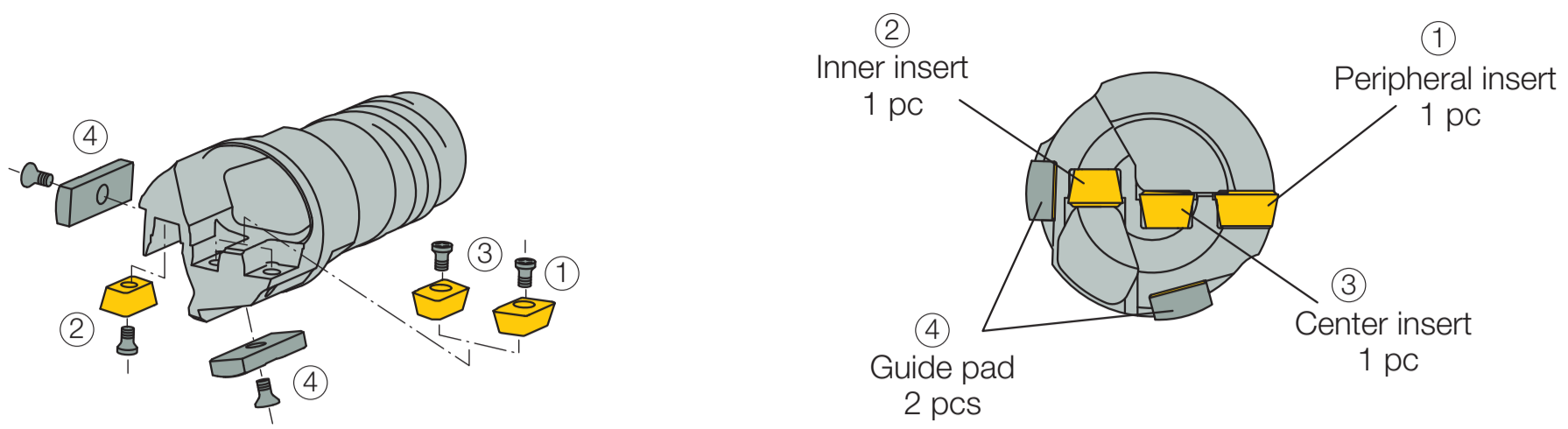


	Tool Diameter		Dimensions (mm)				Solid Carbide	
	Min	Max	b	L	R	h	Description	
<b>FINEBEAM</b>	25.00	29.99	6	20	12	3	GPS-06-20-120	
	30.00	39.00	7	20	12	3.5	GPS-07-20-120	
	39.01	45.00	8	25	15.5	4.5	GPS-08-25-155	
	45.01	57.00	10	30	20	4.5	GPS-10-30-200	
	57.01	65.00	12	35	25	5.5	GPS-12-35-250	

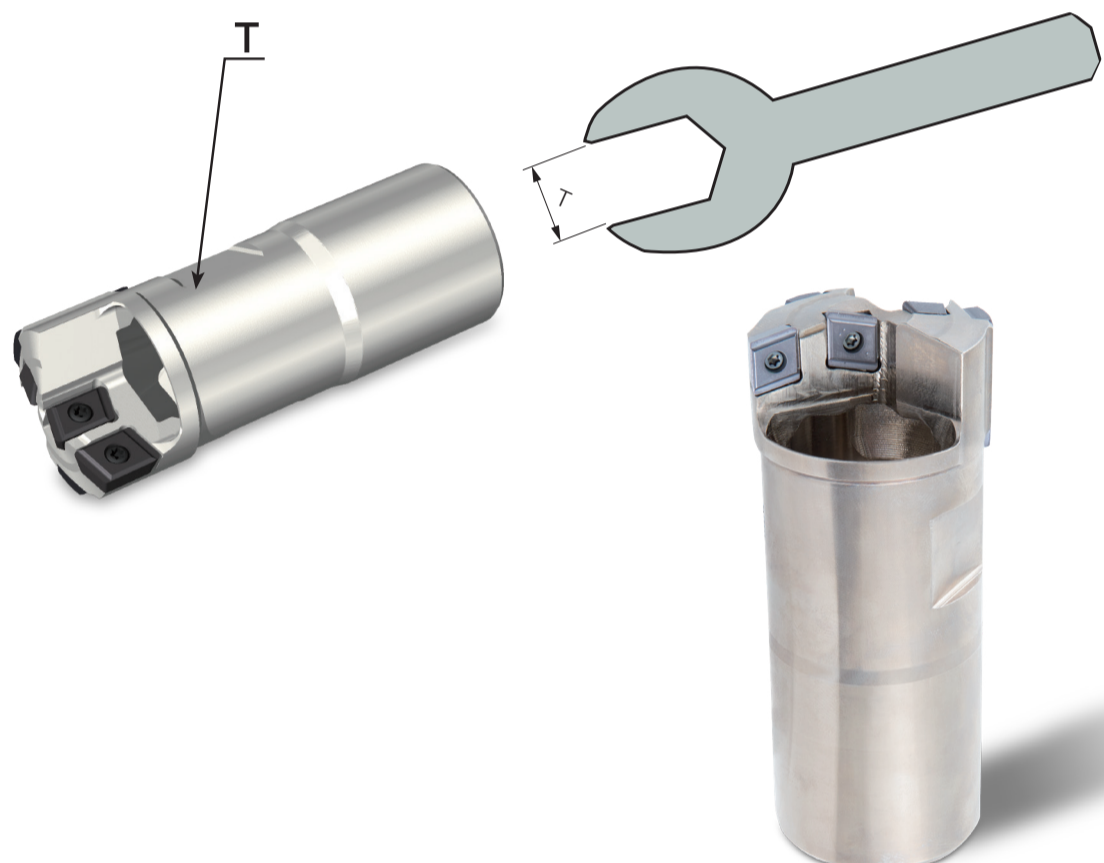


### Spare Parts for DSD-EF-FB, DDD-EF-FB and DSD-IF-FB

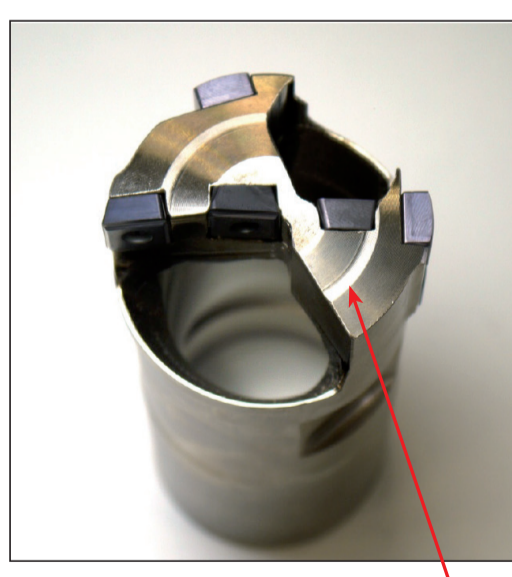
Drill Diameter	Insert									Guide Pad		
	1 Peripheral Insert	Screw	Key	2 Intermediate Insert	Screw	Key	3 Central Insert	Screw	Key	4 Screw	Key	
25.00 - 28.00	NPHT 060308R-G-P	SR11201753-2	T-7/5	NPMT 050304R-G-I	SR11201753-2	T-7/5	NPMT 050308L-G-C	SR11201753-2	T-7/5	GPS-06	SR11201753-1	T-7/5
28.01 - 29.99	NPHT 060308R-HF-P	SR11201753-2	T-7/5	NPMT 050304R-HF-I	SR11201753-2	T-7/5	NPMT 050308L-HF-C	SR11201753-2	T-7/5	GPS-06	SR11201753-1	T-7/5
30.00 - 35.00	NPHT 070408R-G-P	SR 14-560-HG	T-8/5	NPMT 060404R-G-I	SR 14-560-HG	T-8/5	NPMT 060408L-G-C	SR 14-560-HG	T-8/5	GPS-07	SR11201753-4	T-9/5
35.01 - 38.00	NPHT 070408R-HF-P	SR 14-560-HG	T-8/5	NPMT 060404R-HF-I	SR 14-560-HG	T-8/5	NPMT 060408L-HF-C	SR 14-560-HG	T-8/5	GPS-07	SR11201753-4	T-9/5
38.01 - 39.00	NPHT 090408R-G-P	SR 14-560-HG	T-8/5	NPMT 060404R-G-I	SR 14-560-HG	T-8/5	NPMT 080408L-G-C	SR 14-560-HG	T-8/5	GPS-07	SR11201753-4	T-9/5
39.01 - 41.00	NPHT 090408R-HF-P	SR 14-560-HG	T-8/5	NPMT 060404R-HF-I	SR 14-560-HG	T-8/5	NPMT 080408L-HF-C	SR 14-560-HG	T-8/5	GPS-07	SR11201753-4	T-9/5
41.01 - 44.00	NPHT 090408R-G-P	SR 14-560-HG	T-8/5	NPMT 080404R-G-I	SR 14-560-HG	T-8/5	NPMT 080408L-G-C	SR 14-560-HG	T-8/5	GPS-08	SR11201753-4	T-9/5
44.01 - 45.00	NPHT 090408R-HF-P	SR 14-560-HG	T-8/5	NPMT 080404R-HF-I	SR 14-560-HG	T-8/5	NPMT 080408L-HF-C	SR 14-560-HG	T-8/5	GPS-08	SR11201753-4	T-9/5
45.01 - 47.00	NPHT 090408R-G-P	SR 14-560-HG	T-8/5	NPMT 080404R-G-I	SR 14-560-HG	T-8/5	NPMT 090408L-G-C	SR 14-560-HG	T-8/5	GPS-10	SR11201753-6	T-15/5
47.01 - 51.00	NPHT 110408R-HF-P	SR 14-560-HG	T-8/5	NPMT 090404R-HF-I	SR 14-560-HG	T-8/5	NPMT 090408L-HF-C	SR 14-560-HG	T-8/5	GPS-10	SR11201753-6	T-15/5
51.01 - 54.00	NPHT 110408R-G-P	SR 14-560-HG	T-8/5	NPMT 090404R-G-I	SR 14-560-HG	T-8/5	NPMT 120408L-G-C	SR 14-560-HG	T-8/5	GPS-10	SR11201753-6	T-15/5
54.01 - 57.00	NPHT 110408R-HF-P	SR 14-560-HG	T-8/5	NPMT 090404R-HF-I	SR 14-560-HG	T-8/5	NPMT 120408L-HF-C	SR 14-560-HG	T-8/5	GPS-10	SR11201753-6	T-15/5
57.01 - 60.00	NPHT 130408R-G-P	SR 14-560-HG	T-8/5	NPMT 090404R-G-I	SR 14-560-HG	T-8/5	NPMT 120408L-G-C	SR 14-560-HG	T-8/5	GPS-12	SR11201753-6	T-15/5
60.01 - 64.00	NPHT 130408R-HF-P	SR 14-560-HG	T-8/5	NPMT 090404R-HF-I	SR 14-560-HG	T-8/5	NPMT 120408L-HF-C	SR 14-560-HG	T-8/5	GPS-12	SR11201753-6	T-15/5
64.01 - 65.00	NPHT 130408R-G-P	SR 14-560-HG	T-8/5	NPMT 120404R-G-I	SR 14-560-HG	T-8/5	NPMT 120408L-G-C	SR 14-560-HG	T-8/5	GPS-12	SR11201753-6	T-15/5

### Wrench Size

Diameter Dc (mm)	Wrench size T (mm)
25.00 -26.40	19
26.41 -28.70	21
28.71 -31.00	24
31.01 -33.30	26
33.31 -36.20	28
36.21 -39.60	30
39.61 -43.00	32
43.01 -47.00	36
47.01 -51.70	38
51.71 -56.20	46
56.21 -60.60	50
60.61 -65.00	54

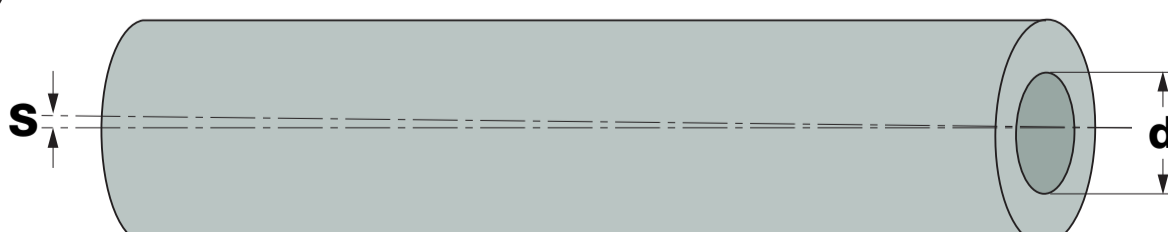


### Designed for High Feed



FB design Groove to enable high feed

**Note:** **FINEBEAM** heads are delivered without inserts and guide pads. Inserts and guide pads should be ordered separately.



### Machining Example 1

Material: SNCM435 (alloyed steel)	
Drill diameter (mm)	25
<b>d</b> Hole diameter deviation (mm)	<b>24.96 ~ 25.03</b>
Surface roughness (µm)	<b>1.0</b>
Tool life	25 m per corner (Vb=0.1 mm)

### Machining Example 2

Material: SCM435H , ISO 34CrMoS4, DIN 17200	
Drill diameter (mm)	32
Vc m/min	69
f mm/rev	0.18
<b>S</b> Hole straightness (mm)	<b>0.2/1500</b>
Tool life	4 holes