

**High Efficiency Modular Drill** 

# MagicDrill DRA Chamfering Attachment





# New Straight Shank DRA Chamfering Attachment

Excellent chip control in a wide range of drilling depths

4mm chamfer with an 8mm maximum chamfer depth

Compatible with ø10mm to ø20mm shank diameters in 3D, 5D, and 8D lengths
(Cutting Diameters from ø8mm to ø19.9mm)

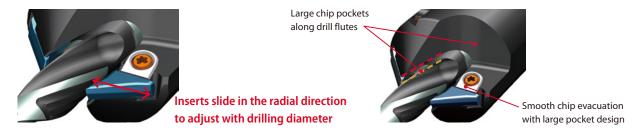


# MagicDrill DRA Chamfering Attachment

New straight shank DRA chamfering attachment Excellent chip control in a wide range of drilling depths

1 Excellent stability and chip evacuation

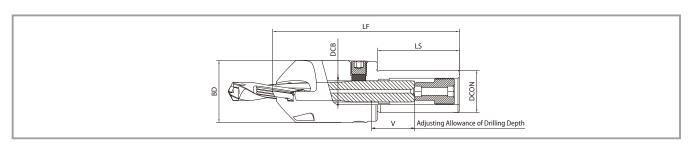
Easy-to-adjust chamfering insert slides in radial direction with a clamp structure that provides good chip evacuation



# Fully adjustable for a wide range of drilling depths

Range of adjustable depths for a ø14mm drilling diameter





#### Toolholder

Description	Stock	Applicable Drill Shank Dia. DCB (ø)		Dir	Amalicable Incort			
			DCON	BD	LF	LS	V (Max)	Applicable Insert
S20-CH10-DRA	•	10	20	39	110	52	18	
S32-CH12-DRA	•	12	32	43	130	62	24	
S32-CH14-DRA	•	14	32	45	130	62	24	CT12T2 4EDA
S32-CH16-DRA	•	16	32	47	141	62	24	CT12T3-45DA
S32-CH18-DRA	•	18	32	49	145	62	24	
S32-CH20-DRA	•	20	32	53	150	62	24.5	

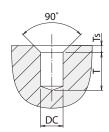
#### Applicable Insert

Chana	Description	MEGACOAT NANO	Dimensions (mm)		
Shape	Description	PR1535	W1	S	
	CT12T3-45DA	•	13.54	3.97	

: Standard Stock

Chamfering	Adjusting Screw		For Fixing Drills					For Mounting Inserts		
Attachment			Clamp	Clamp Screw			Plug Screw	Clamp	Clamp Screw	Wrench
Description		Width Across Flat (mm)			Width Across Flat (mm)	Torque [N·m]				
S20-CH10-DRA	AJ-12X22	6	CP-CH10	HS8X8	4	12		C09N	W6X18N	DTM-15
S32-CH12-DRA	AJ-16X30	6	CP-CH12			15	BNP6			
S32-CH14-DRA	AJ-20X30	8	CP-CH14	HS10X10	5	20				
S32-CH16-DRA	AJ-20A30	0	CP-CH16	HS12X10	6	30			WOXTON	
S32-CH18-DRA	AJ-22x35	J-22x35 10		11312/10	O	30				
S32-CH20-DRA	MJ-22X33	10	CP-CH20	HS16X10	8	45				

### **Drilling and Chamfering Depths**

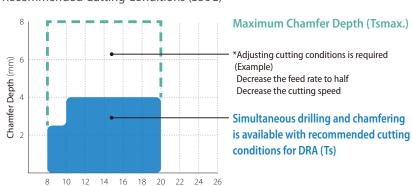


	Dia. (mm)	Drilling Depth (mm)           T (3XD)         T (5XD)         T (8XD)						Chamfering Dimension (mm)		Applicable	
min.	max.	min.	max.	min.	max.	min.	max.	Ts	Tsmax.	Toolholder	
ø7.94	ø8.49	12.5	20	18	36	43	60	13	Tarriaxi		
ø8.50	ø8.99	12.5	21.5	21.5	38.5	48	64		8	S20-CH10-DRA	
ø9.00	ø9.49	12.5	23	24	41	52	68	2.5			
ø9.50	ø9.99	12.5	24.5	27.5	43.5	57.5	72.5				
ø10.00	ø10.49	15.5	26	22	46	52	76		8	S32-CH12-DRA	
ø10.50	ø10.99	16	27.5	24.5	48.5	56	80	1			
ø11.00	ø11.49	16.5	29	27	51	60	84	4			
ø11.50	ø11.99	17.5	30.5	29.5	53.5	64	88				
ø12.00	ø12.49	18	32	32	56	68	92		8	S32-CH14-DRA	
ø12.50	ø12.99	19	34	35	59	72.5	96.5	] ,			
ø13.00	ø13.49	19.5	35.5	37.5	61.5	76	100	4			
ø13.50	ø13.99	20	36.5	39.5	63.5	80	104				
ø14.00	ø14.49	21	38.5	42.5	66.5	84.5	108.5		8	S32-CH16-DRA	
ø14.50	ø14.99	21.5	40	45	69	88.5	112.5	4			
ø15.00	ø15.99	22.5	41.5	47.5	71.5	92.5	116.5				
ø16.00	ø16.99	24	44.5	52.5	76.5	100.5	124.5	4	8	S32-CH18-DRA	
ø17.00	ø17.99	25.5	47.5	57.5	81.5	108.5	132.5	4			
ø18.00	ø18.99	27.5	51	64	87	121	141	4	8	S32-CH20-DRA	
ø19.00	ø19.99	29.5	54	69	92	129	149	4			



### Recommended Cutting Conditions (S50C)

Drill Diameter øD (mm)



## **How to Install Chamfering Attachment**

#### [Remove]

1 Mount DRA drill into the chamfering attachment (Fig.1)



Fig.1 Install the DRA

3 Adjust drilling depth by turning adjustment screw with hexagon wrench (Fig.3)

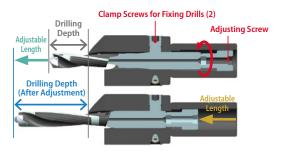


Fig.3 Adjustment of Drilling Depth

5 Fasten the two clamp screws for DRA (See table 1. for recommended torque)

Table 1. Recommended Torque

Chamfering	Clamp Screw						
Attachment Description	Recommended Torque (N·m)	Width Across Flat (mm)					
S20-CH10-DRA	12	4					
S32-CH12-DRA	15	4					
S32-CH14-DRA	20	5					
S32-CH16-DRA	30	6					
S32-CH18-DRA	30	Ö					
S32-CH20-DRA	45	8					

#### **Cautions**

- · Chamfering attachment is compatible with straight shank SS-DRA. It cannot be used for flanged shank SF-DRA.
- · Chamfering requires two chamfering inserts. Using one insert is not recommended.
- · Only fully remove clamp screws when replacing them.

2 Install an insert and tighten temporarily with clearance between the cutting edge and DRA body (Fig.2)

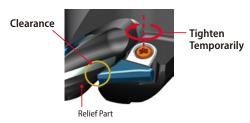
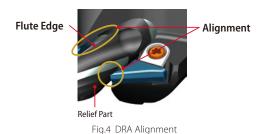


Fig.2 Install Inserts

4 Align the flute edge and black relief part of the drill to the position shown in Fig.4 by rotating the DRA drill (Fig.4)



6 Tighten the inserts while lightly pressing the edge of insert against the relief part (Fig.5) (Recommended torque is 3.5N·m)

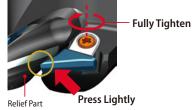


Fig.5 Fully Tighten

- · Clamps and clamp screws for mounting inserts need to be replaced regularly. · Screw locking adhesive is applied to adjustment screw. The effect will
- eventually wear off if the screws are used for a long time. Regular replacement is recommended.
- $\cdot$  Please do not operate the plug screws.