



**WINSFEED**

Member IMC Group  
**Ingersoll**  
Cutting Tools

**GOLDT**WIST  
**WIN**TWIST

HEAD CHANGEABLE MODULAR DRILLS  
WITH CHIPSURFER CONNECTION

## HEAD CHANGEABLE MODULAR DRILLS WITH CHIPSURFER CONNECTION

- Simplified clamping system due to ChipSurfer connection •*
- Modular design with interchangeable heads •*
- Reduced tool change and set-up time •*
- Easy use on Multi-spindle and Swiss type machines •*
- Available in internal coolant type •*



**Product Overview**

WinTwist drill line now includes the head changeable GoldTwist type holders.

To improve the productivity of the modular head type WinTwist line, they have been redesigned with the ChipSurfer connection, which includes a simplified clamping system and reduced set-up time.



**Technical Features & Advantages**

- GoldTwist type modular drill holders
- Modular design with interchangeable heads for reduced tool change and set-up time
- Shorter tool lengths allow for ease of use on multi-spindle and Swiss type machines
- Compatibility with the existing GoldTwist heads: TPA/TPC/TPM/TPK/TPN/TPF
- Available in internal coolant type



- Flat contact face for precise axial runout
- Taper contact face for self-centering and precise radial runout
- Quick and rigid unique threading

**Compatible with Various ChipSurfer Type Shanks**



cylindrical shank  
steel, carbide,  
heavy metall

conical shank  
steel, solid carbide,  
heavy metall

carbide extension  
TS

ChipSurfer adapter  
connection HSKA63,  
DIN69871-A40,  
PSK

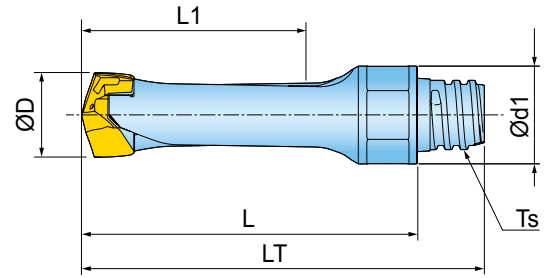
adapter for  
metric thread

ER..SA\_collets  
cylindrical/conical



# WINTWIST EXCHANGEABLE HEAD DRILL 2D ...T Ø6,0-Ø10,4

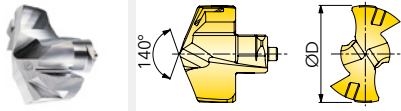
FOR EXCHANGEABLE HEADS



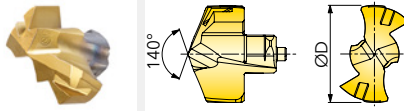
Designation	D min.	D max.	d1	LT	L	L1	Ts	Z	wrench	IK	kg
TD0600012T6R00	6,0	6,4	9,6	34,3	28,0	13,0	T6	2	KTD6,0-9,9	✓	0,08
TD0800019T6R00	8,0	8,4	9,6	39,2	32,9	17,2	T6	2	KTD6,0-9,9	✓	0,09
TD1000020T8R00	10,0	10,4	11,6	47,3	39,8	21,5	T8	2	KTD10,0-19,9	✓	0,13

## DRILL HEADS FOR WINTWIST DRILLS

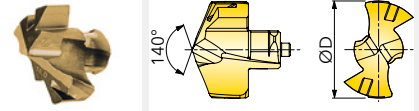
### aluminum machining



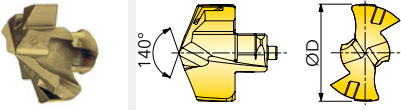
### cast iron machining



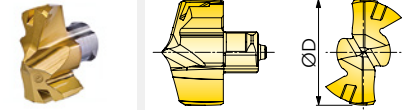
### stainless steel machining



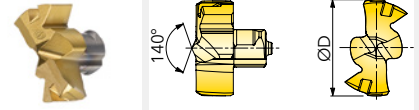
### steel machining



### steel-C machining



### flat ground machining (1,5xD/3xD/5xD)



D	Designation							grade
	aluminum	cast iron	stainless steel	steel	steel-C	flat ground		
6,0	TNA0600R01						IN 05S	
6,0		TKA0600R01	TMA0600R01	TPA0600R01	TPC0600R01		IN 2505	
6,1		TKA0610R01	TMA0610R01	TPA0610R01			IN 2505	
6,2		TKA0620R01	TMA0620R01	TPA0620R01			IN 2505	
6,3		TKA0630R01	TMA0630R01	TPA0630R01			IN 2505	
6,4		TKA0640R01	TMA0640R01	TPA0640R01			IN 2505	
8,0	TNA0800R01						IN 05S	
8,0		TKA0800R01	TMA0800R01	TPA0800R01	TPC0800R01	TPF0800R01	IN 2505	
8,1		TKA0810R01	TMA0810R01	TPA0810R01			IN 2505	
8,2		TKA0820R01	TMA0820R01	TPA0820R01			IN 2505	
8,3		TKA0830R01	TMA0830R01	TPA0830R01			IN 2505	
8,4		TKA0840R01	TMA0840R01	TPA0840R01			IN 2505	
10,0	TNA1000R01						IN 05S	
10,0		TKA1000R01	TMA1000R01	TPA1000R01	TPC1000R01	TPF1000R01	IN 2505	
10,1		TKA1010R01	TMA1010R01	TPA1010R01			IN 2505	
10,2	TNA1020R01						IN 05S	
10,2		TKA1020R01	TMA1020R01	TPA1020R01	TPC1020R01		IN 2505	
10,3		TKA1030R01	TMA1030R01	TPA1030R01			IN 2505	
10,4		TKA1040R01	TMA1040R01	TPA1040R01			IN 2505	

## Recommended Cutting Data

ISO	Material		Condition	Tensile Strength (N/mm <sup>2</sup> )	Hardness HB	Material No.	Cutting speed V <sub>c</sub> (m/min)	Feed (mm/rev) vs. drill diameter			
								Ø6 - Ø7,9	Ø8 - Ø9,9	Ø10 - Ø11,9	
P	Non-alloy steel and cast steel, free cutting steel	<0,25%C	Annealed	420	125	1	80-140	0,09-0,13	0,12-0,22	0,15-0,28	
		≥0,25%C	Annealed	650	190	2	80-130	0,09-0,13	0,12-0,22	0,15-0,28	
		<0,55%C	Quenched and tempered	850	250	3	80-120	0,09-0,13	0,12-0,22	0,15-0,28	
		≥0,55%C	Annealed	750	220	4	70-110	0,09-0,13	0,12-0,22	0,15-0,28	
			Quenched and tempered	1000	300	5	50-90	0,09-0,13	0,12-0,22	0,15-0,28	
	Low alloy steel and cast steel (less than 5% of alloying elements)	Annealed		600	200	6	70-120	0,09-0,15	0,12-0,25	0,14-0,28	
				930	275	7	70-110	0,09-0,15	0,12-0,25	0,14-0,28	
		Quenched and tempered		1000	300	8	50-90	0,09-0,15	0,12-0,25	0,14-0,28	
				1200	350	9	40-70	0,09-0,15	0,12-0,25	0,14-0,28	
	High alloy steel, cast steel and tool steel	Annealed		680	200	10	50-90	0,09-0,12	0,12-0,20	0,12-0,22	
		Quenched and tempered		1100	325	11	40-80	0,09-0,12	0,12-0,20	0,12-0,22	
M	Stainless steel and cast steel	Ferritic / martensitic		680	200	12	40-70	0,08-0,10	0,10-0,15	0,12-0,18	
		Martensitic		820	240	13	40-70	0,08-0,10	0,10-0,15	0,12-0,18	
		Austenitic		600	180	14	30-70	0,08-0,10	0,10-0,15	0,12-0,18	
K	Grey cast iron (GG)	Ferritic / pearlitic		-	160	15	90-160	0,12-0,18	0,15-0,30	0,20-0,35	
		Pearlitic		-	250	16	80-140	0,12-0,18	0,15-0,30	0,20-0,35	
	Cast iron nodular (GGG)	Ferritic		-	180	17	90-180	0,12-0,18	0,15-0,30	0,20-0,35	
		Pearlitic		-	260	18	80-140	0,12-0,18	0,15-0,30	0,20-0,35	
	Malleable cast iron	Ferritic		-	130	19	90-160	0,12-0,18	0,15-0,30	0,20-0,35	
		Pearlitic		-	230	20	80-140	0,12-0,18	0,15-0,30	0,20-0,35	
N	Aluminum-wrought alloy	Not cureable		-	60	21	90-220	0,15-0,30	0,20-0,35	0,25-0,40	
		Cured		-	100	22	90-220	0,15-0,30	0,20-0,35	0,25-0,40	
	Aluminum-cast, alloyed	≤12% Si	Not cureable		-	75	23	90-220	0,15-0,30	0,20-0,35	0,25-0,40
			Cured		-	90	24	90-220	0,15-0,30	0,20-0,35	0,25-0,40
		>12% Si	High temperature		-	130	25	80-160	0,15-0,30	0,20-0,35	0,25-0,40
	Copper alloys	>1% Pb	Free cutting		-	110	26	90-220	0,15-0,30	0,20-0,35	0,25-0,40
			Brass		-	90	27	90-220	0,15-0,30	0,20-0,35	0,25-0,40
			Electrolytic copper		-	100	28	90-220	0,15-0,30	0,20-0,35	0,25-0,40
	Non-metallic		Duroplastics, fiber plastics		-	-	29	-	-	-	-
			Hard rubber		-	-	30	-	-	-	-
S	High temp. alloys	Fe based	Annealed		-	200	31	30-60	0,05-0,07	0,06-0,11	0,08-0,13
			Cured		-	280	32	20-50	0,05-0,07	0,06-0,11	0,08-0,13
		Ni or Co based	Annealed		-	250	33	20-50	0,05-0,07	0,06-0,11	0,08-0,13
			Cured		-	350	34	20-50	0,05-0,07	0,06-0,11	0,08-0,13
			Cast		-	320	35	20-50	0,05-0,07	0,06-0,11	0,08-0,13
	Titanium and Ti alloys		Rm 400		-	36	20-50	0,05-0,07	0,06-0,12	0,08-0,15	
		Alpha+beta alloys cured	Rm 1050		-	37	20-50	0,05-0,07	0,06-0,12	0,08-0,15	
H	Hardened steel	Hardened		-	55HRC	38	20-50	0,05-0,07	0,06-0,12	0,08-0,15	
		Hardened		-	60HRC	39	20-50	0,05-0,07	0,06-0,12	0,08-0,15	
	Chilled cast iron	Cast		-	400	40	-	-	-	-	
	Cast iron nodular (GGG)	Hardened		-	55HRC	41	-	-	-	-	

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