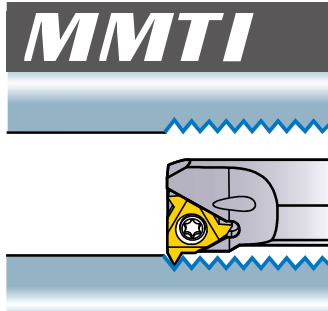
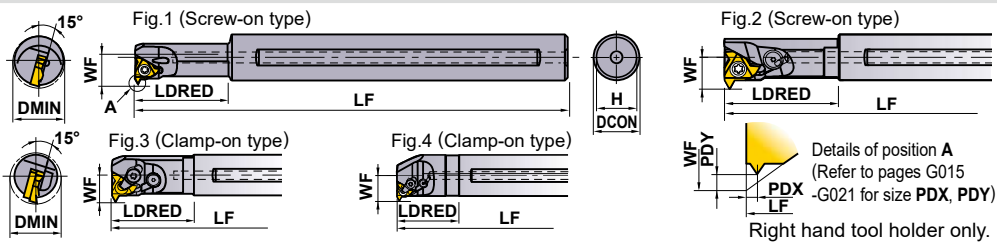


MMTI TYPE BORING BARS

- Minimum cutting diameter .500".
- Available with a pressed breaker for chip control.
- Various insert types.
- Able to change lead angle by replacing the shim.
- Precision class insert for precise thread forms.



(Internal threading)

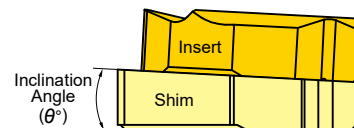


Order Number	Stock R	Insert Number	Lead Angle	Dimensions (inch)						Accessories						Fig.
				DCON	LF	LDRED	WF	H	DMIN	Clamp Bridge	Clamp Screw	Stop Ring	Shim Screw	Shim *1	Wrench	
MMTIR102-0.50-1.5-C	●	MMT11IR	1.5°	.625	5.000	1.000	.340	.586	.500	-	TS25	-	-	-	①TKY08F	1
MMTIR102-0.50-2.5-C	●		2.5°	.625	5.000	1.000	.340	.586	.500	-	TS25	-	-	-	①TKY08F	1
MMTIR102-0.60-1.5-C	●		1.5°	.625	6.000	1.250	.380	.586	.600	-	TS25	-	-	-	①TKY08F	1
MMTIR102-0.60-2.5-C	●		2.5°	.625	6.000	1.250	.380	.586	.600	-	TS25	-	-	-	①TKY08F	1
MMTIR103-0.75-1.5-C	●	MMT16IR	1.5°	.625	6.000	1.500	.480	.586	.750	-	CS350860T	-	-	-	①TKY15F	2
MMTIR103-0.75-2.5-C	●		2.5°	.625	6.000	1.500	.480	.586	.750	-	CS350860T	-	-	-	①TKY15F	2
MMTIR123-0.90-1.5-C	●		1.5°	.750	7.000	1.500	.510	.711	.900	SETK51	SETS51	CR4	HFC03006	CTI32TP15	①TKY15F ②HKY20R	3
MMTIR163-1.15-1.5-C	●		1.5°	1.000	10.000	2.500	.660	.937	1.150	SETK51	SETS51	CR4	HFC03006	CTI32TP15	①TKY15F ②HKY20R	3
MMTIR203-1.45-1.5-C	●	1.5°	1.250	10.000	2.000	.810	1.187	1.450	SETK51	SETS51	CR4	HFC03006	CTI32TP15	①TKY15F ②HKY20R	4	
MMTIR124-0.95-1.5-C	●	MMT22IR	1.5°	.750	7.000	2.000	.610	.711	.950	-	TS43	-	-	-	①TKY15F	2
MMTIR124-0.95-2.5-C	●		2.5°	.750	7.000	2.000	.610	.711	.950	-	TS43	-	-	-	①TKY15F	2
MMTIR164-1.20-1.5-C	●		1.5°	1.000	8.000	1.500	.700	.937	1.200	SETK61	SETS61	CR5	HFC04008	CTI43TP15	①TKY20F ②HKY25R	4
MMTIR204-1.50-1.5-C	●		1.5°	1.250	10.000	2.000	.860	1.187	1.500	SETK61	SETS61	CR5	HFC04008	CTI43TP15	①TKY15F ②HKY25R	4
MMTIR244-1.75-1.5-C	●	1.5°	1.500	12.000	2.500	.980	1.437	1.750	SETK61	SETS61	CR5	HFC04008	CTI43TP15	①TKY20F ②HKY25R	4	

*1 Select and use an alternate shim from list below (sold separately), dependant on the lead angle.
 *2 Clamp Torque (lbf-in) : TS25=8.9, CS350860T=31, SETS51=31, TS43=31, SETS61=44, HFC03006=13, HFC04008=19
 Note 1) The screw-on type has no shim. The holder has an in-built lead angle. Please select a holder with the appropriate lead angle.
 Note 2) The minimum cutting diameter (DMIN) indicates the prepared hole diameter, not the nominal thread diameter.

SHIM

Lead Angle (α°)	Order Number	Stock R	Inclination Angle (θ°)	Applicable Holder
-1.5°	CTI32TN15	●	-3°	MMTIR ③-③-③ ③-C
-0.5°	CTI32TN05	●	-2°	
0.5°	CTI32TP05	●	-1°	
1.5°	CTI32TP15	●	0°	
2.5°	CTI32TP25	●	1°	
3.5°	CTI32TP35	●	2°	
4.5°	CTI32TP45	●	3°	



Standard shim delivered with the holder.
 * See page G025 and page G026 for shim selection guide lines.

IDENTIFICATION

Designation	Application	Shank Diameter (inch)	Insert Size	Min. Cutting Diameter (inch)	Lead Angle	Coolant
MMT I R 10 2 - 0.50 - 1.5 - C	I Internal	10 .625	2 MMT11	0.50 .500 1.15 1.150	1.5 1.5°	C With
	Hand of Tool R Right	12 .750	3 MMT16	0.60 .600 1.20 1.200	2.5 2.5°	
		16 1.000	4 MMT22	0.75 .750 1.45 1.450		
		20 1.250		0.90 .900 1.50 1.500		
		24 1.500		0.95 .950 1.75 1.750		

RECOMMENDED CUTTING CONDITIONS

Work Material	Hardness	Grade	Cutting Speed (SFM)
P Mild Steel	≤ 180HB	VP10MF	490 (230-755)
		VP15TF	330 (195-460)
		VP20RT	260 (195-330)
		VP10MF	460 (260-655)
Carbon Steel Alloy Steel	180-280HB	VP15TF	330 (195-460)
		VP20RT	260 (195-330)
		VP10MF	425 (260-590)
		VP15TF	260 (130-395)
M Stainless Steel	≤ 200HB	VP20RT	195 (130-260)

Work Material	Hardness	Grade	Cutting Speed (SFM)
K Cast Iron	Tensile Strength ≤ 350MPa	VP10MF	460 (260-655)
		VP15TF	295 (195-395)
S Heat-Resistant Alloy	-	VP10MF	150 (50-230)
		VP15TF	100 (65-130)
Titanium Alloy	-	VP10MF	195 (130-260)
		VP15TF	150 (80-210)
H Hardened Steel	45-55HRC	VP10MF	165 (100-230)
		VP15TF	130 (65-195)

THREADING