

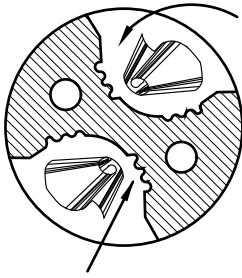
*INDEXABLE DRILL* **TAGM**

- For efficient drilling of steel and stainless steel.
- Good chip control and evacuation with spiral flutes.



## FEATURES OF **TAGM INDEXABLE DRILL**

### 1. Good chip control and evacuation



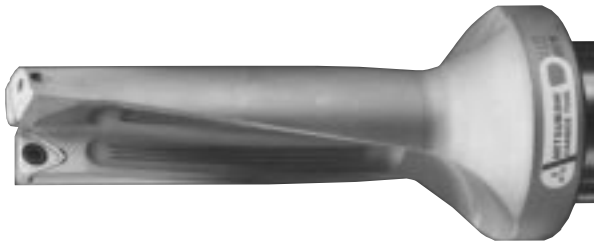
Unique wavy serrated groove design improves chip evacuation.

### 2. Excellent rigidity with large flange



Excellent rigidity with large flange for reliable drilling.

### 3. Gradual helical flutes



Spiral flutes are suitable for use with machining centers and turning centers.

### 4. US735 grade for stainless steel

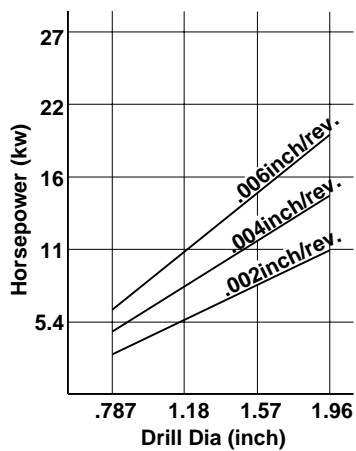


US735 grade is available with NCMT style inserts for efficient drilling of stainless steel.

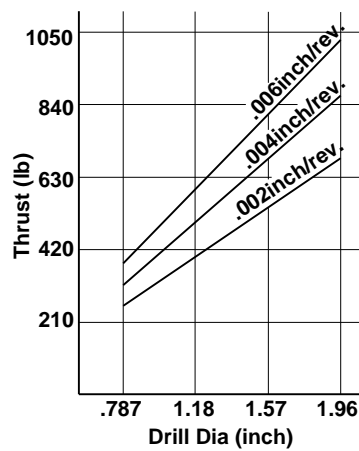
## CUTTING PERFORMANCE OF **TAGM INDEXABLE DRILL**

### Cutting force (U2 Breaker)

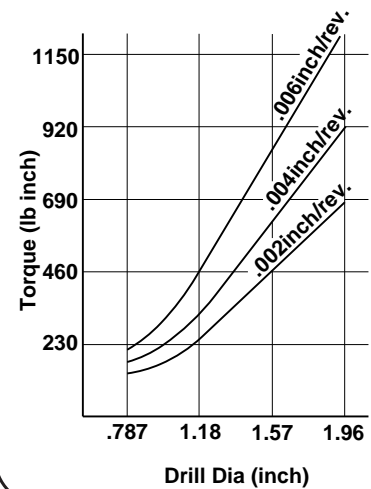
#### Horsepower (kw)



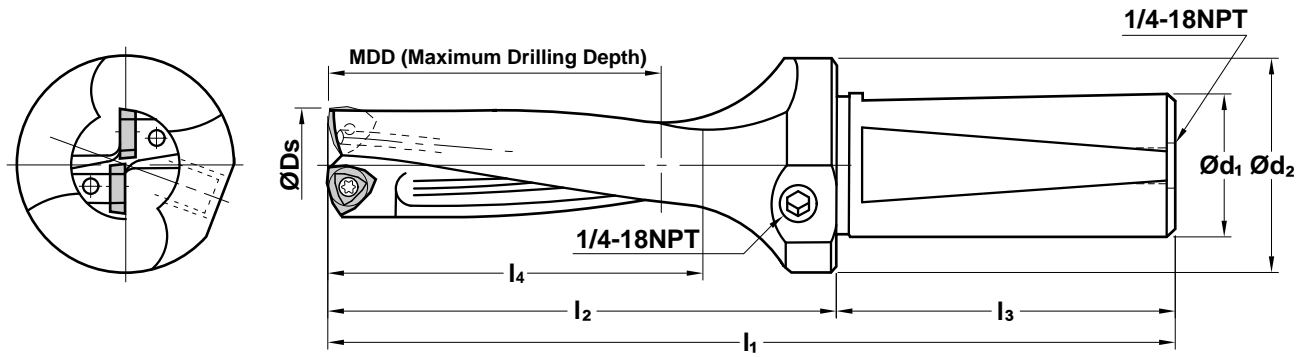
#### Thrust (lb)





#### Torque (lb inch)



# Standard of **TAGM INDEXABLE DRILL**

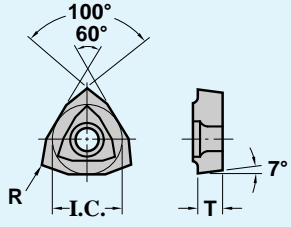
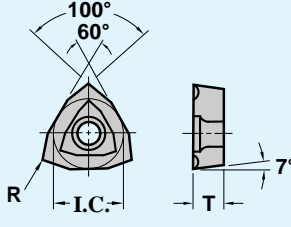


MDD is Three(3) times of drilling diameter (Ø)

Drill holder No.	Stocked	Dimensions (Inch)								No. of Inserts	Insert No.	Spare Parts	
		Ds	MDD	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	d <sub>1</sub>	d <sub>2</sub>			Clamp Screw	Wrench
													
TAGM0625	+	5/8	1.875	6.43	3.43	3.00	2.13	1	1.73	NCMT080204U1 NCMT080204U2	TS2	TKY06F	
TAGM0687	+	11/16	2.061	6.54	3.54		2.34						
TAGM0750	+	3/4	2.25	6.82	3.82		2.55			NCMT090204U1 NCMT090204U2	TS202		
TAGM0812	+	13/16	2.44	7.01	4.01		2.76						
TAGM0875	+	7/8	2.63	7.20	4.20		2.98			NCMT110208U1 NCMT110208U2	TS25		TKY08F
TAGM0937	+	15/16	2.81	7.38	4.38		3.19						
TAGM1000	+	1	3.00	7.57	4.57		3.40	1-1/4	1.89	NCMT130308U1 NCMT130308U2	TS32	TKY08F	
TAGM1062	+	1-1/16	3.19	7.76	4.76		3.61						
TAGM1125	+	1-1/8	3.38	7.95	4.95		3.83	2	2.28	NCMT16T308U1 NCMT16T308U2	TS43	TKY15F	
TAGM1187	+	1-3/16	3.56	8.33	5.33		4.04						
TAGM1250	+	1-1/4	3.75	8.52	5.52		4.25						
TAGM1312	+	1-5/16	3.94	8.71	5.71		4.46						
TAGM1375	+	1-3/8	4.13	8.90	5.90		4.68						
TAGM1437	+	1-7/16	4.31	9.08	6.08		4.89						
TAGM1500	+	1-1/2	4.50	9.27	6.27		5.10						
TAGM1562	+	1-9/16	4.69	9.46	6.46		5.31						
TAGM1625	+	1-5/8	4.88	9.65	6.65		5.53						
TAGM1687	+	1-11/16	5.06	9.83	6.83		5.74						
TAGM1750	+	1-3/4	5.25	10.02	7.02		5.95	1-1/2	2.48	NCMT220412U1 NCMT220412U2	TS5	TKY25F	
TAGM1812	+	1-13/16	5.44	10.61	7.61		6.16						
TAGM1875	+	1-7/8	5.63	10.80	7.80	6.38	4	2.87	NCMT130308U1 NCMT130308U2	TS32	TKY08F		
TAGM1937	+	1-15/16	5.81	10.98	7.98	6.59							
TAGM2000	+	2	6.00	11.17	8.17	6.80							
TAGM2062	+	2-1/16	6.19	11.36	8.36	7.01							
TAGM2125	+	2-1/8	6.38	11.55	8.55	7.22							
TAGM2187	+	2-3/16	6.56	11.73	8.73	7.44							
TAGM2250	+	2-1/4	6.75	11.92	8.92	7.65							
TAGM2312	+	2-5/16	6.94	12.11	9.11	7.87							
TAGM2375	+	2-3/8	7.13	12.49	9.49	8.08	2	2.87	NCMT16T308U1 NCMT16T308U2	TS43	TKY15F		
TAGM2437	+	2-7/16	7.31	12.67	9.67	8.29							
TAGM2500	+	2-1/2	7.50	12.86	9.86	8.50							

⊕ : Stock, □ : Non Stock

# INSERT

Shape	Class	Drill Dia.	Insert No.	Coated		Uncoated	Dimensions (inch)		
				US735	UP20M	HTi20T	I.C.	T	R
<b>U1 Type</b> 	M	5/8-11/16	NCMT080204U1	+	+	+	3/16	3/32	1/64
		3/4	NCMT090204U1	+	+	+	7/32		
		13/16~15/16	NCMT110208U1	+	+	+	1/4	3/32	1/32
		1~1-1/8 2~2-1/8	NCMT130308U1	+	+	+	5/16		
		1-3/16~1-9/16 2-1/16~2-1/2	NCMT16T308U1	+	+	+	3/8		
		1-5/8~1-15/16	NCMT220412U1	+	+	+	1/2		
<b>U2 Type</b> 	M	5/8-11/16	NCMT080204U2	+	+	+	3/16	3/32	1/64
		3/4	NCMT090204U2	+	+	+	7/32		
		13/16~15/16	NCMT110208U2	+	+	+	1/4	3/32	1/32
		1~1-1/8 2~2-1/8	NCMT130308U2	+	+	+	5/16		
		1-3/16~1-9/16 2-1/16~2-1/2	NCMT16T308U2	+	+	+	3/8		
		1-5/8~1-15/16	NCMT220412U2	+	+	+	1/2		

\* U1 chipbreaker for low carbon.

\* U2 chipbreaker for conventional and stainless steels.

⊕ : Stock, □ : Non Stock

## RECOMMENDED CUTTING CONDITIONS

Workpiece (Hardness)	Cutting Speed (feet/min.)	Chip-breaker	Drill Diameter (inch)			
			5/8-3/4	13/16-1-1/8	1-3/16-1-15/16	2-2-1/2
			Feed (inch/rev.)			
Mild Steel (H <sub>b</sub> 160 Under)	490-980	U1	.003	.004	.005	.005
Carbon Steel (H <sub>r</sub> C25 Under)	390-590	U1	.004	.005	.006	.006
		U2	.005	.007	.007	.007
Alloy Steel (H <sub>r</sub> C25 Under)	390-590	U1	.003	.004	.005	.005
		U2	.004	.006	.006	.006
Carbon Steel, Alloy Steel (H <sub>r</sub> C25-30)	260-400	U1	.002	.003	.004	.004
		U2	.003	.005	.005	.005
Stainless Steel	390-660	U2	.003	.004	.005	.005
Cast iron	390-590	U1	.003	.004	.004	.004
		U2	.006	.008	.008	.008
Nickel alloy	60-100	U1	.003	.004	.004	.004

### MITSUBISHI MATERIALS U.S.A. CORPORATION

17401 Eastman Street, Irvine, California 92614, U.S.A.

TEL. 1-800-523-0800 FAX. 714-862-5180

1-800-621-4486 (Outside California)

Chicago Branch Office: 5999 New Wilke Road, Suite 200, Rolling Meadows, Illinois 60008, U.S.A.

TEL. 847-806-1550 FAX. 847-806-1563

Detroit Branch Office: 39303 Country Club Drive, Suite A1, Farmington Hills, Michigan 48331

TEL. 248-489-1000 FAX. 248-489-3008

Toronto Branch Office: 7301 Danbro Crescent, Mississauga, Ontario Canada L5N 6P8

TEL. 905-814-0240 FAX. 905-814-0245