

Filers

FR 10-5/2



FR 10-5/2

Its 6 mm tool-receiving socket, the stable finish and the almost maintenance-free reciprocating engine make this filer an indispensable tool even when under extreme and continuous strain - for instance rough machining of casted parts.

FR 5-4



FR 5-4

This version has a very powerful motor. The stroke length and the number of strokes can be set. The device comes with a rotary valve.

FR 8-2



FR 8-2

An incredibly robust device that will master even the hardest jobs.

The stroke length is set to 8 mm, the number of strokes is set to 2000 per minute.

Name	FR 10-5/2	FR 5-4	FR 8-2
Valve	Lever valve	Rotary valve	Lever valve
Exhaust air direction	backwards	backwards	backwards
No. of strokes [min ⁻¹]	up to 5500 adjustable	2000-4000	2000
Stroke length [mm]	10	1-5 adjustable	8
Air consumption [l/min]	280	260	310
Noise level [db (A)]	72	74	73
Weight [g]	750	940	1250
Max. tool shank Ø [mm]	6	3	6
HM-tools			
Collet chuck	Straining screw	ZG 5/3 mm	ZG 4/6 mm
Hose unit	001 964 528 incl.	001 366 505	001 366 505
Order no.	150 930 220	150 310 810	150 322 611

We will send you measurement and exploded drawings on request.

FR 5-8

This pistol file is very easy to handle. It is also quiet and low in vibration.

The number of strokes and the stroke length can be adjusted. The file holder can be turned in the optimal working position and is therefore a perfect tool for mold makers.



FR 5-8

FR 3-8 und FR 5-8 N

These pistol-design files are identical in construction. The stroke length of the FR 3-8 is set to 3 mm. The stroke length of the FR 5-8 N is set to 5 mm.

Due to its low weight the machine is ideal for machining aluminum.



FR 3-8
FR 5-8 N



Name	FR 5-8	FR 3-8	FR 5-8 N
Valve	Lever valve	Lever valve	Lever valve
Exhaust air direction	backwards	backwards	backwards
No. of strokes [min ⁻¹] adjustable	0-8000	0-8000	0-8000
Stroke length [mm]	1-5 adjustable	3	5
Air consumption [l/min]	230	230	230
Noise level [db (A)]	72	72	72
Weight [g]	800	720	720
Max. tool shank Ø [mm]	4	4	4
Tool holder	Straining screw	Straining screw	Straining screw
Hose unit	001 366 571 inclusive	001 366 571 inclusive	001 366 571 inclusive
Order no.	150 322 830	150 322 730	150 322 735

We will send you measurement and exploded drawings on request.

Filers

FR 8-12



FR 8-12

This device has been designed for simple filing and deburring work.

FLV 8-12 F
low vibration



FLV 8-12 F

This newly developed device is suitable for the same applications as the PLF 88 file. The special thing about this machine is that it hardly vibrates during operation and the easy to adjust stroke length.

This patented vibration dampening in accordance with the Vibration Directive protects you and the tool.

* Accessories provided for FLV 8-12 F

- 1 Flat file rough 001 620 204
- 1 Semicircular file rough 001 620 207
- 1 Flat file medium 001 620 201
- 1 Rounded file medium 001 620 210
- 1 Pointed rounded file 001 620 211
- 1 Polishing shoe 35 x 25 mm 001 974 436
- 1 x abrasive strip each
- Grit 80, 120, 240, 400
- 4 different saws
- tool holder for 3 and 6mm

PLF 88



PLF 88

This powerful multi-purpose device has been designed for filing, deburring, polishing and cutting. In the lower vertical adjustment area this filing device is particularly powerful.

Name	FR 8-12	FLV 8-12 F	PLF 88
Power [watts]	280	300	300
Valve	Lever valve	Lever valve	Lever valve
Exhaust air direction	backwards	backwards	backwards
No. of strokes [min ⁻¹] adjustable	0-12.000	12.000	0-12.000
Stroke length [mm] adjustable	4-8	4-9	2-8
Air consumption [l/min]	250	250-300	250
Noise level [db (A)]	73	70	71
Weight [g]	640	700	760
Max. tool shank Ø [mm]	4,0	6,0	6,0
Tool holder installed	4 mm	4 mm	4 mm
Hose unit	001 974 552 inclusive	001 974 552 inclusive	001 974 552 inclusive
Order no.	150 322 850	150 322 870	150 322 860
Accessories	Plastic suitcase	Plastic suitcase Tool holder 3,4 und 6,0 Counter holder	Plastic suitcase Tool holder 3,4 und 6,0 Counter holder

We will send you measurement and exploded drawings on request.

Saws

PS 2

High power device in a robust aluminum housing with handy shape. **New blade attachment.**

PS 3

Gentle work due to **patented vibration damping**. More power produced by new drive. Also suitable for harder steel. Exceptionally robust because of the stable aluminium housing. **New blade attachment.**

PS 25

The solution for very solid steel thanks to better cutting performance given by the new drive. More safety ensured by the redeveloped tool-receiving socket. Work is made easier by the **patented vibration damping**. **New blade attachment.**

PLF 90

The robust and established alternative in metal housing. Very popular due to the high tractive power of the reciprocating engine.

FR 10-5/2

The powerful universal saw for all applications. Frequently used for aluminium profiling work.



Saws (please see page 27)



PLF 90
The original
SIG-saw

FR 10-5/2

Name	PS 2	PS 3	PS 25	PLF 90	FR 10-5/2
Power [watts]	280	300	340	300	-
Valve	Lever valve	Lever valve	Lever valve	Lever valve	Lever valve
Exhaust air direction	backwards	backwards	backwards	backwards	backwards
No. of strokes [min ⁻¹]	12.000	12.000	6.000	12.000	up to 5.500 adjustable
Stroke length [mm]	8	8	25	8	10
Air consumption [l/min]	250	250	280	250	280
Noise level [db (A)]	73	73	74	71	72
Weight [g]	720	980	1250	760	750
Max. tool shank Ø [mm]	4	4	4	6	6
Tool holder installed	4 mm	4 mm	4 mm	4 mm	6 mm
Hose unit	001 974 552 inclusive	001 974 552 inclusive	007 012 349 inclusive	001 982 531 inclusive	001 964 528 inclusive
Order no.	150 322 920	150 322 921	150 322 910	150 322 890	150 930 220
Accessories	Counter holder 2 installation wrenches 4 saw blades (14/18/24/32 tpi)	Plastic case Counter holder 2 installation wrenches 4 saw blades (14/18/24/32 tpi)	Plastic case Counter holder 2 installation wrenches 4 saw blades (14/18/24/32 tpi)	Plastic case Counter holder 2 installation wrenches 4 saw blades (14/18/24/32 tpi)	Plastic case Counter holder 2 installation wrenches 4 saw blades (14/18/24/32 tpi)

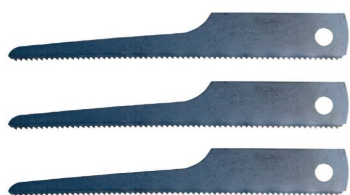
We will send you measurement and exploded drawings on request.

BIAX files		Straight design						Pack: 5 units
Shaft-Ø 3,8 mm, usable length 60 mm Suitable for BIAX pneumatic files: FR 3-8, FR 5-8, FR 5-8 N								File set (1 Unit of every profile)
Profile	Scale 1:1							
Width x Height	mm	7 x 2	2,8 x 2,8	4 x 4	6 x 2,5	7,5 x 2	ø 4	-
Cut 1 (coarse)	Order no.	001 620 837	001 620 838	001 620 839	001 620 840	001 620 841	001 620 842	300 000 500
Cut 3 (fine)	Order no.	001 620 849	001 620 850	001 620 851	001 620 852	001 620 853	001 620 854	300 002 000
Shaft-Ø 6 mm, usable length 80 mm		Suitable for BIAX pneumatic files: FR 8-2, FR 10-5, FLV 8-12						
Profile	Scale 1:2							File set (1 Unit of every profile)
Width x Height	mm	12 x 6	8 x 8	9 x 9	12 x 5	12 x 6	ø 6	-
Cut 1 (coarse)	Order no.	001 620 801	001 620 802	001 620 803	001 620 804	001 620 805	001 620 806	300 000 300
Cut 3 (fine)	Order no.	001 620 813	001 620 814	001 620 815	001 620 816	001 620 817	001 620 818	300 001 700

BIAX files		Straight design									Pack: 10 units	
Shaft-Ø 4 mm Suitable for BIAX pneumatic files: FR 3-8, FR 5-8, FR 8-12, FLV 8-12, PLF 88, FR 5-8 N												
Profile	Scale 1:2											
Length	mm	90	90	65	90	90	90	90	75	90		
Width x Height	mm	6,5 x 2	10 x 3	15 x 3	ø 4	ø 6	6,5 x 2,5	10 x 3	10 x 3	4,3 x 4,3		
Cut 1 (coarse)	Order no.	001 620 202	001 620 203	001 620 204	001 620 213	-	001 620 207	001 620 205	001 620 209	001 620 212		
Cut 2 (medium)	Order no.	001 620 201	-	-	001 620 210	001 620 211	001 620 206	-	001 620 208	-		

BIAX files		Curved design						Pack: 5 units
Shaft-Ø 3,8 mm, usable length 65 mm Suitable for BIAX pneumatic files: FR 3-8, FR 5-8, FR 5-8 N								File set (1 Unit of every profile)
Profile	Scale 1:1							
Width x Height	mm	7 x 2	3,5 x 3,5	4 x 4	6 x 2,5	7,5 x 2	ø 4	-
Cut 2 (medium)	Order no.	001 620 879	001 620 880	001 620 881	001 620 882	001 620 883	001 620 884	300 000 700
Cut 1 (coarse)	Order no.	001 620 885	-	-	-	-	-	-

BIAX-diamond coated files		Straight design						Pack: 5 units
Shaft-Ø 3 mm, usable length 25 mm Suitable for BIAX pneumatic files: FR 3-8, FR 5-8, FR 5-8 N, FR 5-4, FR 8-12, FLV 8-12, PLF 88								File set (1 Unit of every profile)
Profile	Scale 1:1							
Width x Height	mm	5 x 2	4 x 4	3 x 3	6 x 3	ø 2	ø 4	-
Grit D 100	Order no.	001 620 861	001 620 862	001 620 863	001 620 864	001 620 865	001 620 866	300 000 600



Tool holder for FR 8-12, PS 1, PLF 88/PLF 90, FLV 8-12F/PS 8

Tool shank Ø [mm]	3,2	4	6	6,4
Order no.	001 974 430	001 974 411	001 974 443	001 974 431

Tool holder for PS2, PS3

Tool shank Ø [mm]	-	4	-	-
Order no.	-	008 012 314	-	-

Tool holder for PS 25

Tool shank Ø [mm]	-	4	-	-
Order no.	-	008 012 186	-	-

Counter holder for FR 8-12/PS 1, PLF 88/PLF 90, FLV 8-12 F/PS 8, FR 10-5/2, PS 2/PS 3/PS 25

Order no.	001 974 418	001 974 542	001 974 623	001 964 532	003 012 066
-----------	-------------	-------------	-------------	-------------	-------------

The counter holder is required if the files are used as a saw to support the machine against the workpiece. The holder can be adjusted continuously, e.g. for limiting the depth of the saw blade.

Saw blades (pack: 10 units)



These saw blades
 - set high standards for tool life and economic viability
 - provide maximum cut performance
 - are extremely flexible and stress resistant

The teeth are made of high-quality HSS steel. The carrier material is spring steel – selected and point heat treated – for high flexibility, toughness and lack of metal fatigue.

for PS 25, PS 2, PS 3 **New blade attachment**

Saw blade length [mm] L	Teeth interval [mm] Z	No. of teeth	Order no.	Range of application
60	0,8	32 tpi*	007 012 393	Thin sheets of metal and high-strength steel up to 1.5 mm
60	1,0	24 tpi*	007 012 392	Double and triple sheet up to 1.5 mm
60	1,4	18 tpi*	007 012 391	Aluminium, plastic
60	1,8	14 tpi*	007 012 390	Wood, composites, plastic

for PS 1, PS 8, PLF 90

Saw blade length [mm] L	Teeth interval [mm] Z	No. of teeth	Order no.	Areas of application
96	0,8	32 tpi*	001 974 432	All thin metal sheets, steel sheet up to 1.0 mm
96	1,0	24 tpi*	001 974 433	Steel sheet up to 3,0 mm Aluminium up to 1,5 mm Chrome steel sheet up to 1,5 mm
96	1,8	14 tpi*	001 974 434	Nonferrous heavy metal, aluminium, Nonferrous metal up to 4 mm wood, fixing plate
72	1,4	18 tpi*	001 974 435	Specially designed to saw tight curves

for FR 10-5/2

Saw blade length [mm] L	Teeth interval [mm] Z	No. of teeth	Order no.	Areas of application
90	0,8	32 tpi*	001 974 445	All thin sheets, Steel sheet up to 1.0 mm
90	1,0	24 tpi*	001 974 446	Steel sheet up to 3.0 Aluminium up to 1.5 mm Chrome steel sheet up to 1.5 mm
90	1,4	18 tpi*	001 974 447	Nonferrous heavy metal, aluminium, wood, fixing plate

* tpi = tooth per inch