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Partner products



precise. pioneering. worldwide.

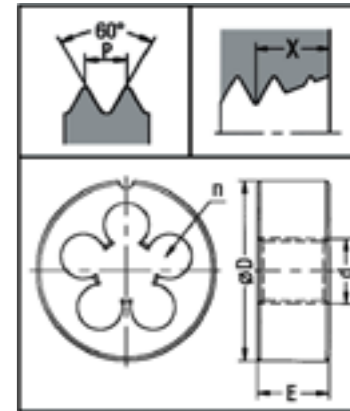
Article-No.	saw blade fine
SBF02002564	Ø20 x 0,25 x 5 mm, 64 teeth
SBF02003064	Ø20 x 0,30 x 5 mm, 64 teeth
SBF02005048	Ø20 x 0,50 x 5 mm, 48 teeth
SBF02006048	Ø20 x 0,60 x 5 mm, 48 teeth
SBF02010040	Ø20 x 1,00 x 5 mm, 40 teeth
SBF02016040	Ø20 x 1,60 x 5 mm, 40 teeth
SBF02503080	Ø25 x 0,30 x 8 mm, 80 teeth
SBF02505064	Ø25 x 0,50 x 8 mm, 64 teeth
SBF02506064	Ø25 x 0,60 x 8 mm, 64 teeth
SBF02508048	Ø25 x 0,80 x 8 mm, 48 teeth
SBF02510048	Ø25 x 1,00 x 8 mm, 48 teeth
SBF02512048	Ø25 x 1,20 x 8 mm, 48 teeth
SBF02516040	Ø25 x 1,60 x 8 mm, 40 teeth
SBF02520040	Ø25 x 2,00 x 8 mm, 40 teeth
SBF03002510	Ø30 x 0,25 x 8 mm, 100 teeth
SBF03003080	Ø30 x 0,30 x 8 mm, 80 teeth
SBF03004080	Ø30 x 0,40 x 8 mm, 80 teeth
SBF03005080	Ø30 x 0,50 x 8 mm, 80 teeth
SBF03006064	Ø30 x 0,60 x 8 mm, 64 teeth
SBF03008064	Ø30 x 0,80 x 8 mm, 64 teeth
SBF03010064	Ø30 x 1,00 x 8 mm, 64 teeth
SBF03012048	Ø30 x 1,20 x 8 mm, 48 teeth
SBF03016048	Ø30 x 1,60 x 8 mm, 48 teeth
SBF03020048	Ø30 x 2,00 x 8 mm, 48 teeth
SBF03025040	Ø30 x 2,50 x 8 mm, 40 teeth
SBF04004100	Ø40 x 0,40 x 10 mm, 100 teeth
SBF04005080	Ø40 x 0,50 x 10 mm, 80 teeth
SBF04006080	Ø40 x 0,60 x 10 mm, 80 teeth
SBF04008080	Ø40 x 0,80 x 10 mm, 80 teeth
SBF04010064	Ø40 x 1,00 x 10 mm, 64 teeth
SBF04012064	Ø40 x 1,20 x 10 mm, 64 teeth
SBF04016064	Ø40 x 1,60 x 10 mm, 64 teeth
SBF04020048	Ø40 x 2,00 x 10 mm, 48 teeth
SBF04025048	Ø40 x 2,50 x 10 mm, 48 teeth
SBF04030048	Ø40 x 3,00 x 10 mm, 48 teeth
SBF05005100	Ø50 x 0,50 x 13 mm, 100 teeth
SBF05006100	Ø50 x 0,60 x 13 mm, 100 teeth
SBF05008080	Ø50 x 0,80 x 13 mm, 80 teeth
SBF05010080	Ø50 x 1,00 x 13 mm, 80 teeth
SBF05012080	Ø50 x 1,20 x 13 mm, 80 teeth
SBF05016064	Ø50 x 1,60 x 13 mm, 64 teeth
SBF05020064	Ø50 x 2,00 x 13 mm, 64 teeth
SBF05030048	Ø50 x 3,00 x 13 mm, 48 teeth
SBF06303128	Ø63 x 0,30 x 16 mm, 128 teeth
SBF06305128	Ø63 x 0,50 x 16 mm, 128 teeth
SBF06306100	Ø63 x 0,60 x 16 mm, 100 teeth
SBF06308100	Ø63 x 0,80 x 16 mm, 100 teeth
SBF06310100	Ø63 x 1,00 x 16 mm, 100 teeth
SBF06312080	Ø63 x 1,20 x 16 mm, 80 teeth
SBF06316080	Ø63 x 1,60 x 16 mm, 80 teeth
SBF06320080	Ø63 x 2,00 x 16 mm, 80 teeth
SBF06325064	Ø63 x 2,50 x 16 mm, 64 teeth
SBF06330064	Ø63 x 3,00 x 16 mm, 64 teeth
SBF08005128	Ø80 x 0,50 x 22 mm, 128 teeth
SBF08006128	Ø80 x 0,60 x 22 mm, 128 teeth
SBF08008128	Ø80 x 0,80 x 22 mm, 128 teeth
SBF08010100	Ø80 x 1,00 x 22 mm, 100 teeth
SBF08012100	Ø80 x 1,20 x 22 mm, 100 teeth
SBF08016100	Ø80 x 1,60 x 22 mm, 100 teeth
SBF08020080	Ø80 x 2,00 x 22 mm, 80 teeth
SBF08025080	Ø80 x 2,50 x 22 mm, 80 teeth
SBF08030080	Ø80 x 3,00 x 22 mm, 80 teeth
SBF10006160	Ø100 x 0,60 x 22 mm, 160 teeth
SBF10008128	Ø100 x 0,80 x 22 mm, 128 teeth
SBF10010128	Ø100 x 1,00 x 22 mm, 128 teeth
SBF10012128	Ø100 x 1,20 x 22 mm, 128 teeth
SBF10016100	Ø100 x 1,60 x 22 mm, 100 teeth
SBF10020100	Ø100 x 2,00 x 22 mm, 100 teeth
SBF10030080	Ø100 x 3,00 x 22 mm, 80 teeth

Article-No.	Saw blade coarse
SBG02002520	Ø20 x 0,25 x 5 mm, 20 teeth
SBG02003020	Ø20 x 0,30 x 5 mm, 20 teeth
SBG02005020	Ø20 x 0,50 x 5 mm, 20 teeth
SBG02006020	Ø20 x 0,60 x 5 mm, 20 teeth
SBG02010020	Ø20 x 1,00 x 5 mm, 20 teeth
SBG02016020	Ø20 x 1,60 x 5 mm, 20 teeth
SBG02503020	Ø25 x 0,30 x 8 mm, 20 teeth
SBG02505020	Ø25 x 0,50 x 8 mm, 20 teeth
SBG02506020	Ø25 x 0,60 x 8 mm, 20 teeth
SBG02508020	Ø25 x 0,80 x 8 mm, 20 teeth
SBG02510020	Ø25 x 1,00 x 8 mm, 20 teeth
SBG02512020	Ø25 x 1,20 x 8 mm, 20 teeth
SBG02516020	Ø25 x 1,60 x 8 mm, 20 teeth
SBG02520020	Ø25 x 2,00 x 8 mm, 20 teeth
SBG03002530	Ø30 x 0,25 x 8 mm, 30 teeth
SBG03003030	Ø30 x 0,30 x 8 mm, 30 teeth
SBG03004030	Ø30 x 0,40 x 8 mm, 30 teeth
SBG03005030	Ø30 x 0,50 x 8 mm, 30 teeth
SBG03006030	Ø30 x 0,60 x 8 mm, 30 teeth
SBG03008024	Ø30 x 0,80 x 8 mm, 24 teeth
SBG03010024	Ø30 x 1,00 x 8 mm, 24 teeth
SBG03012024	Ø30 x 1,20 x 8 mm, 24 teeth
SBG03016024	Ø30 x 1,60 x 8 mm, 24 teeth
SBG03020024	Ø30 x 2,00 x 8 mm, 24 teeth
SBG03025024	Ø30 x 2,50 x 8 mm, 24 teeth
SBG04004040	Ø40 x 0,40 x 10 mm, 40 teeth
SBG04005040	Ø40 x 0,50 x 10 mm, 40 teeth
SBG04006040	Ø40 x 0,60 x 10 mm, 40 teeth
SBG04008032	Ø40 x 0,80 x 10 mm, 32 teeth
SBG04010032	Ø40 x 1,00 x 10 mm, 32 teeth
SBG04012032	Ø40 x 1,20 x 10 mm, 32 teeth
SBG04016032	Ø40 x 1,60 x 10 mm, 32 teeth
SBG04020024	Ø40 x 2,00 x 10 mm, 24 teeth
SBG04025024	Ø40 x 2,50 x 10 mm, 24 teeth
SBG04030024	Ø40 x 3,00 x 10 mm, 24 teeth
SBG05005048	Ø50 x 0,50 x 13 mm, 48 teeth
SBG05006048	Ø50 x 0,60 x 13 mm, 48 teeth
SBG05008040	Ø50 x 0,80 x 13 mm, 40 teeth
SBG05010040	Ø50 x 1,00 x 13 mm, 40 teeth
SBG05012040	Ø50 x 1,20 x 13 mm, 40 teeth
SBG05016032	Ø50 x 1,60 x 13 mm, 32 teeth
SBG05020032	Ø50 x 2,00 x 13 mm, 32 teeth
SBG05030024	Ø50 x 3,00 x 13 mm, 24 teeth
SBG06305064	Ø63 x 0,50 x 16 mm, 64 teeth
SBG06306048	Ø63 x 0,60 x 16 mm, 48 teeth
SBG06308048	Ø63 x 0,80 x 16 mm, 48 teeth
SBG06310048	Ø63 x 1,00 x 16 mm, 48 teeth
SBG06312040	Ø63 x 1,20 x 16 mm, 40 teeth
SBG06316040	Ø63 x 1,60 x 16 mm, 40 teeth
SBG06320040	Ø63 x 2,00 x 16 mm, 40 teeth
SBG06325032	Ø63 x 2,50 x 16 mm, 32 teeth
SBG06330032	Ø63 x 3,00 x 16 mm, 32 teeth
SBG08006064	Ø80 x 0,60 x 22 mm, 64 teeth
SBG08008064	Ø80 x 0,80 x 22 mm, 64 teeth
SBG08010048	Ø80 x 1,00 x 22 mm, 48 teeth
SBG08012048	Ø80 x 1,20 x 22 mm, 48 teeth
SBG08016048	Ø80 x 1,60 x 22 mm, 48 teeth
SBG08020040	Ø80 x 2,00 x 22 mm, 40 teeth
SBG08025040	Ø80 x 2,50 x 22 mm, 40 teeth
SBG08030040	Ø80 x 3,00 x 22 mm, 40 teeth
SBG10006080	Ø100 x 0,60 x 22 mm, 80 teeth
SBG10008064	Ø100 x 0,80 x 22 mm, 64 teeth
SBG10010064	Ø100 x 1,00 x 22 mm, 64 teeth
SBG10012064	Ø100 x 1,20 x 22 mm, 64 teeth
SBG10016048	Ø100 x 1,60 x 22 mm, 48 teeth
SBG10020048	Ø100 x 2,00 x 22 mm, 48 teeth
SBG10030040	Ø100 x 3,00 x 22 mm, 40 teeth

High performance dies  
DIN EN 22568  
Metric ISO thread DIN13



Article-No.	Description	d	P mm	Ø D x E mm	n
PSE001M0200	Die HSSE 6g	M2	0,4	16x5	4
PSE001M0300	Die HSSE 6g	M3	0,5	20x5	5
PSE001M0400	Die HSSE 6g	M4	0,7	20x5	5
PSE001M0500	Die HSSE 6g	M5	0,8	20x7	5
PSE001M0600	Die HSSE 6g	M6	1	20x7	5
PSE001M0800	Die HSSE 6g	M8	1,25	25x9	5
PSE001M1000	Die HSSE 6g	M10	1,5	30x11	5
PSE001M1200	Die HSSE 6g	M12	1,75	38x14	5
PSE001M1600	Die HSSE 6g	M16	2	45x18	5
PSE001M2000	Die HSSE 6g	M20	2,5	45x18	5



X = 2.25 \* P

Version:

- movable in all directions
- extremely stable mech. execution
- central clamping mechanism
- easily and quickly adjustable
- fine adjustment at the top with universal dial gauge holder
- optionally with or without magnetic foot



Article-No.	Description	Connection (below)	L1	L2	Arm length (total)	Magnet (L / B / H / force)
PANNF6103	NOGA measuring arm	Magnet	56	51	178	40 / 30 / 35 / 320N
PANNF6013	NOGA measuring arm	M5	56	51	178	-
PANDG6103	NOGA measuring arm	Magnet	110	101	282	60 / 50 / 55 / 800N
PANDG6013	NOGA measuring arm	M8	110	101	282	-
PANMG6103	NOGA measuring arm	Magnet	133	113	317	60 / 50 / 55 / 800N
PANMG6013	NOGA measuring arm	M8	133	113	317	-
PANMA6103	NOGA measuring arm	Magnet	287	223	580	120 / 50 / 55 / 1300N
PANMA6013	NOGA measuring arm	M10x1.25	287	223	580	-
PANDG1000	NOGA dial gauge 0,01 mm					
0017C1098	TSCHORN lever gauge 0,01 mm					



TSCHORN Lever gauge  
Art.- No. 0017C1098





Collet chucks system ER according to DIN6499 B

**Advantages:**

- German collet steel
- durable
- finely deburred
- Concentricity < 6µm



**Information:**  
XXX= clamping Ø  
e.g.: Ø1,0 = 010

Article-No.	Description	Size	Sealed	clamping Ø
PAJ0E11XXX	Collet chuck DIN6499 B	ER11	no	Ø1,0 - Ø7,0
PAJ0E16XXX	Collet chuck DIN6499 B	ER16	no	Ø1,0 - Ø11,0
PAJ0E20XXX	Collet chuck DIN6499 B	ER20	no	Ø2,0 - Ø13,0
PAJ0E25XXX	Collet chuck DIN6499 B	ER25	no	Ø2,0 - Ø16,0
PAJ0E32XXX	Collet chuck DIN6499 B	ER32	no	Ø2,0 - Ø20,0
PAJ0E40XXX	Collet chuck DIN6499 B	ER40	no	Ø3,0 - Ø26,0



Piranha centering vise



**Snapper: the most snappish!**  
The centering vise for roughing

**Advantages:**

- Minimal material loss at 3 mm clamping depth
- Clamping of raw parts without predetermination
- High repeatability: 0.01 mm

Article-No.	Description	Size	Clamping range
PAP540362	Centering vise Snapper	170	5 mm - 118 mm
PAP540446	Centering vise Snapper (+10 mm)	170	5 mm - 118 mm
PAP540401	Centering vise Snapper	300	5 mm - 238 mm
PAP540447	Centering vise Snapper (+10 mm)	300	5 mm - 238 mm



**Gepard: the quickest!**  
The centering vise for finishing

**Advantages:**

- Quick changing system for jaws within seconds
- Replaceable Snapper jaws (the snappy ones!)
- High precision coated guide pillars



**Information:**  
A wide selection of different jaws is available!

Artikel-Nr.	Description	Size	Clamping range
PAP540444	Centering vise Gepard	170	0 mm - 160 mm
PAP540400	Centering vise Gepard	300	0 mm - 250 mm
PAP551018	Set top jaws ALUMINIUM M 50x98x41 mm	170	0 mm - 160 mm
PAP551020	Set top jaws ALUMINIUM M 50x131x51 mm	300	0 mm - 250 mm
PAP551033	Set top jaws STEEL M 50x98x41 mm	170	0 mm - 160 mm
PAP551046	Set top jaws STEEL M 50x131x51 mm	300	0 mm - 250 mm
PAP551009	Set top jaws Snapper short 50x98x22 mm	170	7 mm - 71 mm
PAP551007	Set top jaws Snapper short 50x131x22 mm	300	7 mm - 154 mm



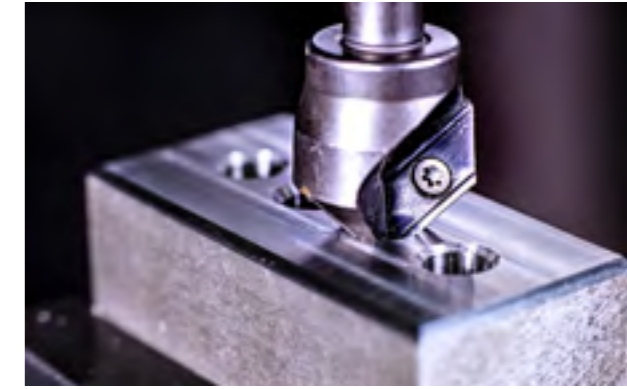
Countersink with cutting inserts

**Application area:**

For countersinking and deburring with cordless screwdrivers, hand drills, milling machines, boring mills and machining centres.

**Advantages:**

- Increase efficiency
- Increase lifetimes
- Reduce costs



Article-No.	Description	Cutting insert	smallest Ø	largest Ø	Shank Ø
PAYCI1760	Countersink 60°	Gr. 2	Ø7,0	Ø17,0	Ø10
PAYCI3160	Countersink 60°	Gr. 3	Ø15,5	Ø31,0	Ø12
PAYCI1090	Countersink 90°	Gr. 1	Ø4,0	Ø10,0	Ø10
PAYCI2290	Countersink 90°	Gr. 2	Ø5,5	Ø22,0	Ø10
PAYCI3690	Countersink 90°	Gr. 3	Ø15,0	Ø36,0	Ø12
PAYCI2612	Countersink 120°	Gr. 2	Ø7,0	Ø26,0	Ø10
PAYCI3912	Countersink 120°	Gr. 3	Ø11,0	Ø39,0	Ø12
PAYWP0001	Universal cutting insert	Gr. 1			
PAYWP0002	Universal cutting insert	Gr. 2			
PAYWP0003	Universal cutting insert	Gr. 3			



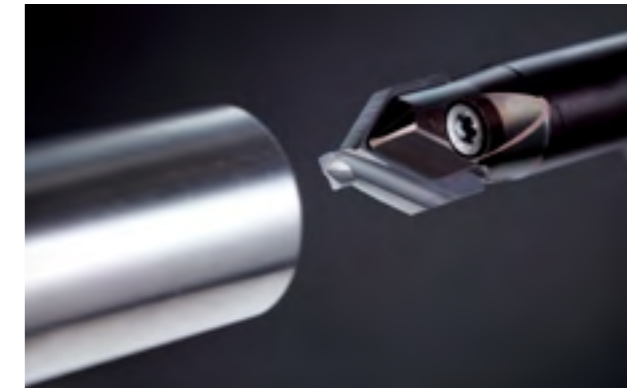
**Information:**  
A cutting insert is included with the countersink.



Centre drill with cutting inserts

**Compared to conventional centre drills:**

- many times faster
- precise insert position does not require a new measurement after change
- increase lifetimes



Article-No.	Description	centering form	small Ø	large Ø	angle
PAYTU0860	Centering holder shank Ø8	-	-	-	-
PAYTU1065	Centering holder shank Ø10	-	-	-	-
PAYWPA0816	Cutting insert (similar to DIN332)	A	Ø1,6	Ø8,0	60°
PAYWPA0820	Cutting insert (similar to DIN332)	A	Ø2,0	Ø8,0	60°
PAYWPA1025	Cutting insert (similar to DIN332)	A	Ø2,5	Ø10,0	60°
PAYWPA1030	Cutting insert (similar to DIN332)	A	Ø3,0	Ø10,0	60°
PAYWPB0816	Cutting insert (similar to DIN332)	B	Ø1,6	Ø8,0	60°
PAYWPB0820	Cutting insert (similar to DIN332)	B	Ø2,0	Ø8,0	60°
PAYWPB1025	Cutting insert (similar to DIN332)	B	Ø2,5	Ø10,0	60°
PAYWPB1030	Cutting insert (similar to DIN332)	B	Ø3,0	Ø10,0	60°
PAYWPC0816	Cutting insert	A	Ø1,6	Ø8,0	90°
PAYWPC0820	Cutting insert	A	Ø2,0	Ø8,0	90°
PAYWPC1025	Cutting insert	A	Ø2,5	Ø10,0	90°
PAYWPC1030	Cutting insert	A	Ø3,0	Ø10,0	90°



**Information:**  
There is no cutting insert included with the centre drill.

