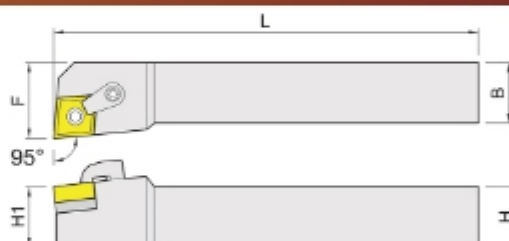
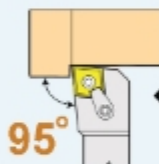
Enforced blade

Use				
Insert shape				
Insert Code	CNMG120404MA DT9030 CNMG120408MA DT9030	CNMG120404HQ DX650T CNMG120408HQ DX650T	CNMG120404MA DT8090 CNMG120408MA DT8090	CNMG120404PZ DT2025 CNMG120408PZ DT2025

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

MCLN CN..12



Right-hand shown

Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Shim	Pin	Clamp	Screw	Wrench
	H(H1)	B	L	F							
MCLNR/L-1616K-12	16	16	125	20	CN..1204..	0.29	MC1204	CTM617	HL1813	ML0625	L3.0
MCLNR/L-2020K-12	20	20	125	25		0.45					
MCLNR/L-2525M-12	25	25	150	32		0.84					
MCLNR/L-3232P-12	32	32	170	40		1.51					

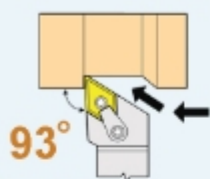
Enforced blade

Use				
Insert shape				
Insert Code	CNMG120404MA DT9030 CNMG120408MA DT9030	CNMG120404HQ DX650T CNMG120408HQ DX650T	CNMG120404MA DT8090 CNMG120408MA DT8090	CNMG120404PZ DT2025 CNMG120408PZ DT2025

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

MDJN DN..1504



Right-hand shown

Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Shim	Pin	Clamp	Screw	Wrench
	H(H1)	B	L	F							
MDJNR/L-2020K-1504	20	20	125	25	DN..1504..	0.45	MD1504	CTM619	HL2114	ML0625	L3.0
MDJNR/L-2525M-1504	25	25	150	32		0.84	MD1506				

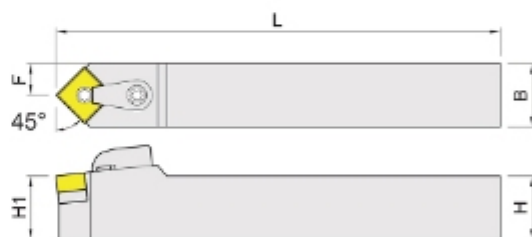
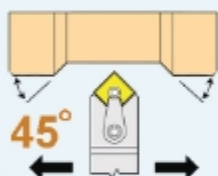
Enforced blade

Use				
Insert shape				
Insert Code	DNMG150404MM DT8060 DNMG150408MM DT8060	DNMG150404HQ DX650T	DNMG150404PZ DT2025 DNMG150408PZ DT2025	DNMA150408 DT3115 DNMA150412 DT3115

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

MSDN SN..12



Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Shim	Pin	Clamp	Screw	Wrench
	H(H1)	B	L	F							
MSDNN-1616K-12	16	16	125	8	SN..1204..	0.26	MS1204	CTM617	HL1813	ML0625	L3.0
MSDNN-2020K-12	20	20	125	10		0.41					
MSDNN-2525M-12	25	25	150	12.5		0.77					

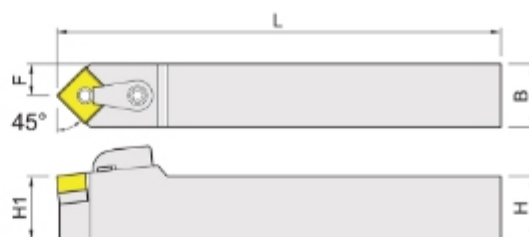
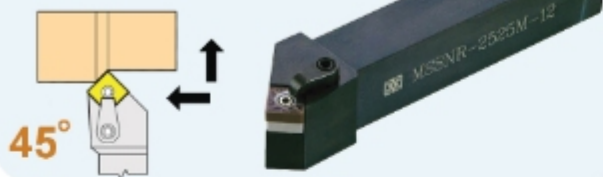
Enforced blade

Use				
Insert shape				
Insert Code	SNMG120404HA DT9030 SNMG120408HA DT9030	SNMG120404MA DT8090 SNMG120408MA DT8090	SNMG120404PZ DT2025 SNMG120408PZ DT2025	

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

MSSN SN..12



Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Shim	Pin	Clamp	Screw	Wrench
	H(H1)	B	L	F							
MSSNR/L-1616K-12	16	16	125	20	SN..1204..	0.29	MS1204	M6X21	HLD-1	M6 x 9P	L3.0
MSSNR/L-2020K-12	20	20	125	25		0.45					
MSSNR/L-2525M-12	25	25	150	32		0.84					

Enforced blade

Use				
Insert shape				
Insert Code	SNMG120404HA DT9030 SNMG120408HA DT9030	SNMG120404MA DT8090 SNMG120408MA DT8090	SNMG120404PZ DT2025 SNMG120408PZ DT2025	

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

MTFN TN..16



Right-hand shown

Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Shim	Pin	Clamp	Screw	Wrench
	H(H1)	B	L	F							
MTFNR/L-1616K-16	16	16	125	20	TN..1604..	0.29	TN1603	CTM513	HL1813	ML0625	L2.0 L3.0
MTFNR/L-2020K-16	20	20	125	25		0.45					
MTFNR/L-2525M-16	25	25	150	32		0.84					

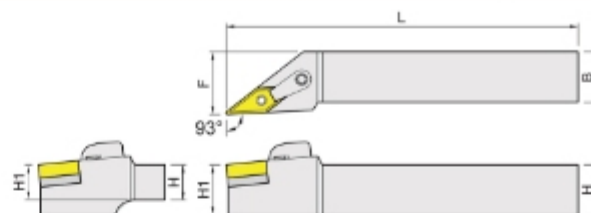
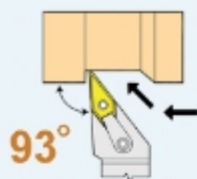
Enforced blade

Use				
Insert shape				
Insert Code	TNMG160404MA DT9030 TNMG160408MA DT9030	TNMG160404HQ DX650T TNMG160408HQ DX650T	TNMG160404MZ DT9095 TNMG160408MZ DT9095	TNMG160404PZ DT2025 TNMG160408PZ DT2025

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

MVJN VN..16



MVJNR/L-1216K-16

Right-hand shown

Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Shim	Pin	Clamp	Screw	Wrench
	H(H1)	B	L	F							
MVJNR/L-1216K-16	12	16	125	21	VN..1604..	0.14	MV1603	CTM513	HL2414	ML0625	L2.0 L3.0
MVJNR/L-1616K-16	16	16	125	21		0.29					
MVJNR/L-2020K-16	20	20	125	25		0.45					
MVJNR/L-2525M-16	25	25	150	32		0.84					
MVJNR/L-3232P-16	32	32	170	40		1.51					

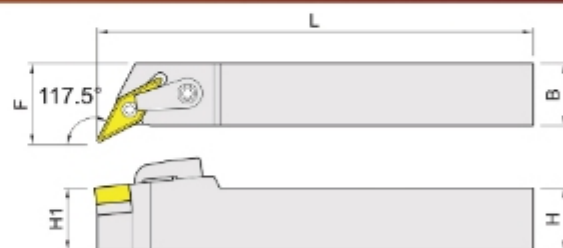
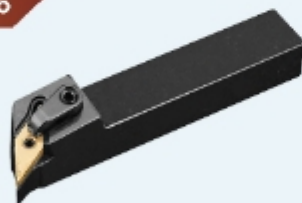
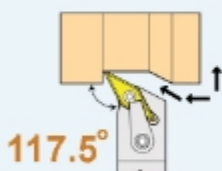
Enforced blade

Use	    	    	    	    
Insert shape				
Insert Code	VNMG160404MA DT8090 VNMG160408MA DT8090	VNMG160404MT DX650T	VNMG160404MZ DT9095 VNMG160408MZ DT9095	VNMG160404PZ DT2025 VNMG160408PZ DT2025

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

MVQN VN..16



Right-hand shown

Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Shim	Pin	Clamp	Screw	Wrench
	H(H1)	B	L	F							
MVQNR/L-2020K-16	20	20	125	25	VN..1604..	0.45	MV1603	CTM513	HL3225	ML0625	L2.0 L3.0
MVQNR/L-2525M-16	25	25	150	32		0.84					
MVQNR/L-3232P-16	32	32	170	40		1.51					

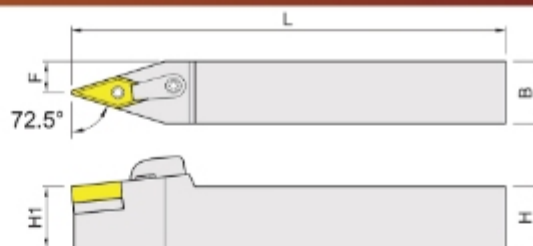
Enforced blade

Use	    	    	    	    
Insert shape				
Insert Code	VNMG160404MA DT8090 VNMG160408MA DT8090	VNMG160404MT DX650T	VNMG160404MZ DT9095 VNMG160408MZ DT9095	VNMG160404PZ DT2025 VNMG160408PZ DT2025

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

MVVNN VN..16



Neutral

Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Shim	Pin	Clamp	Screw	Wrench
	H(H1)	B	L	F							
MVVNN-1616K-16	16	16	125	8	VN..1604..	0.29	MV1603	CTM513	HL3225	ML0625	L2.0 L3.0
MVVNN-2020K-16	20	20	125	10		0.45					
MVVNN-2525M-16	25	25	150	12.5		0.84					

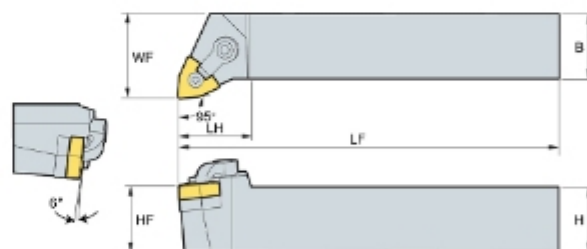
Enforced blade

Use	○●○●○●	○●○●○●	○●○●○●	○●○●○●
Insert shape				
Insert Code	VNMG160404MA DT8090 VNMG160408MA DT8090	VNMG160404MT DX650T	VNMG160404MZ DT9095 VNMG160408MZ DT9095	VNMG160404PZ DT2025 VNMG160408PZ DT2025

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

MWLNR/L WN..08



Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Shim	Pin	Clamp	Screw	Wrench
	H(H1)	B	L	F							
MWLNR/L2020K08	20	20	125	32	WN..0804..	0.45	MW0804	CTM617	HL1813	ML0625	L3.0
MWLNR/L2525M08	25	25	150	32		0.84					
MWLNR/L3232P08	32	32	170	32		1.51					
MWLNR/L4040R08	40	40	200	20		1.51					

Enforced blade

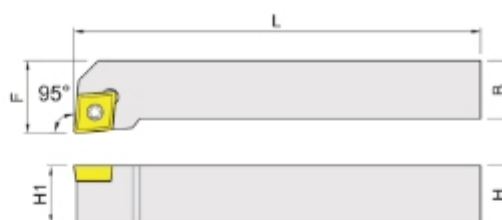
Use	○●○●○●	○●○●○●	○●○●○●	○●○●○●
Insert shape				
Insert Code	WNMG080404MA DT9030 WNMG080408MA DT9030	WNMA080408 DT3115 WNMA080412 DT3115	WNMG080404MA DT8090 WNMG080408MA DT8090	WNMG080404PZ DT2025 WNMG080408PZ DT2025

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

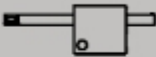
SCLC

CC..06



Right-hand shown

Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Screw 	Wrench 
	H(H1)	B	L	F				
SCLCR/L-1010H-06	10	10	100	12	CC..0602..	0.08	M2.5 x 7	T8
SCLCR/L-1010K-06	10	10	125	12		0.11		

Enforced blade

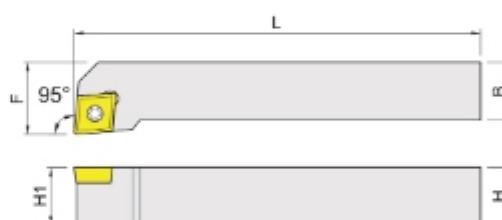
Use										
Insert shape										
Insert Code	CCMT060202EM DT9030 CCMT060204EM DT9030	CCMT060202HQ DX650T CCMT060204HQ DX650T	CCMT060202PZ DT2025 CCMT060204PZ DT2025	CCMT060202AK DA01 CCMT060204AK DA01	CCMT060202EM DT9030 CCMT060204EM DT9030	CCMT060202HQ DX650T CCMT060204HQ DX650T	CCMT060202PZ DT2025 CCMT060204PZ DT2025	CCMT060202AK DA01 CCMT060204AK DA01	CCMT060202EM DT9030 CCMT060204EM DT9030	CCMT060202HQ DX650T CCMT060204HQ DX650T

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

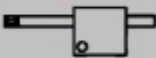
SCLC

CC..09



Right-hand shown

Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Screw 	Wrench 
	H(H1)	B	L	F				
SCLCR/L-1212H-09	12	12	100	16	CC..09T3..	0.11	M4 x 10	T15
SCLCR/L-1212K-09	12	12	125	16		0.14		
SCLCR/L-1616K-09	16	16	125	20		0.26		
SCLCR/L-2020K-09	20	20	125	25		0.41		
SCLCR/L-2525M-09	25	25	150	32		0.77		

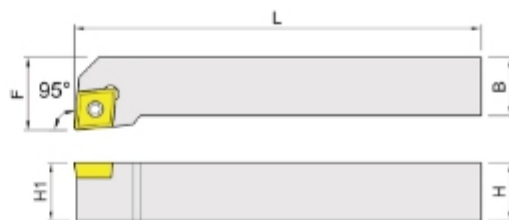
Enforced blade

Use										
Insert shape										
Insert Code	CCMT09T302EM DT9030 CCMT09T304EM DT9030	CCMT09T302HQ DX650T CCMT09T304HQ DX650T	CCMT09T302PZ DT2025 CCMT09T304PZ DT2025	CCMT09T302AK DA01 CCMT09T304AK DA01	CCMT09T302EM DT9030 CCMT09T304EM DT9030	CCMT09T302HQ DX650T CCMT09T304HQ DX650T	CCMT09T302PZ DT2025 CCMT09T304PZ DT2025	CCMT09T302AK DA01 CCMT09T304AK DA01	CCMT09T302EM DT9030 CCMT09T304EM DT9030	CCMT09T302HQ DX650T CCMT09T304HQ DX650T

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

SCLC CC..12



Right-hand shown

Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Screw 	Wrench 
	H(H1)	B	L	F				
SCLCR/L-2020K-12	20	20	125	25	CC..1204..	0.41	M5 x 12	T20
SCLCR/L-2525M-12	25	25	150	32		0.77		
SCLCR/L-3232P-12	32	32	170	40		1.43		

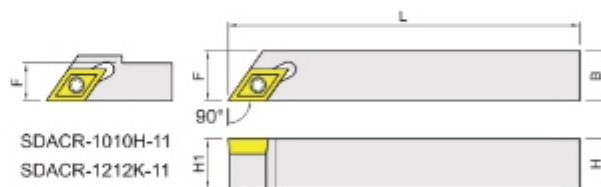
Enforced blade

Use				
Insert shape				
Insert Code	CCMT120404EM DT9030 CCMT120408EM DT9030	CCMW120408 DT13115	CCGT120404AK DA01 CCGT120408AK DA01	

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

SDAC DC..07



Right-hand shown

Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Screw 	Wrench 
	H(H1)	B	L	F				
SDACR/L-1010H-07	10	10	100	10	DC..0702..	0.08	M2.5 x 7	T8
SDACR/L-1212K-07	12	12	125	12		0.14		
SDACR/L-1616K-07	16	16	125	16		0.25		

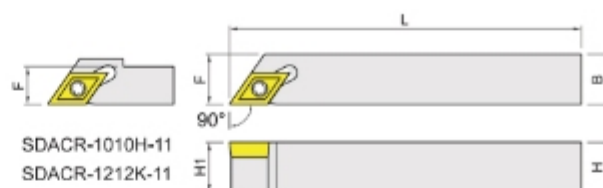
Enforced blade

Use				
Insert shape				
Insert Code	DCMT070204MV DT9030	DCMT070204HQ DX650T	DCMT070204PZ DT2025	DCGT070204AK DA01

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

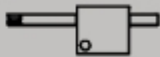
SDAC DC..11



SDACR-1010H-11
SDACR-1212K-11

Right-hand shown

Product Specification

Item code	Dimensions, mm				Insert	Weight (KG)	Screw 	Wrench 
	H(H1)	B	L	F				
SDACR-1010H-11	10	10	100	10	DC..11T3..	0.08	M4 x 10	T15
SDACR-1212K-11	12	12	125	12		0.14		
SDACR-1616K-11	16	16	125	16		0.25		
SDACR-2020K-11	20	20	125	20		0.39		

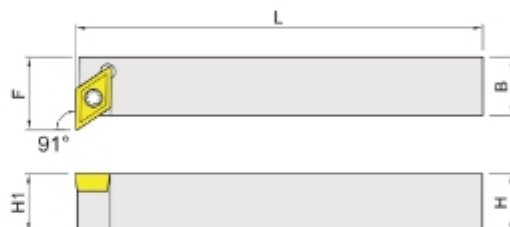
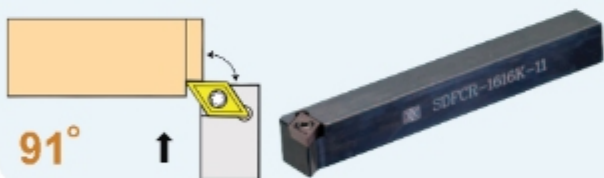
Enforced blade

Use																																																																																																																																																																																											
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Recommended Cutting Conditions

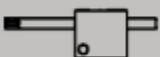
Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

SDFC DC..07



Right-hand shown

Product Specification

Item code	Dimensions, mm				Insert	Weight (KG)	Screw 	Wrench 
	H(H1)	B	L	F				
SDFCR/L-1212K-07	12	12	125	16	DC..0702..	0.08	M2.5 x 7	T8

Enforced blade

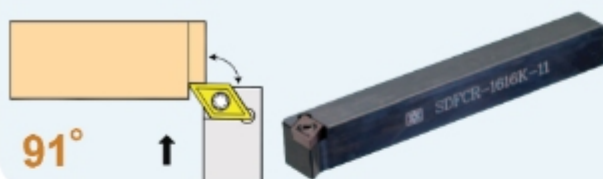
Use																			
Insert shape																			
Insert Code	DCMT070204MV DT9030	DCMT070204HQ DX650T	DCMT070204PZ DT2025	DCGT070204AK DA01															

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

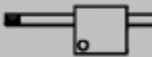
SDFC

DC..11

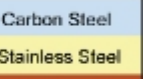
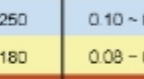


Right-hand shown

Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Screw 	Wrench 
	H(H1)	B	L	F				
SDFCR/L-1212K-11	12	12	125	19	DC..11T3...	0.15	M4 x 10	T15
SDFCR/L-1616K-11	16	16	125	20		0.26		

Enforced blade

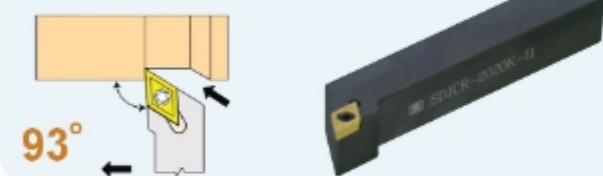
Use										
Insert shape										
Insert Code	DCMT11T304EM DT9030 DCMT11T308EM DT9030		DCMT11T304HQ DX650T		DCMT11T304PZ DT2025 DCMT11T308PZ DT2025		DCGT11T304AK DA01 DCGT11T308AK DA01			

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

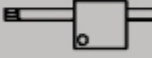
SDJC

DC..07

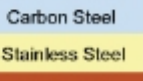
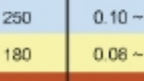


Right-hand shown

Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Screw 	Wrench 
	H(H1)	B	L	F				
SDJCR/L-1010H-07	10	10	100	12	DC..0702...	0.08	M2.5 x 7	T8
SDJCR/L-1212H-07	12	12	100	16		0.12		
SDJCR/L-1212K-07	12	12	125	16		0.15		
SDJCR/L-1616K-07	16	16	125	20		0.26		
SDJCR/L-2020K-07	20	20	125	25		0.41		

Enforced blade

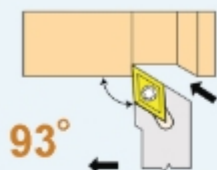
Use										
Insert shape										
Insert Code	DCMT070204MV DT9030		DCMT070204HQ DX650T		DCMT070204PZ DT2025		DCGT070204AK DA01			

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

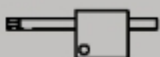
SDJC

DC..11



Right-hand shown

Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Screw 	Wrench 
	H(H1)	B	L	F				
SDJCR/L-1010K-11	10	10	125	12	DC..11T3..	0.08	M4 x 10	T15
SDJCR/L-1212H-11	12	12	100	16		0.12		
SDJCR/L-1212K-11	12	12	125	16		0.15		
SDJCR/L-1616K-11	16	16	125	20		0.26		
SDJCR/L-2020K-11	20	20	125	25		0.41		
SDJCR/L-2525M-11	25	25	150	32		0.77		
SDJCR/L-3232P-11	32	32	170	40		1.37		

Enforced blade

Use												
Insert shape												
Insert Code	DCMT11T304EM DT9030 DCMT11T308EM DT9030				DCMT11T304HQ DX650T				DCMT11T304PZ DT2025 DCMT11T308PZ DT2025			

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

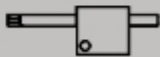
SDNC

DC..07



Neutral

Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Screw 	Wrench 
	H(H1)	B	L	F				
SDNCN-1010H-07	10	10	100	5	DC..0702..	0.08	M2.5 x 7	T8
SDNCN-1212H-07	12	12	100	6		0.12		
SDNCN-1616K-07	16	16	125	8		0.26		

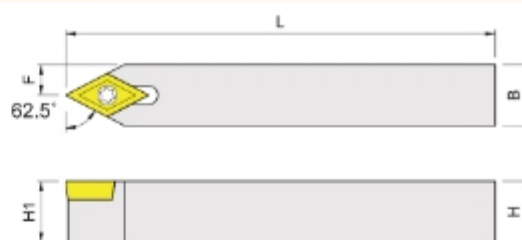
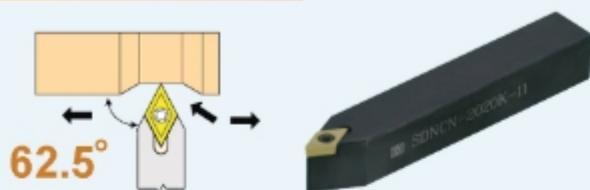
Enforced blade

Use												
Insert shape												
Insert Code	DCMT070204MV DT9030				DCMT070204HQ DX650T				DCMT070204PZ DT2025			

Recommended Cutting Conditions

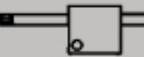
Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

SDNC DC..11



Neutral

Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Screw 	Wrench 
	H(H1)	B	L	F				
SDNCN-1212H-11	12	12	100	6	DC..11T3..	0.12	M4 x 10	T15
SDNCN-1212K-11	12	12	125	8		0.12		
SDNCN-1616K-11	16	16	125	8		0.26		
SDNCN-2020K-11	20	20	125	10		0.41		
SDNCN-2525M-11	25	25	150	12.5		0.77		

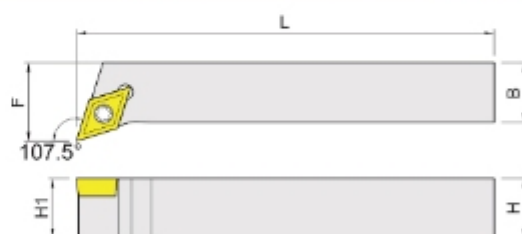
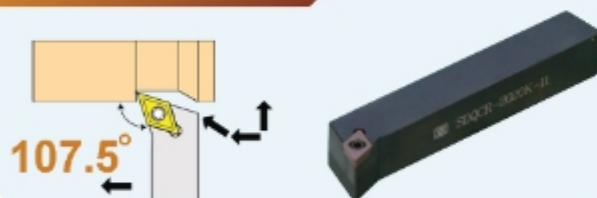
Enforced blade

Use																																																																																																																																																																																								
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Recommended Cutting Conditions

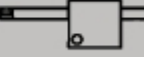
Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

SDQC DC..11



Right-hand shown

Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Screw 	Wrench 
	H(H1)	B	L	F				
SDQCR/L-1212H-11	12	12	100	16	DC..11T3..	0.12	M4	T8
SDQCR/L-1616K-11	16	16	125	20		0.26		
SDQCR/L-2020K-11	20	20	125	25		0.41		
SDQCR/L-2525M-11	25	25	150	32		0.77		

Enforced blade

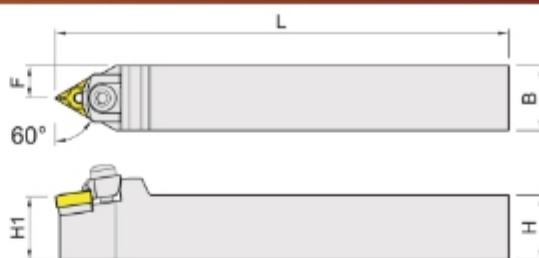
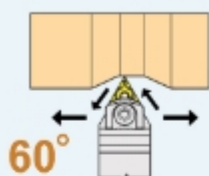
Use																																																																																																																																					
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Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

WTEN

TN..16



Neutral

Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Shim	Pin	Clamp	Screw	Wrench
	H(H1)	B	L	F							
WTENR/L-1616K-16	16	16	125	20	TN..1604..	0.29	MT1603	CTM513	HL1813	ML0625	L2.0 L3.0
WTENR/L-2020K-16	20	20	125	25		0.45					
WTENR/L-2525M-16	25	25	150	32		0.84					

Enforced blade

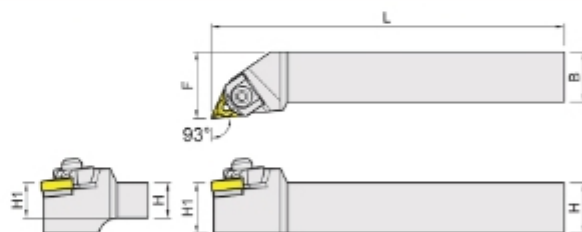
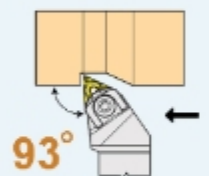
Use	○	○	○	○	○	○	○	○	○	○	○
Insert shape											
Insert Code	TNMG160404MA DT9030 TNMG160408MA DT9030	TNMG160404HQ DX650T TNMG160408HQ DX650T	TNMG160404MZ DT9095 TNMG160408MZ DT9095	TNMG160404PZ DT2025 TNMG160408PZ DT2025							

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

WTJN

TN..16



MTJNR-1216K-16

Right-hand shown

Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Shim	Pin	Clamp	Screw	Wrench
	H(H1)	B	L	F							
WTJNR/L-1616H-16	16	16	100	21	TN..1604..	0.29	MT1603	CT515-T	HLT-16	M5 x 23	L2.5 L4.0
WTJNR/L-2020K-16	20	20	125	25		0.45					
WTJNR/L-2525M-16	25	25	150	32		0.84					
WTJNR/L-3232P-16	32	32	170	40		1.51					

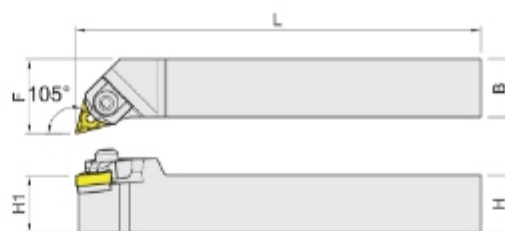
Enforced blade

Use	○	○	○	○	○	○	○	○	○	○	○
Insert shape											
Insert Code	TNMG160404MA DT9030 TNMG160408MA DT9030	TNMG160404HQ DX650T TNMG160408HQ DX650T	TNMG160404MZ DT9095 TNMG160408MZ DT9095	TNMG160404PZ DT2025 TNMG160408PZ DT2025							

Recommended Cutting Conditions

Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

WTQN TN..16



Right-hand shown

Product Specification

Item code	Dimensions,mm				Insert	Weight (KG)	Shim	Pin	Clamp	Screw	Wrench
	H(H1)	B	L	F							
WTQNR/L-1616H-16	16	16	100	21	TN..1604..	0.29	TN1603	CT515-T	HLT-16	MX x 23	L2.0 L4.0
WTQNR/L-2020K-16	20	20	125	25		0.45					
WTQNR/L-2525M-16	25	25	150	32		0.84					

Enforced blade

Use	○ ●	○ ●	○ ●	○ ●
Insert shape				
Insert Code	TNMG160404MA DT9030 TNMG160408MA DT9030	TNMG160404HQ DX650T TNMG160408HQ DX650T	TNMG160404MZ DT9095 TNMG160408MZ DT9095	TNMG160404PZ DT2025 TNMG160408PZ DT2025

Recommended Cutting Conditions

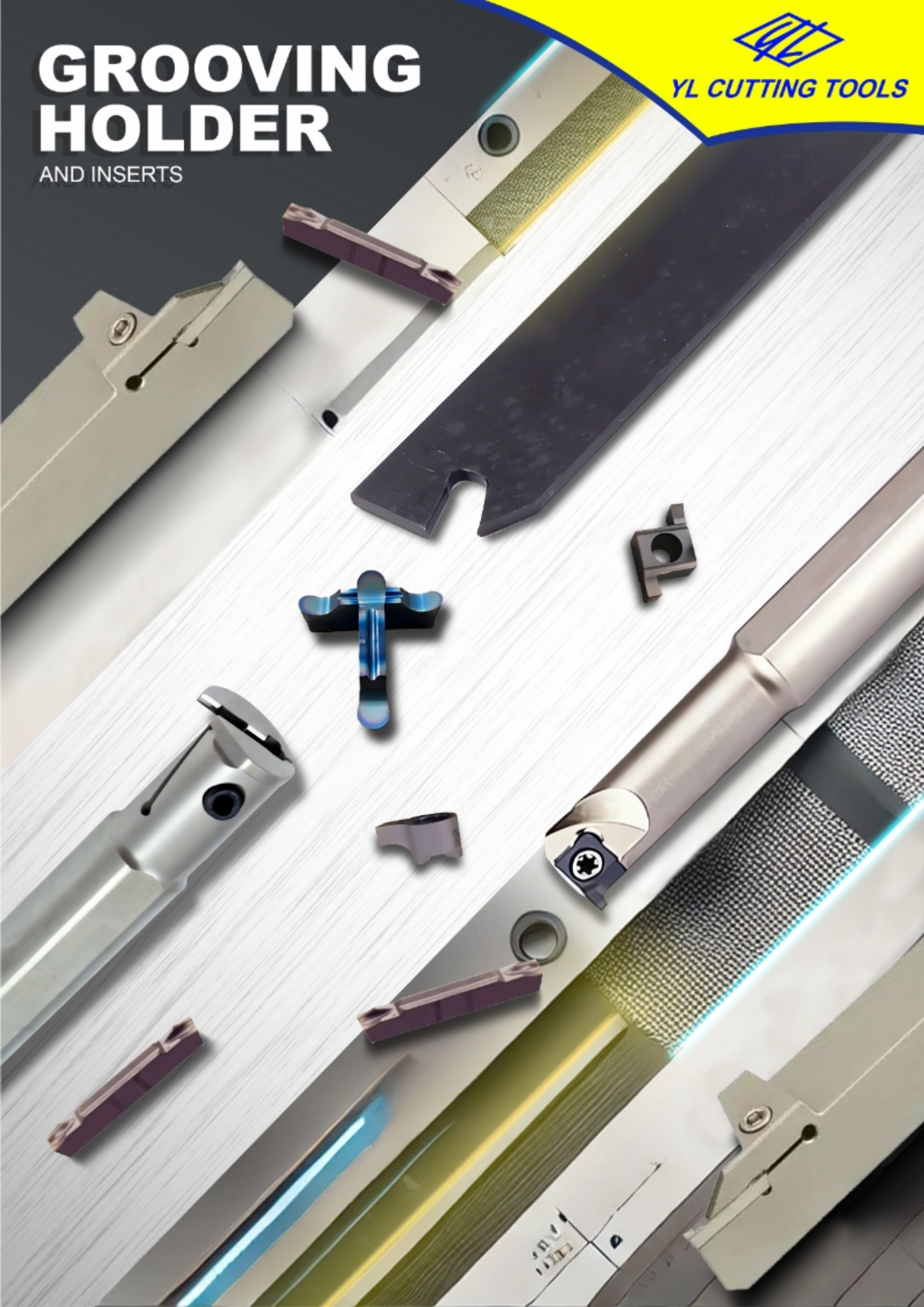
Working Material	Vc	fz
Carbon Steel	120 ~ 250	0.10 ~ 0.30
Stainless Steel	100 ~ 180	0.08 ~ 0.25
Cast Iron	120 ~ 250	0.10 ~ 0.30
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40

GROOVING HOLDER

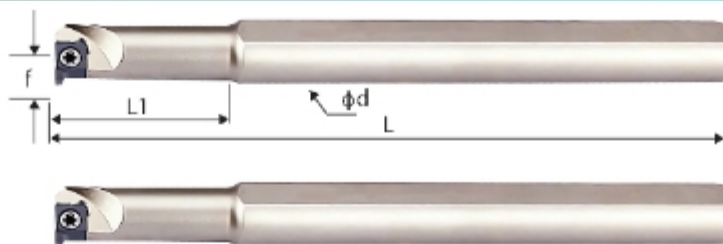
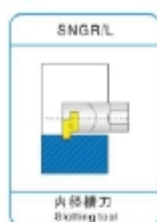
AND INSERTS



YL CUTTING TOOLS



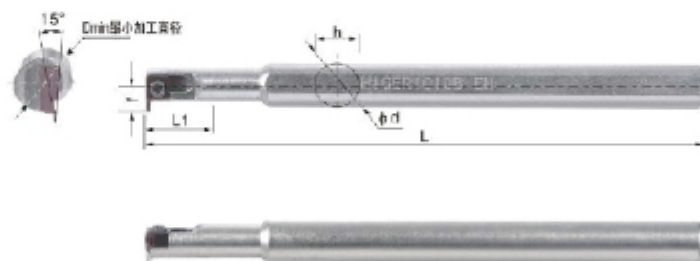
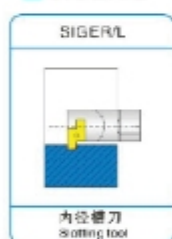
■ SNGR/L



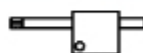
Product Specification

型號 Type	刀片 Blade	規格 Specification					螺絲 Screw	扳手 Wrench
		φD	f	L1	L	H		
SNGR/L08J07	7GR/L	8	5.8	15	110	7	M2.5 x 6	T8
SNGR/L10K07		8	6.8	15	125	9		
SNGR/L10K08	8GR/L	10	7.6	15	125	9	M2.5 x 7	
SNGR/L12M08		12	8.6	20	150	11		
SNGR/L16N08	9GR/L	16	10.5	20	160	14.8		
SNGR/L12M09		12	9.3	20	150	11		
SNGR/L14N09		14	10.3	20	160	13		
SNGR/L16Q09		16	11.3	20	160	14.8		
SNGR/L20R09		20	13.3	20	200	18.4		

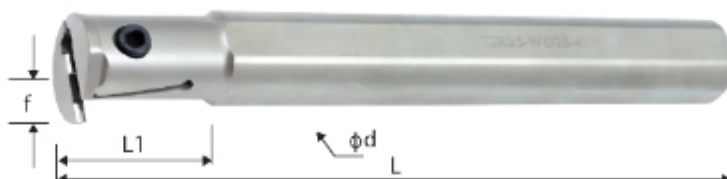
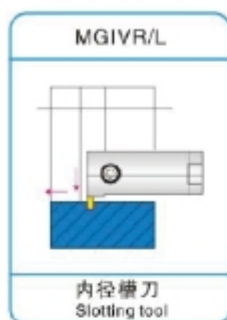
■ SIGER/L



Product Specification

型號 Type	刀片 Blade	規格 Specification					螺絲 Screw	板手 Wrench
		φD	f	L1	L	H		
SIGER/L0808A-EH	GER□□-A	8	8	20	125	7	M2.5 x 4	T6
SIGER/L1010B-EH	GER□□-B	10	10	25	125	9	M2.5 x 6	T8
SIGER/L1210B-EH		10	12	30	125	9		
SIGER/L1212B-EH		12	12	30	125	11		
SIGER/L1412C-EH	GER□□-C	12	12	33	150	11	M2.5 x 7	
SIGER/L1612C-EH		12	12	33	150	11		
SIGER/L1616C-EH		16	16	33	160	14.8		
SIGER/L2020D-EH	GER□□-D	20	20	45	180	18.4	M3 x 8	
SIGER/L2025D-EH		25	20	45	200	23.4		
SIGER/L2520E-EH	GER□□-E	20	25	50	180	18.4	M4 x 10	T15
SIGER/L2525E-EH		25	25	50	200	23.4		
SIGER/L3232E-EH			32	32	55	220		

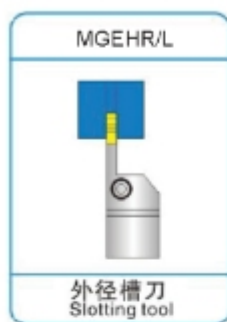
MGIVR/L



Product Specification

型號 Type	刀片 Blade	規格 Specification				螺絲 Screw	扳手 Wrench
		w	φd	L1	L		
MGIVR/L2016-1.5T8	MGMN150	1.5	16	15	160	M4 x 13	L3
MGIVR/L2520-1.5T8		1.5	20	16	180	M5 x 15	L4
MGIVR/L3125-1.5T8		1.5	25	18.25	200		
MGIVR/L2016-2T8	MGMN200	2	16	15	160	M4 x 13	L3
MGIVR/L2520-2T8		2	20	16	180	M5 x 15	L4
MGIVR/L3125-2T8		2	25	18.25	200		
MGIVR/L3732-2T8		2	32	20.5	250	M6 x 20	L5
MGIVR/L2016-2.5T8	MGMN250	2.5	16	15	160	M4 x 13	L3
MGIVR/L2520-2.5T8		2.5	20	16	180	M5 x 15	L4
MGIVR/L3125-2.5T8		2.5	25	18.25	200		
MGIVR/L3732-2.5T8		2.5	32	20.5	250	M6 x 20	L5
MGIVR/L2016-3T8	MGMN300	3	16	15	160	M4 x 13	L3
MGIVR/L2520-3T8		3	20	16.6	180	M5 x 15	L4
MGIVR/L3125-3T8		3	25	18.3	200		
MGIVR/L3732-3T8		3	32	21.5	250	M6 x 20	L5
MGIVR/L4540-3T8		3	40	27.2	300		
MGIVR/L2016-4T8	MGMN400	4	16	15	160	M4 x 13	L3
MGIVR/L2520-4T8		4	20	16.6	180	M5 x 15	L4
MGIVR/L3125-4T10		4	25	18.3	200		
MGIVR/L3732-4T12		4	32	21.5	250	M6 x 20	L5
MGIVR/L4540-4T15		4	40	27.2	300		
MGIVR/L3125-5T10	MGMN500	5	25	18.3	200	M5 x 15	L4
MGIVR/L3732-5T12		5	32	21.5	250	M6 x 20	L5
MGIVR/L4540-5T15		5	40	27.2	300		

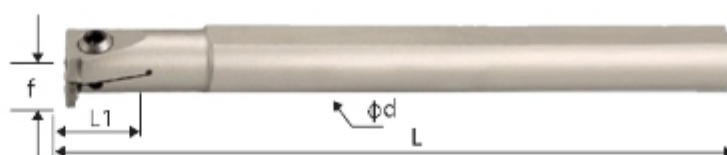
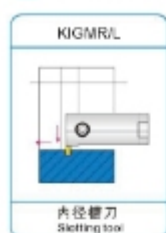
MGEHR/L



Product Specification

型號 Type	刀片 Blade	規格 Specification							螺絲 Screw	扳手 Wrench
		w	b	h	L	h1	f	Tmax		
MGEHR/L1010J-1.5T12	MGMN150	1.5	10	10	110	10	10	12	M4 x 16	L3
MGEHR/L1212J-1.5T12			12	12	110	12	12	12		
MGEHR/L1616-1.5T13			16	16	100	16	16	13		
MGEHR/L2020-1.5T13	MGMN150	1.5	20	20	125	20	20	13	M5 x 20	L4
MGEHR/L2525-1.5T13			25	25	150	25	25	13		
MGEHR/L1010J-2T12	MGMN200	2	10	10	110	10	10	12	M4 x 16	L3
MGEHR/L1212J-2T12			12	12	110	12	12	12		
MGEHR/L1616-2T12			16	16	100	16	16	16	M5 x 20	L4
MGEHR/L2020-2T12			20	20	125	20	20	16		
MGEHR/L2525-2T12			25	25	150	25	25	16		
MGEHR/L1010J-2.5T12	MGMN250	2.5	10	10	110	10	10	12	M4 x 16	L3
MGEHR/L1212J-2.5T12			12	12	110	12	12	12		
MGEHR/L1616-2.5T18			16	16	100	16	16	18	M5 x 20	L4
MGEHR/L2020-2.5T18			20	20	125	20	20	18		
MGEHR/L2525-2.5T18			25	25	150	25	25	18		
MGEHR/L1010J-3T12	MGMN300	3	10	10	110	10	10	12	M4 x 16	L3
MGEHR/L1212J-3T12			12	12	110	12	12	12		
MGEHR/L1616-3T20			16	16	100	16	16	20	M5 x 20	L4
MGEHR/L2020-3T20			20	20	125	20	20	20		
MGEHR/L2525-3T20			25	25	150	25	25	20		
MGEHR/L3232-3T20			32	32	170	32	32	20	M6 x 20	L5

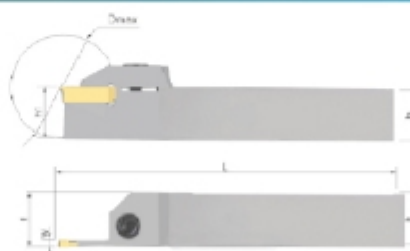
KIGMR/L



Product Specification

型號 Type	刀片 Blade	規格 Specification						螺絲 Screw	扳手 Wrench
		w	φd	f	L	L1	h		
KIGMR/L2016-2T8	GMM2020	2	16	12.4	180	38	14.8	M4 x 13	L3
KIGMR/L2520-2T8		2	20	14	180	45	18.4	M5 x 15	L4
KIGMR/L3125-2T8		2	25	17.25	200	50	23.4		
KIGMR/L3732-2T8		2	32	20.5	250	70	30	M6 x 20	L5
KIGMR/L2016-3T8	GMM3020	3	16	15	110	38	14.8	M4 x 13	L3
KIGMR/L2520-3T8		3	20	15.6	180	45	18.4	M5 x 15	L4
KIGMR/L3125-3T8		3	25	18.9	200	50	23.4		
KIGMR/L3732-3T8		3	32	21.5	250	65	30	M6 x 20	L5
KIGMR/L4540-3T8		3	40	27.2	300	70	38		
KIGMR/L2016-4T8	GMM4020	4	16	15	180	38	14.8	M4 x 13	L3
KIGMR/L2520-4T8		4	20	15.6	180	45	18.4	M5 x 15	L4
KIGMR/L3125-4T8		4	25	18.9	200	50	23.4		
KIGMR/L3732-4T8		4	32	21.5	250	65	30	M6 x 20	L6
KIGMR/L4540-4T8		4	40	27.2	300	70	38		

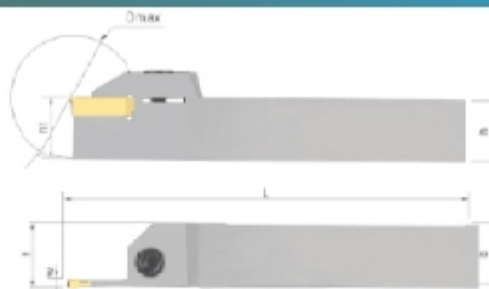
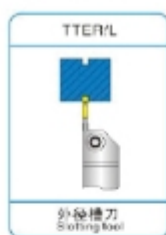
CGWSR/L



Product Specification

型號 Type	刀片 Blade	規格 Specification							螺絲 Screw	扳手 Wrench
		w	b	h	L	h1	f	Tmax		
CGWSR/L1616-2T20	MGE20	2	16	16	100	16	16	20	M5 x 20	L4
CGWSR/L2020-2T20		2	20	20	125	20	20	20		
CGWSR/L2525-2T20		2	25	25	150	25	25	20		
CGWSR/L1616-3T20	MGE30	3	16	16	100	16	16	20		
CGWSR/L2020-3T20		3	20	20	125	20	20	20		
CGWSR/L2525-3T20		3	25	25	150	25	25	20		
CGWSR/L1616-4T25	MGE40	4	16	16	100	16	16	25		
CGWSR/L2020-4T25		4	20	20	125	20	20	25		
CGWSR/L2525-4T25		4	25	25	150	25	25	25		

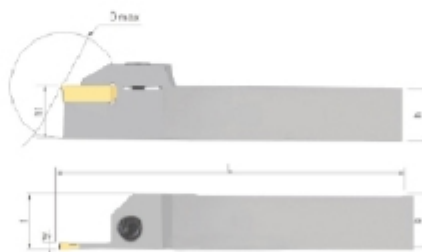
TTER/L



Product Specification

型號 Type	刀片 Blade	規格 Specification							螺絲 Screw	扳手 Wrench
		w	b	h	L	h1	f	Tmax		
TTER/L1010J-2T12	TDJ2	2	10	10	110	10	10	12	M4 x 16	L3
TTER/L1212J-2T12		2	12	12	110	12	12	12		
TTER/L1616-2T17		2	16	16	100	16	16	17	M5 x 20	L4
TTER/L2020-2T17		2	20	20	125	20	20	17		
TTER/L2525-2T17		2	25	25	150	25	25	17		
TTER/L1010J-3T12	TDJ3	3	10	10	110	10	10	12	M4 x 16	L3
TTER/L1212J-3T12		3	12	12	110	12	12	12		
TTER/L1616-3T20		3	16	16	100	16	16	20	M5 x 20	L4
TTER/L2020-3T20		3	20	20	125	20	20	20		
TTER/L2525-3T20		3	25	25	150	25	25	20		
TTER/L1616-4T20	TDJ4	4	16	16	100	16	16	20	M5 x 20	L4
TTER/L2020-4T20		4	20	20	125	20	20	20		
TTER/L2525-4T20		4	25	25	150	25	25	20		

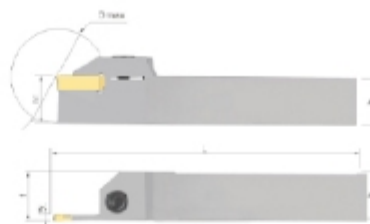
GYHR



Product Specification

型號 Type	刀片 Blade	規格 Specification							螺絲 Screw	扳手 Wrench
		w	b	h	L	h1	f	Tmax		
GYHR/L1616-2T16	GY2M0200	2	16	16	100	16	16	16	M5 x 20	L4
GYHR/L2020-2T16		2	20	20	125	20	20	16		
GYHR/L2525-2T16		2	25	25	150	25	25	16		
GYHR/L1616-3T20	GY2M0300	3	16	16	100	16	16	20		
GYHR/L2020-3T20		3	20	20	125	20	20	20		
GYHR/L2525-3T20		3	25	25	150	25	25	20		
GYHR/L1616-4T20	GY2M0400	4	16	16	100	16	16	20		
GYHR/L2020-4T20		4	20	20	125	20	20	20		
GYHR/L2525-4T20		4	25	25	150	25	25	20		

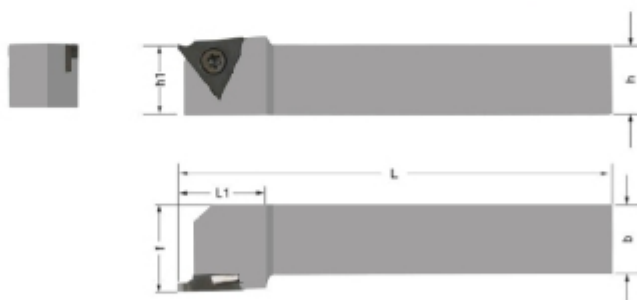
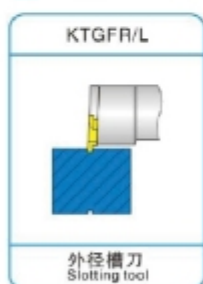
■ DGTR/L □ □



Product Specification

型號 Type	刀片 Blade	規格 Specification							螺絲 Screw	扳手 Wrench
		w	b	h	L	h1	f	Tmax		
DGTR1010J-2T12	DGN2202	2	10	10	110	10	10	12	M4 x 16	L3
DGTR1212J-2T12		2	12	12	110	12	12	12		
DGTR1616-2T18		2	16	16	100	16	16	17	M5 x 20	L4
DGTR2020-2T18		2	20	20	125	20	20	17		
DGTR2525-2T18		2	25	25	150	25	25	17		
DGTR1616-3T20	DGN3002	3	10	10	110	10	10	12		
DGTR2020-3T20		3	12	12	110	12	12	12		
DGTR2525-3T20		3	16	16	100	16	16	20		
DGTR1616-4T20	DGN4002	3	20	20	125	20	20	20		
DGTR2020-4T20		3	25	25	150	25	25	20		
DGTR2525-4T20		4	16	16	100	16	16	20		

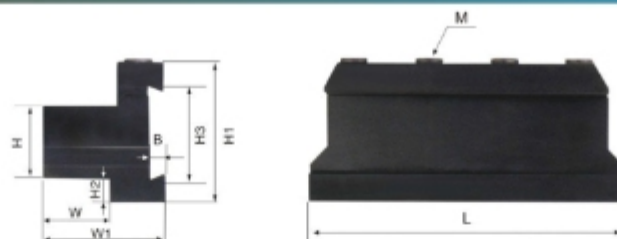
■ KTGF/R/L



Product Specification

型號 Type	刀片 Blade	規格 Specification						螺絲 Screw	扳手 Wrench
		b	h	L	L1	h1	f		
KTGF/L1616H16	TGF32R/L	16	16	100	22	16	20	M4 x 10	T15
KTGF/L2020K16		20	20	125	22	20	25		
KTGF/L2525M16		25	25	150	22	25	32		
KTGF/L1616H22	TG43R/L	16	16	100	26	16	20	M5 x 12	T20
KTGF/L2020K22		20	20	125	26	20	25		
KTGF/L2525M22		25	25	150	26	25	32		

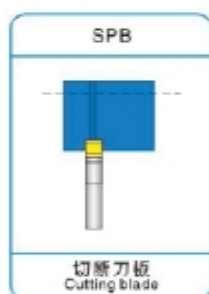
■ SMBB



Product Specification

型號 Type	刀片 Blade	規格 Specification									扳手 Wrench
		H	W	H3	L	H1	H2	W1	B	M	
SMBB1626	SPB□□	16	12	26	86	43	13	30	5.3	3-M6	L5
SMBB2026		20	19				9				
SMBB2032				32	100	50	13	38			
SMBB2526		25	23	26	86	43	4	42			
SMBB2532				32	110	50	8				
SMBB3232		32	30			54	5	30			

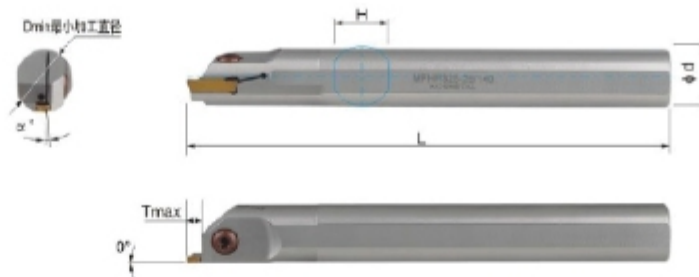
■ SPB



Product Specification

型號 Type	刀片 Blade	規格 Specification				
		w	b	h	L	h1
SPB226	SP200,200R/L	2	1.6	26	110	21
SPB326	ZQM x 3N-11-1E SP300,300R/L	3	2.4	26	110	21
SPB426	ZQM x 4N-11-1E SP400,400R/L	4	3.2	26	110	21
SPB526	ZQMx5N-11-1E SP500,500R/L	5	4.2	26	110	21
SPB232	SP200,200R/L	2	1.6	32	150	25
SPB332	ZQM x3N-11-1E SP300,300R/L	3	2.4	32	150	25
SPB432	ZQM x 4N-11-1E SP400,400R/L	4	3.2	32	150	25
SPB532	ZQMx5N-11-1E SP500,500R/L	5	4.2	32	150	25
SPB632	ZQM x 6N-11-1E SP600,600R/L	6	5.2	32	150	25

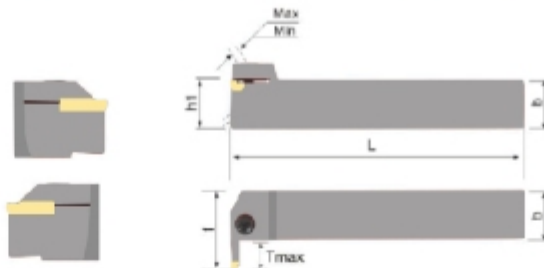
MFHR



Product Specification

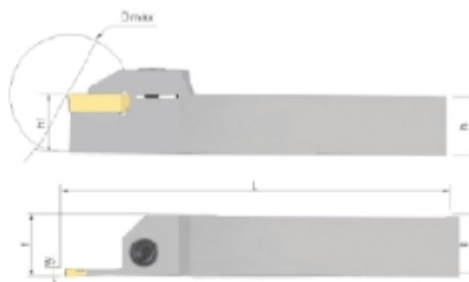
型號 Type	刀片 Blade	規格 Specification					螺絲 Screw	扳手 Wrench
		øDmin	ød	f	L	H		
MFH216R/L06-20/140	MGMN200	2	16	12.4	160	38	M4 x 10	L3
MFH216R/L08-20/140		2	20	14	180	45		
MFH220R/L06-25/140		2	25	17.25	200	50	M5 x 12	L4
MFH220R/L08-25/140		2	32	20.5	250	70		
MFH225R/L06-25/140		3	16	15	110	38	M5 x 16	
MFH225R/L08-25/140		3	20	15.6	180	45		
MFH316R/L06-20/140	MGMN300	3	25	18.9	200	50	M4 x 10	L3
MFH316R/L08-20/140		3	32	21.5	250	65		
MFH320R/L06-25/140		3	40	27.2	300	70	M5 x 12	L4
MFH320R/L08-25/140		4	16	15	160	38		
MFH320R/L10-25/140		4	20	15.6	180	45		
MFH325R/L06-25/140	MGMN300	ø2	16	12.4	160	38	M5 x 16	L4
MFH325R/L08-25/140		2	20	14	180	45		
MFH325R/L10-25/140		2	25	17.25	200	50		
MFH332R/L06-32/200		2	32	20.5	250	70	M6 x 20	L5
MFH332R/L08-32/200		3	16	15	110	38		
MFH332R/L10-32/200		3	20	15.6	180	45		
MFH420R/L08-25/140	MGMN400	3	25	18.9	200	50	M5 x 12	L4
MFH420R/L10-25/140		3	32	21.5	250	65		
MFH420R/L12-25/140		3	40	27.2	300	70		
MFH425R/L08-25/140		4	16	15	160	38	M5 x 16	
MFH425R/L10-25/140		4	20	15.6	180	45		
MFH425R/L12-25/140		4	20	15.6	180	45		
MFH432R/L08-32/200		4	20	15.6	180	45	M6 x 20	L5
MFH432R/L10-32/200		4	20	15.6	180	45		
MFH432R/L12-32/200		4	20	15.6	180	45		
MFH440R/L08-40/500		4	20	15.6	180	45	M8 x 25	L6
MFH440R/L10-40/500		4	20	15.6	180	45		
MFH440R/L12-40/500		4	20	15.6	180	45		
MFH540R/L15-40/500	MGMN500	4	20	15.6	180	45		

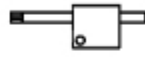
MGFVR/L



Product Specification

型號 Type	刀片 Blade	刀片 Specification						螺絲 Screw	扳手 Wrench
		b=h1	h	L	Min	Max	Tmax		
MGFV325R/L15-50/80	MGMN300	25	25	150	50	80	15	M5 x 20	L4
MGFV320R/L15-80/160		20	20	125	80	160	15		
MGFV325R/L15-80/160		25	25	150	80	160	15		
MGFV320R/L15-160/400		20	20	125	160	400	15		
MGFV325R/L15-160/400		25	25	150	160	400	15		
MGFV320R/L15-200/800		20	20	125	200	800	15		
MGFV325R/L15-200/800		25	25	150	200	800	15		
MGFV420R/L15-20/36	MGMN400	20	20	125	20	36	15	M5 x 20	L4
MGFV425R/L15-20/36		25	25	150	20	36	15		
MGFV420R/L15-30/50		20	20	125	30	50	15		
MGFV425R/L15-30/50		25	25	150	30	50	15		
MGFV420R/L15-50/80		20	20	125	50	80	15		
MGFV420R/L15-80/160		20	20	125	80	160	15		
MGFV425R/L15-80/160		25	25	150	80	160	15		
MGFV420R/L15-160/400		20	20	125	160	400	15		
MGFV425R/L15-160/400		25	25	150	160	400	15		
MGFV420R/L15-200/800		20	20	125	200	800	15		
MGFV425R/L15-200/800		25	25	150	200	800	15		
MGFV520R/L15-30/50	MGMN500	20	20	125	30	50	15	M5 x 20	L4
MGFV525R/L15-30/50		25	25	150	30	50	15		
MGFV520R/L15-50/80		20	20	125	50	80	15		
MGFV525R/L15-50/80		25	25	150	50	80	15		
MGFV520R/L15-80/160		20	20	125	80	160	15		
MGFV525R/L15-80/160		25	25	150	80	160	15		
MGFV520R/L15-160/400		20	20	125	160	400	15		
MGFV525R/L15-160/400		25	25	150	160	400	15		
MGFV520R/L15-200/800		20	20	125	200	800	15		
MGFV525R/L15-200/800		25	25	150	200	800	15		

KGMR/L

Product Specification

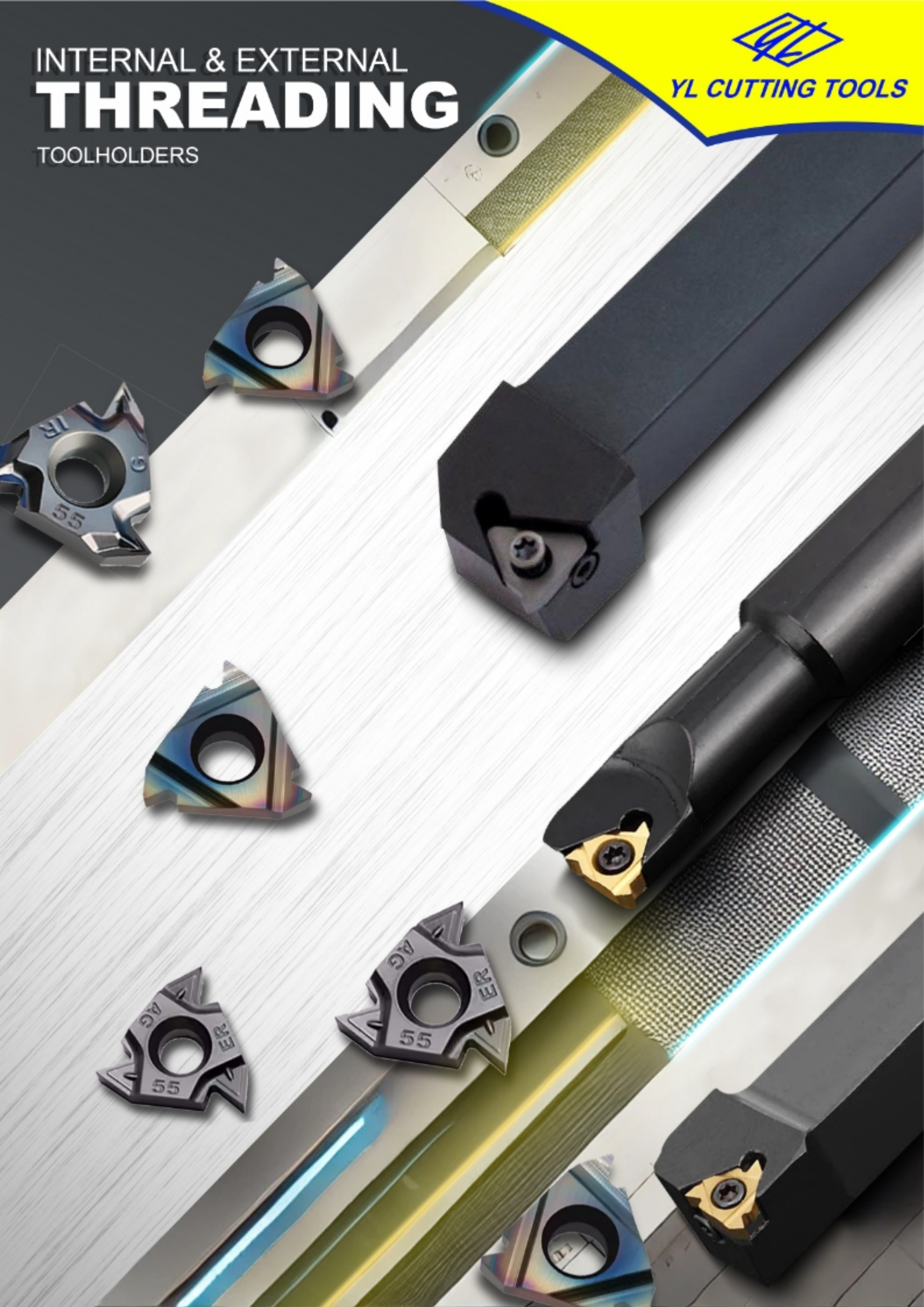
型號 Type	刀片 Blade	規格 Specification							螺絲 Screw	扳子 Wrench
		w	b	h	L	h1	f	Dmax		
KGMR/L1010J-1.5T12	GMM1520 GDM1520	1.5	10	10	110	10	10	12	M4 x 16	T15
KGMR/L1212J-1.5T12		1.5	12	12	110	12	12	12		
KGMR/L1616J-1.5T15		1.5	16	16	110	16	16	15	M5 x 20	L4
KGMR/L2020K-1.5T15		1.5	20	20	125	20	20	15		
KGMR/L2525M-1.5T15		1.5	25	25	150	25	25	15	M5 x 20	L4
KGMR/L1010J-2T12	GMM2020 GDM2020	2	10	10	110	10	10	12	M4 x 16	T15
KGMR/L1212J-2T12		2	12	12	110	12	12	12		
KGMR/L1616J-2T17		2	16	16	110	16	16	17	M5 x 20	L4
KGMR/L2020K-2T17		2	20	20	125	20	20	17		
KGMR/L2525M-2T17		2	25	25	150	25	25	17		
KGMR/L1616J-3T20	GMM3020 GDM3020	3	16	16	110	16	16	20	M5 x 20	L4
KGMR/L2020K-3T20		3	20	20	125	20	20	20		
KGMR/L2525M-3T20		3	25	25	150	25	25	20		
KGMR/L1616J-4T20	GMM4020 GDM4020	4	16	16	110	16	16	20		
KGMR/L2020K-4T20		4	20	20	125	20	20	20		
KGMR/L2525M-4T20		4	25	25	150	25	25	20		

INTERNAL & EXTERNAL **THREADING**

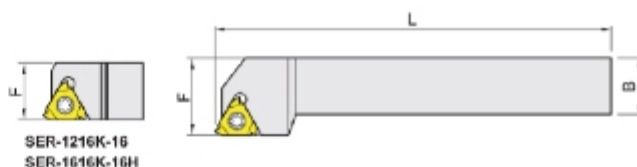
TOOLHOLDERS



YL CUTTING TOOLS



SER/L ER..16



Right-hand shown

Product Specification

Item code	Dimensions,mm				Insert	Screw	Wrench	Shim	Screw	Wrench	Clamp	Wrench
無水孔Non-coolant	H(1)	B	L	F								
SER/L-1616H16	16	16	125	20	16ER/L	MS3509A	T15	STM1603	-	-	-	-
SER/L-2020K16	20	20	125	25								
SER/L-2525M16	25	25	150	32								
SER/L-3232P16	32	32	170	40								

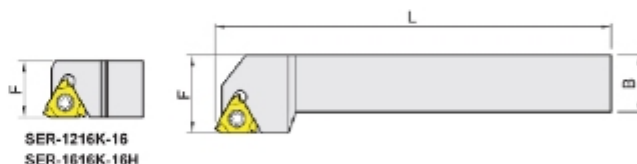
Enforced blade

Use	O O O O				O O O O				O O O O			
Insert shape												
Insert Code	16ER AG55 DT9030 16ER AG60 DT9030				16ER A55 DT8090 16ER A60 DT8090							

Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.06 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.06 ~ 0.25	0.3 ~ 3.0

SER/L ER..22



Right-hand shown

Product Specification

Item code	Dimensions,mm				Insert	Screw	Wrench	Shim	Screw	Wrench	Clamp	Wrench
無水孔Non-coolant	H(1)	B	L	F								
SER/L-2020K22	20	20	125	25	22ER/L	MS4516A	T20	STM2203	-	-	-	-
SER/L-2525M22	25	25	150	32								
SER/L-3232P22	32	32	170	40								

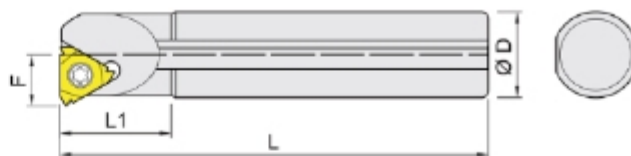
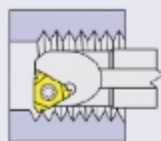
Enforced blade

Use	O O O O				O O O O				O O O O			
Insert shape												
Insert Code	22ER NG55 DT9030 22ER NG60 DT9030				22ER N55 DT8090 22ER N60 DT8090							

Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.06 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.06 ~ 0.25	0.3 ~ 3.0

SNR/L NR..08



Product Specification

Item code	Dimensions,mm					Insert	Screw	Wrench	Shim	Screw	Wrench
無水孔Non-coolant	D	L	L1	F	dmin						
SNR/L0008K08	08	125	20	5.5	11	08NR/L	MS2206F	T7	-	-	-

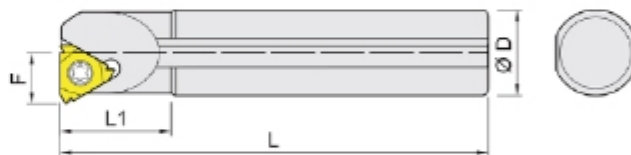
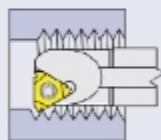
Enforced blade

Use	○	○	○	○	○	○	○	○	○	○	○
Insert shape											
Insert Code	08IR A55 DT9030 08IR A60 DT9030					08IR A55 DT8090 08IR A60 DT8090					

Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

SNR/L NR..11



Product Specification

Item code	Dimensions,mm					Insert	Screw	Wrench	Shim	Screw	Wrench
無水孔Non-coolant	D	L	L1	F	dmin						
SNR/L0008K11	16	125	25	6.5	13	11NR/L	MS2507G	T8	-	-	-
SNR/L0010K11	16	125	25	6.5	13						
SNR/L0012M11	16	150	32	8	16						

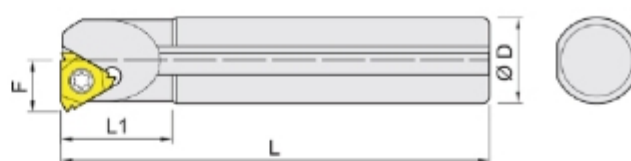
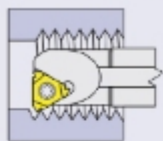
Enforced blade

Use	○	○	○	○	○	○	○	○	○	○	○
Insert shape											
Insert Code	11IR A55 DT9030 11IR A60 DT9030					11IR A55 DT8090 11IR A60 DT8090					

Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

SNR/L NR..16



Product Specification

Item code	Dimensions,mm					Insert	Screw	Wrench	Shim	Screw	Wrench
無水孔Non-coolant	D	L	L1	F	dmin						
SNR/L0013M16	13	150	32	9	18	16NR/L	MS3509A	T15	STM1603	-	-
SNR/L0014M16	14	150	32	9	18						
SNR/L0016Q16	16	180	36	10	19						
SNR/L0018Q16	18	180	40	14	24						
SNR/L0020R16	20	200	45	16	32						
SNR/L0025S16	25	250	45	16.5	32						

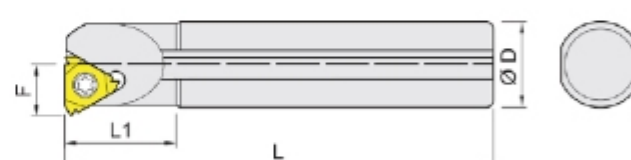
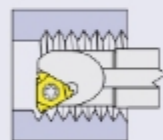
Enforced blade

Use																				
Insert shape																				
Insert Code	16IR AG55 DT9030 16IR AG60 DT9030					16IR AG55 DT8090 16IR AG60 DT8090														

Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

SNR/L NR..22



Product Specification

Item code	Dimensions,mm					Insert	Screw	Wrench	Shim	Screw	Wrench
無水孔Non-coolant	D	L	L1	F	dmin						
SNR/L0020R22	20	200	40	14	28	22NR/L	MS4511A	T20	STM22T3R	-	-
SNR/L0025S22	25	250	45	16.5	32						

Enforced blade

Use																				
Insert shape																				
Insert Code	22IR N55 DT9030 22IR N60 DT9030					22IR N55 DT8090 22IR N60 DT8090														

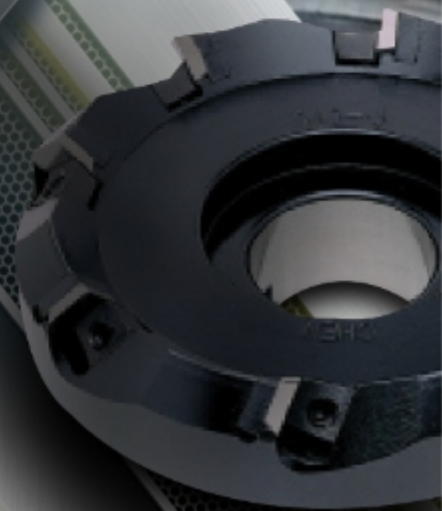
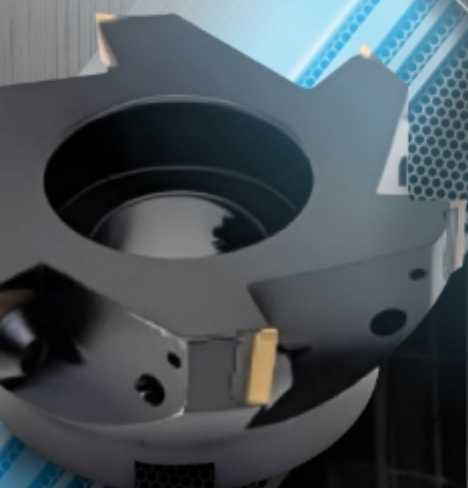
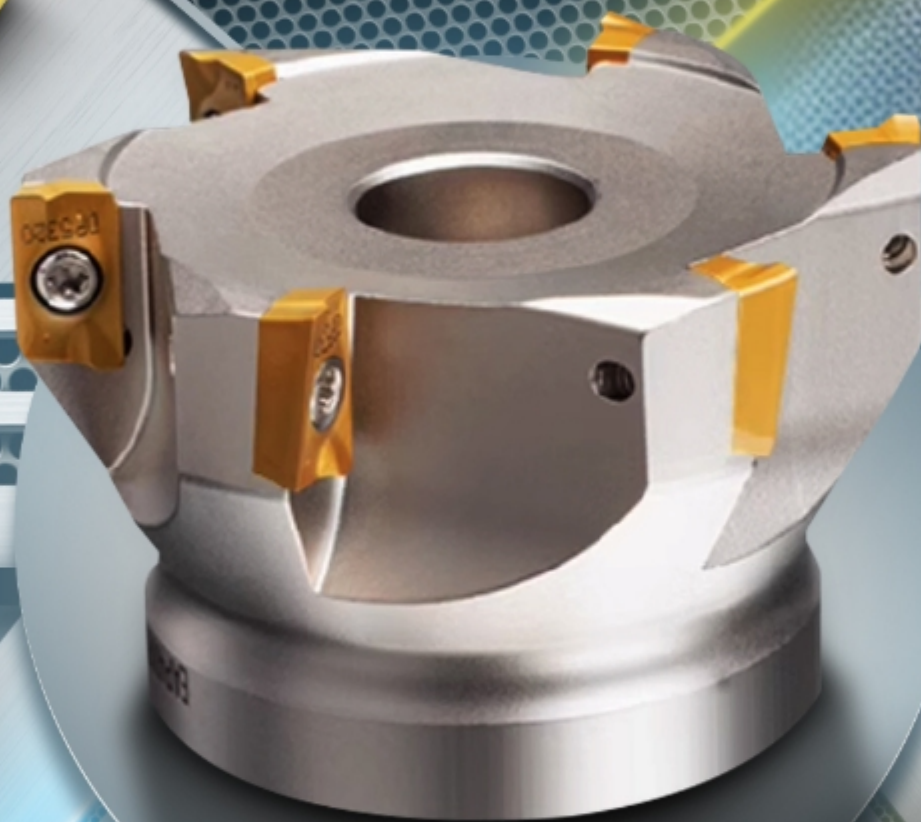
Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

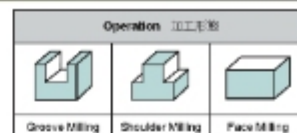
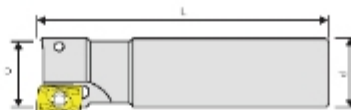


YL CUTTING TOOLS

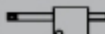
MILLING HOLDER



PRODUCT CODE : BAP300R



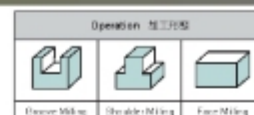
Product Specification

Item code 無水孔 Non-coolant	Dimensions,mm			Teeth	Insert	Screw 	Wrench 
	D	d	L				
BAP300R-10-100-C10-1T	10	10	100	1	APMT1135..	MS2506E	ETF08
BAP300R-10-130-C10-1T	10	10	130	1			
BAP300R-10-150-C10-1T	10	10	150	1			
BAP300R-12-130-C12-1T	12	12	130	1			
BAP300R-12-150-C12-1T	12	12	150	1			
BAP300R-16-150-C16-2T	16	16	150	2			
BAP300R-16-200-C16-2T	16	16	200	2			
BAP300R-16-250-C16-2T	16	16	250	2			
BAP300R-17-150-C16-2T	17	16	150	2			
BAP300R-17-200-C16-2T	17	16	200	2			
BAP300R-17-250-C16-2T	17	6	250	2			
BAP300R-20-150-C20-2T	20	20	150	2			
BAP300R-20-200-C20-2T	20	20	200	2			
BAP300R-20-250-C20-2T	20	20	250	2			
BAP300R-20-150-C20-3T	20	20	150	3			
BAP300R-20-200-C20-3T	20	20	200	3			
BAP300R-21-150-C20-2T	21	20	150	2			
BAP300R-21-200-C20-2T	21	20	200	2			
BAP300R-21-250-C20-2T	21	20	250	2			
BAP300R-25-150-C20-3T	25	20	150	3			
BAP300R-25-200-C20-3T	25	20	200	3			
BAP300R-25-250-C20-3T	25	20	250	3			
BAP300R-25-150-C25-3T	25	25	150	3			
BAP300R-25-200-C25-3T	25	25	200	3			
BAP300R-25-250-C25-3T	25	25	250	3			
BAP300R-25-300-C25-3T	25	25	300	3			
BAP300R-26-150-C25-3T	26	25	150	3			
BAP300R-26-200-C25-3T	26	25	200	3			
BAP300R-26-250-C25-3T	26	25	250	3			
BAP300R-26-300-C25-3T	26	25	300	3			
BAP300R-26-150-C25-4T	26	25	150	4			
BAP300R-26-200-C25-4T	26	25	200	4			
BAP300R-26-250-C25-4T	26	25	250	4			
BAP300R-30-150-C25-3T	30	25	150	3			
BAP300R-30-200-C25-3T	30	25	200	3			
BAP300R-30-150-C25-4T	30	25	150	4			
BAP300R-30-200-C25-4T	30	25	200	4			
BAP300R-32-150-C32-4T	32	32	150	4			
BAP300R-32-200-C32-4T	32	32	200	4			
BAP300R-32-250-C32-4T	32	32	250	4			
BAP300R-35-150-C32-4T	35	32	150	4			
BAP300R-35-200-C32-4T	35	32	200	4			
BAP300R-35-250-C32-4T	35	32	250	4			
BAP300R-35-300-C32-4T	35	32	300	4			

Enforced blade

				
APMT1135PDER-N12 DT8030	APGT1135PDER-G2 DA01	APMT1135PDER-N12 DT8030		

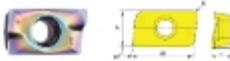
PRODUCT CODE : BAP400R



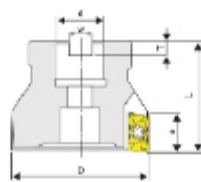
Product Specification

Item code	Dimensions,mm			Teeth	Insert	Screw	Wrench
無水孔 Non-coolant	D	d	L				
BAP400R-20-150-C20-2T	20	20	150	2	APMT1604..	MS4009E-MS4011A	ETF15
BAP400R-20-200-C20-2T	20	20	200	2			
BAP400R-20-250-C20-2T	20	20	250	2			
BAP400R-21-150-C20-2T	21	20	150	2			
BAP400R-21-200-C20-2T	21	20	200	2			
BAP400R-21-250-C20-2T	21	20	250	2			
BAP400R-25-150-C20-2T	25	20	150	2			
BAP400R-25-200-C20-2T	25	20	200	2			
BAP400R-25-250-C20-2T	25	20	250	2			
BAP400R-25-300-C20-2T	25	20	300	2			
BAP400R-25-150-C25-2T	25	25	150	2			
BAP400R-25-200-C25-2T	25	25	200	2			
BAP400R-25-250-C25-2T	25	25	250	2			
BAP400R-25-300-C25-2T	25	25	300	2			
BAP400R-25-350-C25-2T	25	25	350	2			
BAP400R-26-150-C25-2T	26	25	150	2			
BAP400R-26-200-C25-2T	26	25	200	2			
BAP400R-26-250-C25-2T	26	25	250	2			
BAP400R-26-300-C25-2T	26	25	300	2			
BAP400R-26-350-C25-2T	26	25	350	2			
BAP400R-30-150-C25-2T	30	25	150	2			
BAP400R-30-200-C25-2T	30	25	200	2			
BAP400R-30-250-C25-2T	30	25	250	2			
BAP400R-30-300-C25-2T	30	25	300	2			
BAP400R-30-350-C25-2T	30	25	350	2			
BAP400R-32-150-C25-2T	32	25	150	2			
BAP400R-32-200-C25-2T	32	25	200	2			
BAP400R-32-250-C25-2T	32	25	250	2			
BAP400R-32-150-C32-2T	32	32	150	2			
BAP400R-32-200-C32-2T	32	32	200	2			
BAP400R-32-250-C32-2T	32	32	250	2			
BAP400R-32-300-C32-2T	32	32	300	2			
BAP400R-32-350-C32-2T	32	32	350	2			
BAP400R-32-400-C32-2T	32	32	400	2			
BAP400R-32-150-C32-3T	32	32	150	3			
BAP400R-32-200-C32-3T	32	32	200	3			
BAP400R-32-250-C32-3T	32	32	250	3			
BAP400R-32-300-C32-3T	32	32	300	3			
BAP400R-32-350-C32-3T	32	32	350	3			
BAP400R-32-400-C32-3T	32	32	400	3			
BAP400R-33-150-C32-3T	33	32	150	3			
BAP400R-33-200-C32-3T	33	32	200	3			
BAP400R-33-250-C32-3T	33	32	250	3			
BAP400R-33-300-C32-3T	33	32	300	3			
BAP400R-33-350-C32-3T	33	32	350	3			
BAP400R-33-400-C32-3T	33	32	400	3			
BAP400R-35-150-C32-3T	35	32	150	3			
BAP400R-35-200-C32-3T	35	32	200	3			
BAP400R-35-250-C32-3T	35	32	250	3			
BAP400R-35-300-C32-3T	35	32	300	3			
BAP400R-35-350-C32-3T	35	32	350	3			
BAP400R-35-400-C32-3T	35	32	400	3			
BAP400R-40-150-C32-3T	40	32	150	3			
BAP400R-40-200-C32-3T	40	32	200	3			
BAP400R-40-250-C32-3T	40	32	250	3			
BAP400R-40-300-C32-3T	40	32	300	3			
BAP400R-40-350-C32-3T	40	32	350	3			
BAP400R-40-400-C32-3T	40	32	400	3			

Enforced blade

				
APMT1604PDER-M2 DT8030	APGT1604PDFR-G2 DA01	APMT1604PDER-DL DT8030	APMT1604PDER-DL DT8030	APMT1604PDER-M2 DT8030

Product Code Face Mill Cutter : BAR300R



Operation 加工形狀



Groove Milling



Shoulder Milling



Face Milling

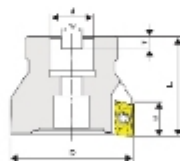
Product Specification

Item code 無水孔 Non-coolant	Dimensions,mm			Teeth	Insert	Screw 	Wrench 
	D	d	L				
BAP300R-40-16-4T	40	16	40	4	APMT1135..	M2.5x6	T8
BAP300R-40-22-4T	40	22	40	4			
BAP300R-50-22-4T	50	22	50	4			
BAP300R-50-25.4-4T	50	25.4	50	4			
BAP300R-63-22-4T	63	22	63	4			
BAP300R-63-25.4-4T	63	25.4	63	4			
BAP300R-63-22-5T	63	22	63	5			

Enforced blade

				
APMT1135PDER-M2 DT9030	APGT1135PDR-G2 DA01	APMT1135PDER-M2 DT8090		

Product Code Face Mill Cutter : BAR400R



Operation 加工形狀



Groove Milling

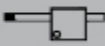


Shoulder Milling



Face Milling

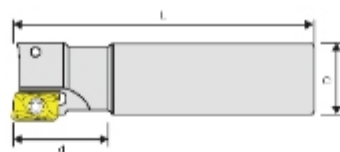
Product Specification

Item code 無水孔 Non-coolant	Dimensions,mm			Teeth	Insert	Screw 	Wrench 
	D	d	L				
BAP400R-40-16-4T	40	16	40	4	APMT1604..	M4.0x9 M4.0x11	T15
BAP400R-40-22-4T	40	22	40	4			
BAP400R-50-22-4T	50	22	50	4			
BAP400R-50-25.4-4T	50	25.4	50	4			
BAP400R-63-22-4T	63	22	63	4			
BAP400R-63-25.4-4T	63	25.4	63	4			
BAP400R-63-22-5T	63	22	63	5			
BAP400R-80-25.4-6T	80	25.4	80	6			
BAP400R-80-27-6T	80	27	80	6			
BAP400R-100-31.75-6T	100	31.75	100	6			
BAP400R-100-32-6T	100	32	100	6			
BAP400R-125-40-7T	125	40	125	7			
BAP400R-160-40-8T	160	40	160	8			
BAP400R-200-60-10T	200	60	200	10			

Enforced blade

				
APMT1604PDER-M2 DT9030	APGT1604PDR-G2 DA01	APMT1604PDER-DL DT9030	APMT1604PDER-DL DT8090	APMT1604PDER-M2 DT8090

PRODUCT CODE : ASM07

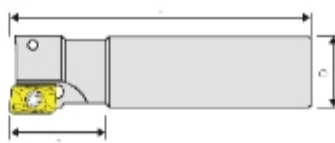


Operation 加工形態		
		
Groove Milling	Shoulder Milling	Face Milling

Product Specification

Item code	Dimensions,mm			Teeth		Screw 	Wrench 
無水孔 Non-coolant	D	d	L				
ASM0708 S10R-1-80	10	17	80	1	JDMT0702	M1.8x4	T16
ASM0708 S10R-1-100	10	17	100	1			
ASM0709 S10R-1-100	10	19	100	1			
ASM0710 S10R-2-80	10	22	80	2			
ASM0710 S10R-2-100	10	22	100	2			
ASM0710 S10R-2-120	10	22	120	2			
ASM0711 S10R-2-80	10	11	80	2			
ASM0711 S10R-2-100	10	11	100	2			
ASM0711 S10R-2-120	10	11	120	2			
ASM0712 S12R-3-80	12	26	80	3			
ASM0712 S12R-3-100	12	26	100	3			
ASM0712 S12R-3-120	12	26	120	3			
ASM0713 S12R-3-80	12	13	80	3			
ASM0713 S12R-3-120	12	13	120	3			
ASM0714 S14R-3-80	14	30	80	3			
ASM0714 S14R-3-120	14	30	120	3			
ASM0714 S14R-3-160	14	30	160	3			
ASM0715 S14R-4-120	14	15	120	4			
ASM0715 S14R-4-160	14	15	160	4			
ASM0716 S16R-4-100	16	35	100	4			
ASM0716 S16R-4-120	16	35	120	4			
ASM0716 S16R-4-160	16	35	160	4			
ASM0717 S16R-4-120	16	17	120	4			
ASM0717 S16R-4-160	16	17	160	4			

PRODUCT CODE : 4N TE90



Operation 加工形態



Groove Milling

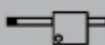


Shoulder Milling

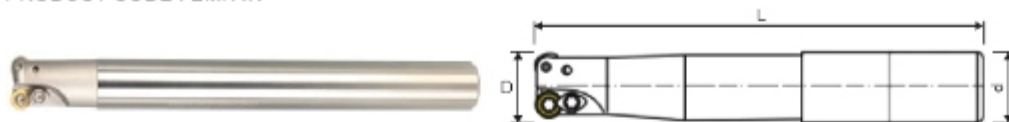


Face Milling

Product Specification

Item code	Dimensions,mm			Teeth		Screw 	Wrench 
無水孔 Non-coolant	D	d	L				
4N TE90-110-10-06-L80	10	17	80	1	4NKT0603	M3x6	T8
4N TE90-111-10-06-L80	10	17	100	1			
4N TE90-112-12-06-L100	10	19	100	1			
4N TE90-113-12-06-L100	10	22	80	2			
4N TE90-114-14-06-L120	10	22	100	2			
4N TE90-215-14-06-L120	10	22	120	2			
4N TE90-215.6-16-06-L150	10	11	80	2			
4N TE90-216-16-06-L120	10	11	100	2			
4N TE90-216-16-06-L160	10	11	120	2			
4N TE90-217-16-06-L160	12	26	80	3			
4N TE90-217-16-06-L200	12	26	100	3			
4N TE90-218-16-06-L160	12	26	120	3			
4N TE90-320-19-06-L120	12	13	80	3			
4N TE90-320-19-06-L160	12	13	120	3			
4N TE90-320-20-06-L120	14	30	80	3			
4N TE90-320-20-06-L160	14	30	120	3			
4N TE90-321-20-06-L160	14	30	160	3			
4N TE90-321-20-06-L200	14	15	120	4			
4N TE90-322-20-06-L160	14	15	160	4			
4N TE90-323-20-06-L160	16	35	100	4			
4N TE90-324-20-06-L160	16	35	120	4			
4N TE90-425-24-06-L120	16	35	160	4			
4N TE90-425-25-06-L120	16	17	120	4			
4N TE90-425-25-06-L160	16	17	160	4			
4N TE90-425-25-06-L200	12	13	80	3			
4N TE90-426-25-06-L160	12	13	120	3			
4N TE90-426-25-06-L200	14	30	80	3			
4N TE90-427-25-06-L160	14	30	120	3			
4N TE90-428-25-06-L160	14	30	160	3			
4N TE90-430-25-06-L160	14	15	120	4			
4N TE90-532-32-06-L160	14	15	160	4			
4N TE90-532-32-06-L200	16	35	100	4			
4N TE90-533-32-06-L160	16	35	120	4			
4N TE90-533-32-06-L200	16	35	160	4			

PRODUCT CODE : EMR4R

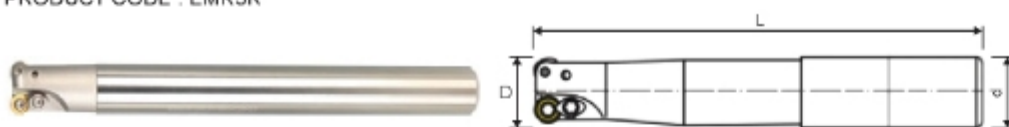


Operation 加工形態		
		
Groove Milling	Shoulder Milling	Face Milling

Product Specification

Item code 無水孔 Non-coolant	Dimensions,mm			Teeth	 RPMT0802-R4	Screw  M3*8	Wrench  T-18
	D	d	L				
C10-4R10-100	10	10	100	1			
C10-4R11-100	11	10	100	1			
C12-4R12-130	12	12	130	1			
C12-4R13-130	13	12	130	1			
C15-4R16-150	16	15	150	2			
C15-4R16-200	16	15	200	2			
C15.6-4R16-150	16	15.6	150	2			
C15.6-4R16-200	16	15.6	200	2			
C16-4R16-120	16	16	120	2			
C16-4R16-150	16	16	150	2			
C16-4R16-200	16	16	200	2			
C16-4R16-250	16	16	250	2			
C16-4R16-300	16	16	300	2			
C16-4R17-120	17	16	120	2			
C16-4R17-150	17	16	150	2			
C16-4R17-200	17	16	200	2			
C16-4R17-250	17	16	250	2			
C16-4R17-300	17	16	300	2			
C19-4R20-150	20	19	150	2			
C19-4R20-200	20	19	200	2			
C20-4R20-150	20	20	150	2			
C20-4R20-200	20	20	200	2			
C20-4R20-250	20	20	250	2			
C20-4R20-300	20	20	300	2			
C20-4R21-150	21	20	150	2			
C20-4R21-200	21	20	200	2			
C20-4R21-250	21	20	250	2			
C20-4R21-300	21	20	300	2			

PRODUCT CODE : EMR5R

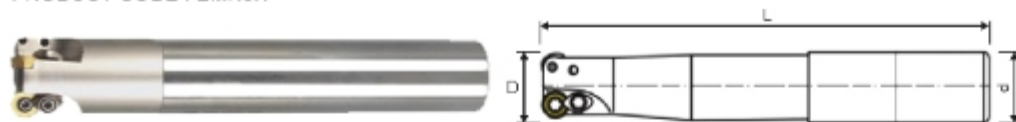


Operation 加工形態		
		
Groove Milling	Shoulder Milling	Face Milling

Product Specification

Item code	Dimensions,mm			Teeth		Screw 	Wrench 
無水孔 Non-coolant	D	d	L			M4*8	T-15
C20-5R20-160	20	20	160	2	M4*8		
C20-5R20-200	20	20	200	2			
C20-5R21-160	21	20	160	2			
C20-5R21-200	21	20	200	2			
C20-5R25-160	25	20	160	2			
C20-5R25-200	25	20	200	2			
C20-5R30-110	30	20	110	2			
C25-5R25-160	25	25	160	2			
C25-5R25-200	25	25	200	2			
C25-5R25-250	25	25	250	2			
C25-5R25-300	25	25	300	2			
C25-5R30-160	30	25	160	2			
C25-5R30-200	30	25	200	2			
C25-5R30-250	30	25	250	2			
C25-5R30-300	30	25	300	2			
C32-5R35-160	35	32	160	3	M4*9		
C32-5R35-200	35	32	200	3			
C32-5R35-250	35	32	250	3			
C32-5R35-300	35	32	300	3			
C32-5R35-350	35	32	350	3			
C32-5R35-400	35	32	400	3			
C32-5R40-160	35	32	160	3			
C32-5R40-200	35	32	200	3			

PRODUCT CODE : EMR6R

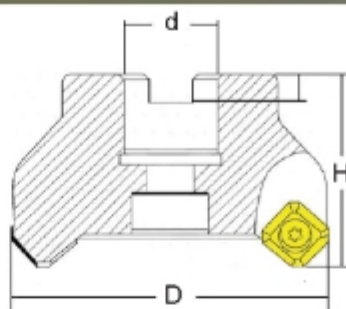


Operation 加工形態		
		
Groove Milling	Shoulder Milling	Face Milling

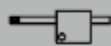
Product Specification

Item code 無水孔 Non-coolant	Dimensions,mm			Teeth	 RPMW1 204-R6	Screw  M4*10	Wrench  T-15
	D	d	L				
C24-6R25-150	25	24	1520	2			
C24-6R25-200	25	24	200	2			
C25-6R25-150	25	25	150	2			
C25-6R25-200	25	25	200	2			
C25-6R26-150	26	25	150	2			
C25-6R26-200	26	25	200	2			
C25-6R30-150	30	25	150	2			
C25-6R30-200	30	25	200	2			
C25-6R32-150	32	25	150	3			
C25-6R32-200	32	25	200	3			
C25-6R32-250	32	25	250	3			
C32-6R32-150	32	32	150	3			
C32-6R32-200	32	32	200	3			
C32-6R32-250	32	32	250	3			
C32-6R32-300	32	32	300	3			
C32-6R35-150	35	32	150	3			
C32-6R35-200	35	32	200	3			
C32-6R35-250	35	32	250	3			
C32-6R35-300	35	32	300	3			
C32-6R35-350	35	32	350	3			
C32-6R35-400	35	32	400	3			
C32-6R40-150	40	32	150	3			
C32-6R40-200	40	32	200	3			
C32-6R40-250	40	32	250	3			
C32-6R40-300	40	32	300	3			
C32-6R40-350	40	32	350	3			
C32-6R40-400	40	32	400	3			

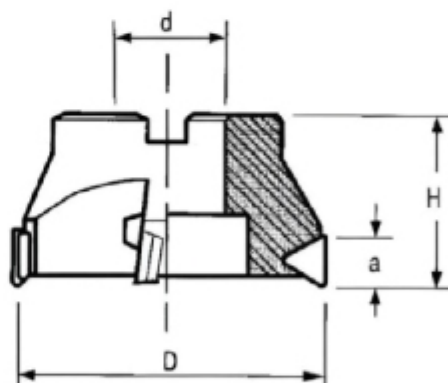
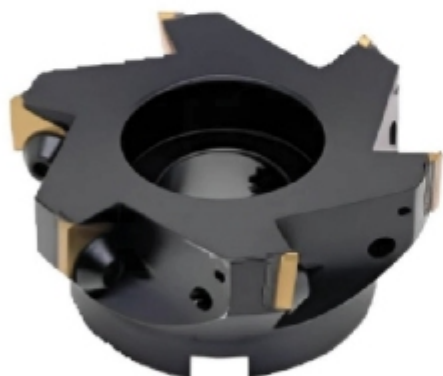
PRODUCT CODE :KM12



Product Specification

Cat. No		diameter	inner hole	Height	 Screw	 Wrench
		D (mm)	d (mm)	H (mm)		
KM12-50-22-4T-L	SEKT1204	50	22	50	M5.0x12L	TM-20
KM12-63-22-4T-L		63				
KM12-80-27-5T-L		80	27			
KM12-100-32-5T-L		100	32			
KM12-125-40-6T-L		125	40	63		
KM12-160-40-7T-L		160				

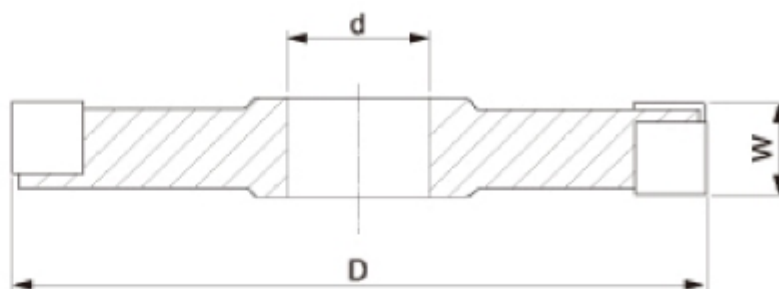
PRODUCT CODE : TPR Shoulder Face Milling Cutter



Product Specification

Item code	Dimensions,mm					TEETH	INSERT	INSERT SCR.	SHIM	SHIM SCR.	Wrench
	D	d	d*	H1	H						
無水孔 Non-coolant											
TPR-63	63	25.4	27	22	50	3	TPMN22204 TPKN2204PPR	SCR-W5/16	ST-T	SCR-ST-T4	WRN-M5L
TPR-3	80	25.4	27	22	50	4					WRN-M5T
TPR-4	100	31.75	32	22	55	5					
TPR-5	125	38.1	40	22	60	6					
TPR-6	160	50.8	40	22	60	7					
TPR-8	200	47.625	60	22	60	8					
TPR-10	250	47.625	60	22	60	9					
TPR-12	300	47.625	60	22	60	10					

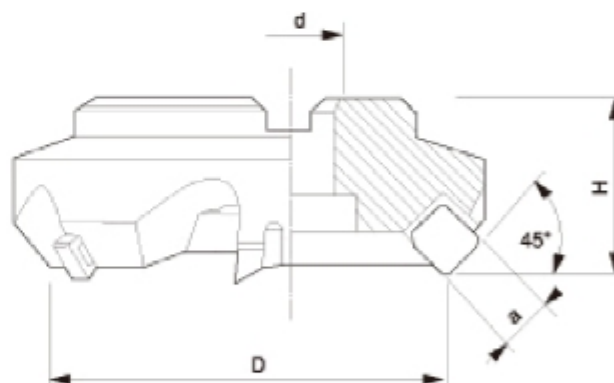
PRODUCT CODE : SC side milling Cutter



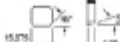
Product Specification

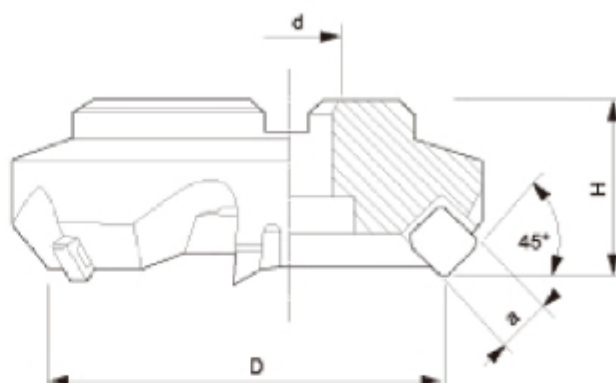
Item code	Dimensions,mm			TEETH	INSERT	CLAMP	CLAMP SCR.	Wrench
無水孔 Non-coolant	D	d	W					
SC-100X16	100	25.4	16	10	SPUN 120304	CL-S CL-SL	SCR-CL5/16	WRN-M4T
SC-125X16	125	25.4	16	14				
SC-150X16	150	31.75	16	16				
SC-200X16	200	31.75	16	20				

PRODUCT CODE : 545,445 45° Face Milling Cutter

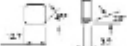


Product Specification

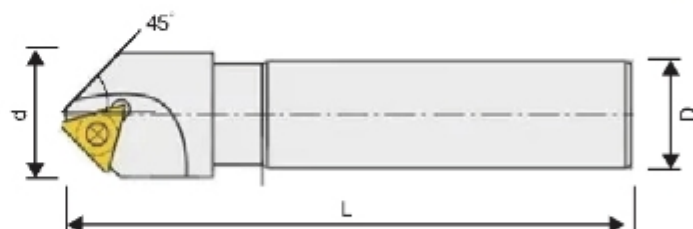
Item code	Dimensions,mm				TEETH	INSERT	CLAMP	CLAMP SCR.	SHIM	SHIM SCR.	Wrench
無水孔 Non-coolant	D	d	d*	H							
545-3	80	25.4	27	50	5	SEKN-1504 	CL5-S	SCR-CL5/16	ST-S	SCR-ST-S4	WRN-M4T
545-4	100	31.75	32	55	5						
545-5	125	38.1	40	60	6						
545-6	160	50.8	40	60	8						
545-8	200	47.625	60	60	10						
545-10	250	47.625	60	60	12						
545-12	300	47.625	60	60	14						



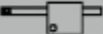
Product Specification

Item code	Dimensions,mm				TEETH	INSERT	CLAMP	CLAMP SCR.	SHIM	SHIM SCR.	Wrench
無水孔 Non-coolant	D	d	d*	H							
445-3	80	25.4	27	50	5	SEKN-1203 	CL5-S	SCR-CL5/16	ST-S	SCR-ST-S4	WRN-M4T
445-4	100	31.75	32	55	5						
445-5	125	38.1	40	60	6						
445-6	160	50.8	40	60	8						
445-8	200	47.625	60	60	10						
445-10	250	47.625	60	60	12						
445-12	300	47.625	60	60	14						

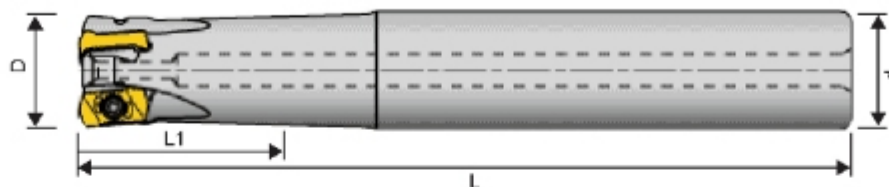
PRODUCT CODE :TCM



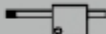
Product Specification

Cat. No		Shank diameter	Total length	Blade diameter	Screw 	Wrench 
		D (mm)	L (mm)	d (mm)		
TCM-C12-20-110L-1T	TCMT16T304	12	110	22	M4.0*9.0L	MT-15
TCM-C16-20-110L-1T		16		22		
TCM-C16-25-110L-2T				24		
TCM-C20-25-110L-1T		20		25		
TCM-C20-30-110L-1T				30		
TCM-C20-30-110L-1T			31			
TCM-C20-40-110L-1T			39			
TCM-C25-50-120L-1T		25	120	49		
TCM-C25-40-120L-1T				39		

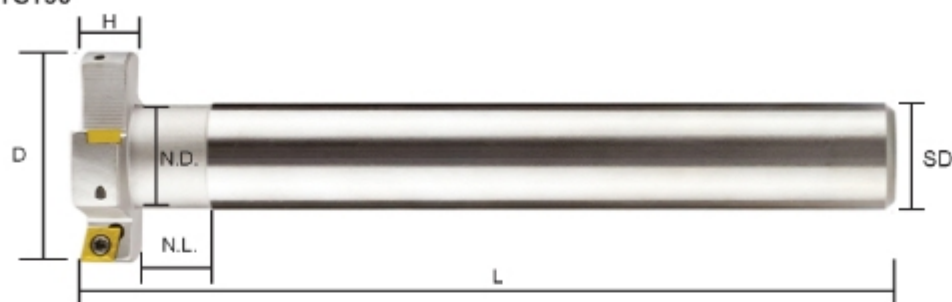
PRODUCT CODE :EXN03



Product Specification

Cat. No		Shank diameter	Blade diameter	Total length	No. of Flutes	 Screw	 Wrench
		d (mm)	D (mm)	L (mm)	L1 (mm)		
EXN03-C16-16-150L-2T	LNMU0303ZER-MJ	16	16	150	40	2.5X8.0L	MT-08
EXN03-C16-16-200L-2T				200	50		
EXN03-C16-17-150L-2T			17	150	30		
EXN03-C16-17-200L-2T				200			
EXN03-C20-20-150L-3T		20	20	150	40		
EXN03-C20-20-200L-3T				200	50		
EXN03-C20-21-150L-3T			21	150	30		
EXN03-C20-21-200L-3T				200			
EXN03-C25-25-150L-41		25	25	150	40		
EXN03-C25-25-200L-41				200	50		
EXN03-C25-26-150L-4T			26	150	30		
EXN03-C25-26-200L-41				200	40		
EXN03-C25-30-150L-5T			30	150	50		
EXN03-C25-30-200L-5T				200	30		
EXN03-C32-32-150L-5T		32	32	150			
EXN03-C32-32-200L-5T				200	50		
EXN03-C32-33-150L-5T			33	150	30		
EXN03-C32-33-200L-5T				200	40		
EXN03-C32-35-150L-5T			35	150	30		
EXN03-C32-35-200L-5T				200	40		
EXN03-C32-40-150L-6T			40	150	30		
EXN03-C32-40-200L-6T				200	40		

PRODUCT CODE :HTS150



Product Specification

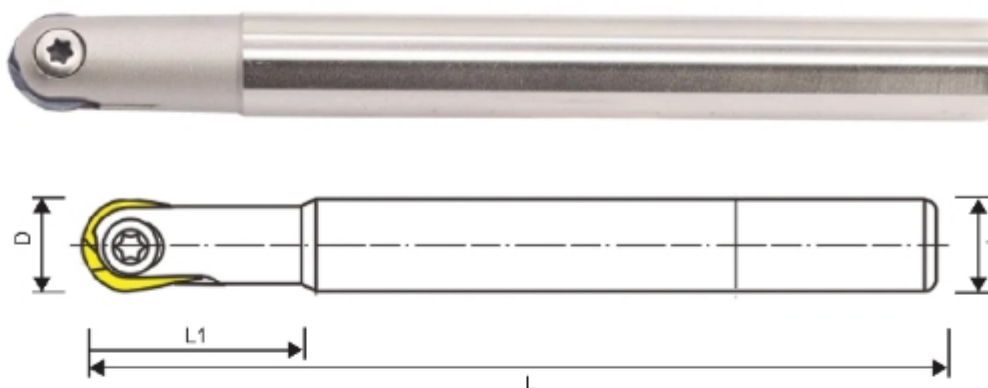
Product Code	SD.	D.	H	N.D	N.L.	L	T	Remerks
HTS-C14-D20-H10-150L-2T	14	20	10	10.5	22	150	2	Inserts : CCMT060204 Screw : M2.5*6 Wrench : T8
HTS-C16-D25-H10-150L-2T	16	25	10	12.5	23	150	2	
HTS-C16-D30-H10-150L-2T	16	30	10	12.5	23	150	4	
HTS-C20-D35-H10-150L-4T	20	35	10	16.5	23.5	150	4	
HTS-C20-D40-H10-150L-4T	20	40	10	16.5	24	150	4	
HTS-C20-D45-H10-150L-4T	20	45	10	16.5	23.5	150	4	
HTS-C20-D50-H10-150L-4T	20	50	10	16.5	24	150	4	
HTS-C25-D60-H10-150L-6T	25	60	10	21.5	25.5	150	6	
HTS-C25-D65-H10-150L-6T	25	65	10	21.5	25.5	150	6	
HTS-C32-D70-H10-150L-8T	32	70	10	28.5	23.5	150	8	
HTS-C32-D80-H10-150L-8T	32	80	10	28.5	23.5	150	8	

PRODUCT CODE :HTS200

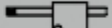
Product Specification

Product Code	SD.	D.	H	N.D	N.L.	L	T	Remerks
HTS-C14-D20-H10-200L-2T	14	20	10	10.5	22	200	2	Inserts : CCMT060204 Screw : M2.5*6 Wrench : T8
HTS-C16-D25-H10-200L-2T	16	25	10	12.5	23	200	2	
HTS-C16-D30-H10-200L-2T	16	30	10	12.5	23	200	4	
HTS-C20-D35-H10-200L-4T	20	35	10	16.5	23.5	200	4	
HTS-C20-D40-H10-200L-4T	20	40	10	16.5	24	200	4	
HTS-C20-D45-H10-200L-4T	20	45	10	16.5	23.5	200	4	
HTS-C20-D50-H10-200L-4T	20	50	10	16.5	24	200	4	
HTS-C25-D60-H10-200L-6T	25	60	10	21.5	25.5	200	6	
HTS-C25-D65-H10-200L-6T	25	65	10	21.5	25.5	200	6	
HTS-C32-D70-H10-200L-8T	32	70	10	28.5	23.5	200	8	
HTS-C32-D80-H10-200L-8T	32	80	10	28.5	23.5	200	8	

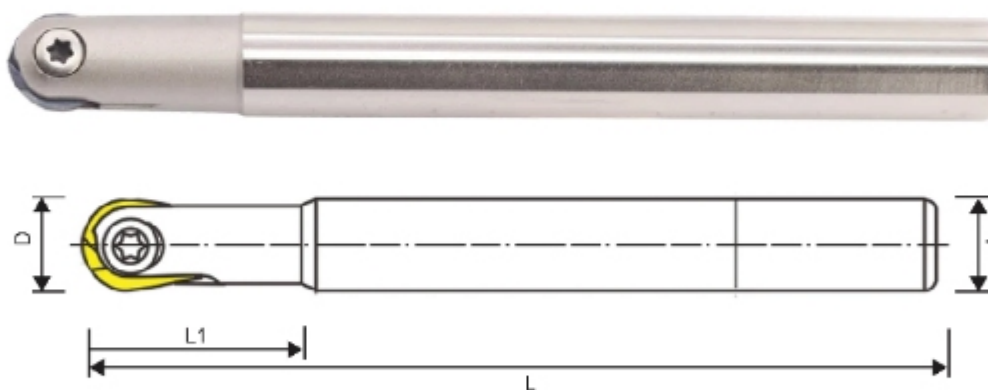
PRODUCT CODE :T2139-4R



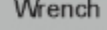
Product Specification

Cat. No		Shank diameter	Blade diameter	Total length	No. of Flutes		
		d (mm)	D (mm)	L (mm)	L1 (mm)		
T2139-4R-C08-120L-1T	P3200-D08	8	8	120	30	T2139-R4	MT-08
T2139-4R-C10-110L-1T		10		110			
T2139-4R-C12-110L-1T		12					

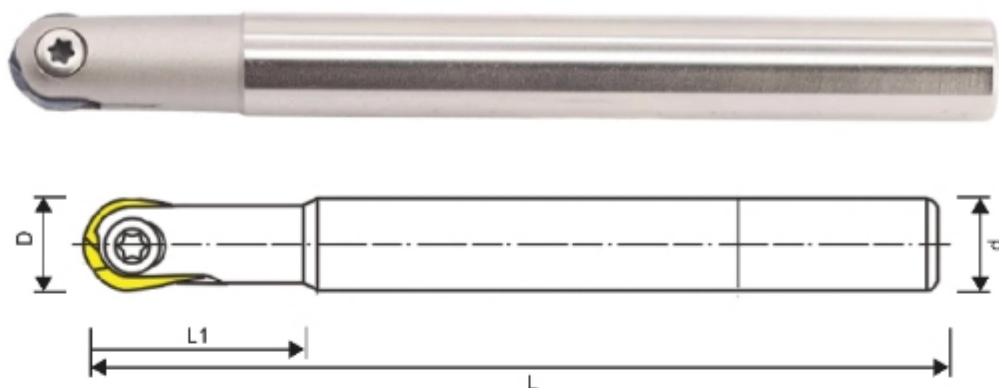
PRODUCT CODE :T2139-5R



Product Specification

Cat. No		Shank diameter	Blade diameter	Total length	No. of Flutes		
		d (mm)	D (mm)	L (mm)	L1 (mm)		
T2139-5R-C10-130L-1T	P3200-D10	10	10	130	30	T2139-R5	MT-15
T2139-5R-C12-130L-1T		12			35		
T2139-5R-C12-150L-1T				150	40		

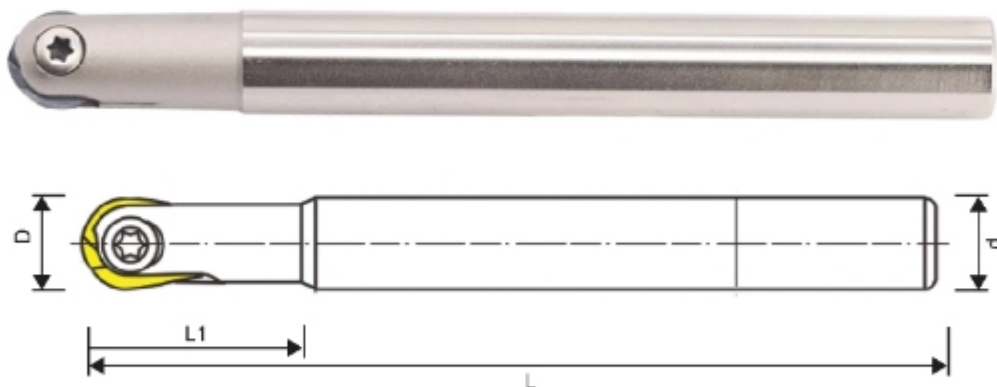
PRODUCT CODE :T2139-6R



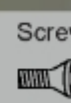
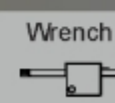
Product Specification

Cat. No		Shank diameter	Blade diameter	Total length	No. of Flutes		
		d (mm)	D (mm)	L (mm)	L1 (mm)		
T2139-6R-C12-130L-1T	P3200-D12	12	12	130	40	T2139-R6	MT-20
T2139-6R-C12-150L-1T				150			
T2139- 6R-C12-250L-1T				250			
T2139-6R-C16-150L-1T		16		150			
T2139-6R-C16-250L-1T				250			

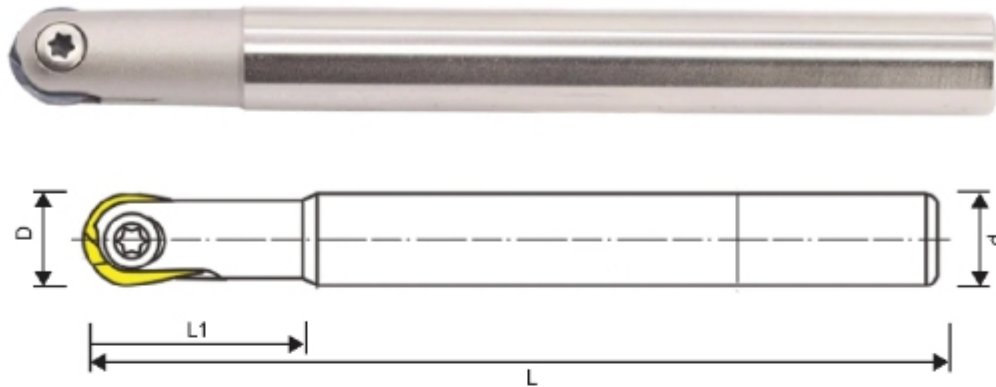
PRODUCT CODE :T2139-8R



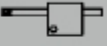
Product Specification

Cat. No		Shank diameter	Blade diameter	Total length	No. of Flutes		
		d (mm)	D (mm)	L (mm)	L1 (mm)		
T2139-8R-C16-150L-1T	P3200-D16	16	16	150	40	T2139-R8	MT-20
T2139-8R-C16-250L-1T				250	60		
T2139-8R-C20-150L-1T		20		150	50		
T2139-8R-C20-250L-1T				250	60		

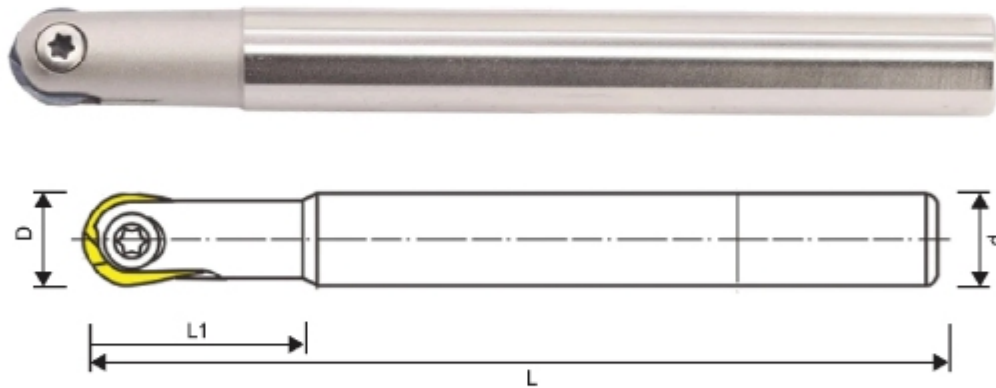
PRODUCT CODE :T2139-10R



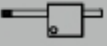
Product Specification

Cat. No		Shank diameter	Blade diameter	Total length	No. of Flutes		
		d (mm)	D (mm)	L (mm)	L1 (mm)		
T2139-10R-C20-150L-1T	P3200-D20	20	20	150	50	T2139-R10	MT-15
T2139-10R-C20-250L-1T				250			
T2139-10R-C20-250L-1T					60		

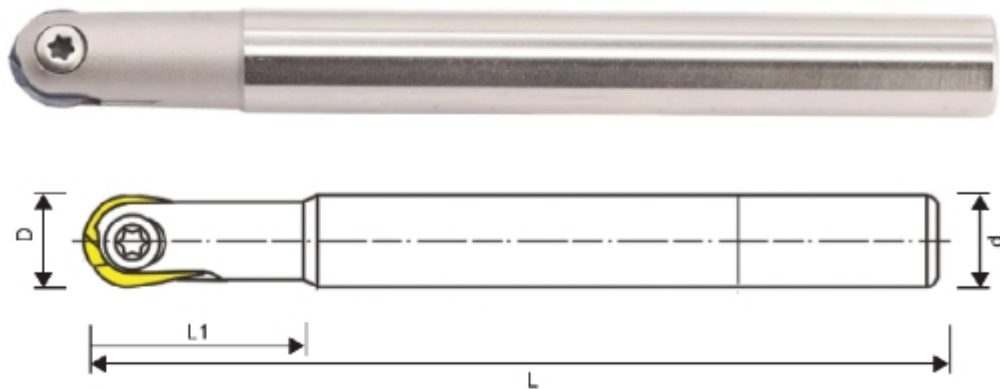
PRODUCT CODE :T2139-12.5R



Product Specification

Cat. No		Shank diameter	Blade diameter	Total length	No. of Flutes		
		d (mm)	D (mm)	L (mm)	L1 (mm)		
T2139-12.5R-C25-150L-1T	P3200-D25	25	25	150	50	T2139-R12.5	MT-20
T2139-12.5R-C25-250L-1T				250	55		
T2139-12.5R-C25-250L-1T				250	60		
T2139-12.5R-C25-300L-1T				300	60		

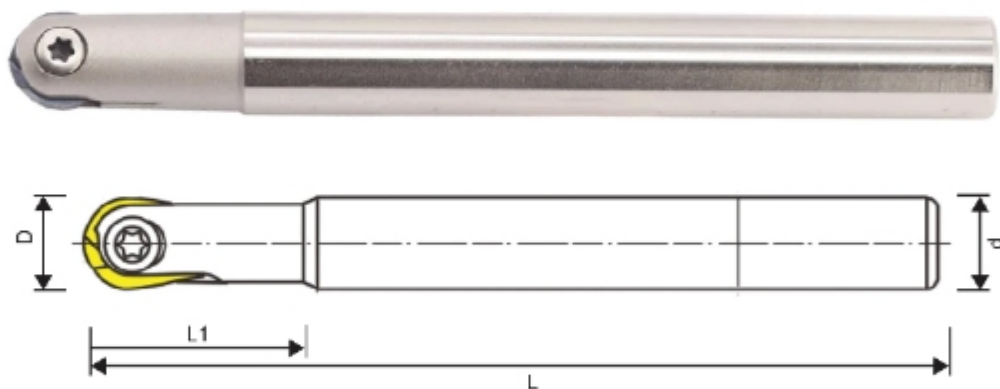
PRODUCT CODE :T2139-15R



Product Specification

Cat. No		Shank diameter	Blade diameter	Total length	No. of Flutes	Screw	Wrench
		d (mm)	D (mm)	L (mm)	L1 (mm)		
T2139-15R-C32-250L-1T	P3200-D30	32	30	250	60	T2139-R15	MT-30
T2139-15R-C32-250L-11				250			
T2139-15R-C32-300L-1T				300			

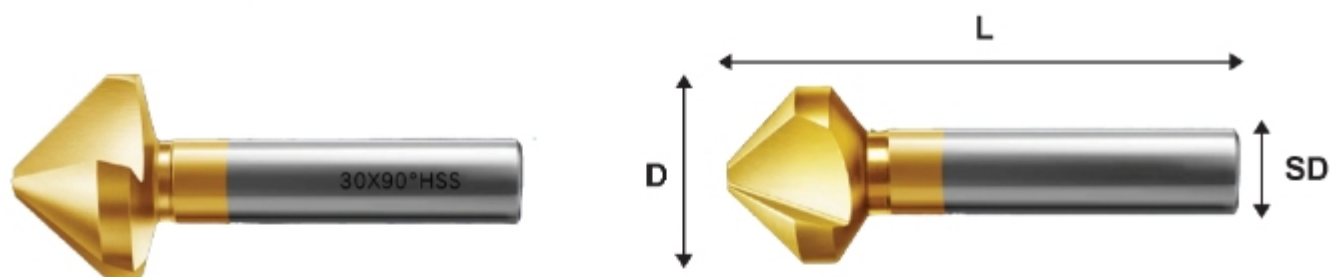
PRODUCT CODE :T2139-16R



Product Specification

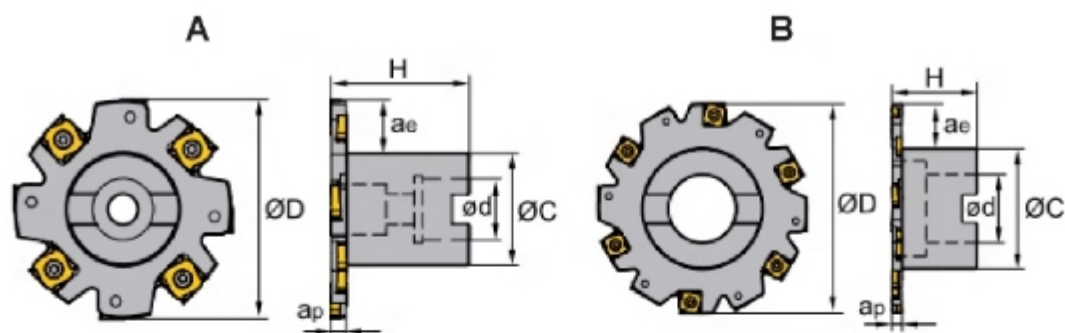
Cat. No		Shank diameter	Blade diameter	Total length	No. of Flutes	Screw	Wrench
		d (mm)	D (mm)	L (mm)	L1 (mm)		
T2139-16R-C32-250L-1T	P3200-D32	32	32	250	60	T2139-R16	MT-30
T2139-16R-C32-250L-1T				250			
T2139-16R-C32-300L-1T				300			

HSS TiN Coating Chamfer Tools

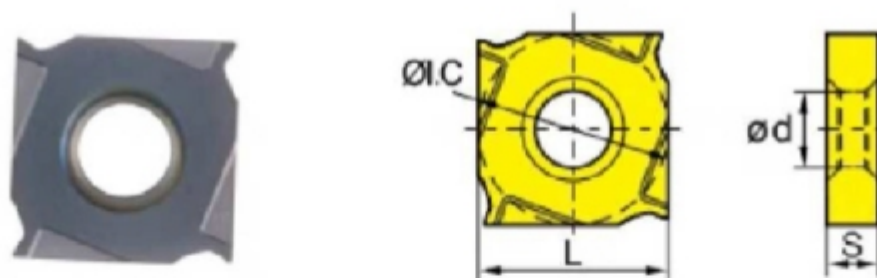


Spec.	Dimensions		
	D	L	SD
6.3*90°	6.3	5	45
8.3*90°	8.3	6	50
10.4*90°	10.4	6	50
12.4*90°	12.4	8	56
16.5*90°	16.5	10	60
20.5*90°	20.5	10	63
25*90°	25	10	67
30*90°	30	12	71
35*90°	35	12	82
40*90°	40	12	92
46*90°	45	12	92
50*90°	50	12	100

Side Milling Cutter



Product Code	Dimension						Teeth	Insert	Type	Wight
	ØD	Ød	Øc	H	ap	aemax				
	63	22	32	40	4	10	6	XSEQ1202	A	0.2
PT02-080x4-A22-SN12-08	80	22	40	40	4	18	8		A	0.4
PT02-100x4-A27-SN12-10	100	27	48	40	4	23	10		A	0.6
PT02-063x5-A22-SN12-06	63	22	32	40	5	10	6	XSEQ1203	A	0.2
PT02-080x5-A22-SN12-08	80	22	40	50	5	18	8		A	0.4
PT02-100x5-A27-SN12-10	100	27	48	50	5	23	10		A	0.7
PT02-063x6-A22-SN12-06	63	22	32	40	6	10	6	XSEQ12T3	A	0.2
PT02-080x6-A22-SN12-08	80	22	40	50	6	18	8		A	0.5
PT02-100x6-A27-SN12-10	100	27	48	50	6	23	10		A	0.7
PT02-125x6-B40-SN12-12	125	40	70	50	6	24	12		B	1
PT02-160x6-B40-SN12-16	160	40	70	50	6	41	16		B	1.3
PT02-063x7-A22-SN12-06	63	22	32	40	7	10	6	XSEQ1204	A	0.2
PT02-080x7-A22-SN12-08	80	22	40	50	7	18	8		A	0.5
PT02-100x7-A27-SN12-10	100	27	48	50	7	23	10		A	0.7
PT02-125x7-B40-SN12-12	125	40	70	50	7	24	12		B	1.1
PT02-160x7-B40-SN12-16	160	40	70	50	7	41	16		B	1.4
PT02-063x8-A22-SN12-06	63	22	32	40	8	10	6	XSEQ12T4	A	0.2
PT02-080x8-A22-SN12-08	80	22	40	50	8	18	8		A	0.5
PT02-100x8-A27-SN12-10	100	27	48	50	8	23	10		A	0.8
PT02-125x8-B40-SN12-12	125	40	70	50	8	24	12		B	1.1
PT02-160x8-B40-SN12-16	160	40	70	50	8	41	16		B	1.5



Insert Code	Insert Dimensions			
	IC	L	S	d
XSEQ1202	12.7	12.7	2.3	5
XSEQ1203	12.7	12.7	3	5
XSEQ12T3	12.7	12.7	3.5	5
XSEQ1204	12.7	12.7	4	5
XSEQ12T4	12.7	12.7	4.5	5

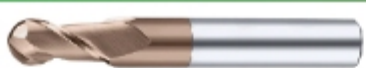


YL CUTTING TOOLS

ENDMILL CARBIDE



HRC55 Ball End Mill 2 Flutes
MG0.6, 2 Flutes, 8 Fire Coating



ARTICLE NO.	Dia. (R) (mm)	L.O.C. (mm)	O.A.L. (mm)	S. D (mm)	碳钢 Carbon Steel		不锈钢 Stainless Steel		铸铁 Cast Iron		铜 Copper	
					RPM 每分钟转速 (min-1)	FEED 进给速度 (mm/min)	RPM 每分钟转速 (min-1)	FEED 进给速度 (mm/min)	RPM 每分钟转速 (min-1)	FEED 进给速度 (mm/min)	RPM 每分钟转速 (min-1)	FEED 进给速度 (mm/min)
YLDB0102	(R0.5) 1.0	2	50	4	31,500	564	25,000	412	31,500	564	32,500	700
YLDB0152	(R0.75) 1.5	3	50	4	26,250	578	20,860	418	26,250	578	25,500	715
YLDB0202	(R1) 2.0	4	50	4	21,000	582	16,720	425	21,000	582	19,000	730
YLDB0252	(R1.25) 2.5	5	50	4	15,750	596	12,580	430	15,750	596	12,700	745
YLDB0302	(R1.5) 3.0	6	50	4	10,500	620	8,450	435	10,500	620	12,500	760
YLDB0402	(R2) 4.0	8	50	4	9,250	630	6,350	442	9,250	630	9,500	765
YLDB0402L075	(R2) 4.0	8	75	4	9,250	630	6,350	442	9,250	630	9,500	765
YLDB0402L100	(R2) 4.0	8	100	4	9,250	630	6,350	442	9,250	630	9,500	765
YLDB0502	(R2.5) 5.0	10	50	8	7,950	640	5,095	447	7,950	640	7,850	775
YLDB0602	(R3) 6.0	12	50	8	5,300	670	4,200	465	5,300	670	6,300	800
YLDB0602L075	(R3) 6.0	12	75	8	5,300	670	4,200	465	5,300	670	6,300	800
YLDB0602L100	(R3) 6.0	12	100	8	5,300	670	4,200	465	5,300	670	6,300	800
YLDB0602L150	(R3) 6.0	12	150	8	5,300	670	4,200	465	5,300	670	6,300	800
YLDB0802	(R4) 8.0	16	50	8	3,950	790	3,150	555	3,950	790	4,750	950
YLDB0802L075	(R4) 8.0	16	75	8	3,950	790	3,150	555	3,950	790	4,750	950
YLDB0802L100	(R4) 8.0	16	100	8	3,950	790	3,150	555	3,950	790	4,750	950
YLDB0802L150	(R4) 8.0	16	150	8	3,950	790	3,150	555	3,950	790	4,750	950
YLDB1002	(R5) 10.0	20	75	10	3,150	745	2,500	525	3,150	745	3,800	890
YLDB1002L150	(R5) 10.0	20	150	10	3,150	745	2,500	525	3,150	745	3,800	890
YLDB1202	(R6) 12.0	24	75	12	2,650	700	2,100	490	2,650	700	3,170	840
YLDB1202L150	(R6) 12.0	24	150	12	2,650	700	2,100	490	2,650	700	3,170	840
YLDB1602	(R8) 16.0	32	100	16	1,990	525	1,580	370	1,990	525	2,400	630
YLDB1602L150	(R8) 16.0	32	150	16	1,990	525	1,580	370	1,990	525	2,400	630
YLDB2002	(R10) 20.0	40	100	20	1,590	420	1,260	290	1,590	420	1,900	500
YLDB2002L150	(R10) 20.0	40	150	20	1,590	420	1,260	290	1,590	420	1,900	500

HRC55 End Mill 2 Flutes
MG0.6, 2 Flutes, 8 Fire Coating



ARTICLE NO.	Dia. (R) (mm)	L.O.C. (mm)	O.A.L. (mm)	S. D (mm)	碳钢 Carbon Steel		不锈钢 Stainless Steel		铸铁 Cast Iron		铜 Copper	
					RPM 每分钟转速 (min-1)	FEED 进给速度 (mm/min)	RPM 每分钟转速 (min-1)	FEED 进给速度 (mm/min)	RPM 每分钟转速 (min-1)	FEED 进给速度 (mm/min)	RPM 每分钟转速 (min-1)	FEED 进给速度 (mm/min)
YLDE0102	1.0	3	50	4	20,000	240	11,000	85	20,000	240	47,600	420
YLDE0152	1.5	4	50	4	13,500	250	8,000	90	13,500	250	31,800	620
YLDE0202	2.0	6	50	4	13,000	300	7,000	110	13,000	300	24,000	590
YLDE0252	2.5	8	50	4	11,000	370	6,300	110	11,000	370	19,200	960
YLDE0302	3.0	8	50	4	9,000	480	5,300	120	9,000	480	15,800	860
YLDE0402	4.0	11	50	4	6,650	500	4,250	135	6,650	500	12,000	900
YLDE0402L075	4.0	16	75	4	6,450	550	4,000	130	6,450	550	11,800	920
YLDE0402L100	4.0	20	100	4	6,000	580	3,800	130	6,000	600	10,800	1,040
YLDE0502	5.0	13	50	6	5,300	600	3,500	130	5,300	600	9,400	1,040
YLDE0502L075	5.0	18	75	5	5,000	550	3,420	130	5,000	600	9,000	900
YLDE0502L100	5.0	30	100	5	4,900	600	3,250	140	4,850	550	8,500	920
YLDE0602	6.0	16	50	6	4,500	600	3,000	140	4,500	600	7,800	1,040
YLDE0602L075	6.0	24	75	6	4,300	550	2,800	135	4,300	550	7,500	860
YLDE0602L100	6.0	30	100	6	4,000	580	2,500	135	4,000	600	7,000	900
YLDE0602L150	6.0	45	150	6	3,800	580	2,000	140	3,900	600	6,500	960
YLDE0802	8.0	20	50	8	3,300	550	1,850	120	3,300	550	5,800	1,010
YLDE0802L075	8.0	25	75	8	3,100	550	1,650	120	3,000	550	5,500	1,010
YLDE0802L100	8.0	35	100	8	2,950	520	1,450	120	2,850	550	5,350	1,010
YLDE0802L150	8.0	50	150	8	2,800	520	1,400	120	2,800	550	5,000	1,010
YLDE1002	10.0	25	75	10	2,800	520	1,500	125	2,600	520	4,800	1,010
YLDE1002L100	10.0	40	100	10	2,450	520	1,350	125	2,550	520	4,650	1,010
YLDE1002L150	10.0	55	150	10	2,400	520	1,300	125	2,500	520	4,400	1,010
YLDE1202	12.0	30	75	12	2,200	520	1,200	120	2,200	520	4,000	1,010
YLDE1202L100	12.0	45	100	12	2,000	520	1,200	130	2,100	520	3,900	1,010
YLDE1202L150	12.0	55	150	12	1,950	520	1,000	140	2,000	520	3,650	1,010
YLDE1402	14.0	45	100	14	1,900	550	1,200	140	1,900	550	3,400	990
YLDE1402L150	14.0	70	150	14	1,800	550	1,200	140	1,800	550	3,000	990
YLDE1602	16.0	40	100	16	1,700	530	1,100	130	1,700	530	3,000	960
YLDE1602L150	16.0	80	150	16	1,600	530	1,000	130	1,600	530	2,900	960
YLDE1802	18.0	45	100	18	1,500	520	950	100	1,500	520	2,600	940
YLDE1802L150	18.0	80	150	18	1,400	520	950	100	1,400	520	2,500	940
YLDE2002	20.0	45	100	20	1,300	500	900	90	1,300	500	2,400	890
YLDE2002L150	20.0	80	150	20	1,000	500	850	90	1,000	500	2,000	890

HRC55 End Mill 4 Flutes

MG0.6, 4 Flutes, S Fire Coating



加工形態
Operation



特性
Characteristics



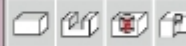
ARTICLE NO.	Dia. (R) (mm)	L.O.C. (mm)	O.A.L. (mm)	S. D (mm)	炭素 Carbon Steel		不銹鋼 Stainless Steel		鑄造 Cast Iron		銅 Copper	
					RPM 迴轉速度 (min-1)	FEED 進給速度 (mm/min)	RPM 迴轉速度 (min-1)	FEED 進給速度 (mm/min)	RPM 迴轉速度 (min-1)	FEED 進給速度 (mm/min)	RPM 迴轉速度 (min-1)	FEED 進給速度 (mm/min)
YLDE0104	1.0	3	50	4	20,000	240	11,000	85	20,000	240	47,600	420
YLDE0154	1.5	4	50	4	13,500	250	8,000	90	13,500	250	31,800	620
YLDE0204	2.0	6	50	4	13,000	300	7,000	110	13,000	300	24,000	590
YLDE0254	2.5	8	50	4	11,000	370	6,300	110	11,000	370	19,200	960
YLDE0304	3.0	8	50	3.4	9,000	480	5,300	120	9,000	480	15,800	860
YLDE0404	4.0	11	50	4	6,650	500	4,250	135	6,650	500	12,000	900
YLDE0404L075	4.0	16	75	4	6,450	550	4,000	130	6,450	550	11,800	920
YLDE0404L100	4.0	20	100	4	6,000	580	3,800	130	6,000	600	10,800	1,040
YLDE0504	5.0	13	50	5.6	5,300	600	3,500	130	5,300	600	9,400	1,040
YLDE0504L075	5.0	18	75	5	5,000	550	3,420	130	5,000	600	9,000	900
YLDE0504L100	5.0	30	100	5	4,900	600	3,250	140	4,850	550	8,500	920
YLDE0604	6.0	16	50	6	4,500	600	3,000	140	4,500	600	7,800	1,040
YLDE0604L075	6.0	24	75	6	4,300	550	2,800	135	4,300	550	7,500	860
YLDE0604L100	6.0	30	100	6	4,000	580	2,500	135	4,000	600	7,000	900
YLDE0604L150	6.0	45	150	6	3,800	580	2,000	140	3,900	600	6,500	960
YLDE0804	8.0	20	60	8	3,300	550	1,850	120	3,300	550	5,800	1,010
YLDE0804L075	8.0	25	75	8	3,100	550	1,650	120	3,000	550	5,500	1,010
YLDE0804L100	8.0	35	100	8	2,950	520	1,450	120	2,850	550	5,350	1,010
YLDE0804L150	8.0	50	150	8	2,800	520	1,400	120	2,800	550	5,000	1,010
YLDE1004	10.0	25	75	10	2,600	520	1,500	125	2,600	520	4,800	1,010
YLDE1004L100	10.0	40	100	10	2,450	520	1,350	125	2,550	520	4,650	1,010
YLDE1004L150	10.0	55	150	10	2,400	520	1,300	125	2,500	520	4,400	1,010
YLDE1204	12.0	30	75	12	2,200	520	1,200	120	2,200	520	4,000	1,010
YLDE1204L100	12.0	45	100	12	2,000	520	1,200	130	2,100	520	3,900	1,010
YLDE1204L150	12.0	55	150	12	1,950	520	1,000	140	2,000	520	3,650	1,010
YLDE1404	14.0	45	100	14	1,900	550	1,200	140	1,900	550	3,400	990
YLDE1404L150	14.0	70	150	14	1,800	550	1,200	140	1,800	550	3,000	990
YLDE1604	16.0	40	100	16	1,700	530	1,100	130	1,700	530	3,000	960
YLDE1604L150	16.0	80	150	16	1,600	530	1,000	130	1,600	530	2,900	960
YLDE1804	18.0	45	100	18	1,500	520	950	100	1,500	520	2,600	940
YLDE1804L150	18.0	80	150	18	1,400	520	950	100	1,400	520	2,500	940
YLDE2004	20.0	45	100	20	1,300	500	900	90	1,300	500	2,400	890
YLDE2004L150	20.0	80	150	20	1,000	500	850	90	1,000	500	2,000	890

HRC55 Rough End Mill 4 Flutes

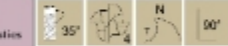
MG0.6, 4 Flutes, S Fire Coating



加工形態
Operation

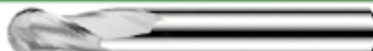


特性
Characteristics



ARTICLE NO.	Dia. (R) (mm)	L.O.C. (mm)	O.A.L. (mm)	S. D (mm)	炭素 Carbon Steel		不銹鋼 Stainless Steel		鑄造 Cast Iron		銅 Copper	
					RPM 迴轉速度 (min-1)	FEED 進給速度 (mm/min)	RPM 迴轉速度 (min-1)	FEED 進給速度 (mm/min)	RPM 迴轉速度 (min-1)	FEED 進給速度 (mm/min)	RPM 迴轉速度 (min-1)	FEED 進給速度 (mm/min)
YLRE0404	4.0	10	50	4	6,650	500	4,250	135	6,650	500	12,000	900
YLRE0604	6.0	15	50	6	4,500	600	3,000	140	4,500	600	7,800	1,040
YLRE0804	8.0	20	60	8	3,300	550	1,850	120	3,300	550	5,800	1,040
YLRE0804L075	8.0	25	75	8	3,100	550	1,650	120	3,100	550	5,500	1,040
YLRE1004	10.0	25	75	10	2,600	520	1,500	125	2,600	520	4,800	1,040
YLRE1004L100	10.0	40	100	10	2,450	520	1,350	125	2,450	520	4,650	1,040
YLRE1204	12.0	30	75	12	2,200	520	1,200	120	2,200	520	4,000	1,040
YLRE1204L100	12.0	45	100	12	2,000	520	1,200	130	2,000	520	3,900	1,040
YLRE1404	14.0	45	100	14	1,900	550	1,200	140	1,900	550	3,400	990
YLRE1604	16.0	40	100	16	1,700	530	1,100	130	1,700	530	3,000	960
YLRE1604L150	16.0	70	150	16	1,600	530	1,000	130	1,600	530	2,900	920
YLRE2004	20.0	45	100	20	1,300	500	900	90	1,300	500	2,400	890
YLRE2004L150	20.0	75	150	20	1,000	500	850	90	1,000	500	2,000	890

HRC55 Ball End Mill Aluminium 2 Flutes
MG0.6, 2 Flutes, S Fire Coating



ARTICLE NO.	Dia. (R) (mm)	L.O.C. (mm)	O.A.L. (mm)	S. D (mm)	Aluminium	
					RPM 回転速度 (min-1)	FEED 進給速度 (mm/min)
YLAB0102	(R0.5) 1.0	2	50	4	31,500	200
YLAB0152	(R0.75) 1.5	3	50	4	21,000	200
YLAB0202	(R1) 2.0	4	50	4	15,500	200
YLAB0302	(R1.5) 3.0	6	50	4	13,000	250
YLAB0402	(R2) 4.0	8	50	4	10,500	300
YLAB0402L075	(R2) 4.0	8	75	4	8,000	300
YLAB0402L100	(R2) 4.0	8	100	4	8,000	300
YLAB0502	(R2.5) 5.0	10	50	6	6,350	300
YLAB0602	(R3) 6.0	12	50	6	5,300	300
YLAB0602L075	(R3) 6.0	12	75	6	5,300	300
YLAB0602L100	(R3) 6.0	12	100	6	5,300	300
YLAB0802L150	(R3) 6.0	12	150	6	5,300	300
YLAB0802	(R4) 8.0	16	60	8	4,000	300
YLAB0802L075	(R4) 8.0	16	75	8	4,000	300
YLAB0802L100	(R4) 8.0	16	100	8	4,000	300
YLAB0802L150	(R4) 8.0	16	150	8	4,000	300
YLAB1002	(R5) 10.0	20	75	10	3,200	300
YLAB1002L150	(R5) 10.0	20	150	10	3,200	300
YLAB1202	(R6) 12.0	24	75	12	2,650	300
YLAB1202L150	(R6) 12.0	24	150	12	2,650	300
YLAB1602	(R8) 16.0	32	100	16	1,500	420
YLAB1602L150	(R8) 16.0	32	150	16	1,500	420
YLAB2002	(R10) 20.0	40	100	20	1,200	420
YLAB2002L150	(R10) 20.0	40	150	20	1,200	420

HRC55 End Mill for Aluminium 3 Flutes
MG0.6, 3 Flutes



ARTICLE NO.	Dia. (R) (mm)	L.O.C. (mm)	O.A.L. (mm)	S. D (mm)	Aluminium	
					RPM 回転速度 (min-1)	FEED 進給速度 (mm/min)
YLAE0103	1.0	3	50	4	31,500	200
YLAE0153	1.5	5	50	4	21,000	200
YLAE0203	2.0	6	50	4	15,500	200
YLAE0253	2.5	8	50	4	13,000	250
YLAE0303	3.0	9	50	4	10,500	300
YLAE0403	4.0	12	50	4	8,000	300
YLAE0403L075	4.0	16	75	4	8,000	300
YLAE0403L100	4.0	20	100	4	8,000	300
YLAE0503	5.0	15	50	6	6,350	300
YLAE0603	6.0	18	50	6	5,300	300
YLAE0603L075	6.0	25	75	6	5,300	300
YLAE0603L100	6.0	30	100	6	5,300	300
YLAE0603L150	6.0	45	150	6	5,300	300
YLAE0803	8.0	24	60	8	4,000	300
YLAE0803L075	8.0	30	75	8	4,000	300
YLAE0803L100	8.0	35	100	8	4,000	300
YLAE0803L150	8.0	50	150	8	4,000	300
YLAE1003	10.0	30	75	10	3,200	300
YLAE1003L100	10.0	40	100	10	3,200	300
YLAE1003L150	10.0	55	150	10	3,200	300
YLAE1203	12.0	35	75	12	2,650	300
YLAE1203L100	12.0	45	100	12	2,650	300
YLAE1203L150	12.0	55	150	12	2,650	300
YLAE1403	14.0	45	100	14	2,000	420
YLAE1403L150	14.0	60	150	14	2,000	420
YLAE1603	16.0	45	100	16	1,500	420
YLAE1603L150	16.0	70	150	16	1,500	420
YLAE1803	18.0	45	100	18	1,400	420
YLAE1803L150	18.0	70	150	18	1,400	420
YLAE2003	20.0	45	100	20	1,200	420
YLAE2003L150	20.0	70	150	20	1,200	420

HRC55 Ball for DLC colorful Aluminium 2 Flutes
MG0.6, 2 Flutes, S Fire Coating



加工方法
Operation



特性
Characteristics



ARTICLE NO.	Dia. (R) (mm)	L.O.C. (mm)	O.A.L. (mm)	S. D (mm)	Aluminium	
					RPM 回転速度 (min-1)	FEED 送り速度 (mm/min)
YLBX0102	(R0.5) 1.0	2	50	4	31,500	200
YLBX0152	(R0.75) 1.5	3	50	4	21,000	200
YLBX0202	(R1) 2.0	4	50	4	15,500	200
YLBX0302	(R1.5) 3.0	6	50	4	13,000	250
YLBX0402	(R2) 4.0	8	50	4	10,500	300
YLBX0402L075	(R2) 4.0	8	75	4	8,000	300
YLBX0402L100	(R2) 4.0	8	100	4	8,000	300
YLBX0502	(R2.5) 5.0	10	50	6	6,350	300
YLBX0602	(R3) 6.0	12	50	6	5,300	300
YLBX0602L075	(R3) 6.0	12	75	6	5,300	300
YLBX0602L100	(R3) 6.0	12	100	6	5,300	300
YLBX0602L150	(R3) 6.0	12	150	6	5,300	300
YLBX0802	(R4) 8.0	16	60	8	4,000	300
YLBX0802L075	(R4) 8.0	16	75	8	4,000	300
YLBX0802L100	(R4) 8.0	16	100	8	4,000	300
YLBX0802L150	(R4) 8.0	16	150	8	4,000	300
YLBX1002	(R5) 10.0	20	75	10	3,200	300
YLBX1002L150	(R5) 10.0	20	150	10	3,200	300
YLBX1202	(R6) 12.0	24	75	12	2,650	300
YLBX1202L150	(R6) 12.0	24	150	12	2,650	300
YLBX1602	(R8) 16.0	32	100	16	1,500	420
YLBX1602L150	(R8) 16.0	32	150	16	1,500	420
YLBX2002	(R10) 20.0	40	100	20	1,200	420
YLBX2002L150	(R10) 20.0	40	150	20	1,200	420

HRC55 End Mill for DLC colorful Aluminium 3 Flutes
MG0.6, 3 Flutes DLC colorful coating



加工方法
Operation



特性
Characteristics



ARTICLE NO.	Dia. (R) (mm)	L.O.C. (mm)	O.A.L. (mm)	S. D (mm)	Aluminium	
					RPM 回転速度 (min-1)	FEED 送り速度 (mm/min)
YLAX0103	1.0	3	50	4	31,500	200
YLAX0153	1.5	5	50	4	21,000	200
YLAX0203	2.0	6	50	4	15,500	200
YLAX0253	2.5	8	50	4	13,000	250
YLAX0303	3.0	9	50	4	10,500	300
YLAX0403	4.0	12	50	4	8,000	300
YLAX0403L075	4.0	16	75	4	8,000	300
YLAX0403L100	4.0	20	100	4	8,000	300
YLAX0503	5.0	15	50	6	6,350	300
YLAX0603	6.0	18	50	6	5,300	300
YLAX0603L075	6.0	25	75	6	5,300	300
YLAX0603L100	6.0	30	100	6	5,300	300
YLAX0603L150	6.0	45	150	6	5,300	300
YLAX0803	8.0	24	80	8	4,000	300
YLAX0803L075	8.0	30	75	8	4,000	300
YLAX0803L100	8.0	35	100	8	4,000	300
YLAX0803L150	8.0	50	150	8	4,000	300
YLAX1003	10.0	30	75	10	3,200	300
YLAX1003L100	10.0	40	100	10	3,200	300
YLAX1003L150	10.0	55	150	10	3,200	300
YLAX1203	12.0	35	75	12	2,650	300
YLAX1203L100	12.0	45	100	12	2,650	300
YLAX1203L150	12.0	55	150	12	2,650	300
YLAX1403	14.0	45	100	14	2,000	420
YLAX1403L150	14.0	60	150	14	2,000	420
YLAX1603	16.0	45	100	16	1,500	420
YLAX1603L150	16.0	70	150	16	1,500	420
YLAX1803	18.0	45	100	18	1,400	420
YLAX1803L150	18.0	70	150	18	1,400	420
YLAX2003	20.0	45	100	20	1,200	420
YLAX2003L150	20.0	70	150	20	1,200	420

HRC60 Ball End Mill Aluminum 2 Flutes
MG0.6, 2 Flutes, S Fire Coating



Operation

Characteristics

ARTICLE NO.	Dia. (R) (mm)	L.O.C. (mm)	O.A.L. (mm)	S. D (mm)	碳钢 Carbon Steel		不锈钢 Stainless Steel		球墨铸铁 Cast Iron		铜 Copper	
					RPM 转速 (min-1)	FEED 进给量 (mm/min)	RPM 转速 (min-1)	FEED 进给量 (mm/min)	RPM 转速 (min-1)	FEED 进给量 (mm/min)	RPM 转速 (min-1)	FEED 进给量 (mm/min)
YLTB0102	(R0.5) 1.0	2	50	4	31,500	564	25,000	412	31,500	564	32,500	700
YLTB0152	(R0.75) 1.5	3	50	4	26,250	578	20,860	418	26,250	578	25,500	715
YLTB0202	(R1) 2.0	4	50	4	21,000	582	16,720	425	21,000	582	19,000	730
YLTB0252	(R1.25) 2.5	5	50	4	15,750	596	12,580	430	15,750	596	12,700	745
YLTB0302	(R1.5) 3.0	6	50	4	10,500	620	8,450	435	10,500	620	12,500	760
YLTB0402	(R2) 4.0	8	50	4	9,250	630	6,350	442	9,250	630	9,500	765
YLTB0402L075	(R2) 4.0	8	75	4	9,250	630	6,350	442	9,250	630	9,500	765
YLTB0402L100	(R2) 4.0	8	100	4	9,250	630	6,350	442	9,250	630	9,500	765
YLTB0502	(R2.5) 5.0	10	50	6	7,950	640	5,095	447	7,950	640	7,650	775
YLTB0602	(R3) 6.0	12	50	6	5,300	670	4,200	465	5,300	670	6,300	800
YLTB0602L075	(R3) 6.0	12	75	6	5,300	670	4,200	465	5,300	670	6,300	800
YLTB0602L100	(R3) 6.0	12	100	6	5,300	670	4,200	465	5,300	670	6,300	800
YLTB0602L150	(R3) 6.0	12	150	6	5,300	670	4,200	465	5,300	670	6,300	800
YLTB0802	(R4) 8.0	16	60	8	3,950	790	3,150	555	3,950	790	4,750	950
YLTB0802L075	(R4) 8.0	16	75	8	3,950	790	3,150	555	3,950	790	4,750	950
YLTB0802L100	(R4) 8.0	16	100	8	3,950	790	3,150	555	3,950	790	4,750	950
YLTB0802L150	(R4) 8.0	16	150	8	3,950	790	3,150	555	3,950	790	4,750	950
YLTB1002	(R5) 10.0	20	75	10	3,150	745	2,500	525	3,150	745	3,800	890
YLTB1002L150	(R5) 10.0	20	150	10	3,150	745	2,500	525	3,150	745	3,800	890
YLTB1202	(R6) 12.0	24	75	12	2,650	700	2,100	490	2,650	700	3,170	840
YLTB1202L150	(R6) 12.0	24	150	12	2,650	700	2,100	490	2,650	700	3,170	840
YLTB1602	(R8) 16.0	32	100	16	1,990	525	1,580	370	1,990	525	2,400	630
YLTB1602L150	(R8) 16.0	32	150	16	1,990	525	1,580	370	1,990	525	2,400	630
YLTB2002	(R10) 20.0	40	100	20	1,590	420	1,260	290	1,590	420	1,900	500
YLTB2002L150	(R10) 20.0	40	150	20	1,590	420	1,260	290	1,590	420	1,900	500

HRC60 End Mill 4 Flutes
MG0.6, 4 Flutes, S Fire Coating



Operation

Characteristics

ARTICLE NO.	Dia. (R) (mm)	L.O.C. (mm)	O.A.L. (mm)	S. D (mm)	碳钢 Carbon Steel		不锈钢 Stainless Steel		球墨铸铁 Cast Iron		铜 Copper	
					RPM 转速 (min-1)	FEED 进给量 (mm/min)	RPM 转速 (min-1)	FEED 进给量 (mm/min)	RPM 转速 (min-1)	FEED 进给量 (mm/min)	RPM 转速 (min-1)	FEED 进给量 (mm/min)
YLTE0104	1.0	3	50	4	20,000	240	11,000	85	20,000	240	47,600	420
YLTE0154	1.5	4	50	4	13,500	250	8,000	90	13,500	250	31,800	620
YLTE0204	2.0	6	50	4	13,000	300	7,000	110	13,000	300	24,000	590
YLTE0254	2.5	8	50	4	11,000	370	6,300	110	11,000	370	19,200	960
YLTE0304	3.0	8	50	3.4	9,000	480	5,300	120	9,000	480	15,800	860
YLTE0404	4.0	11	50	4	6,650	500	4,250	135	6,650	500	12,000	900
YLTE0404L075	4.0	16	75	4	6,450	550	4,000	130	6,450	550	11,800	920
YLTE0404L100	4.0	20	100	4	6,000	580	3,800	130	6,000	600	10,800	1,040
YLTE0504	5.0	13	50	5.6	5,300	600	3,500	130	5,300	600	9,400	1,040
YLTE0504L075	5.0	18	75	5	5,000	550	3,420	130	5,000	600	9,000	900
YLTE0504L100	5.0	30	100	5	4,900	600	3,250	140	4,850	550	8,500	920
YLTE0604	6.0	16	50	6	4,500	600	3,000	140	4,500	600	7,800	1,040
YLTE0604L075	6.0	24	75	6	4,300	550	2,800	135	4,300	550	7,500	860
YLTE0604L100	6.0	30	100	6	4,000	580	2,500	135	4,000	600	7,000	900
YLTE0804L150	6.0	45	150	6	3,800	580	2,000	140	3,900	600	6,500	960
YLTE0804	8.0	20	60	8	3,300	550	1,850	120	3,300	550	5,800	1,010
YLTE0804L075	8.0	25	75	8	3,100	550	1,650	120	3,000	550	5,500	1,010
YLTE0804L100	8.0	35	100	8	2,950	520	1,450	120	2,850	550	5,350	1,010
YLTE0804L150	8.0	50	150	8	2,800	520	1,400	120	2,800	550	5,000	1,010
YLTE1004	10.0	25	75	10	2,600	520	1,500	125	2,600	520	4,800	1,010
YLTE1004L100	10.0	40	100	10	2,450	520	1,350	125	2,550	520	4,650	1,010
YLTE1004L150	10.0	55	150	10	2,400	520	1,300	125	2,500	520	4,400	1,010
YLTE1204	12.0	30	75	12	2,200	520	1,200	120	2,200	520	4,000	1,010
YLTE1204L100	12.0	45	100	12	2,000	520	1,200	130	2,100	520	3,900	1,010
YLTE1204L150	12.0	55	150	12	1,950	520	1,000	140	2,000	520	3,650	1,010
YLTE1404	14.0	45	100	14	1,900	550	1,200	140	1,900	550	3,400	990
YLTE1404L150	14.0	70	150	14	1,800	550	1,200	140	1,800	550	3,000	990
YLTE1604	16.0	40	100	16	1,700	530	1,100	130	1,700	530	3,000	960
YLTE1604L150	16.0	80	150	16	1,600	530	1,000	130	1,600	530	2,900	960
YLTE1804	18.0	45	100	18	1,500	520	950	100	1,500	520	2,600	940
YLTE1804L150	18.0	80	150	18	1,400	520	950	100	1,400	520	2,500	940
YLTE2004	20.0	45	100	20	1,300	500	900	90	1,300	500	2,400	890
YLTE2004L150	20.0	80	150	20	1,000	500	850	90	1,000	500	2,000	890

HRC60 Rough End Mill 4 Flutes
MG0.6, 4 Flutes, 5 Fire Coating



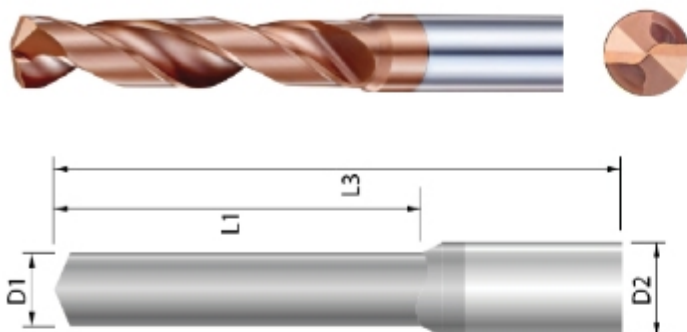
ARTICLE NO.	Dia. (R) (mm)	L.O.C. (mm)	O.A.L. (mm)	S. D (mm)	碳鋼 Carbon Steel		不銹鋼 Stainless Steel		鑄鐵 Cast Iron		銅 Copper	
					RPM 迴轉速度 (min-1)	FEED 進給速度 (mm/min)	RPM 迴轉速度 (min-1)	FEED 進給速度 (mm/min)	RPM 迴轉速度 (min-1)	FEED 進給速度 (mm/min)	RPM 迴轉速度 (min-1)	FEED 進給速度 (mm/min)
YLRT0304	3.0	8	50	4	9,000	480	5,300	120	9,000	480	15,800	860
YLRT0404	4.0	10	50	4	6,650	500	4,250	135	6,650	500	12,000	900
YLRT0504	5.0	13	50	6	5,300	600	3,500	130	5,300	600	9,400	1,040
YLRT0604	6.0	15	50	6	4,500	600	3,000	140	4,500	600	7,800	1,040
YLRT0604L075	6.0	24	75	6	4,300	550	2,800	135	4,300	550	7,500	860
YLRT0604L100	6.0	30	100	6	4,000	580	2,500	135	4,000	580	7,000	900
YLRT0804	8.0	20	60	8	3,300	550	1,850	120	3,300	550	5,800	1,040
YLRT0804L075	8.0	25	75	8	3,100	550	1,650	120	3,100	550	5,500	1,040
YLRT0804L100	8.0	35	100	8	2,950	520	1,450	120	2,950	520	5,350	1,040
YLRT1004	10.0	25	75	10	2,600	520	1,500	125	2,600	520	4,800	1,040
YLRT1004L100	10.0	40	100	10	2,450	520	1,350	125	2,450	520	4,650	1,040
YLRT1204	12.0	30	75	12	2,200	520	1,200	120	2,200	520	4,000	1,040
YLRT1204L100	12.0	45	100	12	2,000	520	1,200	130	2,000	520	3,900	1,040
YLRT1404	14.0	40	100	14	1,900	550	1,200	140	1,900	550	3,650	990
YLRT1404L150	14.0	70	150	14	1,800	550	1,200	140	1,800	550	3,400	990
YLRT1604	16.0	45	100	16	1,700	530	1,100	130	1,700	530	3,000	960
YLRT1604L150	16.0	80	150	16	1,600	530	1,000	130	1,600	530	2,900	960
YLRT1804	18.0	45	100	18	1,500	520	950	100	1,500	520	2,600	940
YLRT1804L150	18.0	80	150	18	1,400	520	950	100	1,400	520	2,500	940
YLRT2004	20.0	45	100	20	1,300	500	900	90	1,300	500	2,400	890
YLRT2004L150	20.0	80	150	20	1,000	500	850	90	1,000	500	2,000	890



YL CUTTING TOOLS

**CARBIDE
DRILL**

YL3D



Product Specification

型號 Type No.	D1直徑 Diameter	L1刃長 Flute Length	L3全長 O.A.L.	D2柄徑 Shank Dia.
YL3D030	3.0	20	62	6
YL3D031	3.1	20	62	6
YL3D032	3.2	20	62	6
YL3D033	3.3	20	62	6
YL3D034	3.4	20	62	6
YL3D035	3.5	20	62	6
YL3D036	3.6	20	62	6
YL3D037	3.7	20	62	6
YL3D038	3.8	24	66	6
YL3D039	3.9	24	66	6
YL3D040	4.0	24	66	6
YL3D041	4.1	24	66	6
YL3D042	4.2	24	66	6
YL3D043	4.3	24	66	6
YL3D044	4.4	24	66	6
YL3D045	4.5	24	66	6
YL3D046	4.6	24	66	6
YL3D047	4.7	24	66	6
YL3D048	4.8	28	66	6
YL3D049	4.9	28	66	6
YL3D050	5.0	28	66	6
YL3D051	5.1	28	66	6
YL3D052	5.2	28	66	6
YL3D053	5.3	28	66	6
YL3D054	5.4	28	66	6
YL3D055	5.5	28	66	6
YL3D056	5.6	28	66	6
YL3D057	5.7	28	66	6
YL3D058	5.8	28	66	6

型號 Type No.	D1直徑 Diameter	L1刃長 Flute Length	L3全長 O.A.L.	D2柄徑 Shank Dia.
YL3D059	5.9	28	66	6
YL3D060	6.0	28	66	6
YL3D061	6.1	34	79	8
YL3D062	6.2	34	79	8
YL3D063	6.3	34	79	8
YL3D064	6.4	34	79	8
YL3D065	6.5	34	79	8
YL3D066	6.6	34	79	8
YL3D067	6.7	34	79	8
YL3D068	6.8	34	79	8
YL3D069	6.9	34	79	8
YL3D070	7.0	34	79	8
YL3D071	7.1	41	79	8
YL3D072	7.2	41	79	8
YL3D073	7.3	41	79	8
YL3D074	7.4	41	79	8
YL3D075	7.5	41	79	8
YL3D076	7.6	41	79	8
YL3D077	7.7	41	79	8
YL3D078	7.8	41	79	8
YL3D079	7.9	41	79	8
YL3D080	8.0	41	79	8
YL3D081	8.1	47	89	10
YL3D082	8.2	47	89	10
YL3D083	8.3	47	89	10
YL3D084	8.4	47	89	10
YL3D085	8.5	47	89	10
YL3D086	8.6	47	89	10
YL3D087	8.7	47	89	10
YL3D088	8.8	47	89	10
YL3D089	8.9	47	89	10
YL3D090	9.0	47	89	10
YL3D091	9.1	47	89	10
YL3D092	9.2	47	89	10
YL3D093	9.3	47	89	10
YL3D094	9.4	47	89	10
YL3D095	9.5	47	89	10
YL3D096	9.6	47	89	10
YL3D097	9.7	47	89	10

型號 Type No.	D1直徑 Diameter	L1刃長 Flute Length	L3全長 O.A.L.	D2柄徑 Shank Dia.
YL3D098	9.8	47	89	10
YL3D099	9.9	47	89	10
YL3D100	10.0	47	89	10
YL3D101	10.1	55	102	12
YL3D102	10.2	55	102	12
YL3D103	10.3	55	102	12
YL3D104	10.4	55	102	12
YL3D105	10.5	55	102	12
YL3D106	10.6	55	102	12
YL3D107	10.7	55	102	12
YL3D108	10.8	55	102	12
YL3D109	10.9	55	102	12
YL3D110	11.0	55	102	12
YL3D111	11.1	55	102	12
YL3D112	11.2	55	102	12
YL3D113	11.3	55	102	12
YL3D114	11.4	55	102	12
YL3D115	11.5	55	102	12
YL3D116	11.6	55	102	12
YL3D117	11.7	55	102	12
YL3D118	11.8	55	102	12
YL3D119	11.9	55	102	12
YL3D120	12.0	55	102	12
YL3D123	12.3	60	107	14
YL3D125	12.5	60	107	14
YL3D128	12.8	60	107	14
YL3D130	13.0	60	107	14
YL3D135	13.5	60	107	14
YL3D138	13.8	60	107	14
YL3D140	14.0	60	107	14
YL3D145	14.5	65	115	16
YL3D148	14.8	65	115	16
YL3D150	15.0	65	115	16
YL3D155	15.5	65	115	16
YL3D158	15.8	65	115	16
YL3D160	16.0	65	115	16
YL3D165	16.5	73	123	18
YL3D168	16.8	73	123	18
YL3D170	17.0	73	123	18
YL3D175	17.5	73	123	18

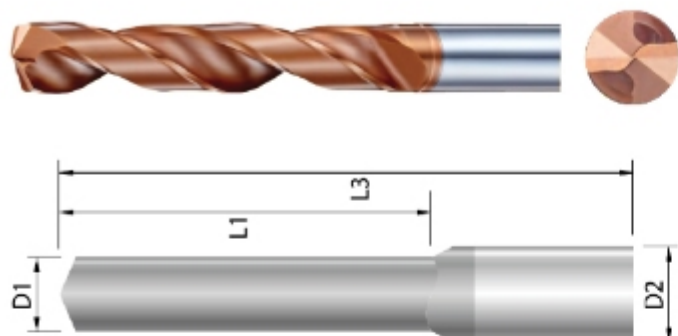
型號 Type No.	D1直徑 Diameter	L1刃長 Flute Length	L3全長 O.A.L.	D2柄徑 Shank Dia.
YL3D178	17.8	73	123	18
YL3D180	18.0	73	123	18
YL3D185	18.5	79	131	20
YL3D190	19.0	79	131	20
YL3D195	19.5	79	131	20
YL3D198	19.8	79	131	20
YL3D200	20.0	79	131	20

公差表 TOLERANCE

直徑 D1	直徑公差值 D1 Tolerance
3.0 ~ 5.9	0 -0.012
6.0 ~ 11.9	0 -0.015
12.0 ~ 15.8	0 -0.018
16.0 ~ 20.0	0 -0.021

柄徑 D2	柄徑公差值 D2 Tolerance
ø6	0 -0.008
ø8	0 -0.009
ø10	0 -0.011
ø12	0 -0.011
ø14	0 -0.011
ø16	0 -0.011
ø18	0 -0.011
ø20	0 -0.013

YL5D



Product Specification

型號 Type No.	D1直徑 Diameter	L1刃長 Flute Length	L3全長 O.A.L.	D2柄徑 Shank Dia.
YL5D030	3.0	28	66	6
YL5D031	3.1	28	66	6
YL5D032	3.2	28	66	6
YL5D033	3.3	28	66	6
YL5D034	3.4	28	66	6
YL5D035	3.5	28	66	6
YL5D036	3.6	28	66	6
YL5D037	3.7	28	66	6
YL5D038	3.8	36	74	6
YL5D039	3.9	36	74	6
YL5D040	4.0	36	74	6
YL5D041	4.1	36	74	6
YL5D042	4.2	36	74	6
YL5D043	4.3	36	74	6
YL5D044	4.4	36	74	6
YL5D045	4.5	36	74	6
YL5D046	4.6	36	74	6
YL5D047	4.7	36	74	6
YL5D048	4.8	44	82	6
YL5D049	4.9	44	82	6
YL5D050	5.0	44	82	6
YL5D051	5.1	44	82	6
YL5D052	5.2	44	82	6
YL5D053	5.3	44	82	6
YL5D054	5.4	44	82	6
YL5D055	5.5	44	82	6
YL5D056	5.6	44	82	6
YL5D057	5.7	44	82	6
YL5D058	5.8	44	82	6

型號 Type No.	D1直徑 Diameter	L1刃長 Flute Length	L3全長 O.A.L.	D2柄徑 Shank Dia.
YL5D059	5.9	44	82	6
YL5D060	6.0	44	82	6
YL5D061	6.1	53	91	8
YL5D062	6.2	53	91	8
YL5D063	6.3	53	91	8
YL5D064	6.4	53	91	8
YL5D065	6.5	53	91	8
YL5D066	6.6	53	91	8
YL5D067	6.7	53	91	8
YL5D068	6.8	53	91	8
YL5D069	6.9	53	91	8
YL5D070	7.0	53	91	8
YL5D071	7.1	53	91	8
YL5D072	7.2	53	91	8
YL5D073	7.3	53	91	8
YL5D074	7.4	53	91	8
YL5D075	7.5	53	91	8
YL5D076	7.6	53	91	8
YL5D077	7.7	53	91	8
YL5D078	7.8	53	91	8
YL5D079	7.9	53	91	8
YL5D080	8.0	53	91	8
YL5D081	8.1	61	103	10
YL5D082	8.2	61	103	10
YL5D083	8.3	61	103	10
YL5D084	8.4	61	103	10
YL5D085	8.5	61	103	10
YL5D086	8.6	61	103	10
YL5D087	8.7	61	103	10
YL5D088	8.8	61	103	10
YL5D089	8.9	61	103	10
YL5D090	9.0	61	103	10
YL5D091	9.1	61	103	10
YL5D092	9.2	61	103	10
YL5D093	9.3	61	103	10
YL5D094	9.4	61	103	10
YL5D095	9.5	61	103	10
YL5D096	9.6	61	103	10
YL5D097	9.7	61	103	10

型號 Type No.	D1直徑 Diameter	L1刃長 Flute Length	L3全長 O.A.L.	D2柄徑 Shank Dia.
YL5D098	9.8	61	103	10
YL5D099	9.9	61	103	10
YL5D100	10.0	61	103	10
YL5D101	10.1	71	118	12
YL5D102	10.2	71	118	12
YL5D103	10.3	71	118	12
YL5D104	10.4	71	118	12
YL5D105	10.5	71	118	12
YL5D106	10.6	71	118	12
YL5D107	10.7	71	118	12
YL5D108	10.8	71	118	12
YL5D109	10.9	71	118	12
YL5D110	11.0	71	118	12
YL5D111	11.1	71	118	12
YL5D112	11.2	71	118	12
YL5D113	11.3	71	118	12
YL5D114	11.4	71	118	12
YL5D115	11.5	71	118	12
YL5D116	11.6	71	118	12
YL5D117	11.7	71	118	12
YL5D118	11.8	71	118	12
YL5D119	11.9	71	118	12
YL5D120	12.0	71	118	12
YL5D123	12.3	77	124	14
YL5D125	12.5	77	124	14
YL5D128	12.8	77	124	14
YL5D130	13.0	77	124	14
YL5D135	13.5	77	124	14
YL5D138	13.8	77	124	14
YL5D140	14.0	77	124	14
YL5D145	14.5	83	133	16
YL5D148	14.8	83	133	16
YL5D150	15.0	83	133	16
YL5D155	15.5	83	133	16
YL5D158	15.8	83	133	16
YL5D160	16.0	83	133	16
YL5D165	16.5	93	143	18
YL5D168	16.8	93	143	18
YL5D170	17.0	93	143	18
YL5D175	17.5	93	143	18

型號 Type No.	D1直徑 Diameter	L1刃長 Flute Length	L3全長 O.A.L.	D2柄徑 Shank Dia.
YL5D178	17.8	93	143	18
YL5D180	18.0	93	143	18
YL5D185	18.5	101	153	20
YL5D190	19.0	101	153	20
YL5D195	19.5	101	153	20
YL5D198	19.8	101	153	20
YL5D200	20.0	101	153	20

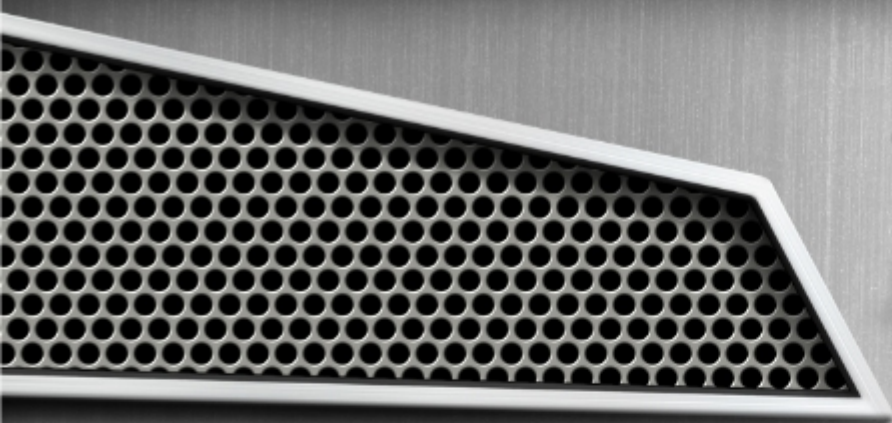
公差表 TOLERANCE

直徑 D1	直徑公差值 D1 Tolerance
3.0 ~ 5.9	0 -0.012
6.0 ~ 11.9	0 -0.015
12.0 ~ 15.8	0 -0.018
16.0 ~ 20.0	0 -0.021

柄徑 D2	柄徑公差值 D2 Tolerance
Ø6	0 -0.008
Ø8	0 -0.009
Ø10	0 -0.011
Ø12	0 -0.011
Ø14	0 -0.011
Ø16	0 -0.011
Ø18	0 -0.011
Ø20	0 -0.013

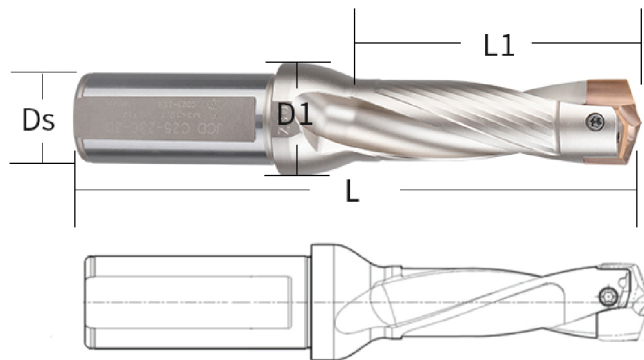


YL CUTTING TOOLS



CROWN TIP DRILL





HIGH QUALITY STEEL



WEAR-RESISTANT



ANTI SEISMIC



NANO COATING



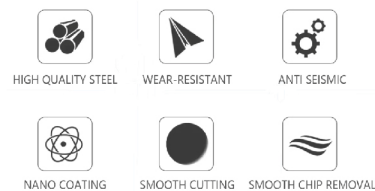
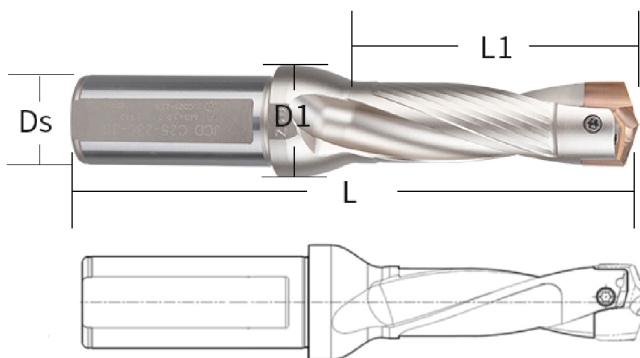
SMOOTH CUTTING



SMOOTH CHIP REMOVAL

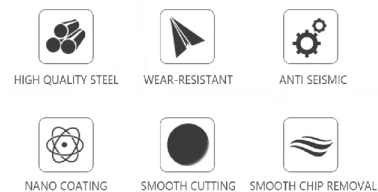
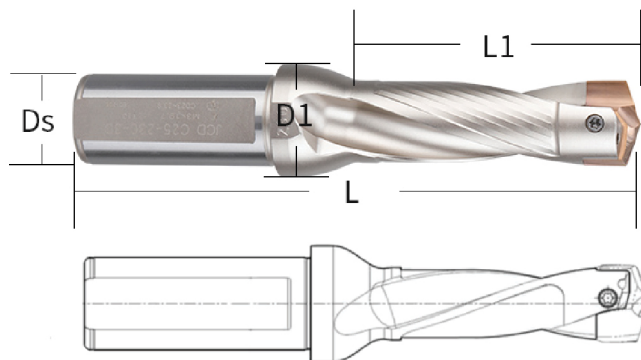
3D CROWN TIP DRILL

PRODUCT CODE	D	L1	D1	Ds	Inserts size	SCREWS 	WRENCH 
JCD C20-100-3D	10	30	24	20	□ HCD-10.0-10.9	CM2.2*9	T6
JCD C20-110-3D	11	33	24	20	□ HCD-11.0-11.9		
JCD C20-120-3D	12	36	24	20	□ HCD-12.0-12.9		
JCD C20-130-3D	13	39	24	20	□ HCD-13.0-13.9	CM2.5*12	T8
JCD C20-140-3D	14	42	24	20	□ HCD-14.0-14.9		
JCD C20-150-3D	15	45	24	20	□ HCD-15.0-15.9		
JCD C20-160-3D	16	48	24	20	□ HCD-16.0-16.9	CM2.5*14.2	T8
JCD C20-170-3D	17	51	24	20	□ HCD-17.0-17.9		
JCD C20-180-3D	18	54	24	20	□ HCD-18.0-18.9	CM3*16.5	T10
JCD C25-190-3D	19	57	29	25	□ HCD-19.0-19.9		
JCD C25-200-3D	20	60	29	25	□ HCD-20.0-20.9		
JCD C25-210-3D	21	63	29	25	□ HCD-21.0-21.9	CM3*19.7	T10
JCD C25-220-3D	22	66	29	25	□ HCD-22.0-22.9		
JCD C25-230-3D	23	69	29	25	□ HCD-23.0-23.9		
JCD C32-240-3D	24	72	39	32	□ HCD-24.0-24.9	CM3.5*22.5	T15
JCD C32-250-3D	25	75	39	32	□ HCD-25.0-25.9		
JCD C32-260-3D	26	78	39	32	□ HCD-26.0-26.9	CM3.5*24	T15
JCD C32-270-3D	27	81	39	32	□ HCD-27.0-27.9		
JCD C32-280-3D	28	84	39	32	□ HCD-28.0-28.9	CM4*25.5	T15
JCD C32-290-3D	29	87	39	32	□ HCD-29.0-29.9		
JCD C32-300-3D	30	90	39	32	□ HCD-30.0-30.9	CM5*27.7	T20



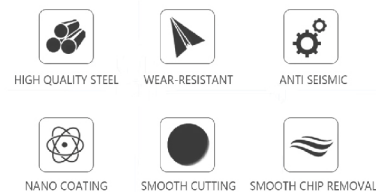
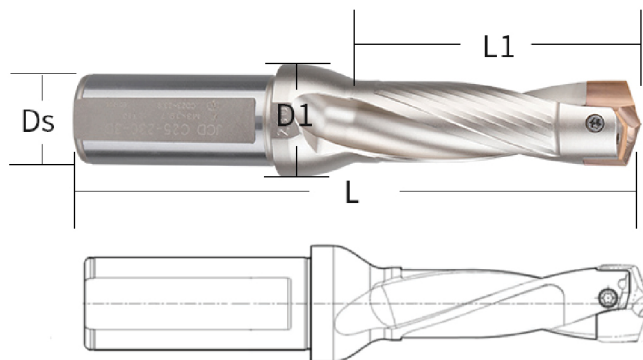
5D CROWN TIP DRILL

PRODUCT CODE	D	L1	D1	Ds	Inserts size	SCREWS 	WRENCH 
JCD C20-100-5D	10	50	24	20	□ HCD-10.0-10.9	CM2.2*9	T6
JCD C20-110-5D	11	55	24	20	□ HCD-11.0-11.9		
JCD C20-120-5D	12	60	24	20	□ HCD-12.0-12.9		
JCD C20-130-5D	13	65	24	20	□ HCD-13.0-13.9	CM2.5*12	T8
JCD C20-140-5D	14	70	24	20	□ HCD-14.0-14.9		
JCD C20-150-5D	15	75	24	20	□ HCD-15.0-15.9		
JCD C20-160-5D	16	80	24	20	□ HCD-16.0-16.9	CM2.5*14.2	T8
JCD C20-170-5D	17	85	24	20	□ HCD-17.0-17.9		
JCD C20-180-5D	18	90	24	20	□ HCD-18.0-18.9		
JCD C25-190-5D	19	95	29	25	□ HCD-19.0-19.9	CM3*16.5	T10
JCD C25-200-5D	20	100	29	25	□ HCD-20.0-20.9		
JCD C25-210-5D	21	105	29	25	□ HCD-21.0-21.9		
JCD C25-220-5D	22	110	29	25	□ HCD-22.0-22.9	CM3*19.7	T10
JCD C25-230-5D	23	115	29	25	□ HCD-23.0-23.9		
JCD C32-240-5D	24	120	39	32	□ HCD-24.0-24.9		
JCD C32-250-5D	25	125	39	32	□ HCD-25.0-25.9	CM3.5*22.5	T15
JCD C32-260-5D	26	130	39	32	□ HCD-26.0-26.9		
JCD C32-270-5D	27	135	39	32	□ HCD-27.0-27.9		
JCD C32-280-5D	28	140	39	32	□ HCD-28.0-28.9	CM3.5*24	T15
JCD C32-290-5D	29	145	39	32	□ HCD-29.0-29.9		
JCD C32-300-5D	30	150	39	32	□ HCD-30.0-30.9		
JCD C32-300-5D	30	150	39	32	□ HCD-30.0-30.9	CM4*25.5	T15
JCD C32-300-5D	30	150	39	32	□ HCD-30.0-30.9	CM5*27.7	T20



8D CROWN TIP DRILL

PRODUCT CODE	D	L1	D1	Ds	Inserts size	SCREWS 	WRENCH 
JCD C20-100-8D	10	80	24	20	□ HCD-10.0-10.9	CM2.2*9	T6
JCD C20-110-8D	11	88	24	20	□ HCD-11.0-11.9		
JCD C20-120-8D	12	96	24	20	□ HCD-12.0-12.9		
JCD C20-130-8D	13	104	24	20	□ HCD-13.0-13.9	CM2.5*12	T8
JCD C20-140-8D	14	112	24	20	□ HCD-14.0-14.9		
JCD C20-150-8D	15	120	24	20	□ HCD-15.0-15.9		
JCD C20-160-8D	16	128	24	20	□ HCD-16.0-16.9	CM2.5*14.2	T8
JCD C20-170-8D	17	136	24	20	□ HCD-17.0-17.9		
JCD C20-180-8D	18	144	24	20	□ HCD-18.0-18.9	CM3*16.5	T10
JCD C25-190-8D	19	152	29	25	□ HCD-19.0-19.9		
JCD C25-200-8D	20	160	29	25	□ HCD-20.0-20.9		
JCD C25-210-8D	21	168	29	25	□ HCD-21.0-21.9	CM3*19.7	T10
JCD C25-220-8D	22	176	29	25	□ HCD-22.0-22.9		
JCD C25-230-8D	23	184	29	25	□ HCD-23.0-23.9		
JCD C32-240-8D	24	192	39	32	□ HCD-24.0-24.9	CM3.5*22.5	T15
JCD C32-250-8D	25	200	39	32	□ HCD-25.0-25.9		
JCD C32-260-8D	26	208	39	32	□ HCD-26.0-26.9	CM3.5*24	T15
JCD C32-270-8D	27	216	39	32	□ HCD-27.0-27.9		
JCD C32-280-8D	28	224	39	32	□ HCD-28.0-28.9	CM4*25.5	T15
JCD C32-290-8D	29	232	39	32	□ HCD-29.0-29.9		
JCD C32-300-8D	30	240	39	32	□ HCD-30.0-30.9	CM5*27.7	T20



10D CROWN TIP DRILL

PRODUCT CODE	D	L1	D1	Ds	Inserts size	SCREWS 	WRENCH 
JCD C20-100-10D	10	100	24	20	□ HCD-10.0-10.9	CM2.2*9	T6
JCD C20-110-10D	11	110	24	20	□ HCD-11.0-11.9		
JCD C20-120-10D	12	120	24	20	□ HCD-12.0-12.9		
JCD C20-130-10D	13	130	24	20	□ HCD-13.0-13.9	CM2.5*12	T8
JCD C20-140-10D	14	140	24	20	□ HCD-14.0-14.9		
JCD C20-150-10D	15	150	24	20	□ HCD-15.0-15.9		
JCD C20-160-10D	16	160	24	20	□ HCD-16.0-16.9	CM2.5*14.2	T8
JCD C20-170-10D	17	170	24	20	□ HCD-17.0-17.9		
JCD C20-180-10D	18	180	24	20	□ HCD-18.0-18.9	CM3*16.5	T10
JCD C25-190-10D	19	190	29	25	□ HCD-19.0-19.9		
JCD C25-200-10D	20	200	29	25	□ HCD-20.0-20.9		
JCD C25-210-10D	21	210	29	25	□ HCD-21.0-21.9	CM3*19.7	T10
JCD C25-220-10D	22	220	29	25	□ HCD-22.0-22.9		
JCD C25-230-10D	23	230	29	25	□ HCD-23.0-23.9		
JCD C32-240-10D	24	240	39	32	□ HCD-24.0-24.9	CM3.5*22.5	T15
JCD C32-250-10D	25	250	39	32	□ HCD-25.0-25.9		
JCD C32-260-10D	26	260	39	32	□ HCD-26.0-26.9	CM3.5*24	T15
JCD C32-270-10D	27	270	39	32	□ HCD-27.0-27.9		
JCD C32-280-10D	28	280	39	32	□ HCD-28.0-28.9	CM4*25.5	T15
JCD C32-290-10D	29	290	39	32	□ HCD-29.0-29.9		
JCD C32-300-10D	30	300	39	32	□ HCD-30.0-30.9	CM5*27.7	T20



YL CUTTING TOOLS

UDRILL



ข้อมูลเทคโนโลยีดอกสว่านแบบถอดเปลี่ยนเร็ว

DISCARD-STYLE FAST-BIT TECHNICAL INFORMATION

快速鑽加工相關參數計算方法

Related to the processing parameters of shallow hole drilling method of calculation

切削速度 (Vc)

$$V_c = \frac{D_c \times \pi \times n}{1000}$$

Vc (m/min) : 切削速度

Dc(mm): 鑽頭直徑

n(rev/min): 轉速

實例

主軸轉速為 1600rev/min, 鑽頭直徑為 $\phi 20$ mm, 其切削速度為:

$$V_c = \frac{D_c \times \pi \times n}{1000} = \frac{20 \times 3.14 \times 1600}{1000} = 100(\text{m/min})$$

進給速度

$$V_f = f_r \times n$$

Vf (mm/min) : 進給速度

Fr(mm/rev): 每轉進給量

n(rev/min): 主軸轉速

實例

主軸轉速為 1500rev/min, 每轉進給量為 0.1mm/rev, 其進給速度為:

$$V_f = f_r \times n = 0.1 \times 1500 = 150(\text{mm/min})$$

孔加工時間

$$T_c = \frac{L_d \times i}{n \times f}$$

Tc (min) : 加工時間 Fr(mm/rev): 每轉進給量 i= 孔數量

Ld(min): 鑽孔深

n(rev/min): 主軸轉速

實例

鑽一個直徑為 $\phi 20$ mm, 深為 40mm 的孔, 切削速度為 100m/min, 每轉進給量為 0.1mm/rev, 求鑽削時間。

$$V_c = \frac{V_c \times 1000}{D_c \times \pi} = \frac{100 \times 1000}{20 \times 3.14} = 1600(\text{rev/min})$$

$$T_c = \frac{L_d \times i}{n \times f} = \frac{40 \times 1}{1600 \times 0.1} = 0.25(\text{min})$$

金屬去除率

$$Q = \frac{V_f \times \pi \times D_c^2}{4 \times 1000}$$

Q (cm³/min) : 金屬去除率

Dc(mm): 鑽頭直徑

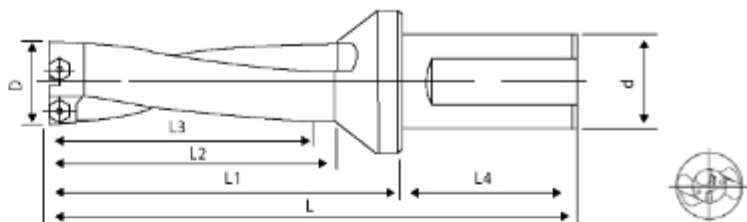
Vf(mm/min): 進給速度

實例

一個直徑為 $\phi 20$ mm 的鑽頭, 加工時的進給速度為 160mm/rev, 其金屬去除率為:

$$Q = \frac{V_f \times \pi \times D_c^2}{4 \times 1000} = \frac{160 \times 3.14 \times 20^2}{4 \times 1000} = 50.24(\text{cm}^3/\text{min})$$

WC ดอกสว่าน U แบบเปลี่ยนเม็ด WC INDEXABLE INSERT DRILL (2×D)



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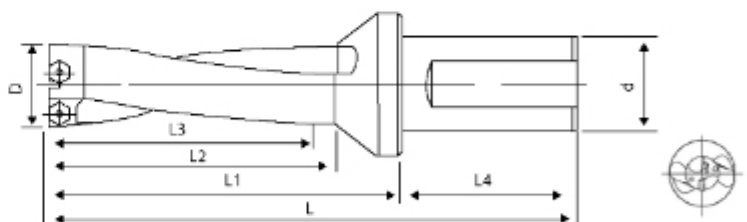
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鑽孔公差 (Hole tolerance) 0/+0.25mm
 鑽頭公差 (Tolerance,D) 0/+0.20mm
 最大鑽深 (Max hole depth,L1) 2XD

Product Specification

Item code	Insert	Clamp scrwe	Wrench
WC14 ~ WC19.5 - C25*2D	WCMX030208	M2.5*5	T8
WC20 ~ WC23.5 - C25*2D	WCMX040208	M2.5*6	T8
WC24 ~ WC25.5 - C25*2D	WCMX050208	M3.0*7	T8
WC26 ~ WC30.5 - C32*2D	WCMX050208	M3.0*7	T8
WC31 ~ WC41.5 - C32*2D	WCMT06T308	M3.5*8	T15
WC42 ~ WC62 - C40*2D	WCMT080412	M4*10	T15
WC63 ~ WC70 - C40*2D	WCMT06T308	M3.5*8	T15

WC ดอกสว่าน U แบบเปลี่ยนเม็ด WC INDEXABLE INSERT DRILL (3×D)



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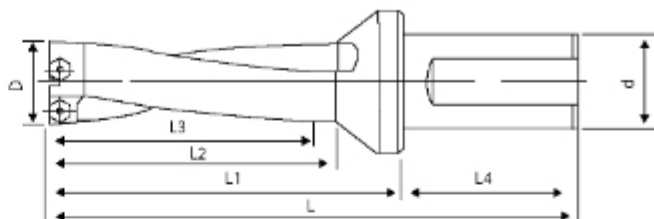
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鑽孔公差 (Hole tolerance) 0/+0.25mm
 鑽頭公差 (Tolerance,D) 0/+0.20mm
 最大鑽深 (Max hole depth,L1) 3XD

Product Specification

Item code	Insert	Clamp scrwe	Wrench
WC14 ~ WC19.5 - C25*3D	WCMX030208	M2.5*5	T8
WC20 ~ WC23.5 - C25*3D	WCMX040208	M2.5*6	T8
WC24 ~ WC25.5 - C25*3D	WCMX050208	M3.0*7	T8
WC26 ~ WC30.5 - C32*2D	WCMX050208	M3.0*7	T8
WC31 ~ WC41.5 - C32*3D	WCMT06T308	M3.5*8	T15
WC42 ~ WC62 - C40*3D	WCMT080412	M4*10	T15
WC63 ~ WC70 - C40*3D	WCMT06T308	M3.5*8	T15

WC ดอกสว่าน U แบบเปลี่ยนเม็ด WC INDEXABLE INSERT DRILL (4×D)



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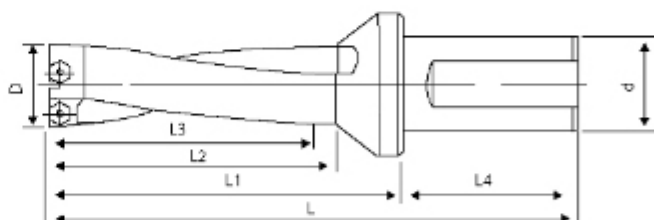
P.219

鑽孔公差 (Hole tolerance) 0/+0.40mm
 鑽頭公差 (Tolerance,D) +0.04/+0.24mm
 最大鑽深 (Max hole depth,L1) 4XD

Product Specification

Item code	Insert	Clamp scrwe	Wrench
WC14 ~ WC19.5 - C25*4D	WCMX030208	M2.5*5	T8
WC20 ~ WC23.5 - C25*4D	WCMX040208	M2.5*6	T8
WC24 ~ WC25.5 - C25*4D	WCMX050208	M3.0*7	T8
WC26 ~ WC30.5 - C32*4D	WCMX050208	M3.0*7	T8
WC31 ~ WC41.5 - C32*4D	WCMT06T308	M3.5*8	T15
WC42 ~ WC62 - C40*4D	WCMT080412	M4*10	T15
WC63 ~ WC70 - C40*4D	WCMT06T308	M3.5*8	T15

WC ดอกสว่าน U แบบเปลี่ยนเม็ด WC INDEXABLE INSERT DRILL (5×D)



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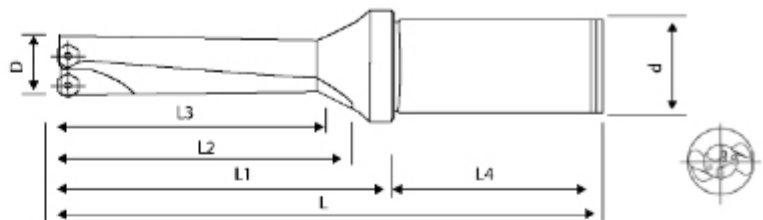
P.219

鑽孔公差 (Hole tolerance) 0/+0.25mm
 鑽頭公差 (Tolerance,D) 0/+0.20mm
 最大鑽深 (Max hole depth,L1) 5XD

Product Specification

Item code	Insert	Clamp scrwe	Wrench
WC14 ~ WC19.5 - C25*5D	WCMX030208	M2.5*5	T8
WC20 ~ WC23.5 - C25*5D	WCMX040208	M2.5*6	T8
WC24 ~ WC25.5 - C25*5D	WCMX050208	M3.0*7	T8
WC26 ~ WC30.5 - C32*5D	WCMX050208	M3.0*7	T8
WC31 ~ WC41.5 - C32*5D	WCMT06T308	M3.5*8	T15
WC42 ~ WC62 - C40*5D	WCMT080412	M4*10	T15
WC63 ~ WC70 - C40*5D	WCMT06T308	M3.5*8	T15

SP ดอกสว่าน U แบบเปลี่ยนเม็ด SP INDEXABLE INSERT DRILL (2×D)



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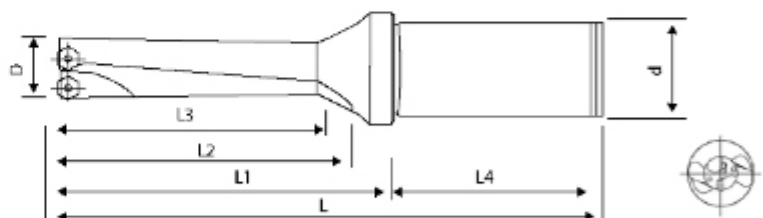
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鑽孔公差 (Hole tolerance) 0/+0.25mm
鑽頭公差 (Tolerance,D) 0/+0.20mm
最大鑽深 (Max hole depth,L1) 2XD

Product Specification

Item code	Insert	Clamp scrwe	Wrench
SP14 ~ SP14.5 - C25*2D	SPMG050204	M2.0*4	T6
SP15 ~ SP21.5 - C25*2D	SPMG060204	M2.2*5	T7
SP22 ~ SP24.5 - C25*2D	SPMG07T308	M2.5*6	T8
SP25 ~ SP27.5 - C32*2D	SPMG07T308	M2.5*6	T8
SP28 ~ SP33 - C32*2D	SPMG090408	M3.5*8	T15
SP33.5 ~ SP41.5 - C32*2D	SPMG110408	M4.0*9	T15
SP42 ~ SP68 - C32*2D	SPMG140512	M5.0*10	T20

SP ดอกสว่าน U แบบเปลี่ยนเม็ด SP INDEXABLE INSERT DRILL (3×D)



P. 124



P. 217



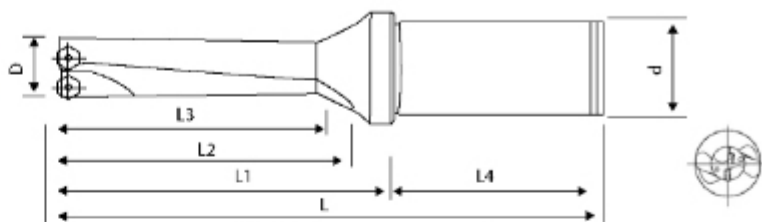
P. 219

鑽孔公差 (Hole tolerance) 0/+0.25mm
鑽頭公差 (Tolerance,D) 0/+0.20mm
最大鑽深 (Max hole depth,L1) 3XD

Product Specification

Item code	Insert	Clamp scrwe	Wrench
SP14 ~ SP14.5 - C25*3D	SPMG050204	M2.0*4	T6
SP15 ~ SP21.5 - C25*3D	SPMG060204	M2.2*5	T7
SP22 ~ SP24.5 - C25*3D	SPMG07T308	M2.5*6	T8
SP25 ~ SP27.5 - C32*3D	SPMG07T308	M2.5*6	T8
SP28 ~ SP33 - C32*3D	SPMG090408	M3.5*8	T15
SP33.5 ~ SP41.5 - C32*3D	SPMG110408	M4.0*9	T15
SP42 ~ SP68 - C32*3D	SPMG140512	M5.0*10	T20

SP ดอกสว่าน U แบบเปลี่ยนเม็ด SP INDEXABLE INSERT DRILL (4×D)

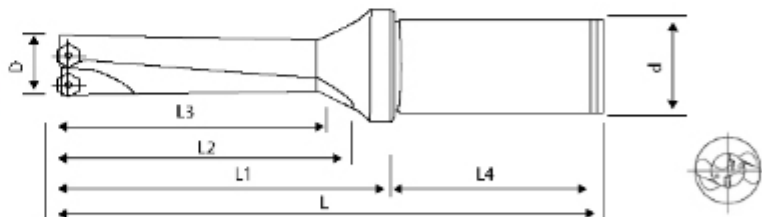


鑽孔公差 (Hole tolerance) 0/+0.40mm
 鑽頭公差 (Tolerance,D) +0.04/+0.24mm
 最大鑽深 (Max hole depth,L1) 4XD

Product Specification

Item code	Insert	Clamp scrwe	Wrench
SP14 ~ SP14.5 - C25*4D	SPMG050204	M2.0*4	T6
SP15 ~ SP21.5 - C25*4D	SPMG060204	M2.2*5	T7
SP22 ~ SP24.5 - C25*4D	SPMG07T308	M2.5*6	T8
SP25 ~ SP27.5 - C32*4D	SPMG07T308	M2.5*6	T8
SP28 ~ SP33 - C32*4D	SPMG090408	M3.5*8	T15
SP33.5 ~ SP41.5 - C32*4D	SPMG110408	M4.0*9	T15
SP42 ~ SP68 - C32*4D	SPMG140512	M5.0*10	T20

SP ดอกสว่าน U แบบเปลี่ยนเม็ด SP INDEXABLE INSERT DRILL (5×D)



鑽孔公差 (Hole tolerance) 0/+0.25mm
 鑽頭公差 (Tolerance,D) 0/+0.20mm
 最大鑽深 (Max hole depth,L1) 5XD

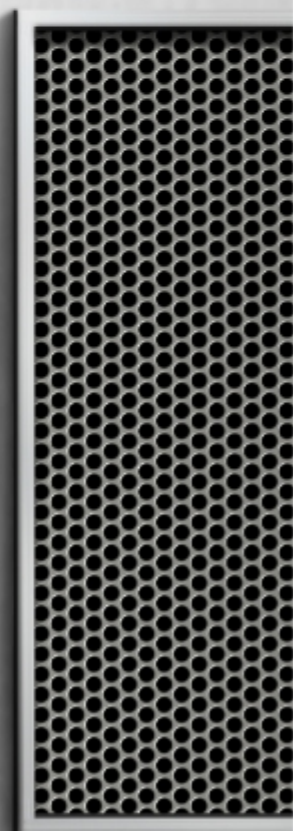
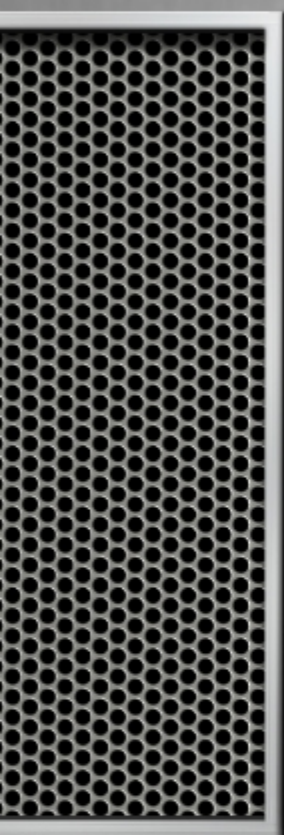
Product Specification

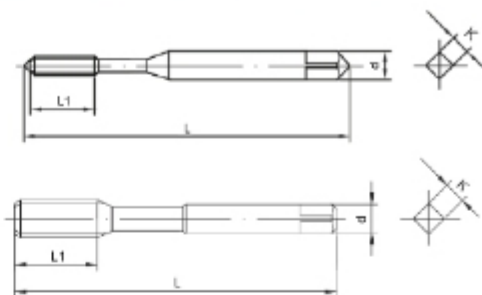
Item code	Insert	Clamp scrwe	Wrench
SP14 ~ SP14.5 - C25*5D	SPMG050204	M2.0*4	T6
SP15 ~ SP21.5 - C25*5D	SPMG060204	M2.2*5	T7
SP22 ~ SP24.5 - C25*5D	SPMG07T308	M2.5*6	T8
SP25 ~ SP27.5 - C32*5D	SPMG07T308	M2.5*6	T8
SP28 ~ SP33 - C32*5D	SPMG090408	M3.5*8	T15
SP33.5 ~ SP41.5 - C32*5D	SPMG110408	M4.0*9	T15
SP42 ~ SP68 - C32*5D	SPMG140512	M5.0*10	T20



YL CUTTING TOOLS

CUTTING TAPS





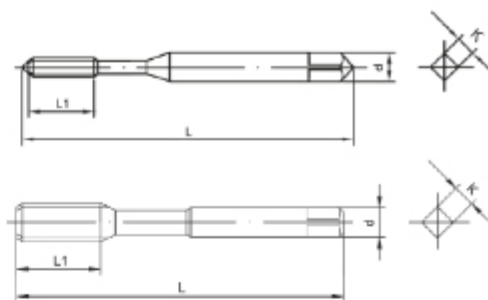
SFT. Chips flow out against tapping, for blind hole. Chamfer length 3- threads POT. pushes chips forward, for through holes. Chamfer length 5 threads

●	●	●	●								
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SFT 上排屑, 盲孔用 3P M1-6 head is pointed.
POT 下排屑, 通孔用 5P M7-10 head will be cut type.

SFT, Chips flow out against tapping, for blind hole, Chamfer length 3-threads POT, pushes chips forward, for through holes, Chamfer length 5 threads



产品外观尺寸表 Products Appearance and Dimension List

商品编号 Item No.	螺纹尺寸 Thread Size	切削锥长度 LC	螺距 P	形状尺寸 (mm)Dimensions			
				L	L1	d	K
YLSFT M2x0.4	M2	5P	P0.4	40	8	3	2.5
YLSFT M2.5x0.45	M2.5		P0.45	44	9	3	2.5
YLSFT M3x0.5	M3		P0.5	46	11	4	3.2
YLSFT M4x0.7	M4		P0.7	52	13	5	4
YLSFT M5x0.8	M5		P0.8	60	16	5.5	4.5
YLSFT M6 x 1.0	M6		P1	62	19	6	4.5
YLSFT M8 x 1.25	M8		P1.25	70	22	6.2	5
YLSFT M10 x 1.5	M10		P1.5	75	24	7	5.5
YLSFT M12 x 1.75	M12		P1.75	82	29	7	6.5
YLSFT M14 x 2	M14		P2	88	30	10.5	8
YLSFT M16 x 2	M16		P2	95	32	12.5	10
YLSFT M18 x 2.5	M18		P2.5	100	37	14	11
YLSFT M20 x 2.5	M20		P2.5	105	37	15	12
YLSFT M22 x 2.5	M22		P2.5	115	38	17	13
YLSFT M24 x 3	M24		P3	120	45	19	15

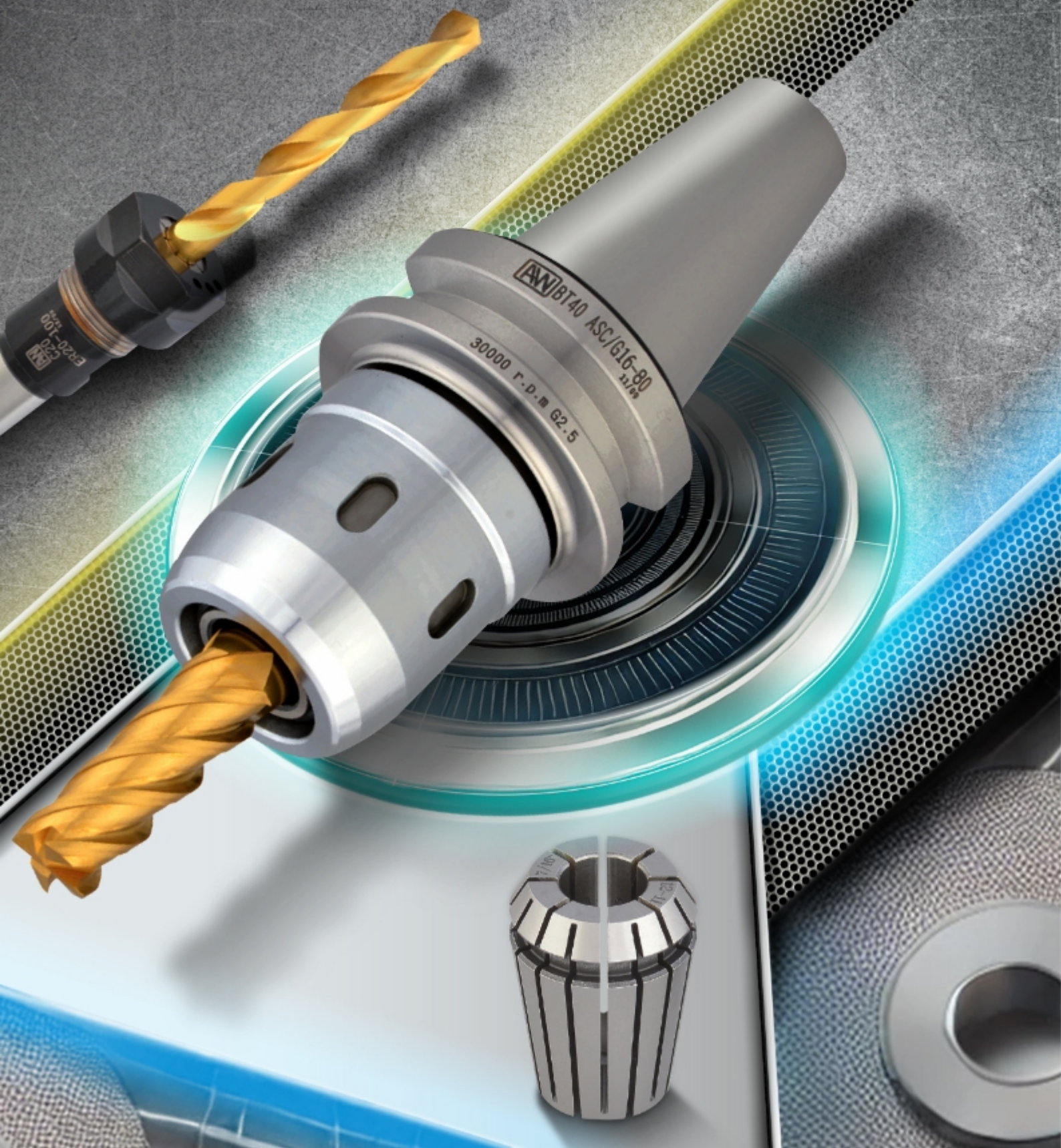
P	P	P	合金钢 SCM	M	K	K	N	N	N	S	S	H
低碳钢	中碳钢	高碳钢	HRC35以下	不锈钢SUS	铸铁FC	球墨铸铁CD	铝AL	铜/紫铜Cu	铸铝ADC	钛合金Ti	镍基合金Ni	HRC35以上





YL CUTTING TOOLS

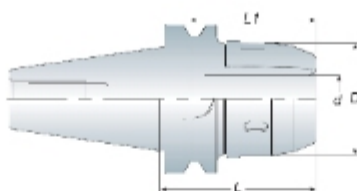
NC TOOLING



SC

High Speed Milling Chuck

高轉速強力夾刀夾磨刀桿



Product Specification

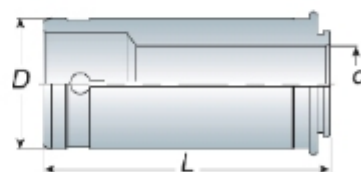
Model No.	Clamping Range	d	D	L	L1	Collet Type	Weight (kg)
BT30 SC16-080	3 ~ 16	16	46	80	65	SC16	1.10
BT30 SC20-080	4 ~ 20	20	53	85	72	SC20	1.30
BT40 SC16-080	3 ~ 16	16	46	80	65	SC16	1.60
BT40 SC16-105	3 ~ 16	16	46	105	65	SC16	2.00
BT40 SC16-135	3 ~ 16	16	46	135	65	SC16	2.40
BT40 SC20-080	4 ~ 20	20	53	80	72	SC20	1.80
BT40 SC20-105	4 ~ 20	20	53	105	72	SC20	2.30
BT40 SC20-135	4 ~ 20	20	53	135	72	SC20	2.90
BT50 SC16-090	3 ~ 16	16	46	90	65	SC16	4.40
BT50 SC16-110	3 ~ 16	16	46	110	65	SC16	4.70
BT50 SC16-135	3 ~ 16	16	46	135	65	SC16	4.90
BT50 SC16-150	3 ~ 16	16	46	150	65	SC16	5.00
BT50 SC20-090	4 ~ 20	20	53	90	72	SC20	4.50
BT50 SC20-110	4 ~ 20	20	53	110	72	SC20	5.00
BT50 SC20-135	4 ~ 20	20	53	135	72	SC20	5.60
BT50 SC20-150	4 ~ 20	20	53	150	72	SC20	6.00

Unit: mm

SC

Straight Collet

直夾夾



Product Specification

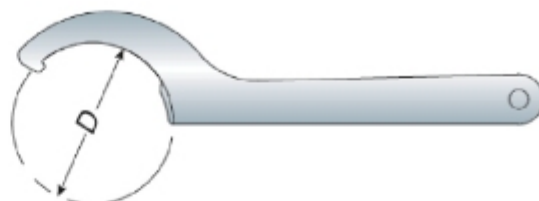
Model No.	D	d	L	Weight (kg)
SC12	12	3, 4, 5, 6, 7, 8, 9, 10	40	0.02
SC16	16	3, 4, 5, 6, 7, 8, 9, 10, 11, 12	42	0.06
SC20	20	4, 6, 8, 10, 12, 14, 16	52	0.10
SC25	25	6, 8, 10, 12, 14, 16, 18, 20	63	0.16
SC32 - Metric	32	6, 8, 10, 12, 14, 16, 18, 20, 25	71	0.30
SC32 - Inch	32	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1	71	0.30
SC42	42	6, 8, 10, 12, 14, 16, 18, 20, 25, 32	71	0.60

Unit: mm

SC

C-type Wrench

C型扳手



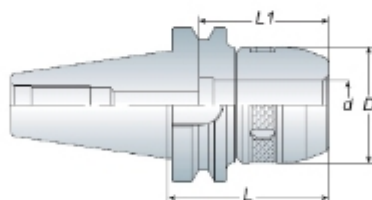
Product Specification

Model No.	D	Suit for	Weight (kg)
WSC16	46	ASC16	0.02
WSC20	53	ASC20	0.06
WSC25	55 ~ 60	ASC25 / OZ25	0.10
WSC32	68	BT30 / BT40 SC32	0.16
WSC42	72~84	BT50 ASC32 / SC42	0.30

Unit: mm

Milling Chuck

強力銑刀夾頭刀桿



Product Specification

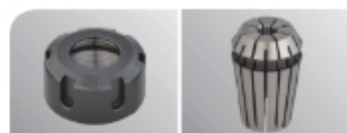
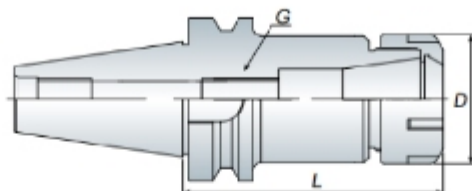
Model No.	Clamping Range	d	D	L	L1	Collet Type	Weight (kg)
BT30 SC25-085	6 ~ 25	25	58	85	85	SC16	1.30
BT40 SC25-090	6 ~ 25	25	58	90	85	SC20	1.90
BT40 SC25-130	6 ~ 25	25	58	130	85	SC16	2.70
BT40 SC32-095	6 ~ 32	32	68	95	95	SC16	2.20
BT40 SC32-105	6 ~ 32	32	68	105	95	SC16	2.80
BT40 SC32-130	6 ~ 32	32	68	130	95	SC20	3.30
BT50 SC25-100	6 ~ 25	25	58	100	85	SC20	4.60
BT50 SC25-150	6 ~ 25	25	58	150	85	SC20	5.50
BT50 SC32-105	6 ~ 32	32	76	105	95	SC16	5.20
BT50 SC32-150	6 ~ 32	32	76	150	95	SC16	6.40
BT50 SC32-200	6 ~ 32	32	76	200	95	SC16	8.50
BT50 SC32-250	6 ~ 32	32	76	250	95	SC16	9.70
BT50 SC42-110	6 ~ 42	42	84	110	100	SC20	5.50
BT50 SC42-160	6 ~ 42	42	84	160	100	SC20	7.60

Unit: mm

ER

Spring Collet Chuck

彈性筒夾本體



P12- ER Nut

P14/15- ER Collet



P13- Wrench

P248 - Stop Screw

Product Specification

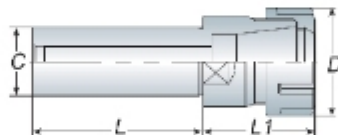
Model No.	Clamping Range	D	L	G	Collet Type	Wrench	Weight (kg)
BT30 ER08-060M	1 ~ 5	12	60	M6	ER08	WM08	0.50
BT30 ER08-100M	1 ~ 5	12	100	M6	ER08	WM08	0.60
BT30 ER11-100M	1 ~ 7	16	100	M8	ER11	WM11	0.60
BT30 ER16-100M	1 ~ 10	22	100	M12	ER16	WM16	0.70
BT30 ER20-100M	1 ~ 13	28	100	M14	ER20	WM20	0.80
BT40 ER11-070M	1 ~ 7	16	70	M8	ER11	WM11	1.15
BT40 ER11-100M	1 ~ 7	16	100	M8	ER11	WM11	1.20
BT40 ER16-100M	1 ~ 10	22	100	M12	ER16	WM16	1.25
BT40 ER20-100M	1 ~ 13	28	100	M14	ER20	WM20	1.30
BT30 ER11-060	1 ~ 7	19	60	M8	ER11	WER11	0.60
BT30 ER16-060	1 ~ 10	28	60	M12	ER16	WER16	0.60
BT30 ER16-070	1 ~ 10	28	70	M12	ER16	WER16	0.70
BT30 ER20-060	1 ~ 13	34	60	M14	ER20	WER20	0.60
BT30 ER25-060	2 ~ 16	42	60	M18	ER25	WER25	0.70
BT30 ER32-060	2 ~ 20	50	60	M24	ER32	WER32	0.75
BT30 ER32-070	2 ~ 20	50	70	M24	ER32	WER32	0.80
BT40 ER11-070	1 ~ 7	19	70	M8	ER11	WER11	1.20
BT40 ER11-100	1 ~ 7	19	100	M8	ER11	WER11	1.25
BT40 ER16-070	1 ~ 10	28	70	M12	ER16	WER16	1.20
BT40 ER16-100/150	1 ~ 10	28	100/150	M12	ER16	WER16	1.40/1.60
BT40 ER20-080	1 ~ 13	34	80	M14	ER20	WER20	1.30
BT40 ER20-100/150	1 ~ 13	34	100/150	M14	ER20	WER20	1.50/1.80
BT40 ER25-080	2 ~ 16	42	80	M18	ER25	WER25	1.50
BT40 ER25-100/150	2 ~ 16	42	100/150	M18	ER25	WER25	1.70/2.10

Unit: mm

Product Specification

Model No.	Clamping Range	D	L	G	Collet Type	Wrench	Weight (kg)
BT40 ER32-060	2 ~ 20	50	60	M24	ER32	WM32	1.30
BT40 ER32-070	2 ~ 20	50	70	M24	ER32	WM32	1.40
BT40 ER32-100/150	2 ~ 20	50	100/150	M24	ER32	WM32	1.80/2.60
BT40 ER40-080	3 ~ 26	63	80	M28	ER40	WM40	1.70
BT40 ER40-100	3 ~ 26	63	100	M28	ER40	WM40	2.20
BT50 ER16-100/150	1 ~ 10	28	100/150	M12	ER16	WM16	4.10/4.30
BT50 ER16-200/250/300	1 ~ 10	28	200/250/300	M12	ER16	WM16	4.60/5.10/5.40
BT50 ER20-100/150	1 ~ 13	34	100/150	M14	ER20	WM20	4.20/4.50
BT50 ER20-200/250/300	1 ~ 13	34	200/250/300	M14	ER20	WM20	4.90/5.50/5.90
BT50 ER25-100/150	1 ~ 16	42	100/150	M18	ER25	WER25	4.20/4.80
BT50 ER25-200/250/300	1 ~ 16	42	200/250/300	M18	ER25	WER25	5.30/6.10/6.80
BT50 ER32-100/150	1 ~ 20	50	100/150	M24	ER32	WER32	4.40/5.20
BT50 ER32-200/250/300	1 ~ 20	50	200/250/300	M24	ER32	WER32	5.90/6.60/7.50
BT50 ER40-080	2 ~ 26	63	80	M28	ER40	WER40	4.30
BT50 ER40-100/150	2 ~ 26	63	100/150	M28	ER40	WER40	4.70/5.90
BT50 ER40-200/250/300	2 ~ 26	63	200/250/300	M28	ER40	WER40	7.10/8.20/9.30

Unit: mm

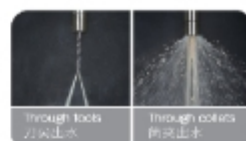
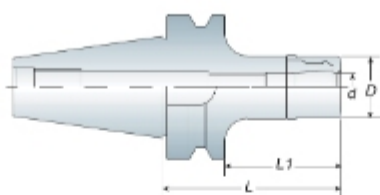
ER
**Straight Shank
Collet Chuck**
直柄緊縮式夾頭

Product Specification

Model No.	C	D	L	L1	Collet Type	Weight (kg)
C20 ER16-050	20	28	50	35	ER16	0.20
C20 ER16-100/150	20	28	100/150	35		0.35/0.45
C20 ER20-050	20	34	50	40	ER20	0.25
C20 ER20-100/150	20	34	100/150	40		0.40/0.50
C20 ER25-050	20	42	50	46	ER25	0.40
C20 ER25-100/150	20	42	100/150	46		0.50/0.70
C25 ER16-100/150	25	28	100/150	20	ER16	0.20
C25 ER20-100/150	25	34	100/150	38	ER20	0.35/0.45
C25 ER25-100/150	25	42	100/150	42	ER25	0.25
C25 ER32-080	25	50	80	58	ER32	0.40/0.50
C25 ER40-100	25	63	100	60	ER40	0.40
C32 ER25-060	32	42	60	46	ER25	0.70
C32 ER32-100/150	32	50	100/150	58	ER32	1.10/1.40
C32 ER40-100	32	63	100	60	ER40	1.30
C40 ER32-100	40	50	100	52	ER32	1.30
C40 ER40-100	40	63	100	60	ER40	1.60

SK

High Speed Collet Chuck

高轉速精密筒夾本體



Product Specification

Model No.	Clamping Range (d)	D	L1	L	Weight (kg)
BT30 SK06-060	2 ~ 6	19.05	38	60	0.60
BT30 SK06-090	2 ~ 6	19.05	68	90	0.60
BT30 SK10-070	2 ~ 10	27	48	70	0.70
BT30 SK10-090	2 ~ 10	27	68	90	0.80
BT30 SK13-060	3 ~ 13	33	38	60	1.00
BT30 SK13-075	3 ~ 13	33	53	75	1.10
BT30 SK13-090	3 ~ 13	33	68	90	1.10
BT30 SK16-060	3 ~ 16	40	38	60	0.70
BT30 SK16-090	2 ~ 16	40	68	90	0.90
BT30 SK16-120	3 ~ 16	40	98	120	1.10
BT30 SK20-060	2 ~ 20	48	38	60	0.80
BT30 SK25-085	2 ~ 25.4	54	63	85	1.20
BT40 SK06-060	2 ~ 6	19.05	33	60	1.10
BT40 SK06-090	2 ~ 6	19.05	63	90	1.30
BT40 SK06-120	2 ~ 6	19.05	93	120	1.50
BT40 SK10-060	2 ~ 10	27	33	60	1.20
BT40 SK10-080	2 ~ 10	27	53	80	1.30
BT40 SK10-090	2 ~ 10	27	63	90	1.35
BT40 SK10-100	2 ~ 10	27	73	100	1.40
BT40 SK10-120	2 ~ 10	27	93	120	1.50
BT40 SK10-150	2 ~ 10	27	123	150	1.60
BT40 SK13-060	2 ~ 13	33	33	60	1.20
BT40 SK13-080	2 ~ 13	33	53	80	1.30
BT40 SK13-090	2 ~ 13	33	63	90	1.40
BT40 SK13-100	2 ~ 13	33	73	100	1.50
BT40 SK13-120	2 ~ 13	33	93	120	1.60
BT40 SK13-150	2 ~ 13	33	123	150	1.80

Unit: mm

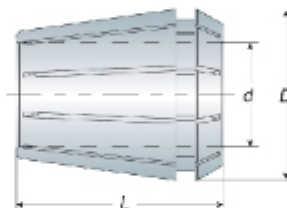
Product Specification					
Model No.	Clamping Range (d)	D	L1	L	Weight (kg)
BT40 SK16-060	3 ~ 16	40	33	60	1.30
BT40 SK16-080	3 ~ 16	40	53	80	1.50
BT40 SK16-090	3 ~ 16	40	63	90	1.55
BT40 SK16-100	3 ~ 16	40	73	100	1.60
BT40 SK16-120	3 ~ 16	40	93	120	1.90
BT40 SK16-150	3 ~ 16	40	123	150	2.10
BT40 SK20-060	4 ~ 20	48	33	60	1.30
BT40 SK20-090	4 ~ 20	48	63	90	1.80
BT40 SK20-120	4 ~ 20	48	93	120	2.40
BT40 SK25-070	6 ~ 25.4	54	43	70	1.50
BT40 SK25-090	6 ~ 25.4	54	63	90	1.90
BT40 SK25-120	6 ~ 25.4	54	93	120	2.20

Unit: mm

ER

Spring Collet

彈簧鉗夾



* DIN6499 ISO15488 Collet must be assembled into the clamping nut before inserting into the chuck

Product Specification

Metric Size

Model No.	D	L	d	Weight (kg)
ER08	8.5	13.5	1,1.5,2,2.5,3,3.5,4,4.5,5	8.5
ER11	11.5	18	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7	8.5
ER16	17	27	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10	8.5
ER20	21	31	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10,10.5,11,11.5,12,12.5,13	8.5
ER25	26	35	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	8.5
ER32	33	40	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	8.5
ER40	41	46	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26	8.5
ER50	52	60	12,14,16,18,20,22,24,26,28,30,32,34	8.5

Inch Size

Model No.	D	L	d	Weight (kg)
ER08	8.5	13.5	1,1.5,2,2.5,3,3.5,4,4.5,5	8.5
ER11	11.5	18	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7	8.5
ER16	17	27	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10	8.5
ER20	21	31	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10,10.5,11,11.5,12,12.5,13	8.5
ER25	26	35	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	8.5
ER32	33	40	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	8.5

Unit: mm

SK High Speed Collet



鋼夾等速
Collet Grade
鋼製材料 /
Runout - Max g
4 位公差 ± 0.01
A 級 ± 0.01
AA 級 ± 0.005

SK06 (approx. 0.005kgs/pc) Product Specification

Model No.	d	E	Range	D	L
SK06-02	2	12	2 ~ 1.75	10.4	26
SK06-2.25	2.25	12	2.25 ~ 2		
SK06-2.5	2.5	12	2.5 ~ 2.25		
SK06-2.75	2.75	12	2.75 ~ 2.5		
SK06-03	3	15	3 ~ 2.75		
SK06-3.175	3.175	15	3.175 ~ 2.5		
SK06-3.5	3.5	15	3.5 ~ 3		
SK06-04	4	16	4 ~ 3.5		
SK06-4.5	4.5	16	4.5 ~ 4		
SK06-05	5	21	5 ~ 4.5		
SK06-5.5	5.5	21	5.5 ~ 5		
SK06-06	6	25	6 ~ 5.5		

SK10 (approx. 0.02kgs/pc) Product Specification

Model No.	d	E	Range	D	L
SK10-02	2	12	2 ~ 1.75	31	15.6
SK10-2.25	2.25	12	2.25 ~ 2		
SK10-2.5	2.5	12	2.5 ~ 2.25		
SK10-2.75	2.75	12	2.75 ~ 2.5		
SK10-03	3	15	3 ~ 2.75		
SK10-3.175	3.175	15	3.175 ~ 2.5		
SK10-3.5	3.5	15	3.5 ~ 3		
SK10-04	4	20	4 ~ 3.5		
SK10-4.5	4.5	20	4.5 ~ 4		
SK10-05	5	20	5 ~ 4.5		
SK10-5.5	5.5	20	5.5 ~ 5		
SK10-06	6	24	6 ~ 5.5		
SK10-6.5	6.5	24	6.5 ~ 5.5		
SK10-07	7	24	7 ~ 6.5		
SK10-7.5	7.5	24	7.5 ~ 7		
SK10-08	8	24	8 ~ 7.5		
SK10-8.5	8.5	24	8.5 ~ 8		
SK10-09	9	24	9 ~ 8.5		
SK10-9.5	9.5	24	9.5 ~ 9		
SK10-10	10	30.5	10 ~ 9.5		

Unit: mm

SK13 (approx. 0.04kgs/pc) Product Specification

Model No.	d	E	Range	D	L
SK13-03	3	18	3 ~ 2.75	20	39
SK13-3.175	3.175	18	3.175 ~ 2.7		
SK13-3.5	3.5	18	3.5 ~ 3		
SK13-04	4	20	4 ~ 3.5		
SK13-4.5	4.5	20	4.5 ~ 4		
SK13-05	5	20	5 ~ 4.5		
SK13-5.5	5.5	20	5.5 ~ 5		
SK13-06	6	24	6 ~ 5.5		
SK13-6.5	6.5	24	6.5 ~ 6		
SK13-07	7	26	7 ~ 6.5		
SK13-7.5	7.5	26	7.5 ~ 7		
SK13-08	8	28	8 ~ 7.5		
SK13-8.5	8.5	28	8.5 ~ 8		
SK13-09	9	30	9 ~ 8.5		
SK13-9.5	9.5	30	9.5 ~ 9		
SK13-10	10	30	10 ~ 9.5		
SK13-10.5	10.5	30	10.5 ~ 10		
SK13-11	11	30	11 ~ 10.5		
SK13-11.5	11.5	30	11.5 ~ 11		
SK13-12	12	39	12 ~ 11.5		
SK13-12.5	12.5	39	12.5 ~ 12		
SK13-13	13	39	13 ~ 12.5		

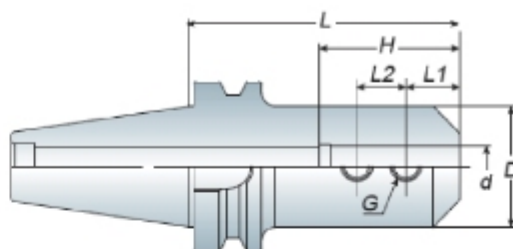
SK16 (approx. 0.08kgs/pc) Product Specification

Model No.	d	E	Range	D	L
SK16-03	3	18	3 ~ 2.75	24.6	45
SK16-3.175	3.175	18	3.175 ~ 2.7		
SK16-3.5	3.5	18	3.5 ~ 3		
SK16-04	4	20	4 ~ 3.5		
SK16-4.5	4.5	20	4.5 ~ 4		
SK16-05	5	22	5 ~ 4.5		
SK16-5.5	5.5	22	5.5 ~ 5		
SK16-06	6	25	6 ~ 5.5		
SK16-6.5	6.5	25	6.5 ~ 6		
SK16-07	7	28	7 ~ 6.5		
SK16-7.5	7.5	28	7.5 ~ 7		
SK16-08	8	34	8 ~ 7.5		
SK16-8.5	8.5	34	8.5 ~ 8		
SK16-09	9	34	9 ~ 8.5		
SK16-9.5	9.5	34	9.5 ~ 9		
SK16-10	10	34	10 ~ 9.5		
SK16-10.5	10.5	34	10.5 ~ 10		
SK16-11	11	34	11 ~ 10.5		
SK16-11.5	11.5	34	11.5 ~ 11		
SK16-12	12	34	12 ~ 11.5		
SK16-12.5	12.5	34	12.5 ~ 12		
SK16-13	13	34	13 ~ 12.5		
SK16-13.5	13.5	34	13.5 ~ 13		
SK16-14	14	34	14 ~ 13.5		
SK16-14.5	14.5	34	14.5 ~ 14		
SK16-15	15	34	15 ~ 14.5		
SK16-15.5	15.5	34	15.5 ~ 15		
SK16-16	16	45	16 ~ 15.5		

Unit: mm

SLA End Mill Holder

精細端銑刀桿



Product Specification

Model No.	d	D	L	L1	L2	H	G	Weight (kg)
BT30 SLA06-060	6	25	60	12	10	32	M6	0.60
BT30 SLA08-060	8	28	60	14	12	36	M8	0.65
BT30 SLA10-060	10	35	60	15	14	40	M10	0.70
BT30 SLA12-060	12	40	60	18	16	45	M10	0.80
BT30 SLA16-075	16	45	75	22	18	50	M10	0.80
BT30 SLA20-075	20	50	75	25	20	60	M12	1.10
BT30 SLA25-075	25	55	75	25	22	65	M12	1.10
BT40 SLA06-075	6	25	75	12	10	32	M6	1.20
BT40 SLA06-100	6	25	100	12	10	32	M6	1.30
BT40 SLA08-075	8	28	75	14	12	36	M8	1.25
BT40 SLA08-100	8	28	100	14	12	36	M8	1.40
BT40 SLA10-075	10	35	75	15	14	40	M10	1.35
BT40 SLA10-100	10	35	100	15	14	40	M10	1.50
BT40 SLA12-075	12	40	75	20	16	45	M10	1.45
BT40 SLA12-100	12	40	100	20	16	45	M10	1.65
BT40 SLA14-075	14	42	75	18	16	45	M10	1.50
BT40 SLA14-100	14	42	100	18	16	45	M10	1.75
BT40 SLA16-075	16	45	75	20	18	50	M10	1.50
BT40 SLA16-100	16	45	100	20	18	50	M10	1.85
BT40 SLA18-075	18	48	75	20	18	50	M12	1.60
BT40 SLA18-100	18	48	100	22	18	50	M12	1.90
BT40 SLA20-075	20	50	75	20	18	60	M12	1.60
BT40 SLA20-100	20	50	100	25	20	60	M12	2.00
BT40 SLA25-075	25	55	75	22	18	65	M12	1.60
BT40 SLA25-100	25	55	100	25	22	65	M12	2.00
BT40 SLA32-090	32	60	90	30	22	70	M16	2.00
BT40 SLA40-105	40	80	105	30	22	80	M16	3.10
BT40 SLA42-105	42	80	105	30	22	80	M16	3.10

Unit: mm

Product Specification

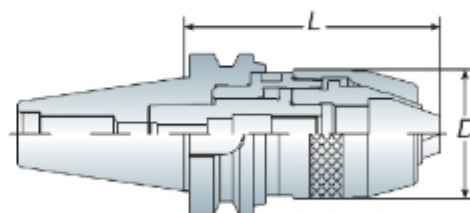
Model No.	C	D	L	L1	L2	H	G	Weight (kg)
BT50 SLA06-105/150/200	6	25	105/150/200	12	10	32	M6	4.10/4.30/4.60
BT50 SLA08-105/150/200	8	28	105/150/200	14	12	36	M8	4.10/4.35/4.65
BT50 SLA10-105/150/200	10	35	105/150/200	15	14	40	M10	4.20/4.50/5.10
BT50 SLA12-105/150/200	12	40	105/150/200	20	18	45	M10	4.35/4.80/5.30
BT50 SLA14-105	14	42	105	18	16	45	M10	4.35
BT50 SLA16-105/150/200	16	45	105/150/200	22	18	50	M10	4.45/4.90/5.60
BT50 SLA16-250/300	16	45	250/300	22	18	50	M10	6.60/6.90
BT50 SLA18-105	18	48	105	22	18	55	M10	4.50
BT50 SLA20-105/150/200	20	50	105/150/200	25	20	60	M12	4.50/5.20/5.90
BT50 SLA20-250/300	20	50	250/300	25	20	60	M12	6.60/7.75
BT50 SLA25-105/150/200	25	55	105/150/200	25	22	65	M12	4.60/5.40/6.50
BT50 SLA25-250/300	25	55	250/300	25	22	65	M12	7.00/8.50
BT50 SLA32-105/150/200	32	60	105/150/200	30	22	70	M16	4.70/5.80/6.60
BT50 SLA32-250/300	32	60	250/300	30	22	70	M16	7.60/9.30
BT50 SLA40-105/150/200	40	80	105/150/200	30	22	80	M16	5.40/7.00/9.00
BT50 SLA40-250	40	80	250	30	22	80	M16	10.80
BT50 SLA42-105/150/200	42	80	105/150/200	35	25	80	M20	5.50/7.00/8.90
BT50 SLA42-250	42	80	250	35	25	80	M20	10.80
BT50 SLA50.8-105	50.8	95	105	35	25	90	M20	6.00
BT50 SLA50.8-150	50.8	95	150	35	25	90	M20	8.50

Unit: mm

APU

Drill Chuck Holder

高載式鑽夾頭刀桿



Product Specification

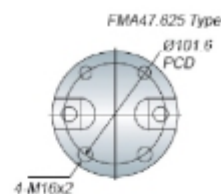
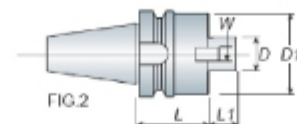
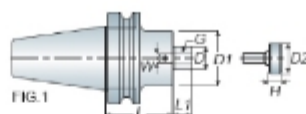
Model No.	Clamping Range	D	L		Weight (kg)
			Min.	Max.	
BT30 APU08-080	0.3 ~ 8	37.5	75	82	1.00
BT30 APU13-100	0.3 ~ 13	50.5	97	104.5	1.50
BT40 APU08-085	0.3 ~ 8	37.5	79	86.5	1.50
BT40 APU13-110	0.3 ~ 13	50.5	98	109	2.00
BT40 APU16-130	3 ~ 16	57	116	130	2.60
BT50 APU08-095	0.3 ~ 8	37.5	90	97.5	4.20
BT50 APU13-120	0.3 ~ 13	50.5	109	120	4.70
BT50 APU13-180	0.3 ~ 13	50.5	169	180	5.80
BT50 APU16-130	3 ~ 16	57	116	130	5.10
BT50 APU16-190	3 ~ 16	57	176	190	6.20

Unit: mm

FMA

Face Mill Holder - Inch

平面铣刀杆



Product Specification

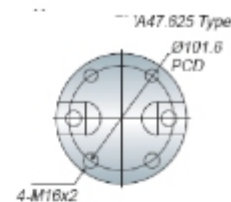
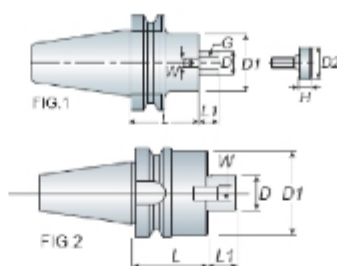
Model No.	FIG.	D	D1	D2	L	L1	W	H	G	Weight (kg)
BT30 FMA25.4-045	1	25.4	45	33	45	20	9.5	13	M12	0.90
BT30 FMA25.4-060	1	25.4	45	33	60	20	9.5	13	M12	1.20
BT30 FMA31.75-045	1	31.75	58	40	45	22	12.7	13.5	M12	1.30
BT40 FMA25.4-045/060	1	25.4	60	33	45/60	20	9.5	13	M12	1.70/2.00
BT40 FMA25.4-090/105	1	25.4	60	33	90/105	20	9.5	13	M12	2.60/2.90
BT40 FMA25.4-125/150	1	25.4	60	33	125/150	20	9.5	13	M12	3.20/3.80
BT40 FMA31.75-045/060	1	31.75	70	40	45/60	22	12.7	13.5	M12	1.80/2.30
BT40 FMA31.75-090/105	1	31.75	70	40	90/105	22	12.7	13.5	M12	3.20/3.30
BT40 FMA38.1-045	1	38.1	85	50	45	23	15.9	15	M16	2.60
BT40 FMA38.1-060/105	1	38.1	85	50	60/90	23	15.9	15	M16	2.80/3.40
BT50 FMA25.4-045/075	1	25.4	60	33	45/75	20	9.5	13	M12	4.20/4.90
BT50 FMA25.4-045S/075S	1	25.4	48	33	45/75	20	9.5	13	M12	4.00/4.50
BT50 FMA25.4-105/125	1	25.4	60	33	105/125	20	9.5	13	M12	5.30/5.60
BT50 FMA25.4-105S/200S	1	25.4	48	33	105/125	20	9.5	13	M12	4.80/5.20
BT50 FMA25.4-150/200	1	25.4	60	33	150/200	20	9.5	13	M12	6.10/7.30
BT50 FMA25.4-150S/200S	1	25.4	48	33	150/200	20	9.5	13	M12	5.60/6.00
BT50 FMA25.4-250/300	1	25.4	60	33	250/300	20	9.5	13	M12	8.20/9.30
BT50 FMA25.4-250S/300S	1	25.4	48	33	250/300	20	9.5	13	M12	6.90/7.20
BT50 FMA25.4-350/400	1	25.4	60	33	350/400	20	9.5	13	M12	10.20/11.20
BT50 FMA31.75-045/075	1	31.75	70	40	45/75	22	12.7	13.5	M12	4.40/5.30
BT50 FMA31.75-105/125	1	31.75	70	40	105/125	22	12.7	13.5	M12	6.20/6.50
BT50 FMA31.75-150/200	1	31.75	70	40	150/200	22	12.7	13.5	M12	7.30/8.60
BT50 FMA31.75-250/300	1	31.75	70	40	250/300	22	12.7	13.5	M12	10.30/11.40
BT50 FMA38.1-040	1	38.1	85	50	45	23	15.9	15	M16	4.50
BT50 FMA38.1-075/105	1	38.1	85	50	75/105	23	15.9	15	M16	5.90/7.10
BT50 FMA38.1-125/150	1	38.1	85	50	125/150	23	15.9	15	M16	8.30/9.50
BT50 FMA38.1-175/200	1	38.1	85	50	175/200	23	15.9	15	M16	10.30/10.90
BT50 FMA50.8-045	1	50.8	95	65	45	24	19.05	16	M16	5.00
BT50 FMA50.8-075/105	1	50.8	95	65	75/105	24	19.05	16	M16	6.60/8.60
BT50 FMA50.8-150/200	1	50.8	95	65	150/200	24	19.5	16	M16	11.20/13.40
BT50 FMA47.625-075	2	47.625	128.57	-	75	32	25.4	-	-	8.30
BT50 FMA47.625-105/200	2	47.625	128.57	-	105/200	32	25.4	-	-	10.30/15.00

Unit: mm

FMB

Face Mill Holder - Metric

平面铣刀杆



Product Specification

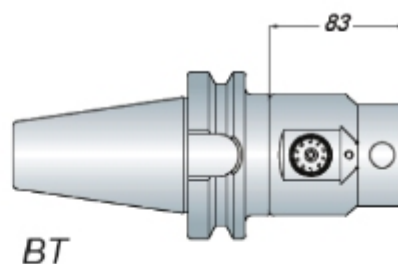
Model No.	FIG.	D	D1	D2	L	L1	W	H	G	Weight (kg)
BT30 FMB22-045	1	22	46	-	45	18	10	-	M10	0.80
BT30 FMB27-045	1	27	60	32	45	20	12	13	M12	1.00
BT40 FMB16-045	1	16	38	-	45	15	8	-	M8	1.3
BT40 FMB22-045	1	22	48	-	45	18	10	-	M10	1.40
BT40 FMB22-060/090	1	22	48	-	60/90	18	10	-	M10	1.60/2.10
BT40 FMB22-105/125	1	22	48	-	105/125	18	10	-	M10	2.40/2.60
BT40 FMB22-150/200	1	22	48	-	150/200	18	10	-	M10	2.80/3.50
BT40 FMB27-045	1	27	60	32	45	20	12	13	M12	1.70
BT40 FMB27-060	1	27	60	32	60	20	12	13	M12	2.00
BT40 FMB27-090/105	1	27	60	32	90/105	20	12	13	M12	2.60/3.00
BT40 FMB32-045	1	32	63	41	45	21	14	16	M16	1.80
BT40 FMB32-060	1	32	63	41	60	21	14	16	M16	2.10
BT40 FMB32-090/105	1	32	63	41	90/105	21	14	16	M16	3.00/3.30
BT40 FMB40-045	1	40	68	47	45	23	16	15	M16	2.00
BT40 FMB40-060	1	40	68	47	60	23	16	15	M16	2.70
BT50 FMB16-045	1	16	38	-	45	15	8	-	M8	3.8
BT50 FMB22-045	1	22	48	-	45	18	10	-	M10	4.00
BT50 FMB22-07/105	1	22	48	-	75/105	18	10	-	M10	4.50/4.80
BT50 FMB22-125/150	1	22	48	-	125/150	18	10	-	M10	5.20/5.60
BT50 FMB22-175/200	1	22	48	-	175/200	18	10	-	M10	6.00/6.30
BT50 FMB22-250/300	1	22	48	-	250/300	18	10	-	M10	6.90/7.20
BT50 FMB22-350/400	1	22	48	-	350/400	18	10	-	M10	7.70/8.30
BT50 FMB27-045	1	27	65	32	45	20	12	13	M12	4.30
BT50 FMB27-075	1	27	65	32	75	20	12	13	M12	5.00
BT50 FMB27-090/105	1	27	65	32	90/105	20	12	13	M12	5.40/5.80
BT50 FMB27-150/200	1	27	65	32	150/200	20	12	13	M12	7.20/8.90
BT50 FMB32-045	1	32	73	41	45	21	14	16	M16	4.40
BT50 FMB32-075/105	1	32	73	41	75/105	21	14	16	M16	5.40/6.60
BT50 FMB32-150/200	1	32	73	41	150/200	21	14	16	M16	8.00/9.70
BT50 FMB40-045	1/2	40	85	47	45	23	16	15	M16	4.60
BT50 FMB40-075	1/2	40	85	47	75	23	16	15	M16	5.90
BT50 FMB40-105/150	1/2	40	85	47	105/150	23	16	15	M16	6.90/8.60
BT50 FMB60-075	2	60	128.57	-	75	32	25.4	-	-	7.30

Unit: mm

NBH

NBH2084 Micro Boring System

NBH2084 微調精孔系統



Product Specification

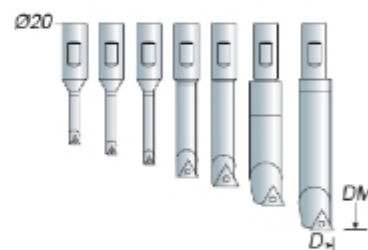
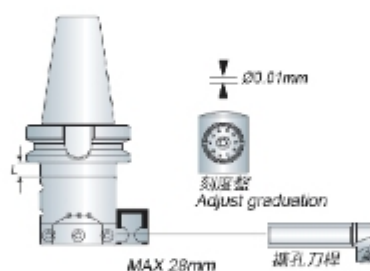
Model No.	Boring Range	Holder	Draw Bolt	Weight (kg)
BT40 NBH2084/SET	8 ~ 280	BT40 NBH2084	-	7.00
BT50 NBH2084/SET	8 ~ 280	BT50 NBH2084	-	9.50

Unit: mm

BJ20

BJ20 Boring Bar Set

BJ20 棒刀組

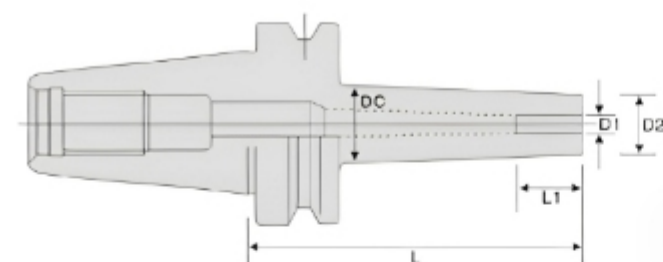


Product Specification

Model No.	Boring Range (D Min.~D Max.)	Dimension (DM)	Insert	Screw	Wrench	Weight (kg)
BJ2008-32	8 ~ 11	32	TBGT0601..L	MS2004A	T6	0.15
BJ2010-40	10 ~ 13	32		MS2005A		0.15
BJ2012-53	12 ~ 17	32	TPGH0902..L	MS2506A	T9	0.15
BJ2016-68	16 ~ 21	32				0.15
BJ2020-83	20 ~ 130	32	TPGH1103..L	MS3008A	T9	0.15
BJ2025-96	25 ~ 135	32				0.15
BJ2030-115	30 ~ 140	32				0.15
BJ20-20L	120 ~ 280	32				0.15

Unit: mm

BT-SF SHRINK FIT CHUCK



Product Specification

BT30	Item code	D1	D2	DC	L	Angle
	BT30-SR4-80	4	15	20	80	4.5°
	BT30-SR6-80	6	21	27	80	
	BT30-SR8-80	8	22	28	80	
	BT30-SR10-80	10	24	32	80	
	BT30-SR12-80	12	24	32	80	
	BT30-SR16-80	16	27	34	80	

Product Specification

BT40	Item code	D1	D2	DC	L	Angle
	BT40-SR4-90	4.0	15	20	90	4.5°
	BT40-SR6-90	6.0	21	27	90	
	BT40-SR6-120	6.0	21	27	120	
	BT40-SR6-160	6.0	21	27	160	
	BT40-SR8-90	8.0	21	27	90	
	BT40-SR8-120	8.0	21	27	120	
	BT40-SR8-160	8.0	21	27	160	
	BT40-SR10-90	10.0	24	32	90	
	BT40-SR10-120	10.0	24	32	120	
	BT40-SR10-160	10.0	24	32	160	
	BT40-SR12-90	12.0	24	32	90	
	BT40-SR12-120	12.0	24	32	120	
	BT40-SR12-160	12.0	24	32	160	
	BT40-SR16-90	16.0	27	34	90	

Product Specification						
BT40	Item code	D1	D2	DC	L	Angle
	BT40-SR16-120	16.0	27	34	120	4.5°
	BT40-SR16-160	16.0	27	34	160	
	BT40-SR20-90	20.0	33	42	90	
	BT40-SR20-120	20.0	33	42	120	
	BT40-SR20-160	20.0	33	42	160	
	BT40-SR25-100	25.0	44	53	100	
	BT40-SR25-160	25.0	44	53	160	
	BT40-SR32-100	32.0	44	53	100	
	BT40-SR32-160	32.0	44	53	160	

Product Specification						
BT50	Item code	D1	D2	DC	L	Angle
	BT50-SR6-100	6.0	21	27	100	4.5°
	BT50-SR6-160	6.0	21	27	160	
	BT50-SR8-100	8.0	21	27	100	
	BT50-SR8-1160	8.0	21	27	160	
	BT50-SR10-160	10.0	24	32	100	
	BT50-SR10-100	10.0	24	32	160	
	BT50-SR12-100	12.0	24	32	100	
	BT50-SR12-160	12.0	24	32	160	
	BT50-SR16-100	16.0	27	34	100	
	BT50-SR16-160	16.0	27	34	160	
	BT50-SR20-100	20.0	33	42	100	
	BT50-SR20-160	20.0	33	42	160	
	BT50-SR25-100	25.0	44	53	100	
	BT50-SR25-160	25.0	44	53	160	
	BT50-SR32-100	32.0	44	53	100	
	BT50-SR32-160	32.0	44	53	160	

EWN FINISH BORING HEAD

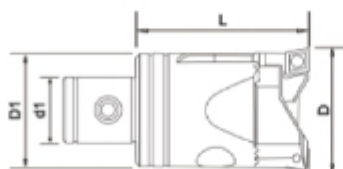


Product Features:

1. The EWN boring head is suitable for precision hole boring, with a processing range of $\phi 20$ - $\phi 203$ mm.
2. The precise scale allows for fine adjustment, with a fine adjustment precision of 0.01mm per division (diameter).
3. The precision guide screw is located inside the product, with a lubricating function, and is not affected by chips, rust, and wear.
4. With an internal coolant channel, the coolant can be directly delivered to the tool tip, extending the tool life.
5. The cutting insert can be disassembled and can also be mounted in reverse for back boring operations. The side screws securely tighten the insert for stable cutting, and the contact surface is tight and vibration-free.

CODE	Insert holder	LBK No.	Boring range	Normal Boring			KG.	D1	D	L2	Wrench	Insert						
				Boring range	Effective length	Outer diameter												
EWN20-36	ENH1-1	LBK1	--	20-26	30	18.7	0.6	11	19	32.5	T6	TP..0802						
	ENH1-2	LBK1	30-31	25-31														
	ENH1-3	LBK1	30-36	30-36														
EWN25-47	ENH2-1	LBK2	--	25-33	33	24	0.16	14	24	36.5			T6	TP..0802				
	ENH2-2	LBK2	36-40	32-40														
	ENH2-3	LBK2	39-47	39-47														
EWN32-60	ENH3-1	LBK3	--	32-45	39	31	0.22	18	31	42.5					T6	TP..0802		
	ENH3-2	LBK3	46-51	41-51														
	ENH3-3	LBK3	50-60	50-60														
EWN41-74	ENH4-1	LBK4	--	40-55	47	39	0.44	22	39	51.5	T8	TC..1102 (TP..1103)						
	ENH4-2	LBK4	53-63	51-66														
	ENH4-3	LBK4	61-79	64-79														
EWN53-95	ENH5-1	LBK5	62-70	62-75	47	39	0.84	28	50	59.5			T8	TC..1102 (TP..1103)				
	ENH5-2	LBK5	69-82	70-93														
	ENH5-3	LBK5	78-95	88-112														
EWN68-150	ENH6-1	LBK6	80-100	68-100	66	64	1.71	36	64	70					T8	TC..1102 (TP..1103)		
	ENH6-2	LBK6	94-126	94-125														
	ENH6-3	LBK6	118-150	118-150														
EWN100-203	ENH6-1	LBK6	112-153	100-153	70	80	2.65	36	96	71							T8	TC..1102 (TP..1103)
	ENH6-2	LBK6	126-179	126-179														
	ENH6-3	LBK6	150-203	150-203														

RBH ROUGH BORING HEAD



Product Features:

1. Enhanced chip evacuation groove design, improving deep-hole chip removal. The insert seat integrates with the body tooth slot, increasing cutting rigidity.
2. Low-step design, applicable for both flat inserts and high-low inserts.
3. Bi-directional screw adjustment mechanism allows the insert seat to be moved forward and backward.

CODE	LBK No.	Boring Range	L	D1	d1	Insert	Screw	Wrench	KG.
RBH20-25	LBK1	20-25	36	19	11	CC..0602..	M2.5	T8	0.07
RBH25-33	LBK2	25-33	34	24	14	CC..0602..	M2.5	T8	0.1
RBH32-42	LBK3	32-42	47	31	18	CC..0602..	M2.5	T8	0.25
RBH40-54	LBK4	40-54	55	38	22	CC..09T3..	M4	T15	0.47
RBH52-70	LBK5	52-70	64	49	28	CC..09T3..	M4	T15	0.88
RBH68-95	LBK6	68-95	78	64	36	CC..1204..	M5	T20	1.86
RBH93-122	LBK6	90-122	78	63	36	CC..1204..	M5	T20	1.93
RBH120-164	BST	120-164			BST	CC..1204..	M5	T20	
RBH160-204	BST	160-204				CC..1204..	M5	T20	

LBK ARBOR



Spec/Mode	L	L1	L2	D	d1	d2	Matching Boring Head
BT30	LBK1	70	48	20	46	19	11
	LBK1	85	63	20	46	19	11
	LBK1	105	83	20	46	19	11
	LBK2	80	58	20	46	24	14
	LBK2	115	93	20	46	24	14
	LBK3	80	58	20	46	31	18
	LBK3	115	93	20	46	31	18
	LBK4	70	48	20	46	39	22
	LBK4	115	93	20	46	39	22
	LBK5	60	38	20	46	50	28
	LBK5	125	103	20	46	50	28
	LBK6	65	43	20	46	63	36
	LBK6	115	93	20	46	63	36
							Rough boring: 19-120 Finish boring: 20-203

Spec/Mode	L	L1	L2	D	d1	d2	Matching Boring Head
BT40	LBK1	75	48	25	63	19	11
	LBK1	105	78	25	63	19	11
	LBK1	135	108	25	63	19	11
	LBK1	150	123	25	63	19	11
	LBK1	165	138	25	63	19	11
	LBK1	195	168	25	63	19	11
	LBK2	85	58	25	63	24	14
	LBK2	115	88	25	63	24	14
	LBK2	150	123	25	63	24	14
	LBK2	165	138	25	63	24	14
	LBK2	200	173	25	63	24	14
	LBK3	95	68	25	63	31	18
	LBK3	125	98	25	63	31	18
	LBK3	155	128	25	63	31	18
	LBK3	175	148	25	63	31	18
	LBK3	215	188	25	63	31	18
	LBK3	250	223	25	63	31	18
							Rough boring: 19-25 Finish boring: 20-36
							Rough boring: 19-25 Finish boring: 20-36
							Rough boring: 32-42 Finish boring: 32-60

Spec/Mode		L	L1	L2	D	d1	d2	Matching Boring Head
BT40	LBK4	85	58	25	63	39	22	Rough boring: 40-55 Finish boring: 41-74
	LBK4	115	88	25	63	39	22	
	LBK4	130	103	25	63	39	22	
	LBK4	155	128	25	63	39	22	
	LBK4	175	148	25	63	39	22	
	LBK4	205	178	25	63	39	22	
	LBK4	250	223	25	63	39	22	
	LBK5	75	48	25	63	50	28	Rough boring: 52-70 Finish boring: 53-95
	LBK5	125	98	25	63	50	28	
	LBK5	150	123	25	63	50	28	
	LBK5	175	148	25	63	50	28	
	LBK5	205	183	25	63	50	28	
	LBK5	235	208	25	63	50	28	
	LBK5	250	228	25	63	50	28	
	LBK6	65	38	25	63	63	36	Rough boring: 68-92 / 90-252 Finish boring: 68-150 / 100-203
	LBK6	115	88	25	63	63	36	
	LBK6	140	113	25	63	63	36	
	LBK6	165	138	25	63	63	36	
	LBK6	205	178	25	63	63	36	
	LBK6	225	198	25	63	63	36	
	LBK6	250	223	25	63	63	36	

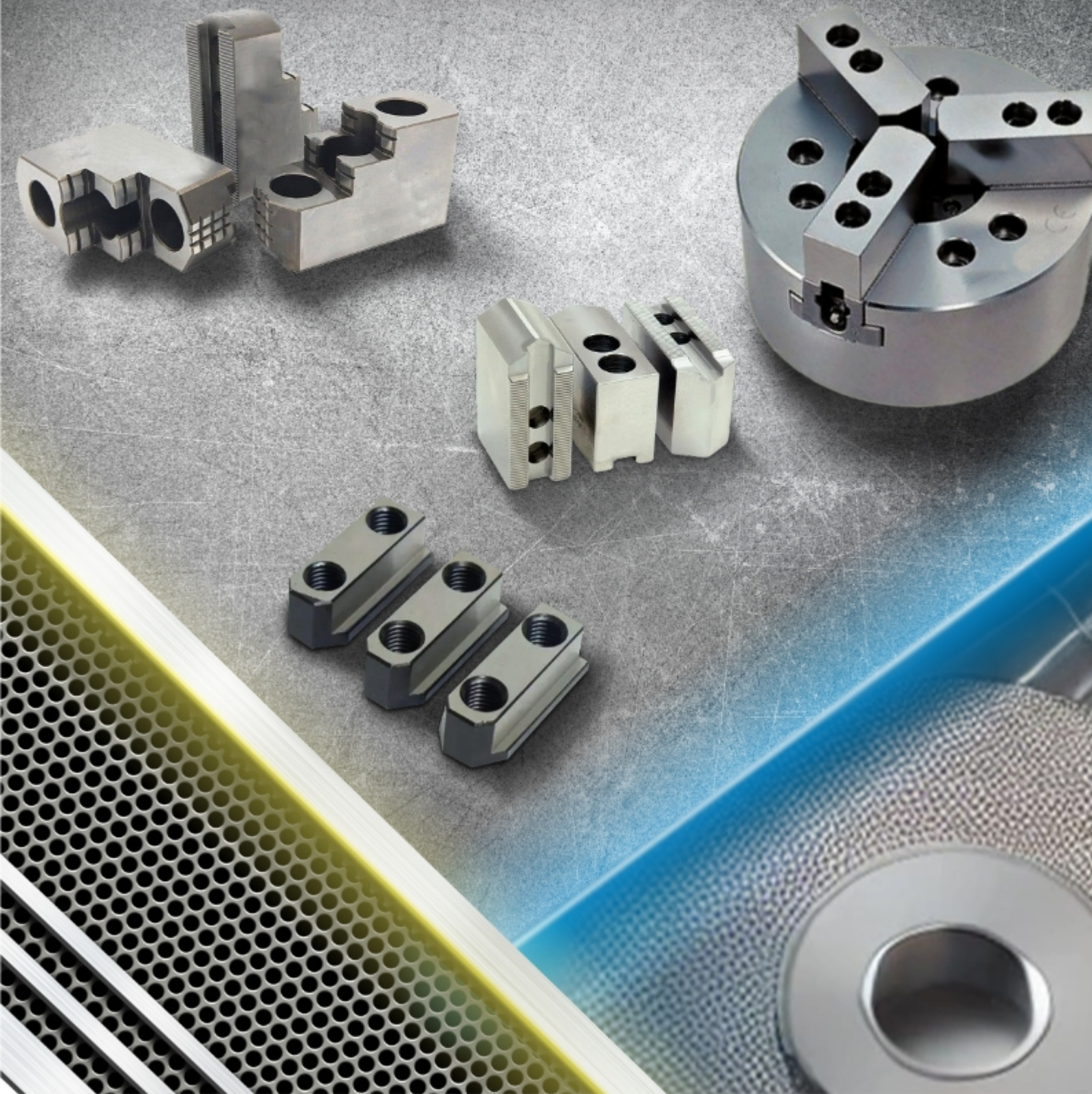
Spec/Mode		L	L1	L2	D	d1	d2	Matching Boring Head
BT50	LBK1	105	67	35	100	19	11	Rough boring: 19-25 Finish boring: 20-36
	LBK1	145	107	35	100	19	11	
	LBK1	175	137	35	100	19	11	
	LBK2	110	72	35	100	24	14	Rough boring: 25-33 Finish boring: 25-47
	LBK2	140	102	35	100	24	14	
	LBK2	175	137	35	100	24	14	
	LBK2	200	162	35	100	24	14	
	LBK2	240	203	35	100	24	14	
	LBK3	110	72	35	100	31	18	Rough boring: 32-42 Finish boring: 32-60
	LBK3	155	117	35	100	31	18	
	LBK3	175	142	35	100	31	18	
	LBK3	205	167	35	100	31	18	
	LBK3	240	202	35	100	31	18	
	LBK3	255	217	35	100	31	18	
	LBK3	270	232	35	100	31	18	
	LBK3	300	262	35	100	31	18	
	LBK4	125	87	35	100	39	22	Rough boring: 40-55 Finish boring: 41-74
	LBK4	145	107	35	100	39	22	
	LBK4	180	142	35	100	39	22	
	LBK4	205	167	35	100	39	22	
	LBK4	240	202	35	100	39	22	
	LBK4	270	233	35	100	39	22	
	LBK4	300	262	35	100	39	22	
	LBK4	350	312	35	100	39	22	
	LBK4	400	362	35	100	39	22	

Spec/Mode		L	L1	L2	D	d1	d2	Matching Boring Head
BT50	LBK5	105	62	35	100	39	28	Rough boring: 52-70 Finish boring: 53-95
	LBK5	125	87	35	100	50	28	
	LBK5	150	112	35	100	50	28	
	LBK5	180	142	35	100	50	28	
	LBK5	205	167	35	100	50	28	
	LBK5	240	202	35	100	50	28	
	LBK5	270	232	35	100	50	28	
	LBK5	300	262	35	100	50	28	
	LBK5	350	312	35	100	50	28	
	LBK5	400	362	35	100	50	28	
	LBK6	95	52	35	100	63	36	Rough boring: 68-92 / 90-122 Finish boring: 68-150 / 100-203
	LBK6	125	87	35	100	63	36	
	LBK6	150	112	35	100	63	36	
	LBK6	170	132	35	100	63	36	
	LBK6	205	167	35	100	63	36	
	LBK6	230	192	35	100	63	36	
	LBK6	270	232	35	100	63	36	
	LBK6	290	252	35	100	63	36	
	LBK6	350	312	35	100	63	36	
	LBK6	400	362	35	100	63	36	
	LBK6	450	412	35	100	63	36	
	LBK6	500	462	35	100	63	36	



YL CUTTING TOOLS

MACHINING ACCESSORIES



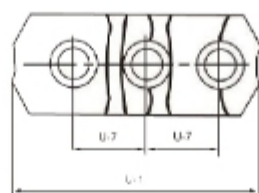


Figure 1

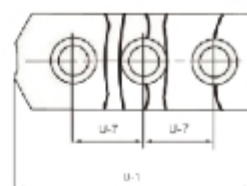
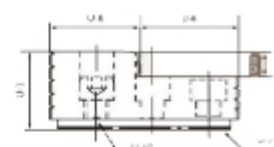
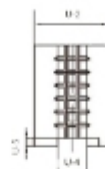
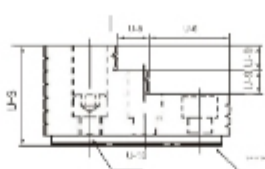


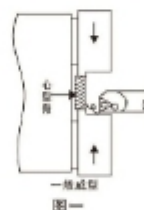
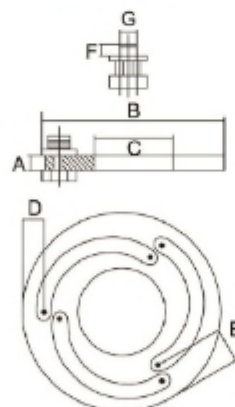
Figure 2

After quenching, the hardness is high. Generally, hard jaws are used for lathes, turning bar materials, turning blanks, etc., which provide firm clamping and strong clamping force.

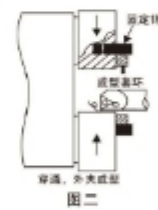


Product Specification

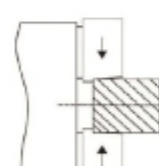
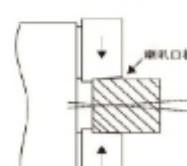
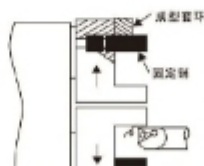
size model	U-1 length	U-2 width	U-3 high	U-4 Groove width	U-5	U-6	U-7 hole center distance	U-8	U-9	U-10 Mounting screw	serrated pitch	Weight (kg)	Reference picture
HJ-05	53	23	28	10	4	29	14	24	10	M8x1.25P	1.5x60°	0.4	Fig2
HJ-06	67	31	48	12	5	22	20	19	12	M10x1.5P	1.5x60°	1.16	Fig1
HJ-08	87	35	51	14	5	30	25	18	12	M12x1.75P	1.5x60°	1.9	Fig1
HJ-10	101	40	54	16	5	48	30	18	13	M12x1.75P	1.5x60°	2.8	Fig1
HJ-12 (中空)	108	50	67	21	4	49	30	20	16	M16x2P	1.5x60°	3.5	Fig1
HJ-12-1 (中實)	108	50	67	18	5	49	30	20	16	M14x2P	1.5x60°	3.7	Fig1
HJ-15 (114)	143	62	86	22	8	55	43	38	20	M20x2.5P	1.5x60°	9.6	Fig1
HJ-15-1 (中實)	143	62	86	25.5	5	55	43	38	20	M20x2.5P	1.5x60°	9.5	Fig1



图一

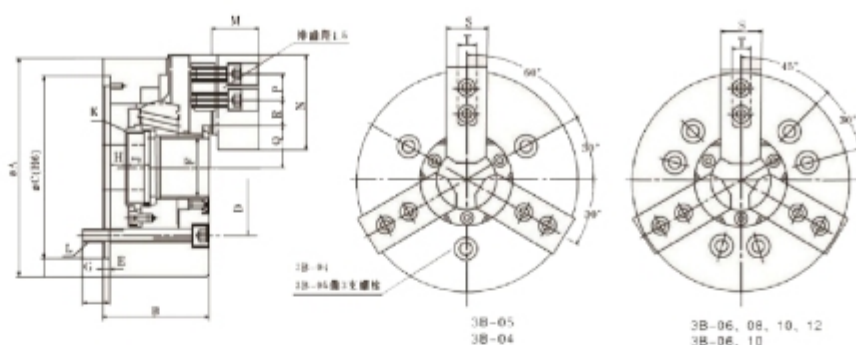


图二



Product Specification

size model	A	B	C	D	E	F	G	Weight (kg)
SL-04	12	114	34	12	28	9	13	0.9
SL-05	12	140	60	12	28	9	13	1.2
SL-06	12	168	80	12	32	9	16.5	1.5
SL-08	12	218	115	15	36	9	18.5	2.4
SL-10	12	258	150	17	40	9	18.5	3.1
SL-12	15	326	188	21	50	9	22.5	5.1
SL-15	20	380	230	23	52	16	31	10.1



Product Specification

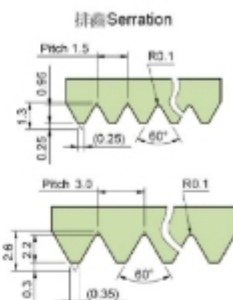
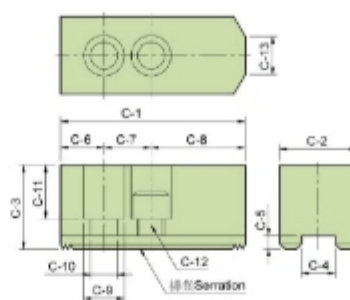
size model	plunger stroke	Claw stroke diameter mm	Clamping diameter		Allowable hydraulic cylinder thrust kN (kgf)	Maximum number force kN (kgf)	Maximum number of revolutions min ⁻¹ (r.p.m)	GD ² kg·m ²	Weight (kg)	
			maximum	min						
3B-04	10	5.4	110	7	1400	2800	8000	0.01	4	4
3B-05 A4	10	5.4	135	12	1760	3650	7000	0.02	6.7	7.5
3B-06 A5	12	5.5	168	15	2200	5800	6000	0.06	11.9	13.7
3B-08 A5	16	7.4	210	13	3500	8750	5000	0.18	22.5	25.4
3B-08 A6	16	7.4	210	13	3500	8750	5000	0.18	22.5	23.6
3B-10 A6	19	8.8	254	31	4380	11300	4200	0.33	34.5	41.5
3B-10 A8	19	8.8	254	31	4380	11300	4200	0.33	34.5	40
3B-12 A8	23	10.8	304	34	5800	14850	3300	0.77	58.6	59.5

Product Specification

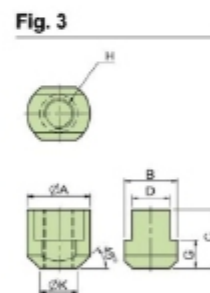
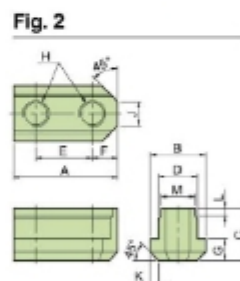
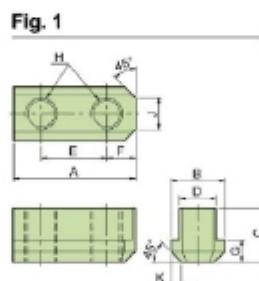
size model	Spindle model	A(mm)	B(mm)	C(mm)	D(mm)	Taper major diameter	E	E1	F(mm)	Gmax		Gmin		H	J
3B-04	A-3	110	59	85	70.6	-	4	-	26	3.5		-6.5		17.5	12
3B-05 A4	A-4	135	60	71	110	63.51	4	15	33	1	16	-9	6	20	12
3B-06 A5	A-5	168	81	91	140	82.56	5	15	45	11	26	-1	14	19	20
3B-08 A5	A-5	210	91	109	170	133.4	5	23	52	14.5	37.5	-1.5	21.5	20.5	30
3B-08 A6	A-6	210	91	103	170	133.4	5	17	52	14.5	31.5	-1.5	15.5	20.5	30
3B-10 A6	A-8	254	100	120	220	171.4	5	25	75	8.5	33.5	-10.5	14.5	25	45
3B-10 A8	A-8	254	100	113	220	171.4	5	18	75	8.5	28.5	-10.5	7.5	25	45
3B-12 A8	A-8	304	110	122	220	171.4	6	18	91	6	28	-15	3	26	50

Product Specification

size model	K(mm)	L(mm)	L1		M	N	Qmax.	Qmin.	Rmax.	Rmin.	kgf/cm ² (Mpa)	U(mm)
3B-04	M32x1.5	3 ~ M10	16		24	52	23	20.3	11.3	6.8	22(2.3)	BK-428
3B-05 A4	M40x1.5	3 ~ M10	15	15	31	62	26.5	23.8	19.8	7.8	29(2.8)	BK-1036
3B-06 A5	M55x2	6 ~ M10	16	16	37	73	32	29.3	22.8	9.3	26(2.7)	BK-1246
3B-08 A5	M80x2	6 ~ M112	20	17	38	95	38.7	35	29.8	14.6	26(2.5)	BK-1552
3B-08 A6	M80x2	6 ~ M12	20	18	38	95	38.7	35	29.8	14.6	26(2.5)	BK-1552
3B-10 A6	M85x2	6 ~ M16	22	18	43	110	51	46.6	33.8	14.3	27(2.6)	BK-1075
3B-10 A8	M85x2	6 ~ M16	22	24	43	110	51	46.6	33.8	14.3	27(2.6)	BK-1075
3B-12 A8	M100x2	6 ~ M16	23	25	51	130	61.3	56	45.8	15.8	27(2.6)	BK-2091

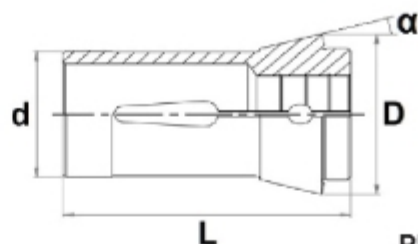


size model	long	Width	high	Groove width	Screw hole center distance	Tooth pitch
5 inch	54	25	30	10	14	1.5°80 degree
6 inch	73	31	36	12	20	1.5°80 degree
8 inch	95	35	37	14	25	1.5°80 degree
10 inch	110	40	42	16	30	1.5°80 degree
12 inch hollow	130	50	50	21	30	1.5°80 degree
12 inch	130	50	50	18	30	1.5°80 degree
15 inch hollow	165	62	62	22	43	1.5°80 degree
15 inch	165	62	62	25.5	43	1.5°80 degree
21/24 inch	180	85	70	25	60	3.0°80 degree



size model	total length	bottom width	total height	groove width	Step	Center distance	screws
5 inch hollow	28	15	15	10	9.5	14	M8
5 inch medium size	28	15	16.5	10	11	14	M8
6 inch hollow	36.5	17.5	18.5	12	11	20	M10
6 inch medium size	36.5	17.5	22.5	12	15	20	M10
8 inch hollow	46.5	20	20.5	14	12	25	M12
8 inch medium size	50	21	26.5	14	16.5	25	M12
10 inch hollow	51	22.5	21.5	16	13	30	M12
10 inch medium size	55	22.5	25.5	16	16	30	M12
12 inch hollow	55.5	29.5	27.8	21	16.3	30	M16
12 inch medium size	55.5	29.5	33.5	18	20	30	M14
15 inch hollow	80	33.5	38	22	21.5	43	M20
15 inch medium size	80	33.5	38	25.5	21.5	43	M20

PUSH-TYPE COLLETS

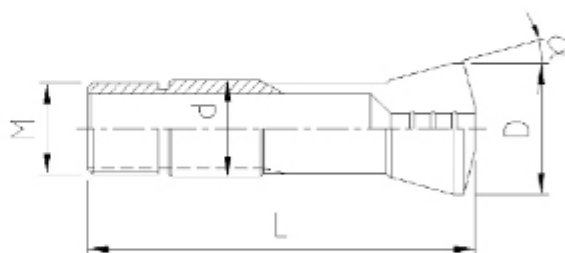


PULL-TYPE COLLETS

Product Specification

Art No.	Type	Item No.	d	L	D
148E	TRAUB A-20	1220	Ø 28.0	70	Ø 38.0
161E	TRAUB A-25	1225	Ø 32.0	75	Ø 45.0
163E	INDEX 30#	1230	Ø 35.0	80	Ø 48.0
164E	LI CO 32#	1232	Ø 38.1	108	Ø 49.0
171E	INDEX 36#	1236	Ø 42.0	94	Ø 55.0
173E	INDEX 42#	1242	Ø 48.0	94	Ø 60.0
177E	INDEX 52#	1252	Ø 58.0	94	Ø 70.0
185E	INDEX 60#	1261	Ø 66.0	110	Ø 84.0
MIYNO	BNC34	1734	Ø 44.4	108	Ø 55.0
RIKEN	SAD40	1742	Ø 48.0	84	Ø 66.0

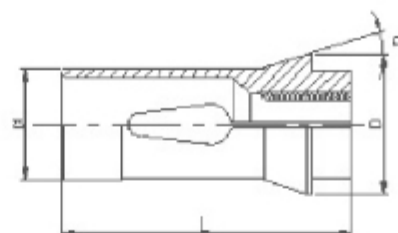
PULL-TYPE COLLETS



Product Specification

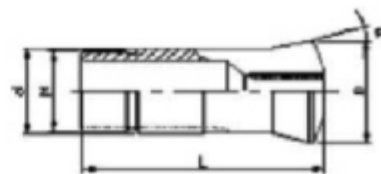
Art No.	Type	Steel	Carbide	d	L	D
		Item No.	Item No.			
EUGKO	6#	1015	2015	Ø 19.0	76	Ø 26.0
	8#	1020	2020	Ø 25.0	102	Ø 33.0
YB	25#	1025	2025	Ø 32.0	104	Ø 39.0
	32#	1032	2032	Ø 39.0	119	Ø 49.0
	42#	1042	2042	Ø 52.0	137	Ø 64.0
FUJI	0825#	1112	2112	Ø 16.0	72.5	Ø 24.0
	1820#	1120	2120	Ø 28.0	100	Ø 36.0
	1825#	1125	2125	Ø 35.0	124	Ø 49.0
	1832#	1132	2132	Ø 43.0	137	Ø 57.5
DAIWA	10#	1410	2410	Ø 15.0	60	Ø 20.0
	102#	1412	2412	Ø 17.0	69	Ø 24.0
	15#	1415	2415	Ø 22.0	85	Ø 28.0
S D - 25#	25#	1525	2525	Ø 34.0	84	Ø 41.5
S D - 25#	32#	1532	2532	Ø 42.0	95	Ø 49.0
S D - 25#	45#	1545	2545	Ø 56.0	120	Ø 68.0

HEADSTOCK COLLETS



Product Specification

Art No.	Type	Steel	Carbide	d	L	D
		Item No.	Item No.			
CITIZEN	P4,P7	3204	6204	Ø8.0	41	Ø12.0
	R07,D/F/G/L-10	3910	6910	Ø15.0	64	Ø21.0
	B12 , F12	3212	6212	Ø16.0	64	Ø21.0
	D/E/F/L/M-16,E/F/L/M-20	3720	6720	Ø25.0	77	Ø35.0
	L16/20 , F16/20,M16 , G20 , E20	3216	6216	Ø26.0	67	Ø36.0
	F25, L25 , E25 , E25J	3225	6225	Ø30.0	78	Ø42.0
	VNC32,E32,G32	3232	6232	Ø37.0	92	Ø47.0
STAR	SW7,SW10,JNC10,RNC10,SNC10	3910	6910	Ø15.0	64	Ø21.0
	SE12 , S13 , VNC12 , S/15	3512	6512	Ø18.0	64	Ø25.0
	RNC16 , SE16 , SR16 , SH16	3516	6516	Ø20.0	67	Ø28.0
	KNC16/20,SR20,VNC20	3720	6720	Ø25.0	77	Ø35.0
	JNC16, L16/20 , ZNC16 , VNC20	3216	6216	Ø26.0	67	Ø36.0
	KJR25,SCN25	3725	6725	Ø30.0	80.3	Ø42.0
	JNC32/25 , E32 , G32 , L32 , M32	3232	6232	Ø37.0	92	Ø47.0
TSUGAMI	17 , B007 , BM07,NP-4W	3707	6707	Ø10.0	46	Ø16.0
	L10	3710	6710	Ø14.0	47	Ø20.0
	NT/NP11	3910	6910	Ø15.0	64	Ø21.0
	B012,NT/NP-12	3616	6616	Ø20.0	67	Ø26.0
	NP17 , NP16 , NT17	3717	6717	Ø23.8	62	Ø28.0
	BO18A, S20 , BS18	3721	6721	Ø28.0	77	Ø35.0
	B018B , S20 , BS18	3720	6720	Ø25.0	77	Ø35.0
	BS26A , BS25	3726	6726	Ø33.0	80.3	Ø40.0
	BS26B , BS25	3725	6725	Ø30.0	80.3	Ø42.0
	NT/NP-32	3232	6232	Ø37.0	92	Ø47.0
	BH38(SUB)	3739	6739	Ø48.0	100	Ø54.0
	BH38	3738	6738	Ø43.0	92	Ø53.0
NOMURA	NSP8410 , NSP8420	3608	6608	Ø12.0	58	Ø18.0
	NSP1053 , NN10K	3610	6610	Ø16.0	50.5	Ø22.0
	NSP1653 , NSP1253	3616	6616	Ø20.0	68	Ø26.0
	NN20KF	3216	6216	Ø26.0	67	Ø36.0
	P-23	3623	6623	Ø29.0	72	Ø39.0
	NNCP2553 , NN25K	3625	6625	Ø32.0	84.5	Ø42.0

GUIDE BUSHES

Product Specification

Art No.	Type	Steel Item No.	d	L	D
CITIZEN	R04	5904	Ø 9.0	44	Ø 12.0
	R07	5907	Ø 11.0	52	Ø 14.5
	D10,E10,F10,L10	5910	Ø 16.0	59	Ø 20.5
	B12 , F12,C12,A12	5212	Ø 18.0	60	Ø 22.0
	B20, M20, L20	5920	Ø 28.0	82	Ø 34.0
	L16/20,F16/F20,E20,WF6,206M	5216	Ø 30.0	59	Ø 35.0
	F25, L25 , E25, E25J VNC32, G32,E32	5725	Ø 34.0	87.5	Ø 41.0
	VNC32,G32,E32	5232	Ø 42.0	82	Ø 48.0
STAR	SW7	5207	Ø 11.0	52	Ø 14.5
	JNC-10,RNC-10,SNC-10	5910	Ø 16.0	59	Ø 20.5
	SE12, VNC12 , SJ15,SNC15	5912	Ø 21.0	58	Ø 24.0
	SB16 , SR16	5516	Ø 22.0	70.5	Ø 26.0
	RNC16, SE16,SA16, VNC16,KNC16	5616	Ø 22.0	68	Ø 29.0
	SA-16 , SR-16	5516	Ø 22.0	68	Ø 29.0
	KNC16 , VNC SR20	5920	Ø 28.0	82	Ø 34.0
	JNC16, L16/20, ZNC16, VNC20	5916	Ø 30.0	59	Ø 35.0
	SCN-25,KJR-25	5225	Ø 34.0	87.5	Ø 41.0
	JNC32/25, VNC32/25, E32, SR32	5732	Ø 42.0	82	Ø 49.0
TSUGAMI	NP-4W	5507	Ø 11.0	52	Ø 14.5
	T7, B007 , BM07	5907	Ø 12.0	52	Ø 15.8
	L10	5710	Ø 15.0	54	Ø 19.0
	INT-11,NP-11	5712	Ø 18.0	60	Ø 22.0
	BO12	5216	Ø 22.0	70.5	Ø 26.0
	NP-17 , NP-16 , NT-17	5617	Ø 23.0	72	Ø 28.0
	NP-20,BS20 , BO18, BS18 BO20-CV	5720	Ø 30.0	70	Ø 36.0
	BO20	5721	Ø 26.0	77	Ø 29.0
	BA-26	5726	Ø 33.0	70	Ø 38.0
	BA-26L	5724	Ø 32.0	70	Ø 38.0
	S-25,BS-26	5725	Ø 34.0	87.5	Ø 41.0
	NP-32	5732	Ø 42.0	82	Ø 49.0
	BH38	5538	Ø 48.0	81	Ø 54.0
NOMURA	NS-P8410 , NS-P8420	5708	Ø 14.0	60.5	Ø 20.0
	NS-P1053, NN-10K,	5610	Ø 16.0	63	Ø 20.0
	NS-P1653, NS-P1253	5616	Ø 22.0	70.5	Ø 26.0
	NN-P20, NN-20KF	5620	Ø 30.0	67.5	Ø 35.0
	NNC-P2553 , NN-25K	5625	Ø 36.0	89	Ø 44.0

Mill Master Co.,Ltd

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