



YL CUTTING TOOLS

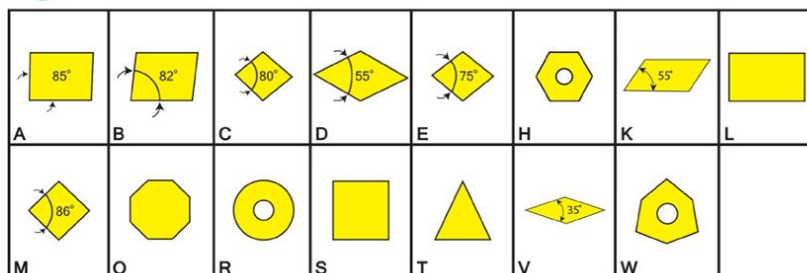
ID BORING BARS AND INSERTS



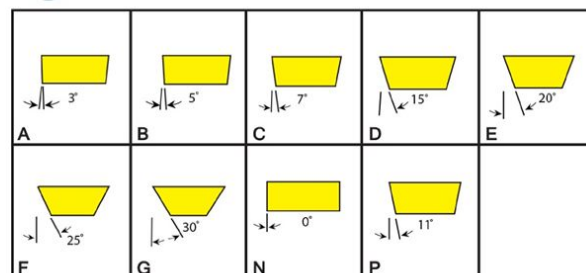
ISO DESIGNATIONS FOR INSERTS

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

1 刀片形狀 INSERT SHAPE



2 刀片逃角 CLEARANCE ANGLE



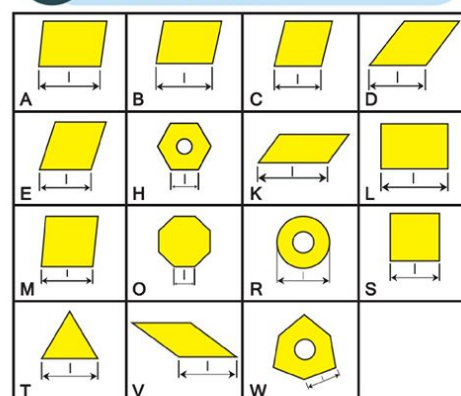
3 刀片公差 TOLERANCES CLASS

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 刀片溝孔 INSERT FEATURES

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

5 刀片邊長 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

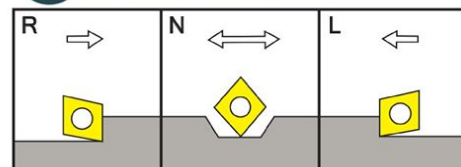
Index	01	T1	02	03	T3	04	05	06	07	09
S(mm)	1.59	1.98	2.38	3.18	3.97	4.76	5.56	6.35	7.94	9.52

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

00: Round insert (inch)
MO: Round insert (metr)

9 刃口方向 CUTTING DIRECTION



10 排屑槽 Manufacture's type designation

Chip breaker design
-MG -M -MR -D -DK

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

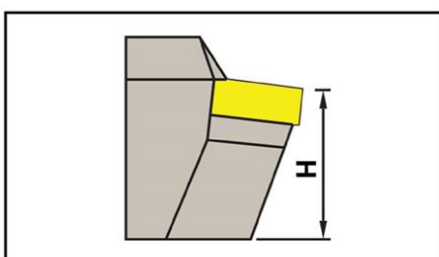
6 刀柄 SHANK

- S = 鋼柄 Steel shank
A = 鋼柄 + 中心水孔 Steel shank+coolant hole
B = 抗震鋼柄 Steel shank+device anti-vibration
C = 鎢鋼柄 Cemented carbide shark with steel head
D = 抗震鋼柄 + 中心水孔 Steel shank+device anti-vibration+coolant hole
E = 鎢鋼柄+中心水孔 Cemented carbide shark with steel head+coolant hole
F = 抗震鋼柄 Cemented carbide shank with steel head+device anti-vibration
G = 抗震鎢鋼柄 + 中心水孔 Cemented carbide with steel head+device anti-vibration+coolant hole
H = 車金慶 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

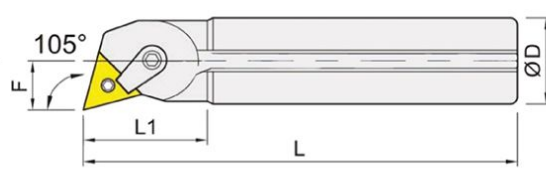
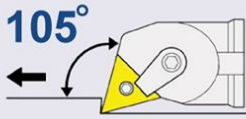
C=Cartridge

9 EXECUTION

A=ISO 5611

**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

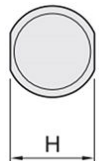
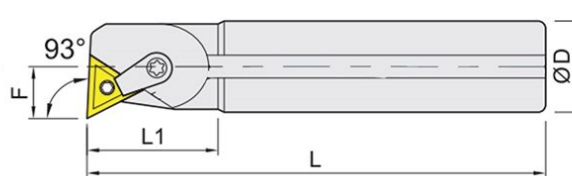
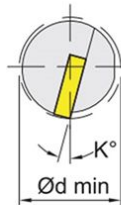
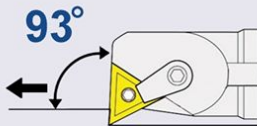
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Recommended Cutting Conditions

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

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					
S32S-MTUNR/L-16	32	250	40		1.58	MT1603	CTM511		HL1813	ML0625
S40T-MTUNR/L-16	40	300	50		2.96					
S50U-MTUNR/L-16	50	350	60		5.40					

Enforced blade

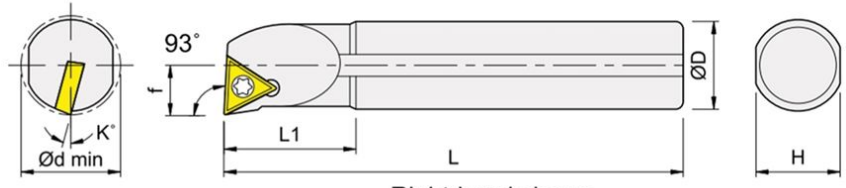
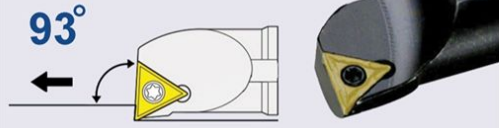
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Recommended Cutting Conditions

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

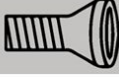
**STUC**

TC..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-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

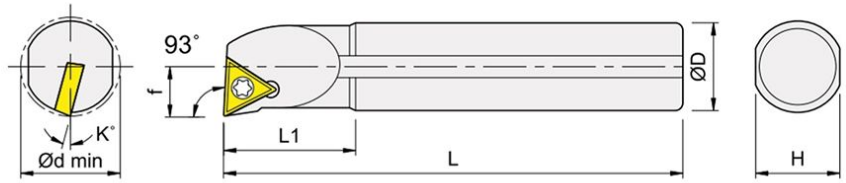
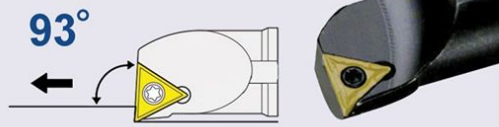
Use														
Insert shape														
Insert Code	TCMT110204EM DT9030 TCMT110208EM DT9030													

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

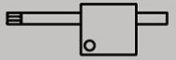
STUC

TC..16



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														
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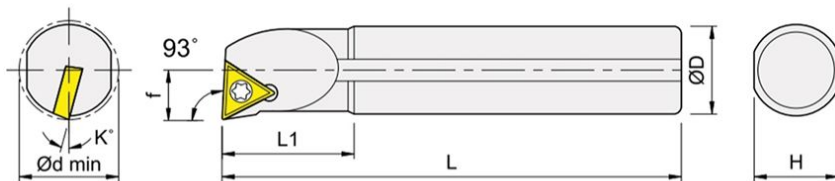
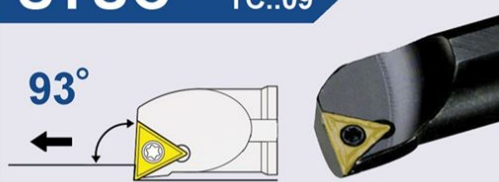
Recommended Cutting Conditions

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

**STUC**

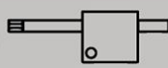
TC..09

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-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	TCMT090404EM DT9030	TCMT090404HQ DX650		

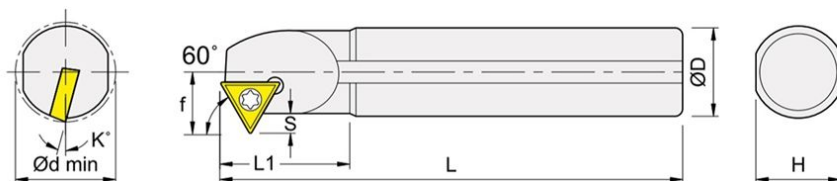
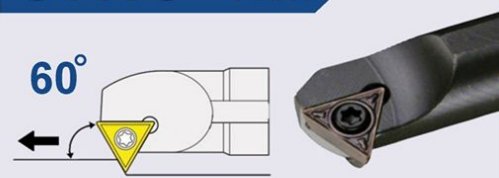
Recommended Cutting Conditions

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

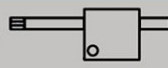
TC..11

60°



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-STWCR/L-11	10	125	13	TC..1102..	0.09	M2.5 x 7	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

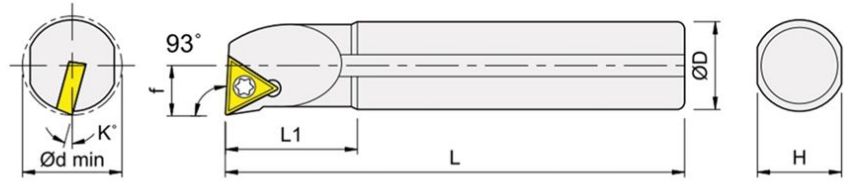
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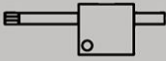
Recommended Cutting Conditions

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

**STUP**

TP..08

**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

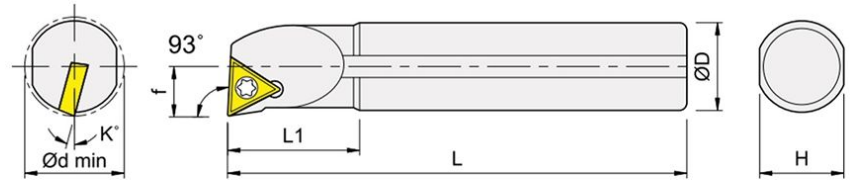
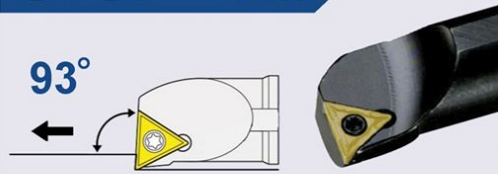
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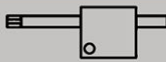
Recommended Cutting Conditions

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

STUP

TP..09

**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

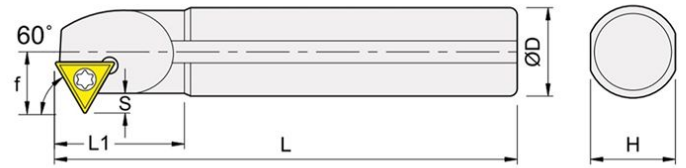
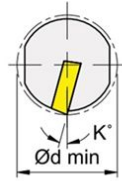
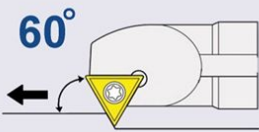
Use				
Insert shape				
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Recommended Cutting Conditions

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

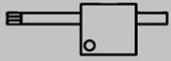
**STWP**

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

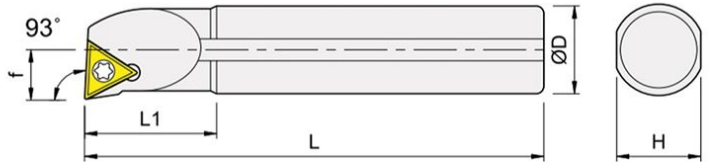
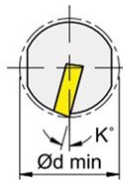
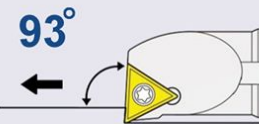
Use																				
Insert shape																				
Insert Code	TPMT110304MV DT9030					TPMT110304HQ DX650														

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

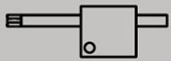
STUB

TB..06



Right-hand shown

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

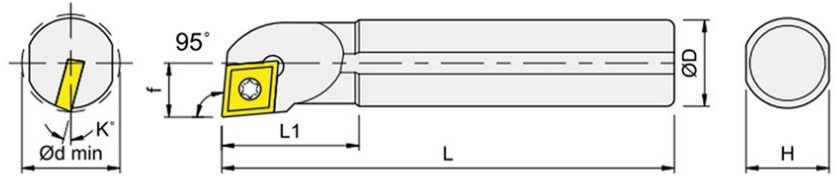
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Insert shape																				
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Recommended Cutting Conditions

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

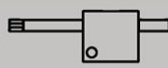
**SCLC**

CC..06



Right-hand shown

Product Specification

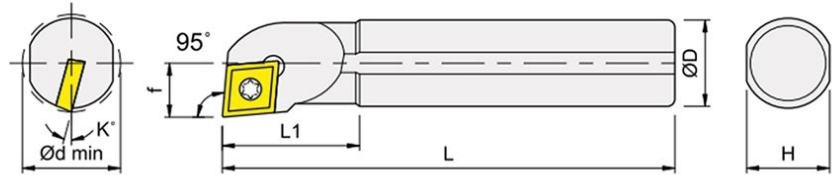
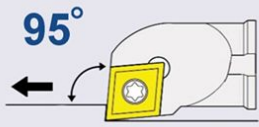
Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔Non-coolant	D	L	dmin				
S08K-SCLCR/L-06	8	125	10	CC..0602..	0.07	M2.5 x 6	T8
S10K-SCLCR/L-06	10	125	12		0.09		
S12M-SCLCR/L-06	12	150	16		0.13		

Enforced blade

Use	    	    	    	    
Insert shape				
Insert Code	CCMT060202EM DT9030 CCMT060204EM DT9030	CCMT060202HQ DX650 CCMT060204HQ DX650	CCMT060202PZ DT2025 CCMT060204PZ DT2025	CCGT060202AK DA01 CCGT060204AK DA01

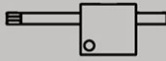
**SCLC**

CC..12



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

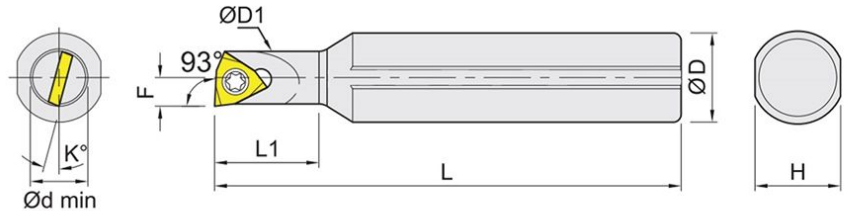
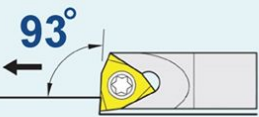
Use									
Insert shape									
Insert Code	CCMT120404EM DT9030 CCMT120408EM DT9030		CCMW120408 DT13115		CCGT120404AK DA01 CCGT120408AK DA01				

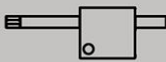
Recommended Cutting Conditions

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**

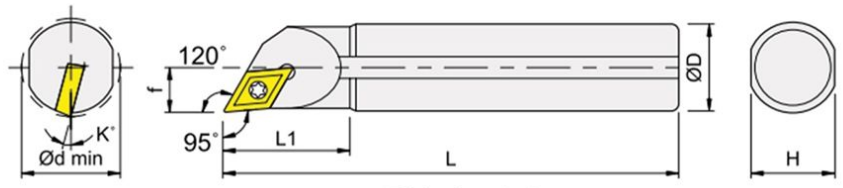
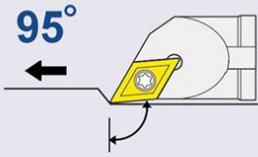
Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔Non-coolant	D	L	dmin				
S1006K-SWUBR/L-06-L18	10	125	7	WB..0601..	0.08	M2.2 x 5	T6
S1007K-SWUBR/L-06-L20	10	125	8		0.08		
S1205K-SWUBR/L-06-L15	12	125	6		0.11		

Enforced blade

Use									
Insert shape									
Insert Code	WBMT060102L-DP DT9030 WBMT060104L-DP DT9030		WBG060102L-F DX650 WBG060104L-F DX650						

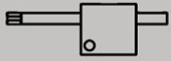
Recommended Cutting Conditions

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

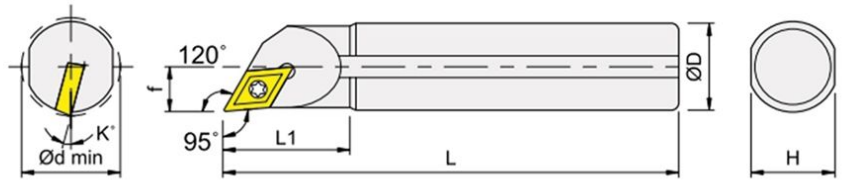
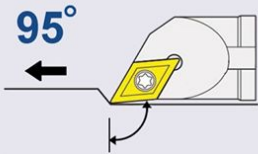
Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔Non-coolant	D	L	dmin				
S08K-SDJCR/L-07	8	125	10	CC..0702..	0.07	M2.5 x 6	T8
S10K-SDJCR/L-07	10	125	12		0.09		
S12M-SDJCR/L-07	12	150	14		0.13		
S16Q-SDJCR/L-07	16	180	19		0.28		

Enforced blade

Use									
Insert shape									
Insert Code	DCMT070204MV DT9030	DCMT070204HQ DX650	DCMT070204PZ DT2025	DCGT070204AK DA01					

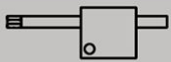
Recommended Cutting Conditions

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

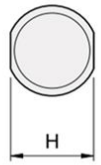
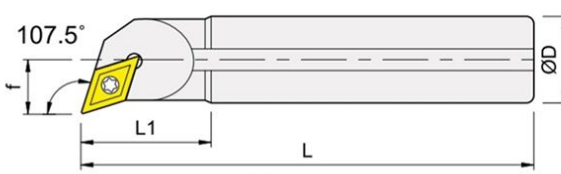
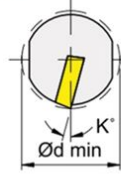
Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔Non-coolant	D	L	dmin				
S16Q-SDJCR/L-11	16	180	19	CC..11T3..	0.28	M4 x 8	T15
S20R-SDJCR/L-11	20	200	23		0.49		
S25R-SDJCR/L-11	25	200	28		0.77		
S25S-SDJCR/L-11	25	250	28		0.96		
S32S-SDJCR/L-11	32	250	35		1.58		

**SDQC** DC..07

107.5°

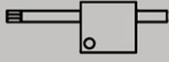


■ S..-SDQCR/L.. Steel shank



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 DX650		DCMT070204PZ DT2025		DCGT070204AK DA01

Recommended Cutting Conditions

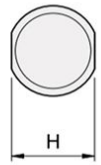
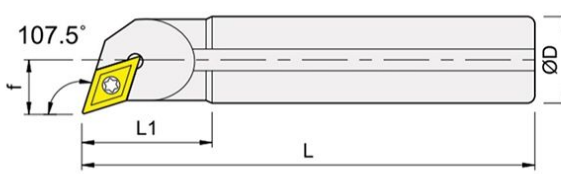
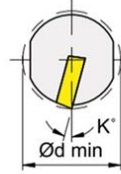
Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

SDQC DC..11

107.5°

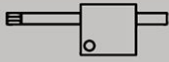


■ S..-SDQCR/L.. Steel shank



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-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 DX650		DCMT11T304PZ DT2025 DCMT11T308PZ DT2025		DCGT11T304AK DA01 DCGT11T308AK DA01

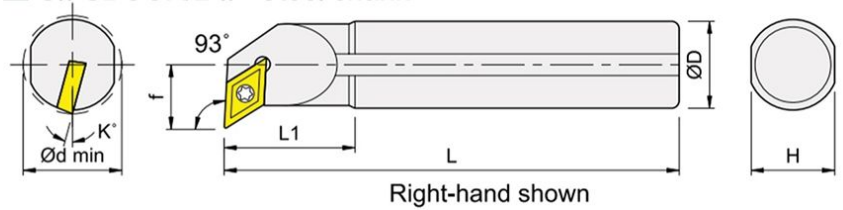
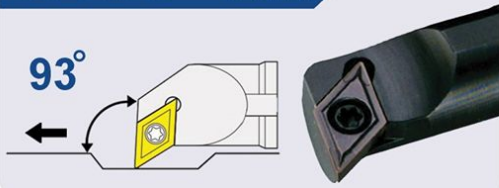
Recommended Cutting Conditions

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**

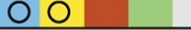
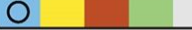
DC..07

93°

**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		
S16Q-SDQCR/L-07	16	180	20		0.28		

Enforced blade

Use				
Insert shape				
Insert Code	DCMT070204MV DT9030	DCMT070204HQ DX650	DCMT070204PZ DT2025	DCGT070204AK DA01

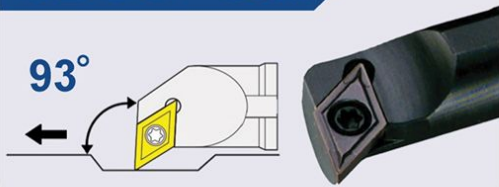
Recommended Cutting Conditions

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

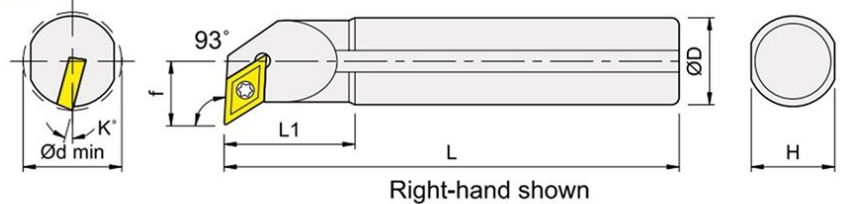
SDUC

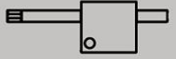
DC..11

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		2.96		

Enforced blade

Use				
Insert shape				
Insert Code	DCMT11T304EM DT9030 DCMT11T308EM DT9030	DCMT11T304HQ DX650	DCMT11T304PZ DT2025 DCMT11T308PZ DT2025	DCGT11T304AK DA01 DCGT11T308AK DA01

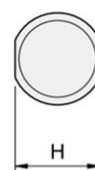
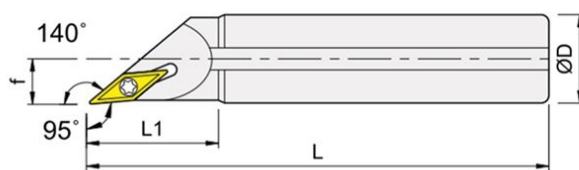
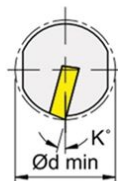
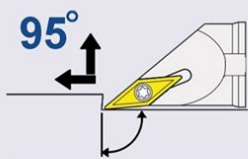
Recommended Cutting Conditions

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

**SVJB**

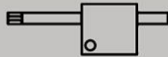
VB..11

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				
S10K-SVJBR/L-11	10	125	12	VB..1103..	0.08	M2.5 x 7	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 DX650 VBG110302AK DA01 VBG110304AK DA01													

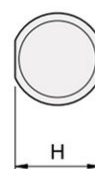
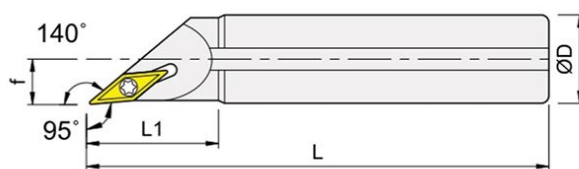
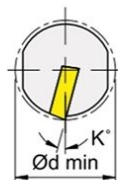
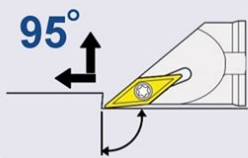
Recommended Cutting Conditions

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

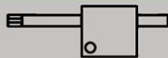
VB..16

95°



Right-hand shown

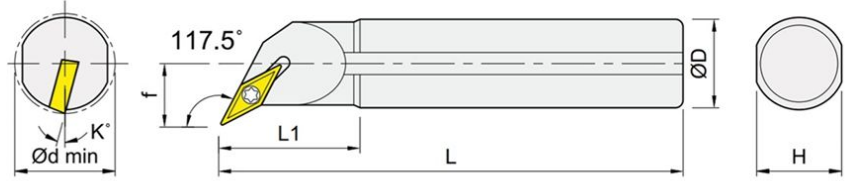
Product Specification

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔Non-coolant	D	L	dmin				
S16Q-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		

**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 7	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 DX650	VBGT110302AK DA01 VBGT110304AK DA01	

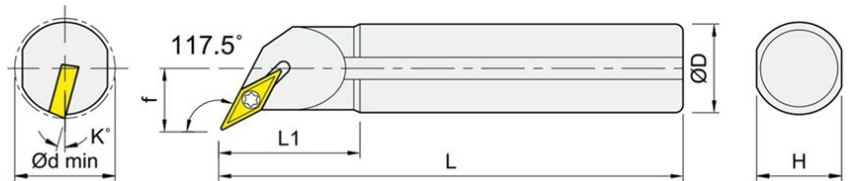
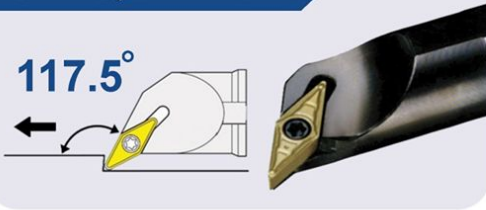
Recommended Cutting Conditions

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

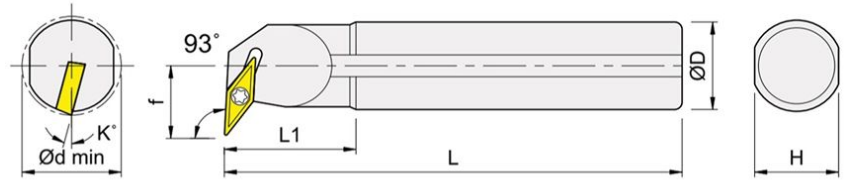
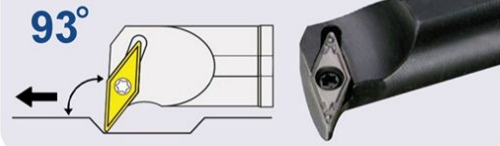
Use				
Insert shape				
Insert Code	VBMT160404MV DT9030	VBMT160404MV DT8090	VBMT160404MT DX650	VBGT160404AK DA01

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

**SVUB**

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				
S16Q-SVUBR/L-11	16	180	22	VB..1103..	0.28	M2.5 x 7	T8
S20R-SVUBR/L-11	20	200	27		0.49		

Enforced blade

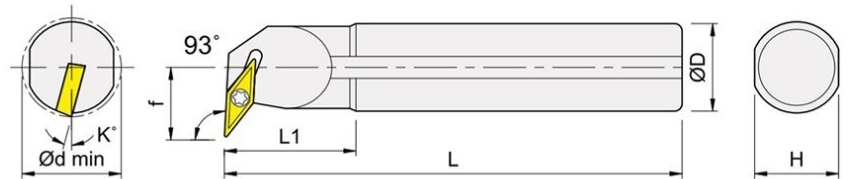
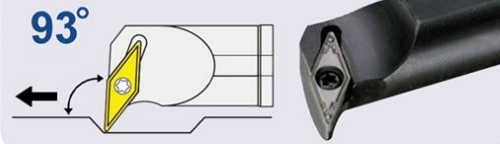
Use							
Insert shape							
Insert Code	VBMT110304TM DT9095	VBMT110304HQ DX650	VBGT110302AK DA01	VBGT110304AK DA01			

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

SVUB

VB..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				
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 DX650	VBGT160404AK DA01			

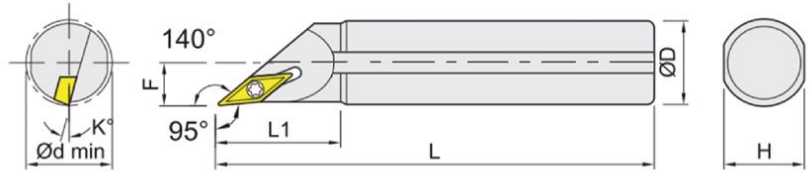
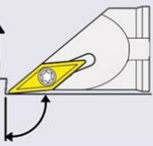
Recommended Cutting Conditions

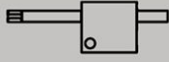
Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

**SVJC**

VC..11

95°

**Product Specification**

Steel shank Item code	Dimensions,mm			Insert	Weight (KG)	Screw 	Wrench 
無水孔Non-coolant	D	L	dmin				
S10K-SVJCR/L-11	10	125	12	VC..1103..	0.08	M2.5 x 7	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 DX650					VCGT110302AK DA01 VCGT110304AK DA01																																																						

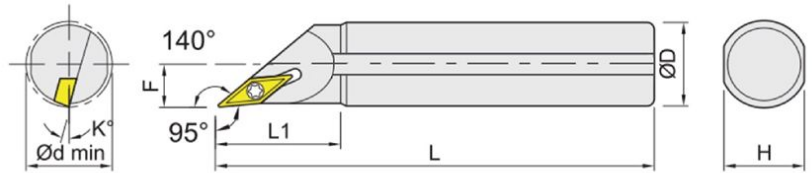
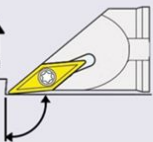
Recommended Cutting Conditions

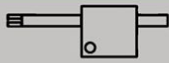
Working Material	Vc	fz	ap
Carbon Steel	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.5
Stainless Steel	100 ~ 180	0.08 ~ 0.25	0.3 ~ 3.0
Cast Iron	120 ~ 250	0.10 ~ 0.30	0.3 ~ 5.0
Aluminum Alloy	300 ~ 1000	0.10 ~ 0.40	0.3 ~ 5.5
Hardened steel	50 ~ 100	0.08 ~ 0.25	0.3 ~ 3.0

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

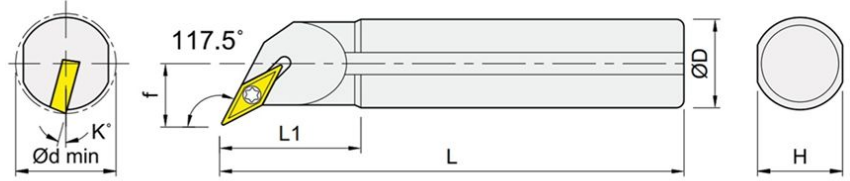
Recommended Cutting Conditions

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	0.08 ~ 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 7	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 DX650		VCGT110302AK DA01		VCGT110304AK DA01		

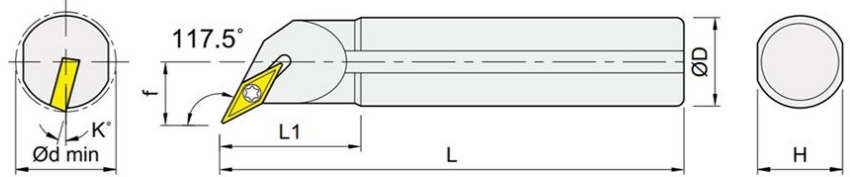
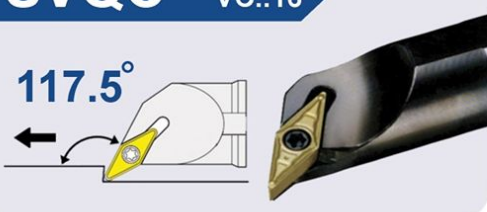
Recommended Cutting Conditions

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

SVQC

VC..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-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		VCGT160404AK DA01		VCGT160408AK DA01				

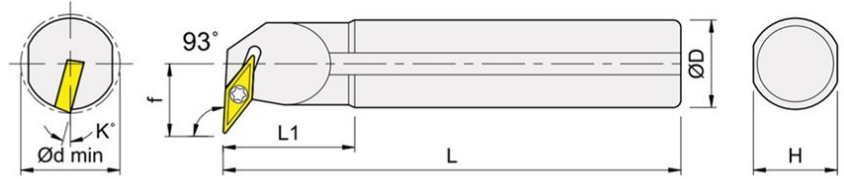
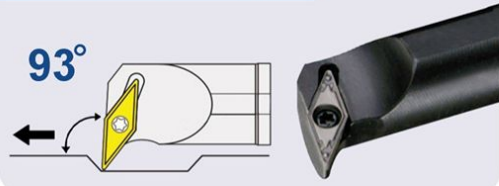
Recommended Cutting Conditions

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	0.08 ~ 0.25	0.3 ~ 3.0

**SVUC**

VC..11

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				
S16Q-SVUCR/L-11	16	180	22	VC..1103..	0.28	M2.5 x 7	T8
S20R-SVUCR/L-11	20	200	27		0.49		

Enforced blade

Use				
Insert shape				
Insert Code	VCMT110304TM DT9095	VCMT110304HQ DX650	VCMT110302AK DA01 VCMT110304AK DA01	

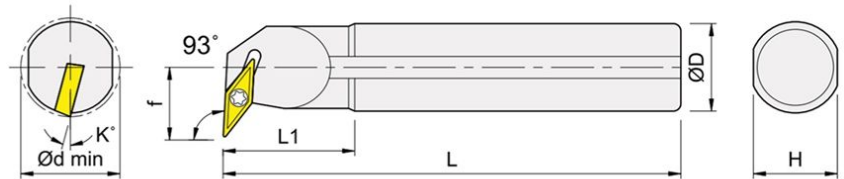
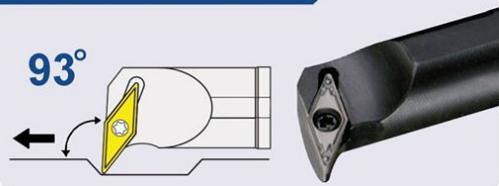
Recommended Cutting Conditions

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

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				
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 VCMT160404TM DT9095	VCMT160404AK DA01 VCMT160408AK 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



FIG-1

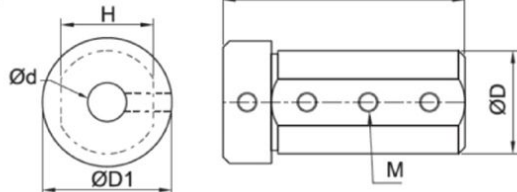


FIG-2

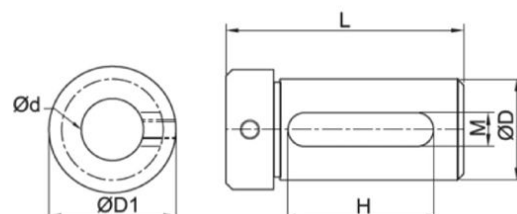


FIG-4

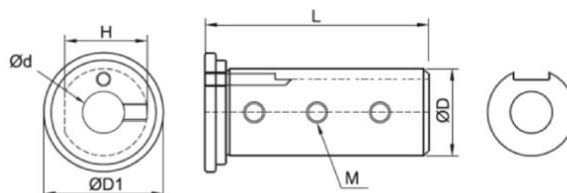
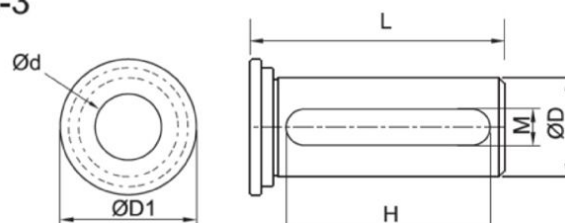


FIG-3



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 無水孔Non-coolant	SHAPE	Dimensions,mm					Weight (KG)
		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

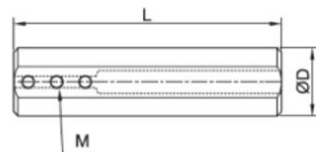
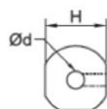


FIG-4

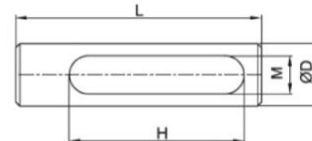
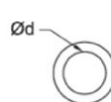


FIG-2

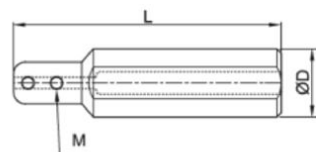
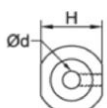


FIG-5

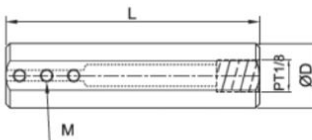
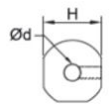


FIG-3

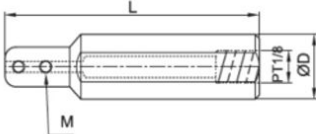
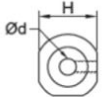
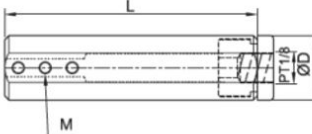
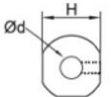


FIG-6



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 無水孔Non-coolant	SHAPE	Dimensions,mm					Weight (KG)
		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