

NPA 56

METRIC

VARDEX

vargus
NEUMO Ehrenberg Group

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GEAR MILLING

For Gear, Spline & Rack Manufacturing

EXPANDED LINE

Standard Spline Inserts for DIN 5480

NEW

Standard Toolholders
for the COMPLETE Gear Milling Line



Spline Inserts – DIN 5480

- Standard Spline Inserts for DIN 5480 (See table on pages 2-3)
- Modules 1-6
- IC Range: 1/4"U, 3/8"U, 5/8"U, 1/2"UT, 5/8"UT

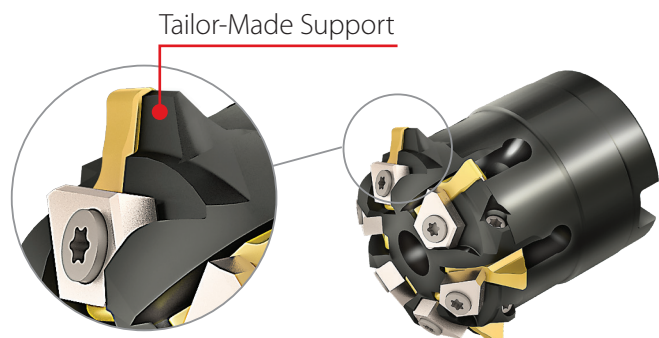
Standard Toolholders

- Standard Gear Milling Holders (End Mill, Shell Mill, Disc Mill) are now suitable for all standard inserts (DIN 3972, DIN 5480) and tailor-made inserts*
- The standard toolholder enables the use of the same toolholder for the same IC type inserts
- No need for special toolholders for each individual profile!

* Tailor made holders are still available upon request.

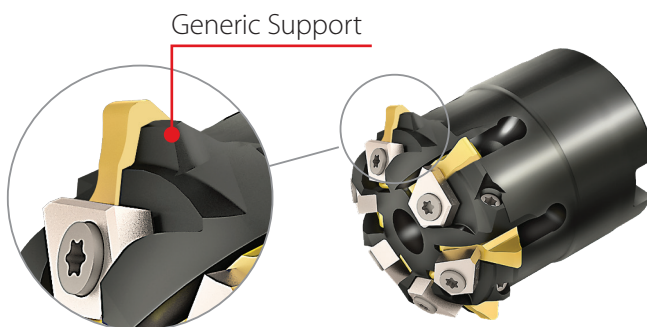
Tailor-Made Toolholders According to the Specific Insert Profile

BEFORE



Standard Toolholders For All Inserts with the Same IC Type

NEW

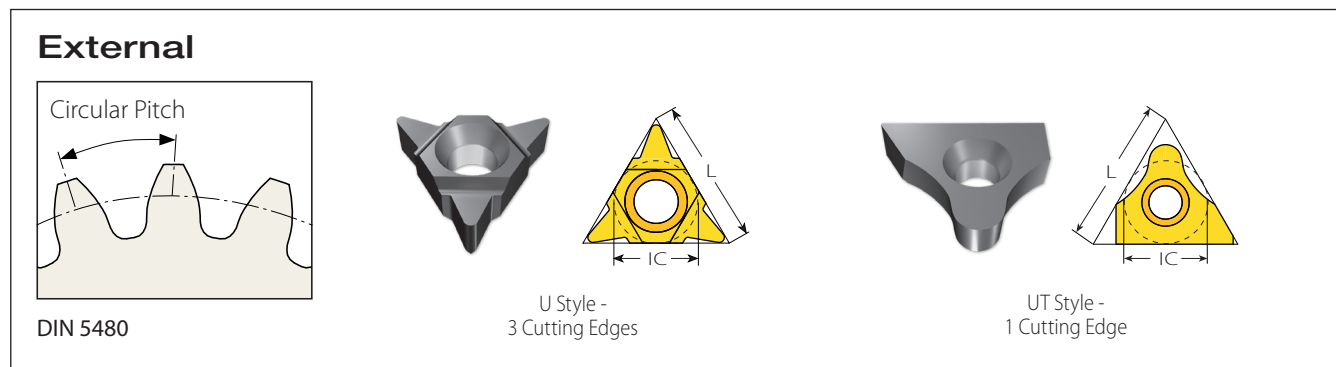


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Ami Yacar
Vardex Product Manager

GEAR MILLING

Gear Milling DIN 5480 Inserts

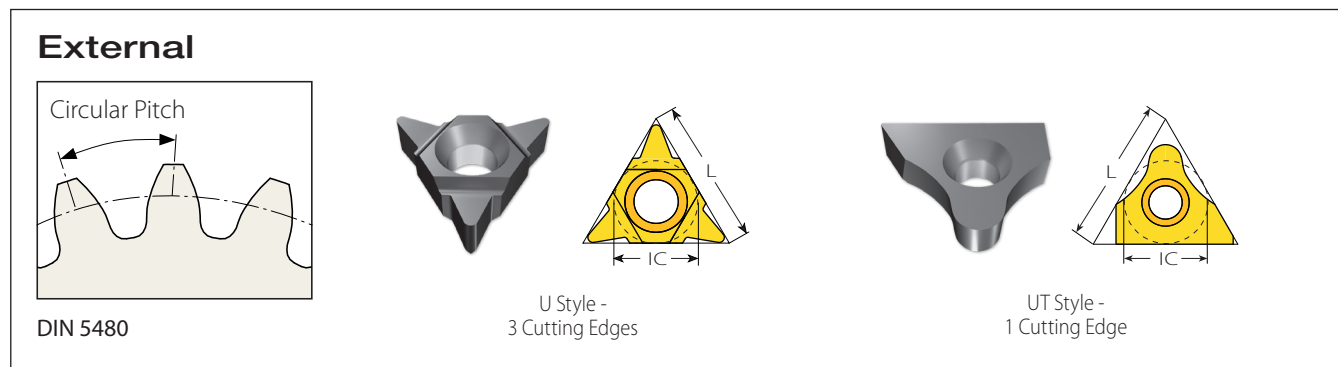


Standard Inserts for Spline Applications

IC	L mm	Module	Ordering Code	W - Reference Diameter mm	Z - Range of Teeth on Spline	Generic Toolholder
1/4"U	11	1	2UEW25M1.0Z24-5480GMVTX	25	24	GMGE5N25W32-50-2U GMGD12ND85-22-2U
			2UEW28M1.0Z26-5480GMVTX	28	26	
			2UEW37M1.0Z36-5480GMVTX	37	36	
3/8"U	16	1.25	3UEW20M1.25Z14-5480GMVTX	20	14	GMGE5N32W36-80-3U GMGS6ND42-16-3U GMGS7ND48-22-3U GMGD12ND90-22-3U
			3UEW25M1.25Z18-5480GMVTX	25	18	
			3UEW30M1.25Z22-5480GMVTX	30	22	
			3UEW35M1.25Z26-5480GMVTX	35	26	
			3UEW45M1.25Z34-5480GMVTX	45	34	
		2	3UEW25M2.0Z11-5480GMVTX	25	11	
			3UEW35M2.0Z16-5480GMVTX	35	16	
			3UEW37M2.0Z17-5480GMVTX	37	17	
			3UEW40M2.0Z18-5480GMVTX	40	18	
			3UEW42M2.0Z20-5480GMVTX	42	20	
			3UEW45M2.0Z21-5480GMVTX	45	21	
			3UEW48M2.0Z22-5480GMVTX	48	22	
			3UEW50M2.0Z24-5480GMVTX	50	24	
			3UEW55M2.0Z26-5480GMVTX	55	26	
			3UEW60M2.0Z28-5480GMVTX	60	28	
			3UEW65M2.0Z31-5480GMVTX	65	31	
			3UEW68M2.0Z32-5480GMVTX	68	32	
			3UEW70M2.0Z34-5480GMVTX	70	34	
			3UEW75M2.0Z36-5480GMVTX	75	36	
5/8"U	27	3	5UEW55M3.0Z17-5480GMVTX	55	17	GMGS3SD60-22-5U GMGS6ND80-27-5U
			5UEW60M3.0Z18-5480GMVTX	60	18	
			5UEW65M3.0Z20-5480GMVTX	65	20	
			5UEW75M3.0Z24-5480GMVTX	75	24	
			5UEW80M3.0Z25-5480GMVTX	80	25	
			5UEW85M3.0Z27-5480GMVTX	85	27	
			5UEW90M3.0Z28-5480GMVTX	90	28	
			5UEW100M3.0Z32-5480GMVTX	100	32	
			5UEW120M3.0Z38-5480GMVTX	120	38	
			5UEW130M3.0Z42-5480GMVTX	130	42	
			5UEW150M3.0Z48-5480GMVTX	150	48	

GEAR MILLING

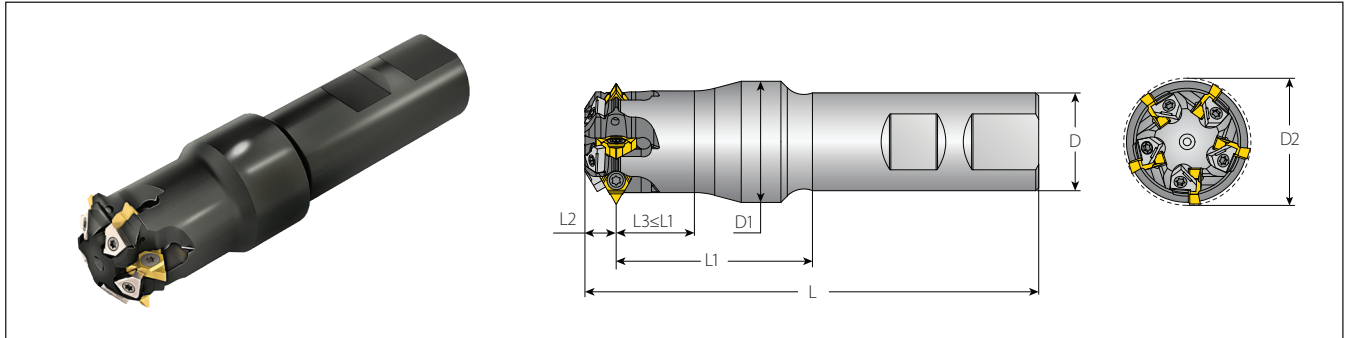
Gear Milling DIN 5480 Inserts



Standard Inserts for Spline Applications

IC	L mm	Module	Ordering Code	W - Reference Diameter mm	Z - Range of Teeth on Spline	Generic Toolholder
1/2"UT	22	4	4UTEW50M4.0Z11-5480GMVTX	50	11	GMGS6SD85-27-4UT
		4	4UTEW65M4.0Z15-5480GMVTX	65	15	
		4	4UTEW88M4.0Z20-5480GMVTX	88	20	
		4	4UTEW120M4.0Z28-5480GMVTX	120	28	
		5	4UTEW120M5.0Z22-5480GMVTX	120	22	
		5	4UTEW130M5.0Z24-5480GMVTX	130	24	
		5	4UTEW140M5.0Z26-5480GMVTX	140	26	
		5	4UTEW150M5.0Z28-5480GMVTX	150	28	
		5	4UTEW160M5.0Z30-5480GMVTX	160	30	
		5	4UTEW180M5.0Z34-5480GMVTX	180	34	
		5	4UTEW190M5.0Z36-5480GMVTX	190	36	
		5	4UTEW200M5.0Z38-5480GMVTX	200	38	
		5	4UTEW220M5.0Z42-5480GMVTX	220	42	
		5	4UTEW250M5.0Z48-5480GMVTX	250	48	
		5	4UTEW260M5.0Z50-5480GMVTX	260	50	
		5	4UTEW280M5.0Z54-5480GMVTX	280	54	
5/8"UT	27	6	5UTEW130M6.0Z20-5480GMVTX	130	20	GMGS5SD80-27-5UT
		6	5UTEW200M6.0Z32-5480GMVTX	200	32	
		6	5UTEW220M6.0Z35-5480GMVTX	220	35	
		6	5UTEW340M6.0Z55-5480GMVTX	340	55	

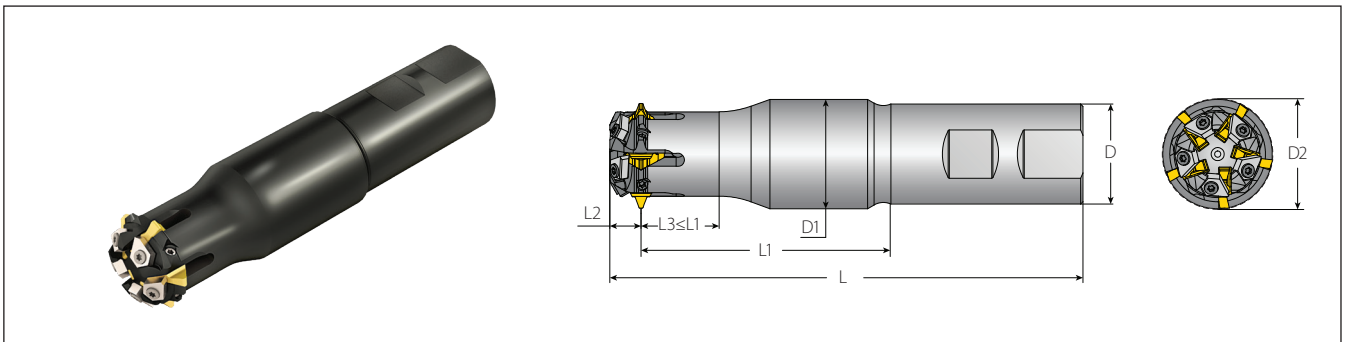
Standard Toolholder - Weldon Shank for IC 1/4"U



For Gear, Rack and Spline Inserts

Insert Size	Insert Cutting Edges	Ordering Code	Dimensions (mm)							No. of Flutes					
IC			L	L1	L3	D	D1	*D2 (ref)	L2	Z	Insert Screw	Insert Torx+ Key	Stopper	Stopper Screw	Stopper Key
1/4"U	3	GMGE5N25W32-50-2U	116	50	20	25	31	32	8.0	5	SN2T	HK2T	5LST	SN5LTR	K7T

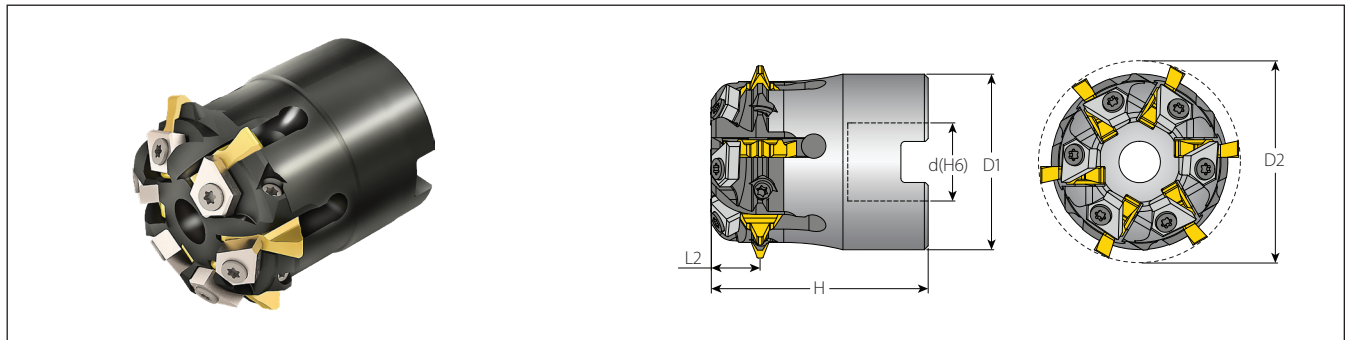
Standard Toolholder - Weldon Shank for IC 3/8"U



For Gear, Rack and Spline Inserts

Insert Size	Insert Cutting Edges	Ordering Code	Dimensions (mm)							No. of Flutes					
IC			L	L1	L3	D	D1	*D2 (ref)	L2	Z	Insert Screw	Insert Torx+ Key	Stopper	Stopper Screw	Stopper Key
3/8"U	3	GMGE5N32W36-80-3U	151	80	25	32	35	36	10.0	5	SR3FIP8	KIP8	2TM1ST	M3x7.5	KIP8

Standard Toolholder - Shell Mill for IC 3/8"U

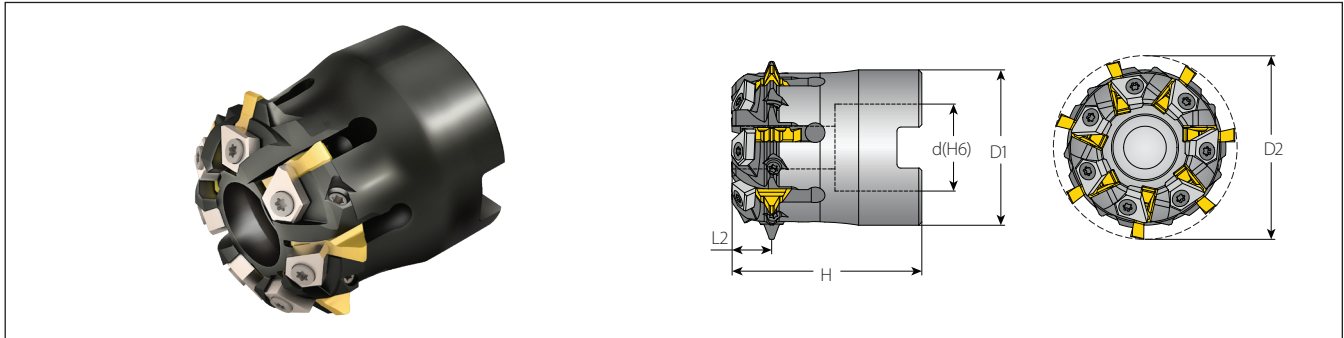


For Gear, Rack and Spline Inserts

Insert Size	Insert Cutting Edges	Ordering Code	Dimensions (mm)						No. of Flutes						
IC			D1	*D2 (ref)	d (H6)	H	L2	Z	Insert Screw	Insert Torx+ Key	Stopper	Stopper Screw	Stopper Key	Holder Screw	
3/8"U	3	GMGS6ND42-16-3U	36	42	16	44.5	10.0	6	SR3FIP8	KIP8	2TM1ST	M3x7.5	KIP8	M8x1.25x40	

* D2 refers to the mounted insert. Check D2 before machining.

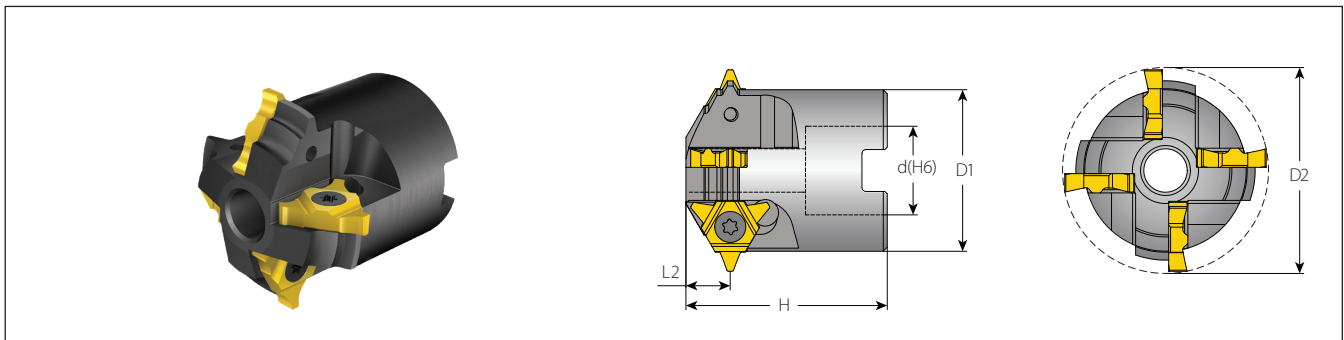
Standard Toolholder - Shell Mill for IC 3/8"U



For Gear, Rack and Spline Inserts

Insert Size	Insert Cutting Edges	Ordering Code	Dimensions (mm)						No. of Flutes						
IC			D1	*D2 (ref)	d (H6)	H	L2	Z	Insert Screw	Insert Torx+ Key	Stopper	Stopper Screw	Stopper Key	Holder Screw	
3/8"U	3	GMGS7ND48-22-3U	39.3	48	22	48	10.0	7	SR3FIP8	KIP8	2TM1ST	M3x7.5	KIP8	M10x1.5x40	

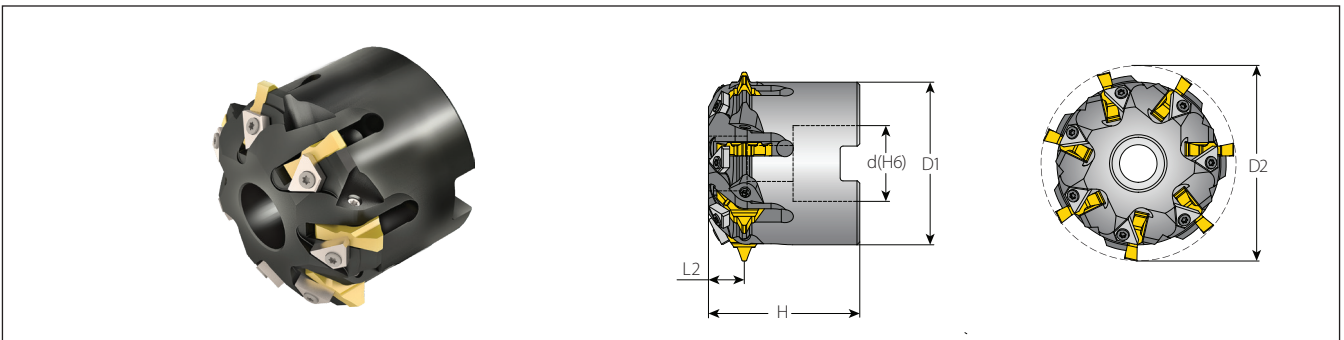
Standard Toolholder - Shell Mill for IC 1/2"U



For Gear, Rack and Spline Inserts

Insert Size	Insert Cutting Edges	Ordering Code	Dimensions (mm)						No. of Flutes	Spare Parts		
IC			D1	*D2 (ref)	d (H6)	H	L2	Z		Insert Screw	Insert Torx+ Key	Holder Screw
1/2"U	3	GMGS4S D52-22-4U	40	52	22	50	11	4		SN4T	HK4T	M10x1.5x50

Standard Toolholder - Shell Mill for IC 1/2"U

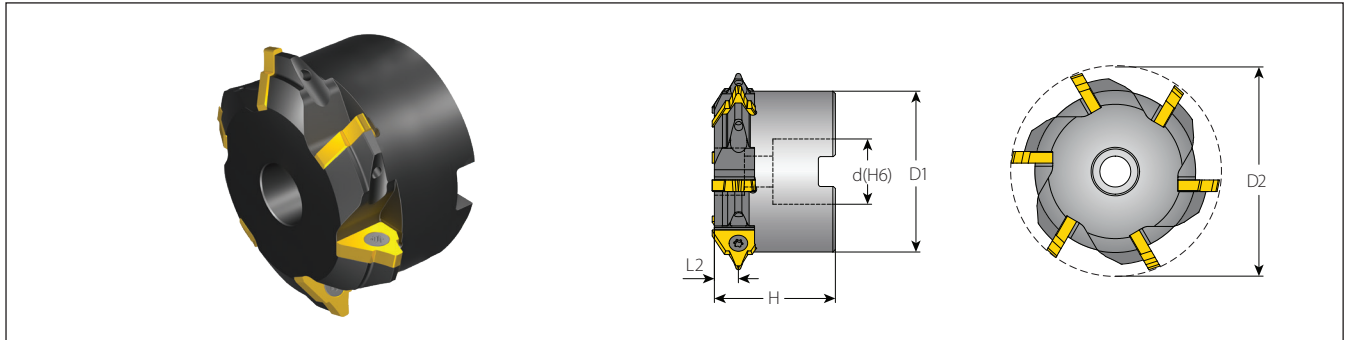


For Gear, Rack and Spline Inserts

Insert Size	Insert Cutting Edges	Ordering Code	Dimensions (mm)						No. of Flutes						
IC			D1	*D2 (ref)	d (H6)	H	L2	Z	Insert Screw	Insert Torx+ Key	Stopper	Stopper Screw	Stopper Key	Holder Screw	
1/2"U	3	GMGS7N D70-27-4U	58	70	27	54	12.8	7	SR3FIP8	KIP8	2TM2ST	M3x7.5	KIP8	M12x1.75x40	

* D2 refers to the mounted insert. Check D2 before machining.

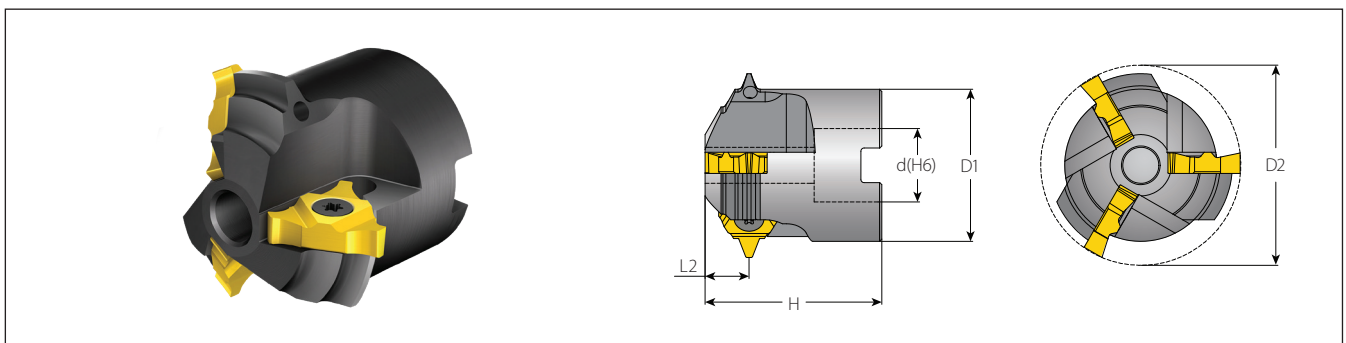
Standard Toolholder - Shell Mill for IC 1/2"UT



For Gear, Rack and Spline Inserts

Insert Size	Insert Cutting Edges	Ordering Code	Dimensions (mm)						No. of Flutes	Spare Parts		
IC			D1	*D2 (ref)	d (H6)	H	L2	Z		Insert Screw	Insert Torx+ Key	Holder Screw
1/2"UT	1	GMGS6SD85-27-4UT	66.5	85	27	50	9.9	6		SN4T	Ballpoint T20	M12x1.75x40

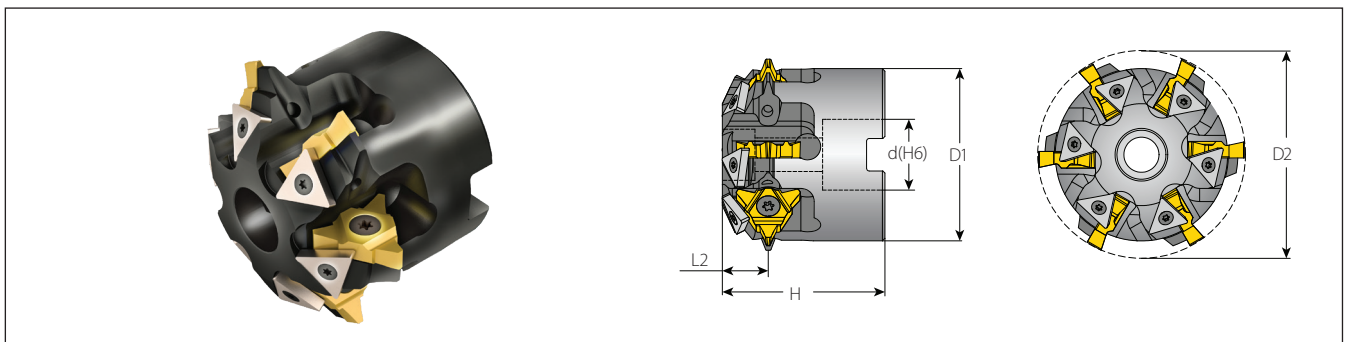
Standard Toolholder - Shell Mill for IC 5/8"U



For Gear, Rack and Spline Inserts

Insert Size	Insert Cutting Edges	Ordering Code	Dimensions (mm)						No. of Flutes	Spare Parts		
IC			D1	*D2 (ref)	d (H6)	H	L2	Z		Insert Screw	Insert Torx+ Key	Holder Screw
5/8"U	3	GMGS3SD60-22-5U	45.6	60	22	53	13.2	3		SN5TM	HK5T	M10x1.5x55

Standard Toolholder - Shell Mill for IC 5/8"U

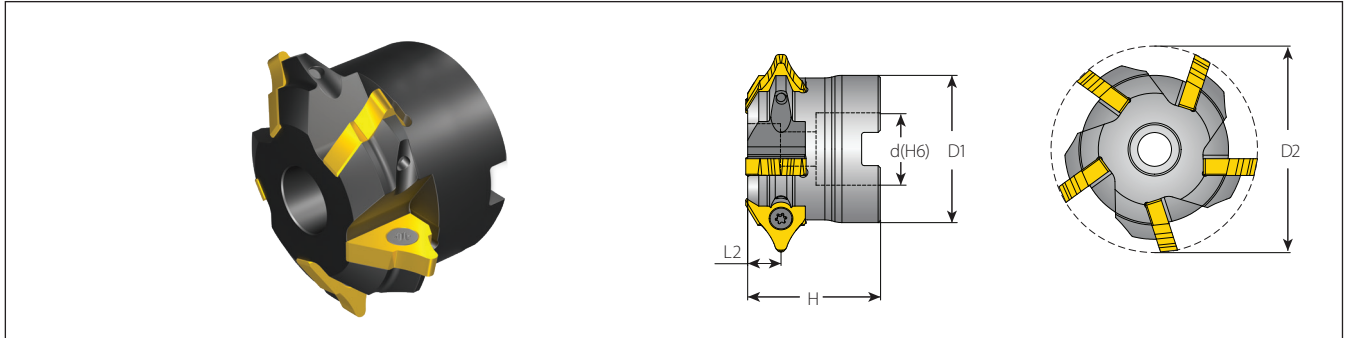


For Gear, Rack and Spline Inserts

Insert Size	Insert Cutting Edges	Ordering Code	Dimensions (mm)						No. of Flutes						
IC			D1	*D2 (ref)	d (H6)	H	L2	Z	Insert Screw	Insert Torx+ Key	Stopper	Stopper Screw	Stopper Key	Holder Screw	
5/8"U	3	GMGS6ND80-27-5U	65.7	80	27	62	17.5	6	SN5TM	HK5T	3ST	SN3TM	K3T	M12x1.75x50	

* D2 refers to the mounted insert. Check D2 before machining.

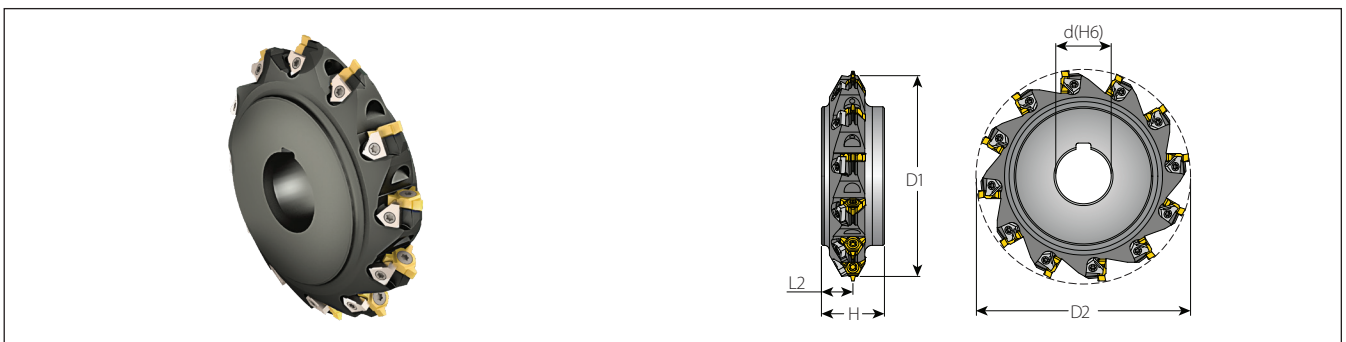
Standard Toolholder - Shell Mill for IC 5/8"UT



For Gear, Rack and Spline Inserts

Insert Size	Insert Cutting Edges	Ordering Code	Dimensions (mm)					No. of Flutes	Spare Parts		
IC			D1	*D2 (ref)	d (H6)	H	L2	Z	Insert Screw	Insert Torx+ Key	Holder Screw
5/8"UT	1	GMGS5SD80-27-5UT	55	80	27	50	12.6	5	SN5TM	HK5T	M12x1.75x40

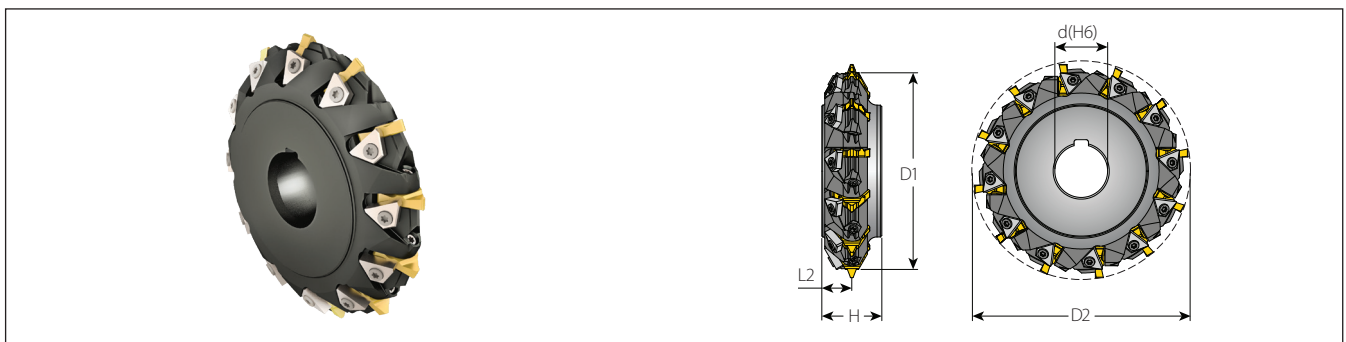
Standard Toolholder - Disc Mill for IC 1/4"U



For Gear, Rack and Spline Inserts

Insert Size	Insert Cutting Edges	Ordering Code	Dimensions (mm)					No. of Flutes	Spare Parts				
IC			D1	*D2 (ref)	d (H6)	H	L2	Z	Insert Screw	Insert Torx+ Key	Stopper	Stopper Screw	Stopper Key
1/4"U	3	GMGD12ND85-22-2U	79.6	85	22	25	12.5	12	SN2T	HK2T	5LST	SN5LTR	K7T

Standard Toolholder - Disc Mill for IC 3/8"U



For Gear, Rack and Spline Inserts

Insert Size	Insert Cutting Edges	Ordering Code	Dimensions (mm)					No. of Flutes	Spare Parts				
IC			D1	*D2 (ref)	d (H6)	H	L2	Z	Insert Screw	Insert Torx+ Key	Stopper	Stopper Screw	Stopper Key
3/8"U	3	GMGD12ND90-22-3U	82	90	22	25	12.5	12	SR3FIP8	KIP8	2TM2ST	M3x7.5	KIP8

* D2 refers to the mounted insert. Check D2 before machining.