

CLASSIC DIPROFIL MACHINES

THE ORIGINAL RECIPROCATING POLISHING/FILING MACHINES



The Classic polishing/filing machines, which have been the preferred choice for tool and mould-makers for more than 60 years, incorporate a comfortable tool-holder to improve ergonomics and flexibility.

The Classic machine, with its rigid and functional design, facilitates any filing, lapping, honing or polishing application. Having a reciprocating (back and forth) movement, the Classic machines are an excellent alternative and complement to rotary hand-pieces.

Advantages with the Classic machines:

- ✓ Made in Sweden since 1950
- ✓ Worldwide service network
- ✓ Very simple handling/operation
- ✓ Adjustable stroke length 0 – 6 mm
- ✓ Well-known and trusted design
- ✓ Available for/with a wide variety of drive sources

TECHNICAL DATA

Air-Driven Machine - FPL/R



Drive source:	This model is driven by compressed and oil mist lubricated air. PLEASE NOTE! The built-in air-motor may be damaged, if operated with unlubricated air.
Connection:	The Diprofil quick-coupling HSL-M and fog lubrication unit MFB should be used for connection to your compressed air system. PLEASE NOTE! Protect the air inlet from dust and dirt, when not in operation.
Oil consumption:	Minimum 30mm ³ /min at maximum speed (about 2 drops/min.)
Air pressure:	4bar (58psi).
Air consumption:	Approx. 65 l/min at 8.000 strokes/min.
Speed (maximum):	8.000 strokes/min.
Speed (recommended):	5.000 – 6.000 strokes/min
Stroke length:	0 – 6mm.
Stroke length (recommended):	0,5 - 3 mm.
Tool-holder:	Ø 6,4 mm. (suitable for tool shanks Ø 2 - Ø 6,4 mm)
Weight of inserted tool:	Maximum: 26 g. Recommended: 1-15 g.
Applied feed force:	2-12 N (Depending on inserted tool type and dimension.)
Machine weight:	Approx. 740g.
Noise level:	Not exceeding 70 dB(A) at 7.000 strokes/min. According to ISO 15744.
Vibration levels:	See information on next page.
Item No:	FPL/R

Flexible Shaft-Driven Machine - FPK/R

Slip-joint connection (European Standard)



Drive source:	This model is driven by an electrical motor with speed control and a flexible shaft with slip-joint connection (European standard) e.g. Diprofil type DSE-47. Corresponding motors of other brands may also be used.
Speed (maximum):	8.000 strokes/min.
Speed (recommended):	5.000 – 6.000 strokes/min
Stroke length:	0 – 6 mm.
Stroke length (recommended):	0,5 - 3 mm.
Tool holder:	Ø 6,4 mm. (suitable for tool shanks Ø 2 - Ø 6,4 mm)
Weight of inserted tool:	Maximum: 26 g. Recommended: 1-15 g.
Applied feed force:	2-12 N (Depending on inserted tool type and dimension.)
Machine weight:	Approx. 575 g. (depending on model.)
Noise level:	Not exceeding 70 dB(A) at 7.000 strokes/min. According to ISO 15744.
Vibration levels:	See information on next page.
Item No:	FPK/R

Flexible Shaft-Driven Machines - FPH/R & FPS/R

Ball-joint connection (US standard, Square-Hole or Key-Hole)



Drive source:	These models are driven by an electrical motor with speed control and a flexible shaft with ball-joint connection (US standard) e.g. Diprofil type DSE-47. Corresponding motors of other brands may also be used.
Speed (maximum):	8.000 strokes/min.
Speed (recommended):	5.000 – 6.000 strokes/min
Stroke length:	0 – 6 mm.
Stroke length (recommended):	0,5 - 3 mm.
Tool holder:	Ø 6,4 mm. (suitable for tool shanks Ø 2 - Ø 6,4 mm)
Weight of inserted tool:	Maximum: 26 g. Recommended: 1-15 g.
Applied feed force:	2-12 N (Depending on inserted tool type and dimension.)
Machine weight:	Approx. 575 g. (depending on model.)
Noise level:	Not exceeding 70 dB(A) at 7.000 strokes/min. According to ISO 15744.
Vibration levels:	See information on next page.
Item No:	FPH/R (Square-Hole) FPS/R (Key-Hole)

Micro Motor-Driven Machines - FPM/R & FPM/ERJ



Drive source:	These models are driven by a built-in micro motor, which is connected to and controlled by the DIPROFIL DPU-3, TPU-20 or corresponding power unit.
Output:	DC 0-32V
Speed (maximum):	Approx. 7.000 strokes/min. (depending on the power unit)
Speed (recommended):	5.000 – 6.500 strokes/min.
Stroke length:	0 – 6 mm.
Stroke length (recommended):	0,5 - 3 mm.
Tool-holder:	Ø 6,4 mm. (suitable for tool shanks Ø 2 - Ø 6,4 mm)
Weight of inserted tool:	Maximum: 26 g. Recommended: 1-15 g.
Applied feed force:	2-12 N (Depending on inserted tool type and dimension.)
Machine weight:	715 g.
Noise level:	Not exceeding 70 dB(A) at 7.000 strokes/min. According to ISO 15744.
Vibration levels:	See information below.
Item No:	FPM/R (Diprofil Connector) FPM/ERJ (Eneska 3-1 Connector)

Machines with Micro Motor Connection - FPT/ER & FPT/NR

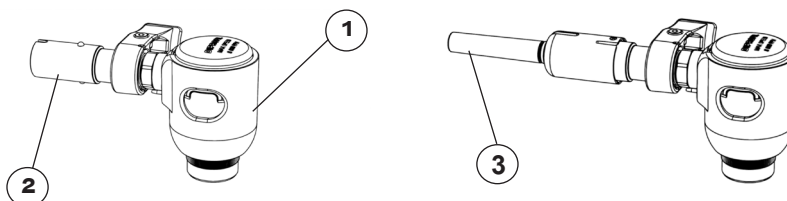


Drive source:	These models should be driven by motors with low maximum rpm and high torque only. Exceptions can be made for motors with high torque at low rpm.
Speed (maximum):	Approx. 7.000-8.000 strokes/min (depending on the power unit)
Speed (recommended):	5.000 – 6.500 strokes/min
Stroke length:	0 – 6 mm.
Stroke length (recommended):	0,5 - 3 mm.
Tool-holder:	Ø 6,4 mm (suitable for tool shanks Ø 2 - Ø 6,4 mm)
Weight of inserted tool:	Maximum: 26 g. Recommended: 1-15 g.
Applied feed force:	2-12 N (Depending on inserted tool type and dimension.)
Machine weight:	Approx. 560 g (without micro motor).
Noise level:	Not exceeding 70 dB(A) at 7.000 strokes/min. According to ISO 15744.
Vibration levels:	See information below.
Item no:	FPT/ER (for Eneska 4-1 and NSK ESPERT) FPT/NR (for Eneska 3-1, 3-2 and NSK EMax-Evolution)

Measured vibration emission values (m/s²):

The uncertainty value (K) is also expressed in m/s² and is intended to compensate for different batches, production variations etc.

Hand position 1:	6,02 m/s ²	(K = 1,09 m/s ²)
Hand position 2:	5,79 m/s ²	(K = 1,15 m/s ²)
Hand position 3:	13,37 m/s ²	(K = 1,82 m/s ²)



DIPROFIL[®]

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about other Diprofil products

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