

SCREW-IN TOOLS

Easy to use screw-in heads for die and mold machining.


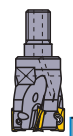




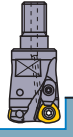








- Interchangeable heads from all main types of Mitsubishi Materials milling tools.
- Standard series includes steel, straight shank and high rigidity carbide types.
- BT and HSK shank arbors available in ultra compact size.



SCREW-IN TOOLS

Features

Screw-in tools can be used for a wide variety of machining applications.

Screw-in Head			Screw-in Arbor	
Product Name	Application	Features		
APX3000/4000  P.3	<ul style="list-style-type: none"> Shoulder Milling Copy Milling Face Milling 	<ul style="list-style-type: none"> 11°, 15° positive, low cutting force insert. High accuracy, high quality vertical wall. With through coolant holes. 	<ul style="list-style-type: none"> ● Straight Shank Arbor <ul style="list-style-type: none"> Steel shank type : General machining Carbide shank type : High rigidity applications  ● BT30/40 Shank Arbor <ul style="list-style-type: none"> Integral tool for a shorter overhang!  ● HSK63A Shank Arbor <ul style="list-style-type: none"> Effective when used on high speed, low rigidity machining centres!  	
AJX  P.4	<ul style="list-style-type: none"> Pocket Milling Face Milling 	<ul style="list-style-type: none"> High rigidity double clamp structure. Suitable for high feed cutting. 13°, 15° positive insert. Special insert design with 3 cutting edges. With through coolant holes. 		
AQX  P.5	<ul style="list-style-type: none"> Pocket Milling Copy Milling Drilling Shoulder Milling Face Milling 	<ul style="list-style-type: none"> The centre bottom cutting edge enables drilling without previously formed hole. High rigidity body design. With through coolant holes. 		
SRM2  P.6	<ul style="list-style-type: none"> Curved Face Milling Copy Milling Contour Milling 	<ul style="list-style-type: none"> Suitable for roughing to semi-finishing of small and medium moulds. Low resistance chipbreaker. High rigidity body design. With through coolant holes. 		
ARX  P.7	<ul style="list-style-type: none"> Slot Milling Corner Radius Milling Copy Milling Face Milling 	<ul style="list-style-type: none"> 15° positive, high tolerance M-class insert. Effective for various machining applications. With through coolant holes. 		
ASX400  P.8	<ul style="list-style-type: none"> Shoulder Milling Face Milling 	<ul style="list-style-type: none"> Precise but inexpensive moulded type 20° positive inserts. Economical 4 cutting edge inserts. Curved cutting edge and high rigidity holder. With through coolant holes. 		

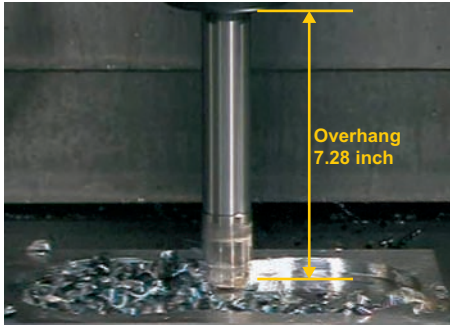
Cutting Performance

Carbide Shank Arbor

● Possible to machine with overhangs of up to 6xD (standard type: 2xD)

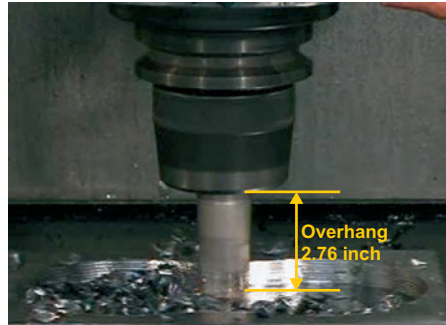
<Screw-in Tool>

Carbide Arbor : SC32M16S280LW
Screw-in Head : AJX12R322AM1645



<Standard Arbor>

Arbor : BT50 milling chuck
Holder : AJX12R322SA32S



<Cutting Conditions>

Workpiece : AISI 4140
Insert : JDMW12420ZDSR-FT (VP15TF)
Cutting speed : 490 SFM
Feed rate : 157 inch/min
Feed per tooth : .052-.094 IPT
Depth of cut : .079 inch (Axial)
1.260 inch (Radial)

Dry cutting

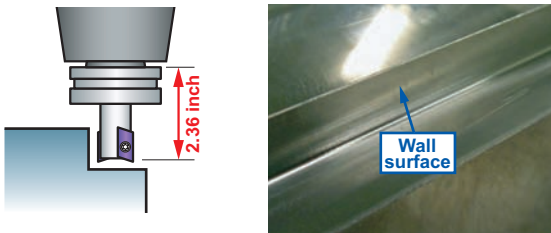
* The overhang length differs depending the tool and cutting conditions.

BT Shank Arbor

● Compact size enables high quality machining!

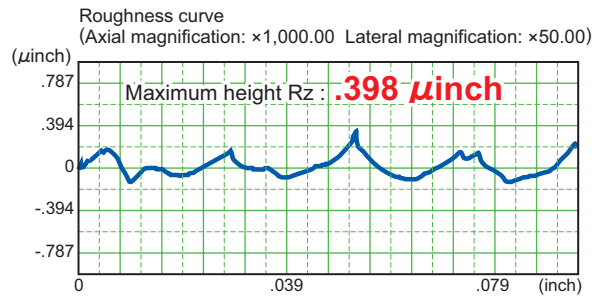
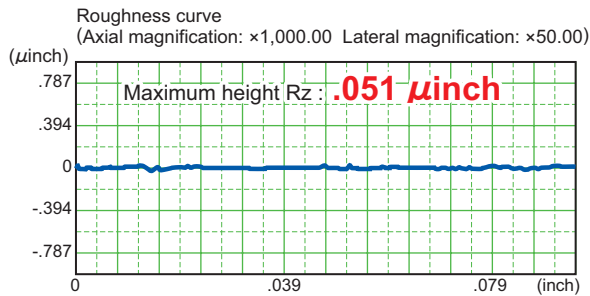
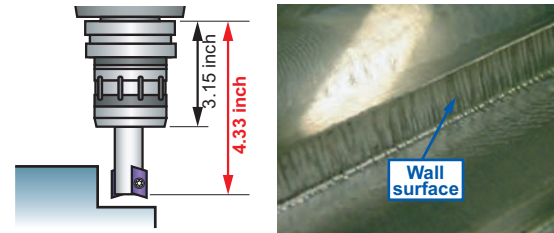
<Screw-in Tool>

BT Arbor : SC20M10S10-BT30
Screw-in Head : APX3000R203M10A30



<Standard Arbor>

Arbor : BT30 milling chuck
Holder : APX3000R203SA20SA



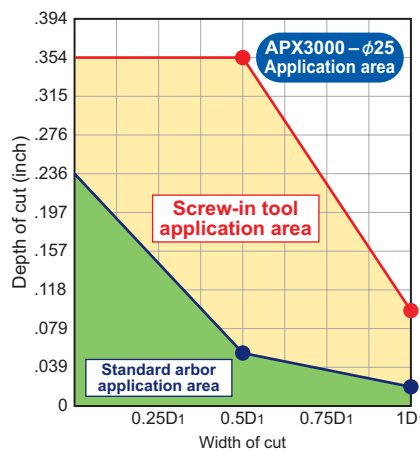
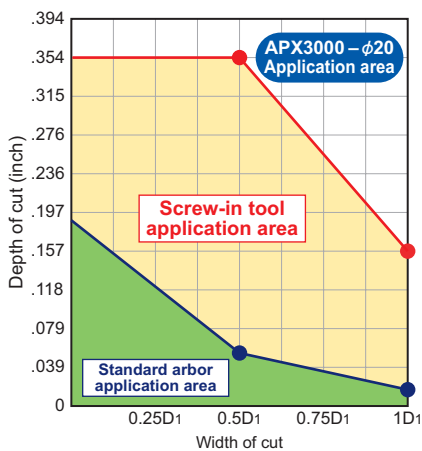
<Cutting Conditions>

Workpiece : AISI 1055
Insert : AOMT123608PEER-M (VP15TF)
Cutting speed : 525 SFM

Feed rate : 30.1 inch/min
Feed per tooth : .004 IPT

Depth of cut : .236 inch (Axial)
.394 inch (Radial)
Dry cutting

● A wide application range



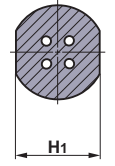
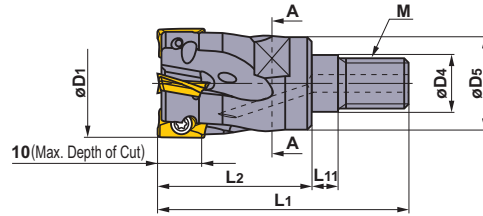
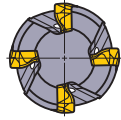
<Cutting Conditions>

Workpiece : AISI 1055
Cutting speed : 525 SFM
Feed per tooth : .004 IPT
Dry cutting
D1 : Cutting edge diameter

SCREW-IN TOOLS

APX3000

● Air / coolant through



SECTION A-A

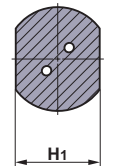
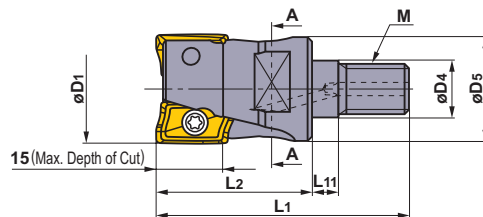
Right hand tool only.

Order Number	Stock R	Number of Teeth	Dimensions (mm)								Mass (kg)				
			D1	D4	D5	L1	L2	L11	H1	M					
APX3000R162M08A30	★	2	16	8.5	13	48	30	6	10	M8	0.1	TPS25	TIP07F	MK1KS	AOMT1236 PEER
182M08A30	★	2	18	8.5	13	48	30	6	10	M8	0.1	TPS25	TIP07F	MK1KS	
203M10A30	★	3	20	10.5	18	49	30	6	14	M10	0.1	TPS25	TIP07F	MK1KS	
223M10A30	★	3	22	10.5	18	49	30	6	14	M10	0.1	TPS25	TIP07F	MK1KS	
254M12A35	★	4	25	12.5	21	57	35	6	19	M12	0.2	TPS25-1	TIP07F	MK1KS	
284M12A35	★	4	28	12.5	21	57	35	6	19	M12	0.2	TPS25-1	TIP07F	MK1KS	
304M16A40	★	4	30	17	29	63	40	6	24	M16	0.3	TPS25-1	TIP07F	MK1KS	
325M16A40	★	5	32	17	29	63	40	6	24	M16	0.3	TPS25-1	TIP07F	MK1KS	
355M16A40	★	5	35	17	29	63	40	6	24	M16	0.3	TPS25-1	TIP07F	MK1KS	
406M16A40	★	6	40	17	29	63	40	6	24	M16	0.3	TPS25-1	TIP07F	MK1KS	

Note) For the recommended cutting conditions, refer to the general catalogue or B055A Tools News.

APX4000

● Air / coolant through



SECTION A-A

Right hand tool only.

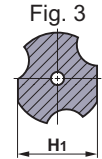
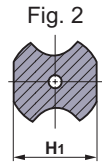
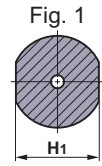
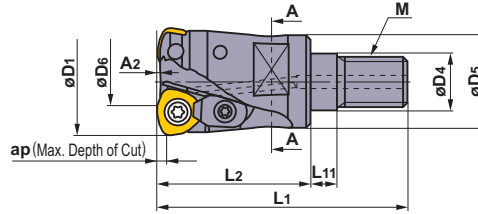
Order Number	Stock R	Number of Teeth	Dimensions (mm)								Mass (kg)				
			D1	D4	D5	L1	L2	L11	H1	M					
APX4000R252M12A35	★	2	25	12.5	23.5	57	35	6	19	M12	0.2	TPS4	TIP15W	MK1KS	AOMT1848 PEER
282M12A35	★	2	28	12.5	23.5	57	35	6	19	M12	0.2	TPS4	TIP15W	MK1KS	
322M16A40	★	2	32	17	28.5	63	40	6	24	M16	0.3	TPS4	TIP15W	MK1KS	
323M16A40	★	3	32	17	28.5	63	40	6	24	M16	0.3	TPS4	TIP15W	MK1KS	
352M16A40	★	2	35	17	28.5	63	40	6	24	M16	0.3	TPS4	TIP15W	MK1KS	
353M16A40	★	3	35	17	28.5	63	40	6	24	M16	0.3	TPS4	TIP15W	MK1KS	
403M16A40	★	3	40	17	28.5	63	40	6	24	M16	0.3	TPS43	TIP15W	MK1KS	
404M16A40	★	4	40	17	28.5	63	40	6	24	M16	0.3	TPS43	TIP15W	MK1KS	

Note) For the recommended cutting conditions, refer to the general catalogue or B055A Tools News.

★ : Inventory maintained in Japan.

AJX

● Air / coolant through



SECTION A-A

Right hand tool only.

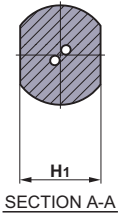
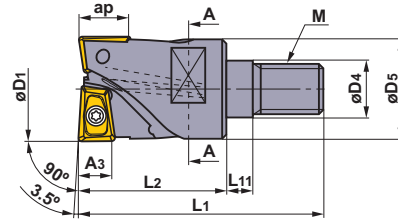
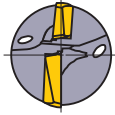
Order Number	Stock Number of Teeth	Dimensions (mm)												Mass (kg)	Figure	Clamp Screw	Clamp Bridge	Clamp Bridge Screw	Spring	Wrench	Insert
		D1	D4	D5	D6	L1	L2	L11	H1	M	ap	A2									
AJX06R162AM0830	★ 2	16	8.5	13	8.9	48	30	6	10	M8	1.0	0.3	0.1	1	TS25	—	—	—	—	⊙TKY08F	JOM 06 T215ZZSR ⊙
172AM0830	★ 2	17	8.5	13	9.9	48	30	6	10	M8	1.0	0.3	0.1	1	TS25	—	—	—	—	⊙TKY08F	
203AM1030	★ 3	20	10.5	18	12.9	49	30	6	14	M10	1.0	0.3	0.1	3	TS25	—	—	—	—	⊙TKY08F	
223AM1030	★ 3	22	10.5	18	14.9	49	30	6	14	M10	1.0	0.3	0.1	3	TS25	—	—	—	—	⊙TKY08F	
AJX08R202AM1030	★ 2	20	10.5	18	11.4	49	30	6	14	M10	1.5	0.5	0.1	2	TS33	—	—	—	—	⊙TKY08D	JOM 080 320ZZSR ⊙
222AM1030	★ 2	22	10.5	18	13.4	49	30	6	14	M10	1.5	0.5	0.1	2	TS33	—	—	—	—	⊙TKY08D	
253AM1235	★ 3	25	12.5	21	16.4	57	35	6	19	M12	1.5	0.5	0.1	1	TS33	—	—	—	—	⊙TKY08D	
283AM1235	★ 3	28	12.5	21	19.4	57	35	6	19	M12	1.5	0.5	0.1	1	TS33	—	—	—	—	⊙TKY08D	
AJX09R252AM1235	★ 2	25	12.5	21	14.9	57	35	6	19	M12	2.0	1.0	0.2	2	TS351	AMS3	AJS3010T10	ASS2	⊙TKY10D	JDM 09T 320ZDSR ⊙	
282AM1235	★ 2	28	12.5	21	17.9	57	35	6	19	M12	2.0	1.0	0.2	2	TS351	AMS3	AJS3010T10	ASS2	⊙TKY10D		
303AM1645	★ 3	30	17	29	20.0	68	45	6	24	M16	2.0	1.0	0.2	1	TS351	AMS3	AJS3010T10	ASS2	⊙TKY10D		
323AM1645	★ 3	32	17	29	21.9	68	45	6	24	M16	2.0	1.0	0.2	1	TS351	AMS3	AJS3010T10	ASS2	⊙TKY10D		
353AM1645	★ 3	35	17	29	24.9	68	45	6	24	M16	2.0	1.0	0.2	1	TS351	AMS3	AJS3010T10	ASS2	⊙TKY10D		
404AM1645	★ 4	40	17	29	29.9	68	45	6	24	M16	2.0	1.0	0.2	1	TS351	AMS3	AJS3010T10	ASS2	⊙TKY10D		
AJX12R302AM1645	★ 2	30	17	29	18.3	68	45	6	24	M16	2.0	1.5	0.3	2	TS407	AMS4	AJS4012T15	ASS2	⊙TKY15D	JDM 120420 ZDSR ⊙	
322AM1645	★ 2	32	17	29	20.3	68	45	6	24	M16	2.0	1.5	0.3	2	TS43	AMS4	AJS4012T15	ASS2	⊙TKY15D		
352AM1645	★ 2	35	17	29	23.3	68	45	6	24	M16	2.0	1.5	0.3	2	TS43	AMS4	AJS4012T15	ASS2	⊙TKY15D		
403AM1645	★ 3	40	17	29	28.3	68	45	6	24	M16	2.0	1.5	0.3	2	TS43	AMS4	AJS4012T15	ASS2	⊙TKY15D		

Note) For the recommended cutting conditions, refer to the general catalogue or B028A Tools News.




SCREW-IN TOOLS

AQX

● Air / coolant through



Right hand tool only.

Order Number	Stock	Dimensions (mm)										Mass (kg)			
		R	D1	D4	D5	L1	L2	L11	H1	M	A3 ^{*1}				
AQXR162M08A30	★	16	8.5	14.7	48	30	6	10	M8	4.5	7.4	0.1	TS2A	⓪TKY06F	
172M08A30	★	17	8.5	14.5	48	30	6	10	M8	4.5	7.4	0.1	TS2A	⓪TKY06F	QO○T0830R-○○
202M10A30	★	20	10.5	18.6	49	30	6	14	M10	6	9.2	0.2	TS25	⓪TKY08F	QO○T1035R-○○
212M10A30	★	21	10.5	18.5	49	30	6	14	M10	6	9.2	0.2	TS25	⓪TKY08F	
252M12A35	★	25	12.5	23.5	57	35	6	19	M12	7.5	11.5	0.2	TS33	⓪TKY08D	QO○T1342R-○○
262M12A35	★	26	12.5	23.5	57	35	6	19	M12	7.5	11.5	0.2	TS33	⓪TKY08D	
322M16A40	★	32	17	28.5	63	40	6	24	M16	9.5	14.5	0.3	TS407	⓪TKY15D	QO○T1651R-○○
332M16A40	★	33	17	28.5	63	40	6	24	M16	9.5	14.5	0.3	TS407	⓪TKY15D	
352M16A40	★	35	17	28.5	63	40	6	24	M16	11	16	0.3	TS407	⓪TKY15D	QO○T1856R-○○
402M16A45	★	40	17	28.5	68	45	6	24	M16	12	18	0.3	TS55	⓪TKY25D	QO○T2062R-○○

*1 A3 : Max depth of cut to maintain the full two bottom insert contact with workpiece.

*2 ap : Maximum overall depth of cut.

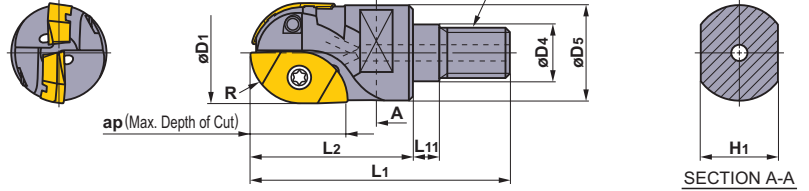
Note) For the recommended cutting conditions, refer to the general catalogue or B021A Tools News.

SRM2

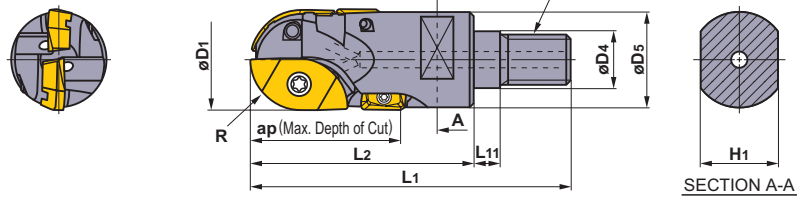
● Air / coolant through



● Standard Type



● Long Cutting Edge Type



Right hand tool only.

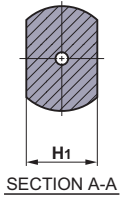
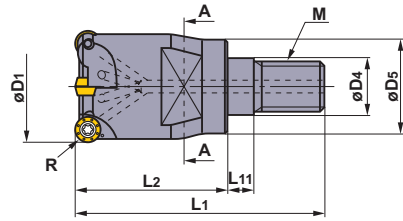
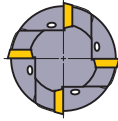
Type	Order Number	Stock	Dimensions (mm)										Mass (kg)	Tools			Inserts					
			R	R	D1	D4	D5	L1	L2	L11	H1	M		ap	Inner Outer Clamp	Peripheral Screw	Wrench			Inner	Outer	Peripheral
														① TKY08D ② TKY15T ③ TKY08F ④ TKY25T ⑤ TKY15F			SRG16C SRM16C-M SRG20C SRM20C-M SRG25C SRM25C-M SRG30C SRM30C-M SRG32C SRM32C-M			SRG16E SRM16E-M SRG20E SRM20E-M SRG25E SRM25E-M SRG30E SRM30E-M SRG32E SRM32E-M		
Standard type	SRM2160AM08S30	★	8	16	8.5	14.6	48	30	6	10	M8	12	0.1	TS25H	—	① TKY08D			SRG16C SRM16C-M	SRG16E SRM16E-M	—	
	2200AM10S35	★	10	20	10.5	18.6	54	35	6	14	M10	14	0.1	TS32	—	① TKY08D			SRG20C SRM20C-M	SRG20E SRM20E-M	—	
	2250AM12S40	★	12.5	25	12.5	23.5	62	40	6	19	M12	19	0.2	TS43	TS25	② TKY15T			SRG25C SRM25C-M	SRG25E SRM25E-M	—	
	2300AM16S45	★	15	30	17	28.3	68	45	6	24	M16	24	0.2	TS55	—	② TKY15T ③ TKY08F			SRG30C SRM30C-M	SRG30E SRM30E-M	—	
	2320AM16S45	★	16	32	17	30.0	68	45	6	24	M16	28	0.2	TS55	TS43	② TKY25T ③ TKY15F			SRG32C SRM32C-M	SRG32E SRM32E-M	—	
Long cutting edge type	SRM2200AM10L45	★	10	20	10.5	18.6	64	45	6	14	M10	30	0.2	TS32	TS25	① TKY08D			SRG20C SRM20C-M	SRG20E SRM20E-M	APMT1135 PDER-2	
	2250AM12L55	★	12.5	25	12.5	23.5	77	55	6	19	M12	37	0.3	TS43	TS25	② TKY15T ③ TKY08F			SRG25C SRM25C-M	SRG25E SRM25E-M	APMT1135 PDER-2	
	2300AM16L60	★	15	30	17	28.3	83	60	6	24	M16	44	0.3	TS55	TS43	② TKY25T ③ TKY15F			SRG30C SRM30C-M	SRG30E SRM30E-M	APMT1604 PDER-2	
	2320AM16L60	★	16	32	17	29.0	83	60	6	24	M16	44	0.3	TS55	TS43	② TKY25T ③ TKY15F			SRG32C SRM32C-M	SRG32E SRM32E-M	APMT1604 PDER-2	

Note) For the recommended cutting conditions, refer to the general catalogue or B020A Tools News.




SCREW-IN TOOLS

ARX

● Air / coolant through



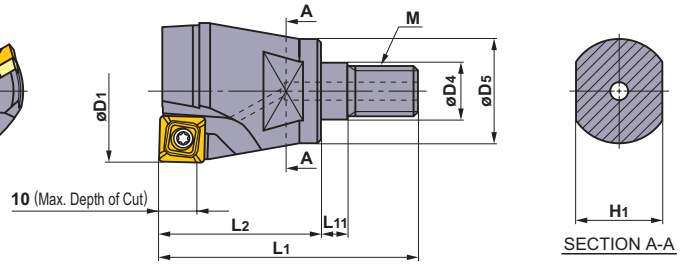
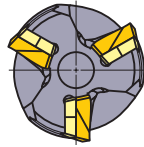
Right hand tool only.

Order Number	Stock R	Number of Teeth	Dimensions (mm)									Mass (kg)	 Clamp Screw	 Wrench	 Insert
			R	D1	D4	D5	L1	L2	L11	H1	M				
ARX25R163M08A30	★	3	2.5	16	8.5	14.7	48	30	6	10	M8	0.1	TPS20	TIP06F	RDMW0517M0E
173M08A30	★	3	2.5	17	8.5	14.5	48	30	6	10	M8	0.1	TPS20	TIP06F	RDMW0517M0E
204M10A30	★	4	2.5	20	10.5	18.6	49	30	6	14	M10	0.2	TPS20	TIP06F	RDMW0517M0E
224M10A30	★	4	2.5	22	10.5	18.5	49	30	6	14	M10	0.2	TPS20	TIP06F	RDMW0517M0E
255M12A35	★	5	2.5	25	12.5	23.6	57	35	6	19	M12	0.2	TPS20	TIP06F	RDMW0517M0E
ARX30R163M08A30	★	3	3.0	16	8.5	14.6	48	30	6	10	M8	0.1	TPS22	TIP07FS	RDMW0620M0E
173M08A30	★	3	3.0	17	8.5	14.5	48	30	6	10	M8	0.1	TPS22	TIP07FS	RDMW0620M0E
203M10A30	★	3	3.0	20	10.5	18.5	49	30	6	14	M10	0.2	TPS22	TIP07FS	RDMW0620M0E
224M10A30	★	4	3.0	22	10.5	18.5	49	30	6	14	M10	0.2	TPS22	TIP07FS	RDMW0620M0E
254M12A35	★	4	3.0	25	12.5	23.4	57	35	6	19	M12	0.2	TPS22	TIP07FS	RDMW0620M0E






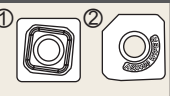

Note) For the recommended cutting conditions, refer to Japanese general catalogue.

ASX400

● Air / coolant through



Right hand tool only.

Order Number	Stock R	Number of Teeth	Dimensions (mm)								Mass (kg)						
			D1	D4	D5	L1	L2	L11	H1	M		Shim	Clamp Screw	Shim Screw	Wrench (Insert)	Wrench (Shim)	Insert
ASX400R322AM1640	★	2	32	17	29	63	40	6	24	M16	0.3	—	TPS35	WCS503507H	TIP15T	HKY35R	①SO T12T308 PEER- 
403AM1645	★	3	40	17	29	68	45	6	24	M16	0.3	STASX400N	TPS35	WCS503507H	TIP15T	HKY35R	②WOEW12T308 PEE/TR-8C

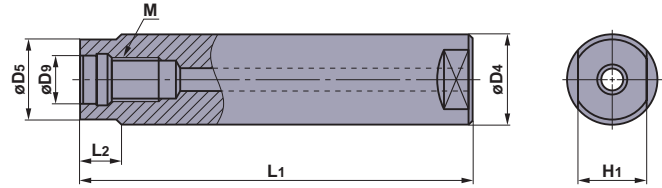
Note) For the recommended cutting conditions, refer to the general catalogue or B023A Tools News.

SCREW-IN TOOLS

Straight Shank Arbor

Steel Shank Type

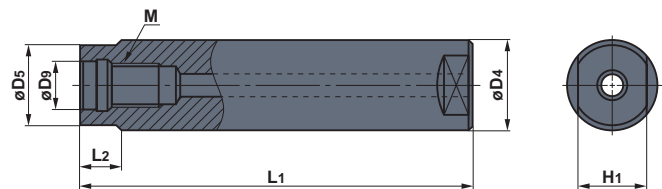
- Air / coolant through



Type	Order Number	Stock	Dimensions (mm)						Mass (kg)	
			D ₉	D ₄	D ₅	L ₁	L ₂	H ₁		M
Steel Shank	SC16M08S100S	★	8.5	16	14.5	100	10	10	M8	0.1
	08S200L	★	8.5	16	14.5	200	10	10	M8	0.3
	SC20M10S120S	★	10.5	20	18.5	120	10	14	M10	0.3
	10S220L	★	10.5	20	18.5	220	10	14	M10	0.5
	SC25M12S125S	★	12.5	25	23.5	125	10	19	M12	0.4
	12S245L	★	12.5	25	23.5	245	10	19	M12	0.8
	SC32M16S140S	★	17	32	28.5	140	15	24	M16	0.8
	16S280L	★	17	32	28.5	280	15	24	M16	1.6

Carbide Shank Type

- Air / coolant through

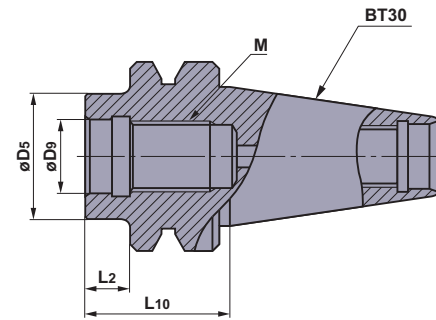


Type	Order Number	Stock	Dimensions (mm)						Mass (kg)	
			D ₉	D ₄	D ₅	L ₁	L ₂	H ₁		M
Carbide Shank	SC16M08S100SW	★	8.5	16	14.5	100	10	10	M8	0.2
	08S200LW	★	8.5	16	14.5	200	10	10	M8	0.5
	SC20M10S120SW	★	10.5	20	18.5	120	10	14	M10	0.5
	10S220LW	★	10.5	20	18.5	220	10	14	M10	0.9
	SC25M12S125SW	★	12.5	25	23.5	125	10	19	M12	0.8
	12S245LW	★	12.5	25	23.5	245	10	19	M12	1.5
	SC32M16S140SW	★	17	32	28.5	140	15	24	M16	1.4
	16S280LW	★	17	32	28.5	280	15	24	M16	2.8

BT Shank Arbor

BT30 Shank Arbor

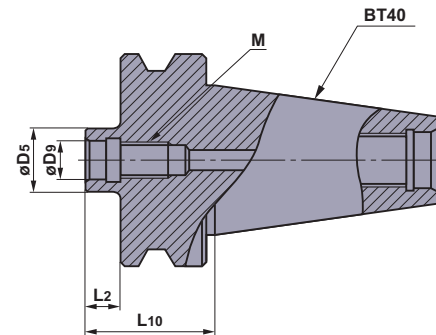
- Air / coolant through



Order Number	Stock	Dimensions (mm)					Mass (kg)
		D ₉	D ₅	L ₁₀	L ₂	M	
SC16M08S10-BT30	★	8.5	14.5	32	10	M8	0.4
20M10S10-BT30	★	10.5	18.5	32	10	M10	0.4
25M12S10-BT30	★	12.5	23.5	32	10	M12	0.4
32M16S10-BT30	★	17.0	28.5	32	10	M16	0.4

BT40 Shank Arbor

- Air / coolant through

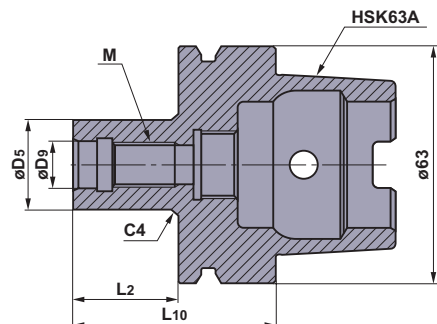


Order Number	Stock	Dimensions (mm)					Mass (kg)
		D ₉	D ₅	L ₁₀	L ₂	M	
SC16M08S10-BT40	★	8.5	14.5	37	10	M8	1.0
20M10S10-BT40	★	10.5	18.5	37	10	M10	1.0
25M12S10-BT40	★	12.5	23.5	37	10	M12	1.0
32M16S10-BT40	★	17.0	28.5	37	10	M16	1.0

HSK Shank Arbor

HSK63A Shank Arbor

- Air / coolant through



Order Number	Stock	Dimensions (mm)					Mass (kg)
		D ₉	D ₅	L ₁₀	L ₂	M	
SC16M08S22-HSK63A	★	8.5	14.5	48	22	M8	0.7
20M10S24-HSK63A	★	10.5	18.5	50	24	M10	0.7
25M12S27-HSK63A	★	12.5	23.5	53	27	M12	0.7
32M16S28-HSK63A	★	17.0	28.5	54	28	M16	0.8

SCREW-IN TOOLS

How to Install the Screw-in Head

- ① Thoroughly clean the clamp section of the head and the arbor with an air blower or brush before installation.
- ② Tighten the head at the recommended torque and ensure that there is no gap between the head and arbor.

Screw Size	Recommended Torque (Nm)	Wrench Size (mm)
M8	23	10
M10	46	14
M12	80	19
M16	90	24



- Cutting tools become extremely hot during cutting. Never touch them with bare hands after operation as this may produce risk of injuries or burns.
- Do not handle the cutting tools with bare hands as this may cause injuries.

For Your Safety

- Don't handle inserts and chips without gloves.
- Please machine within the recommended application range and exchange expired tools with new ones in advance of breakage.
- Please use safety covers and wear safety glasses.
- When using compounded cutting oils, please take fire precautions.
- When attaching inserts or spare parts, please use only the correct wrench or spanner.
- When using rotating tools, please make a trial run to check run-out, vibration and abnormal sounds etc.

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(Tools specifications subject to change without notice.)