

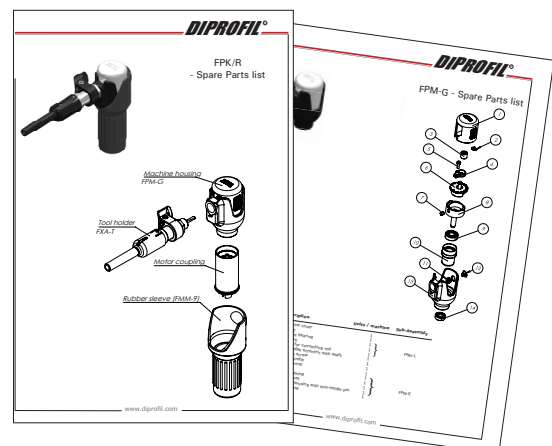
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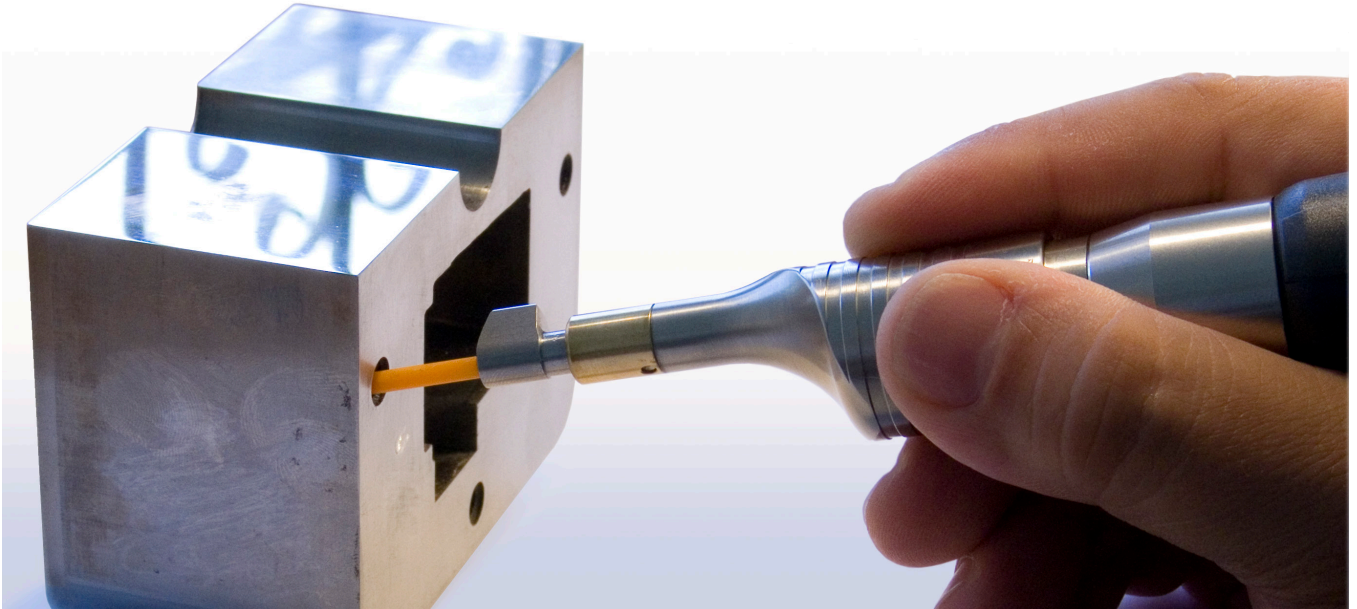
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FOR INFORMATION ABOUT SPARE
PARTS FOR THE DIFFERENT DIPROFIL
MACHINES AND UNITS

PLEASE VISIT www.diprofil.com



DIAMANTPRODUKTER AB



Company Presentation

Diprofil/Diamantprodukter AB has more than 60 years of genuine experience in machines and tools for tool-makers, mould makers and other fine mechanical precision work. We offer a wide range of products for grinding, polishing and finishing applications including Polishing/Filing machines, Diamond and CBN tools, Lapping and Honing tools, Polishing stones etc.

On our up to date diamond department we manufacture diamond tools in all kinds of shapes and grit sizes including files, grinding pins and points, grinding wheels, cutting discs etc. We also offer customer specific diamond and CBN tools according to special requirements.

Contact Information

Diamantprodukter AB
Box 8093
SE-163 08, Spånga
SWEDEN

Delivery/Visiting address:
Finspångsgatan 42
SE-163 53 Spånga

Phone: +46-(0)8-546 509 60
Fax: +46-(0)8-546 509 61

E-mail: info@diprofil.se
sales@diprofil.se
Web: www.diprofil.com

Sales & Marketing:

Mikael Skoglund
Sales & Marketing Manager
E-mail: mikael.skoglund@diprofil.se
Phone: +46-(0)8-546 509 28

Denisa Albu
Sales & Marketing Assistant
E-mail: denisa.albu@diprofil.se
Phone: + 46 (0)8-546 509 08

Order and Shipping:

E-mail: order@diprofil.se
Phone: +46-(0)8-546 509 62
Fax: +46-(0)8-546 509 63



DI-PRO[®] POLISHING/FILING MACHINES - MARK II

Maximum Efficiency – Minimal Vibrations



The Di-PRO[®] machine is the flagship of the Diprofil family. With its low levels of potentially harmful vibrations it is the natural choice when operating the machine for long hours. It is ideal for a wide variety of applications such as filing, lapping, honing, de-burring and polishing. With its reciprocating (back and forth) movement the Di-PRO[®] machines are an excellent alternative and compliment to rotary handpieces.

Advantages with the Di-PRO[®] machines:

- Very low levels of potentially harmful vibrations
- Made in Sweden
- Worldwide service network
- Adjustable stroke length 0 – 6 mm
- Well-known and trusted design
- Available for/with a wide variety of drive sources

With the new Mark II versions the operator will also be able to take advantage of the following attributes:

- Improved ergonomics
- No moving parts on the tool-holder
- Even lower risk of sustaining vibration related injuries*
- The same function as with the protective finger sleeve but without the cost
- More lightweight compared to previous versions
- Facilitates and reduces the cost for service and maintenance
- Includes an extension pipe for longer tools

*It's a well-known fact that it's actually more common for operators to sustain vibration related injuries in the hand guiding the tool rather than in the hand holding the actual machine. The new tool-holder will improve guidance of the tool and the risk of injuries as there is no longer any need for putting your fingers on moving tools and/or machine parts.

”The same features as the old version but without the need of buying the Protective Finger Sleeve as an accessory. A great improvement to an already good product!”

– Kristian Nielsen, Mould polisher at Polérteknik ApS, Denmark

FLEXIBLE SHAFT-DRIVEN MACHINE - FXK-N

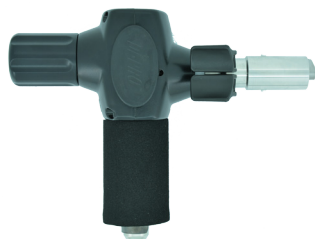
Slip-joint (European Standard)



| | |
|---------------------------------|---|
| Drive source: | The FXK-N 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): | 7.000 rpm. |
| Speed (recommended): | 5.000 – 6.000 rpm |
| Stroke length: | 0 – 6 mm. (recommended 0,5 – 3 mm). NOTE! At stroke lengths exceeding 4 mm we recommend a maximum speed of 5.000 rpm. |
| Tool holder: | Ø 6,4 mm. (suitable for tool shanks Ø 2 - Ø 6,4 mm) |
| Weight of inserted tool: | Maximum 34 g. Recommended 1-15 g |
| Applied feed force: | 2-12N (depending on inserted tool type and dimension). |
| Machine weight: | Approx. 700 g. (depending on model) |
| Noise level: | Not exceeding 75 dB(A) at 7.000 rpm. |
| Vibration levels: | See information on next page. |
| Item No: | FXK-N |

FLEXIBLE SHAFT-DRIVEN MACHINES - FXH-N & FXS-N

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



| | |
|---------------------------------|---|
| Drive source: | The FXH-N and FXS-N 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): | 7.000 rpm. |
| Speed (recommended): | 5.000 – 6.000 rpm |
| Stroke length: | 0 – 6 mm. (recommended 0,5 – 3 mm). NOTE! At stroke lengths exceeding 4 mm we recommend a maximum speed of 5.000 rpm. |
| Tool holder: | Ø 6,4 mm. (suitable for tool shanks Ø 2 - Ø 6,4 mm) |
| Weight of inserted tool: | Maximum 34 g. Recommended 1-15 g |
| Applied feed force: | 2-12N (depending on inserted tool type and dimension). |
| Machine weight: | Approx. 700 g. (depending on model) |
| Noise level: | Not exceeding 75 dB(A) at 7.000 rpm. |
| Vibration levels: | See information on next page. |
| Item No: | FXH-N (Square-Hole) FXS-N (Key-Hole) |

*Learn more about the advantages and possibilities with using the low-vibrating **Di-PRO** polishing/filing machines and protective finger sleeves from Diprofil.*



Visit www.diprofil.com or scan the QR-code to watch the **Di-PRO** Promotion Video

Air-Driven machine - FXL-N



Drive source: The FXL-N model is driven by compressed and oil mist lubricated air.
PLEASE NOTE! The built-in air-motor may be damaged, if operated with un-lubricated 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 30 mm³/min. at maximum speed (about 2 drops/min.).

Air pressure: **4 bar (57 psi).**

Air consumption: Approx. 60 l/min at 7.000 rpm

Speed (maximum): 7.000 rpm.

Speed (recommended): **5.000 – 6.000 rpm**

Stroke length: 0 – 6 mm (recommended 0,5 – 3 mm). **NOTE! At stroke lengths exceeding 4 mm we recommend a maximum speed of 5.000 rpm.**

Tool-holder: Ø 6,4 mm. (suitable for tool shanks Ø 2 - Ø 6,4 mm)

Weight of inserted tool: Maximum 34 g. Recommended 1-15 g

Applied feed force: 2-12 N (depending on inserted tool type and dimension).

Machine weight: Approx. 900 g.

Noise level: Not exceeding 75 dB(A) at 7.000 rpm

Vibration levels: See information below.

Item No: **FXL-N**

Micro motor-driven machines - FXM-N (Diprofil connector) and FXM/EJ-N (Eneska 3-1 connector)



Drive source: The FXM-N and FXM/EJ-N models are driven by a built-in micro-motor, which is connected to, and controlled by, the power unit DIPROFIL DPU-3 or TPU-20 or corresponding power units.

Output: **DC 0-32V. (The needed voltage at a certain rpm is depending on the micro motor and the power unit).**

Speed (maximum): 7.000 rpm.

Speed (recommended): **5.000 – 6.000 rpm**

Stroke length: 0 – 6 mm (recommended 0,5 – 3 mm). **NOTE! At stroke lengths exceeding 4 mm we recommend a maximum speed of 5.000 rpm.**

Tool-holder: Ø 6,4 mm (suitable for tool shanks Ø 2 - Ø 6,4 mm)

Weight of inserted tool: Maximum 34 g. Recommended 1-15 g

Applied feed force: 2-12 N (depending on inserted tool type and dimension).

Machine weight: Approx. 860 g.

Noise level: Not exceeding 75 dB(A) at 7.000 rpm.

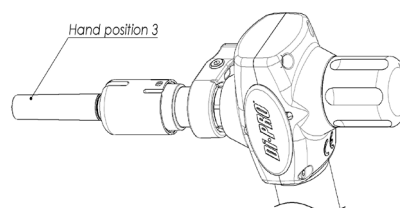
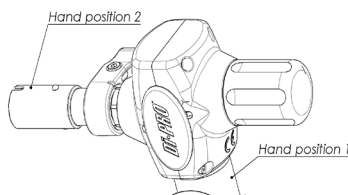
Vibration levels: See information below.

Item No: **FXM-N (Diprofil connector)**
FXM/EJ-N (Eneska 3-1 connector)

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: | 1,55 m/s ² | (K = 0,65 m/s ²) |
| Hand position 2: | 5,08 m/s ² | (K = 1,00 m/s ²) |
| Hand position 3: | 3,64 m/s ² | (K = 0,86 m/s ²) |



Di-PRO[®] MACHINE SETS - MARK II

A SELECTION OF DIPROFIL POLISHING/FILING MACHINES ARE NOW AVAILABLE IN SETS TOGETHER WITH SUITABLE POWER UNITS AND HANDPIECES AS SPECIFIED BELOW:

Di-PRO[®] SET LARGE

The largest and most versatile set consisting of the low-vibrating Di-PRO machine with 6.4 mm tool-holder, Twin power unit type TPU-20 and the brushless rotary handpiece type C-HPM-BL2.

| Specifications | Item no. |
|--|-----------|
| Di-PRO machine type FXM-N with 6.4 mm tool-holder, TPU-20-220V power unit and brushless rotary handpiece type C-HPM-BL2. | FXM-SET-L |



Di-PRO[®] SET MEDIUM

Same as the Di-PRO set large but without the rotary handpiece.

| Specifications | Item No. |
|--|-----------|
| Di-PRO machine type FXM-N with 6.4 mm tool-holder and power unit type TPU-20-220V. | FXM-SET-M |



Di-PRO[®] SET SMALL

The most basic set including the low-vibrating Di-PRO machine with 6.4 mm tool-holder and the small power unit type DPU-3.

| Specifications | Item No. |
|--|-----------|
| Di-PRO machine type FXM-N with 6.4 mm tool-holder and power unit type DPU-3. | FXM-SET-S |



CLASSIC DIPROFIL MACHINES - MARK II

ORIGINAL RECIPROCATING POLISHING/FILING MACHINE



The Classic polishing/filing machines, which have been the preferred choice for tool and mould-makers for more than 60 years, are now available in Mark II editions incorporating a new tool-holder to improve ergonomics and flexibility.

The Classic machine, with its rigid and ergonomic design, facilitates any filing, lapping, honing or polishing application. With their reciprocating (back and forth) movement, the Classic machines are an excellent alternative and complement to rotary handpieces.

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

With the new Mark II versions the operator will also be able to take advantage of the following attributes:

- Improved ergonomics
- No moving parts on the tool-holder
- Lower risk of sustaining vibration related injuries*
- The same function as with the protective finger sleeve but without the cost
- More lightweight compared to previous versions
- Facilitates and reduces the cost for service and maintenance
- Includes an extension pipe for longer tools

*It's a well-known fact that it's actually more common for operators to sustain vibration related injuries in the hand guiding the tool rather than in the hand holding the actual machine. The new tool-holder will improve guidance of the tool and the risk of injuries as there is no longer any need for putting your fingers on moving tools and/or machine parts.

”The same features as the old version but without the need of buying the Protective Finger Sleeve as an accessory. A great improvement to an already good product!”

– Kristian Nielsen, Mould polisher at Polérteknik ApS, Denmark

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 un-lubricated 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 (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

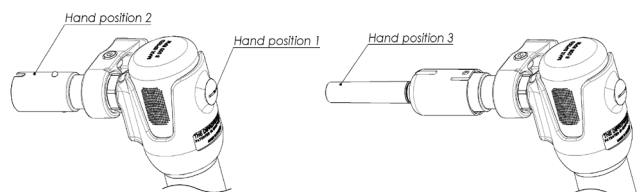


| | |
|-------------------------------------|---|
| Drive source: | These models should be driven by motors with low maximum rpm and high torque only. Exceptions can be made for motors with high torque at low rpm. |
| Speed (maximum): | Approx. 7.000-8.000 strokes/min (depending on the power unit) |
| 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) |



CLASSIC MACHINE SETS - MARK II

A SELECTION OF DIPROFIL POLISHING/FILING MACHINES ARE NOW AVAILABLE IN SETS TOGETHER WITH SUITABLE POWER UNITS AND HANDPIECES AS SPECIFIED BELOW:

CLASSIC SET LARGE

The largest and most versatile set consisting of the Classic machine with 6.4 mm tool-holder, Twin power unit type TPU-20 and the brushless rotary handpiece type C-HPM-BL2.

| Specifications | Item no. |
|---|-----------|
| Classic machine type FPM/R with 6.4 mm tool-holder, TPU-20-220V power unit and brushless rotary handpiece type C-HPM-BL2. | FPM-SET-L |



CLASSIC SET MEDIUM

Same as the Classic set large but without the rotary handpiece.

| Specifications | Item No. |
|---|-----------|
| Classic machine type FPM/R with 6.4 mm tool-holder and power unit type TPU-20-220V. | FPM-SET-M |



CLASSIC SET SMALL

The most basic set including the Classic machine with 6.4 mm tool-holder and the small power unit type DPU-3.

| Specifications | Item No. |
|---|-----------|
| Classic machine type FPM/R with 6.4 mm tool-holder and power unit type DPU-3. | FPM-SET-S |



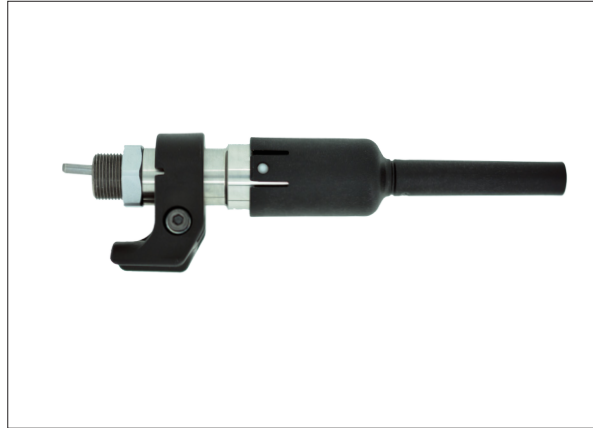
MARK II TOOL-HOLDER - FXA-T/P

The new tool-holder that's been incorporated on all the Mark II versions of the Classic and the Di-PRO polishing/filing machines is also available as a separate item for those who wish to upgrade their existing machines. As there are no moving outer parts on the new tool-holder it's possible to guide the actual tool without having to put your hands and/or fingers on moving tools and/or machine parts. As the tool-holder comes with an extension pipe it's even possible to benefit from the same advantages when using very long tools of certain dimensions, i.e. in hard to reach areas such as narrow spaces and deep cavities. The extension pipe can easily be cut to the desired length to fit different tools and applications.

Please note that this tool-holder is only compatible with old machines fitted with a 6.4 mm tool-holder.



Tool-holder without the extension pipe



Tool-holder with the extension pipe assembled



Tool-holder on which the extension pipe has been cut to the shortest possible length.



The tool-holder comes in a handy plastic box including all the necessary tools and a manual on how to replace and attach it to an existing machine.

Tool-holder: Ø 6,4 mm. (suitable for tool shanks Ø 2 - Ø 6,4 mm)
Compatibility: Fits all the Mark II versions of both the Classic and the Di-PRO machine as well as previous versions as long as they are fitted with a 6.4 mm tool-holder.
Item No: **FXA-T/P (complete tool-holder including one extension pipe)**
FXA-104 (extension pipe only)

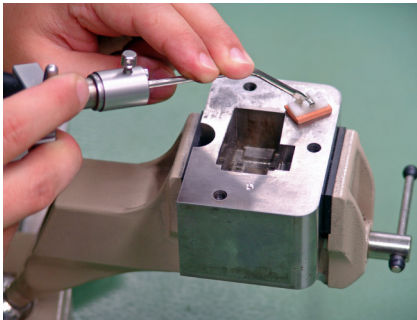
Diprofil Protective Finger Sleeves

To further emphasize our focus on the importance of reducing potentially harmful vibrations we are now introducing the new Diprofil Protective Finger Sleeve.

It's a well known fact that it's actually more common for operators to sustain vibration related injuries in the hand guiding the tool rather than in the hand holding the actual machine. With this in mind we developed the Diprofil protective finger sleeves. The finger sleeves will improve guidance of the tool as there is no longer any need for putting your fingers on moving tools and/or machine parts.

The finger sleeve is compatible with both the Classic and the low-vibrating Di-PRO polishing-/filing machines and comes with an extension rod for longer tools in two different versions depending on the size of the original tool-holder (Ø 3,5 or 6,4 mm). **Please note that these finger sleeves do not fit the Mark II versions.** For more information on each specific item please see the technical information below.

The old (wrong) way....



The new (right) way!



The two different models available for either 3,5 or 6,4 mm tool-holders are the following:

- PFS-3,5 Compatible with both the Classic and the low-vibrating Di-PRO polishing-/filing machines fitted with 3,5 mm tool-holders.
- PFS-6,4 Compatible with both the Classic and the low-vibrating Di-PRO polishing-/filing machines fitted with 6,4 mm tool-holders.

Both versions comes in a handy box with the necessary tools and an instruction on how to attach it to your machine.

Protective Finger Sleeve for the Ø 3,5 mm tool-holder

Outer Ø: 23 mm
Length (without extension rod): 34 mm
Length (including extension rod): 91 mm
Maximum tool shank Ø: 3,5 mm
Weight (without extension rod): 33 g
Weight (including extension rod): 50 g

Item number: PFS-3,5 (incl extension rod FSH-3)
FSH-3 (extension rod)



FSH-3



PFS-3,5



Protective Finger Sleeve for the Ø 6,4 mm tool-holder

Outer Ø: 26 mm
Length (without extension rod): 48 mm
Length (including extension rod): 105 mm
Maximum tool shank Ø: 6,4 mm
Weight (without extension rod): 49 g
Weight (including extension rod): 66 g

Item number: PFS-6,4 (incl extension rod FSH-3)
FSH-3 (extension rod)



FSH-3



PFS-6,4



DIPROMINI

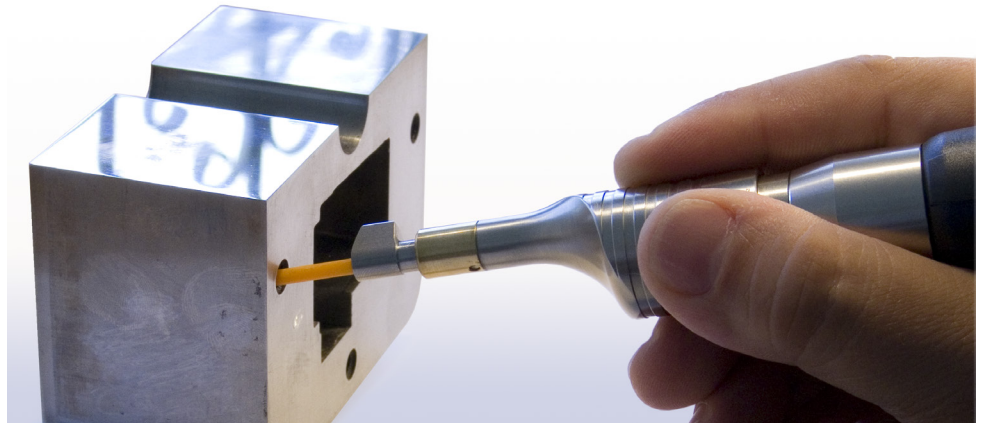
DIPROFIL MINI POLISHING/FILING MACHINE

The natural choice when working in narrow and confined spaces. The compact and handy dimension makes it excellent for polishing and finishing applications on small and hard to reach surfaces. Using the Dipromini gives you total control even when working in the narrowest spaces on a delicate work-piece.

Dipromini machines are available with stroke length 0,5, 1,0 or 1,5 mm and connections for a wide variety of drive-sources.

For lowest possible vibration levels we recommend using light weight tools and tool-holders such as the THFS-1 and the THPS-3 (page 63).

All Dipromini machines are delivered in a handy tool-box with the necessary accessories.



Flexible-Shaft Drive - Slip Joint Connection

The Diprofil Mini Polishing/Filing machine for flexible-shaft drive is available for connection to Slip Joint. There are three basic models with 0,5 mm (FMR/S5), 1,0 mm (FMR/S10) or 1,5 mm (FMR/S15) stroke length.

Technical data

Tool holder: max Ø 3,6 mm
 Stroke length: 0,5, 1,0 or 1,5 mm
 Speed: max 12.000 rpm recommended: 5.000 - 11.000 rpm
 Dimension: Ø 24 mm
 Weight: approx. 120 g
 Noise: < 70 dB(A) at 9.000 rpm
 Vibrations: stroke 0,5 mm: <2,5 m/s², stroke 1,0 mm: 1,5 - 3 m/s², stroke 1,5 mm: 1,5 - 4 m/s²

Frequency weighed hand/arm vibration, principally in accordance with ISO 28927-8. For further details, see diagram and other information in the corresponding Operation Guide.



| Stroke length | Item number |
|---------------|-------------|
| 0,5 mm | FMR/S5 |
| 1,0 mm | FMR/S10 |
| 1,5 mm | FMR/S15 |

Flexible-Shaft Drive - Ball Joint Connection

The Diprofil Mini Polishing/Filing machine for flexible-shaftdrive is available for connection to Ball Joint. There are three basic models with 0,5 mm (FMR/B5), 1,0 mm (FMR/B10) or 1,5 mm (FMR/B15) stroke length. Technical data is the same as above.

| Stroke length | Item number |
|---------------|-------------|
| 0,5 mm | FMR/B5 |
| 1,0 mm | FMR/B10 |
| 1,5 mm | FMR/B15 |



Micro Motor Connection - Gesswein, Argofile & Uhandy

The Dipromini Filing Machine for Gesswein, Argofile and Uhandy connection can be supplied with three different stroke lengths: 0,5 mm (FMR/G5), 1,0 mm (FMR/G10) or 1,5 mm (FMR/G15). Technical data is the same as above.

| Stroke length | Item number |
|---------------|-------------|
| 0,5 mm | FMR/G5 |
| 1,0 mm | FMR/G10 |
| 1,5 mm | FMR/G15 |



Micro Motor Connection - NSK EMax Evolution, Eneska 3-1 and Eneska 3-2



The Dipromini Filing Machine for NSK EMax Evolution, Eneska 3-1 or 3-2 connection can be supplied with three different stroke lengths: 0,5 mm (FMR/N5), 1,0 mm (FMR/N10) or 1,5 mm (FMR/N15).

Technical data

Tool holder: max Ø 3,6 mm
 Stroke length: 0,5, 1,0 or 1,5 mm
 Speed: max 12.000 rpm recommended: 5.000 - 11.000 rpm
 Dimension: Ø 24 mm
 Weight: approx. 120 g
 Noise: < 70 dB(A) at 9.000 rpm
 Vibrations: stroke 0,5 mm: <2,5 m/s², stroke 1,0 mm: 1,5 - 3 m/s²,
 stroke 1,5 mm: 1,5 - 4 m/s²

Frequency weighed hand/arm vibration, principally in accordance with ISO 28927-8. For further details, see diagram and other information in the corresponding Operation Guide.

| Stroke length | Item number |
|---------------|-------------|
| 0,5 mm | FMR/N5 |
| 1,0 mm | FMR/N10 |
| 1,5 mm | FMR/N15 |

Micro Motor Connection - NSK (Espert) and Eneska 4-1



The Dipromini Filing Machine for NSK and Eneska 4-1 connection can be supplied with three different stroke lengths: 0,5 mm (FMR/E5), 1,0 mm (FMR/E10) or 1,5 mm (FMR/E15).

Technical data

Tool holder: max Ø 3,6 mm
 Stroke length: 0,5, 1,0 or 1,5 mm
 Speed: max 12.000 rpm recommended: 5.000 - 11.000 rpm
 Dimension: Ø 24 mm
 Weight: approx. 120 g
 Noise: < 70 dB(A) at 9.000 rpm
 Vibrations: stroke 0,5 mm: <2,5 m/s², stroke 1,0 mm: 1,5 - 3 m/s²,
 stroke 1,5 mm: 1,5 - 4 m/s²

Frequency weighed hand/arm vibration, principally in accordance with ISO 28927-8. For further details, see diagram and other information in the corresponding Operation Guide.

| Stroke length | Item number |
|---------------|-------------|
| 0,5 mm | FMR/E5 |
| 1,0 mm | FMR/E10 |
| 1,5 mm | FMR/E15 |

Micro Motor Connection - Diprofil Motor type HPM-B1



Dipromini polishing/filing Machine with connection for Diprofil micro motor type HPM-B1 which should be connected to, and controlled by, the DIPROFIL DPU-3, TPU-20 or corresponding power units. Available with three different stroke lengths: 0,5 mm (FMR/D5), 1,0 mm (FMR/D10) or 1,5 mm (FMR/D15).

Technical data

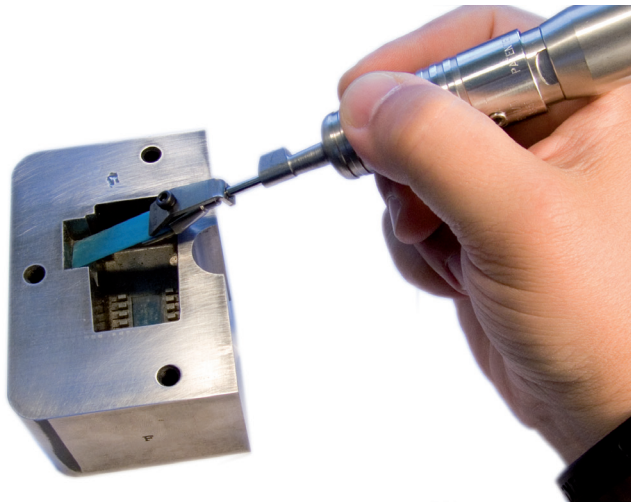
Tool holder: max Ø 3,6 mm
 Stroke length: 0,5, 1,0 or 1,5 mm
 Speed: max 12.000 rpm recommended: 5.000 - 11.000 rpm
 Dimension: Ø 24 mm
 Weight: approx. 120 g
 Noise: < 70 dB(A) at 9.000 rpm
 Vibrations: stroke 0,5 mm: <2,5 m/s², stroke 1,0 mm: 1,5 - 3 m/s²,
 stroke 1,5 mm: 1,5 - 4 m/s²

Frequency weighed hand/arm vibration, principally in accordance with ISO 28927-8. For further details, see diagram and other information in the corresponding Operation Guide.

| Stroke length | Item number |
|---------------|-------------|
| 0,5 mm | FMR/D5 |
| 1,0 mm | FMR/D10 |
| 1,5 mm | FMR/D15 |

DIPROMINI TRANSVERSE

DIPROFIL TRANSVERSE MINI POLISHING/FILING MACHINE



The Dipromini Transverse with its swinging side to side movement is ideal when working on difficult surfaces such as narrow shoulders and ribs. The side to side movement also makes it possible to polish the bottom surface in i.e. cavities without damaging the side walls.

Variable stroke between 0-4 mm, that is easy to change by use of a hexagon key. The small and handy dimension improves control and effectiveness for polishing and finishing work. For the lowest possible vibration levels we recommend using light weight tools and tool-holders such as the THFS-1 and the THPS-3 (page 63).

All Dipromini Transverse machines are delivered in a handy tool-box with the necessary accessories.

Flexible-shaft Drive - Slip Joint Connection



The Diprofil Transverse Mini Polishing/Filing machine for flexible-shaft drive is available for connection to Slip-joint (FMV/S).

Technical data

Tool holder: max \varnothing 3,6 mm
Stroke length: Variable stroke 0-4 mm (measured 60 mm from the machine housing)
Speed: max 12.000 rpm (at max 2 mm stroke length) recommended 5.000-11.000 rpm
Dimension: \varnothing 24 mm
Weight: 235 g
Noise: < 78 dB(A) at 12.000 rpm
Vibrations: 1,5 - 3,5 m/s²
Frequency weighed hand/arm vibration, principally in accordance with ISO 28927-8.
For further details, see diagram and other information in the corresponding Operation Guide.

Item number: FMV/S

Flexible-shaft Drive - Ball Joint Connection



The Diprofil Transverse Mini Polishing/Filing machine for flexible-shaft drive is available for connection to Ball-joint (FMV/B). Technical data is the same as or for FMV/S.

Item number: FMV/B

Micro Motor Connection - NSK EMax Evolution, Eneska 3-1 and Eneska 3-2

The Diprofil Transverse Mini Polishing/Filing machine is available for NSK EMax Evolution, Eneska 3-1 and Eneska 3-2 connection (FMV/N).

Technical data

Tool holder: max Ø 3,6 mm
Stroke length: variable stroke 0-4 mm (measured 60 mm from the machine housing)
Speed: max 12.000 rpm (at max 2 mm stroke length) recommended 5.000-11.000 rpm
Dimension: Ø 24 mm
Weight: 205 g
Noise: < 78 dB(A) at 12.000 rpm
Vibrations: 1,5 - 3,5 m/s²

Frequency weighed hand/arm vibration, principally in accordance with ISO 28927-8. For further details, see diagram and other information in the corresponding Operation Guide.

Item number: FMV/N



Micro Motor Connection - NSK and Eneska 4-1

The Diprofil Transverse Mini Polishing/Filing machine is available for NSK and Eneska 4 connection (FMV/E).

Technical data

Tool holder: max Ø 3,6 mm
Stroke length: variable stroke 0-4 mm (measured 60 mm from the machine housing)
Speed: max 12.000 rpm (at max 2 mm stroke length) recommended 5.000-11.000 rpm
Dimension: Ø 24 mm
Weight: 210 g
Noise: < 78 dB(A) at 12.000 rpm
Vibrations: 1,5 - 3,5 m/s²

Frequency weighed hand/arm vibration, principally in accordance with ISO 28927-8. For further details, see diagram and other information in the corresponding Operation Guide.

Item number: FMV/E



Micro Motor Connection - Gesswein, Argofile & Uhandy

The Diprofil Transverse Mini Polishing/Filing machine is available for Gesswein, Argofile and Uhandy connection (FMV/G). Technical data is the same as for FMV/E.

Item number: FMV/G



Micro Motor Connection - Diprofil Motor type HPM-B1

Dipromini Transverse polishing/filing machine with connection for Diprofil micro motor type HPM-B1 (FMV/D) which should be connected to, and controlled by, the DIPROFIL DPU-3, TPU-20 or corresponding power units.

Technical data

Tool holder: max Ø 3,6 mm
Stroke length: variable stroke 0-4 mm (measured 60 mm from the machine housing)
Speed: max 12.000 rpm (at max 2 mm stroke length) recommended 5.000-11.000 rpm
Dimension: Ø 24 mm
Weight: 195 g
Noise: < 78 dB(A) at 12.000 rpm
Vibrations: 1,5 - 3,5 m/s²

Frequency weighed hand/arm vibration, principally in accordance with ISO 28927-8. For further details, see diagram and other information in the corresponding Operation Guide.

Item number: FMV/D



DIPROMINI MACHINE SETS

A SELECTION OF DIPROMINI AND DIPROMINI TRANSVERSE MACHINES ARE NOW AVAILABLE IN SETS TOGETHER WITH SUITABLE MICRO-MOTORS AND POWER UNITS.

DIPROMINI SET

Set including the Dipromini polishing-/filling machine with either 0.5, 1.0 or 1.5 mm stroke length, suitable micro-motor type HPM-B1 and power unit type DPU-3.

| Specifications | Item No. |
|---|-------------|
| Dipromini machine with 0.5 mm stroke length, micro-motor type HPM-B1 and power unit type DPU-3. | FMR-SET-5S |
| Dipromini machine with 1.0 mm stroke length, micro-motor type HPM-B1 and power unit type DPU-3. | FMR-SET-10S |
| Dipromini machine with 1.5 mm stroke length, micro-motor type HPM-B1 and power unit type DPU-3. | FMR-SET-15S |



DIPROMINI TRANSVERSE SET

Set including the Dipromini Transverse machine, suitable micro-motor type HPM-B1 and power unit type DPU-3.

| Specifications | Item No. |
|--|-----------|
| Dipromini Transverse machine, micro-motor type HPM-B1 and power unit type DPU-3. | FMV-SET-S |



POWER UNIT – ROTARY HANDPIECE SET

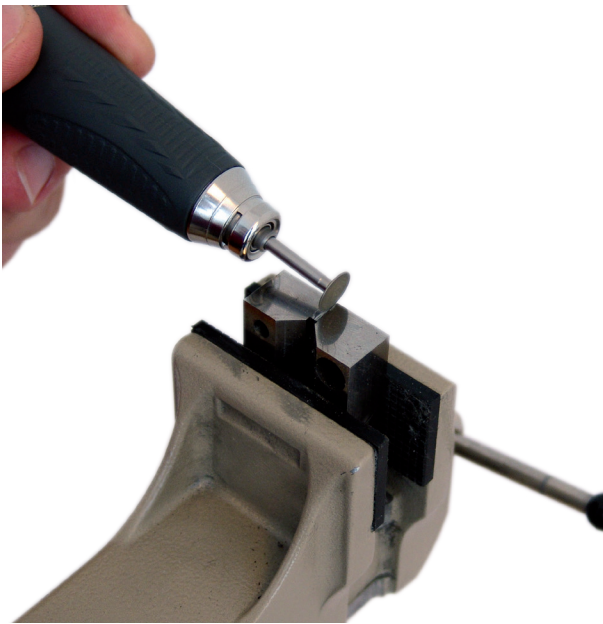
A very basic and price efficient set consisting of power unit type DPU-3 and the rotary handpiece type C-HPM-B1.

| Specifications | Item No. |
|---|-----------|
| Power unit type DPU-3 and rotary handpiece type C-HPM-B1. | DPU-SET-S |



ROTARY HANDPIECES

FOR EFFICIENT POLISHING AND FINISHING OPERATIONS



Rotary handpieces for efficient grinding, polishing and finishing operations with tools such as diamond and CBN pins, felt bobs and wood bobs. All rotary handpieces come with the necessary tools and accessories.

Flexible-Shaft Drive - Slip Joint Connection

Straight Rotary Handpiece supplied with collet \varnothing 3,0 mm (HSE-D3,0).



Technical data

Speed: Max. 22.000 rpm
Weight: 110 g
Noise: < 70 db(A) at 15.000 rpm
Vibrations: < 2,5 m/s²

| Collet | Item number |
|----------------------|-------------|
| \varnothing 3,0 mm | HSE/D3,0 |

Flexible-Shaft Drive – Slip Joint Connection



Right-angle Handpiece with ergonomic rubber grip supplied with collet Ø 3,0 mm (RSH-31300/R). Optional Ø 2,35 mm collet available as accessory.

Technical data

Collet: Ø 3,0 mm
Speed: max. 18.000 rpm
Weight: 170 g
Dimensions: L165 x Ø 26 mm (head Ø 17 x 27 mm)
Noise: < 75 db(A) at 18.000 rpm
Vibrations: < 2,5 m/s²

Item number: RSH-31300/R

Flexible-Shaft Drive - Slip Joint Connection



Straight Handpiece with ergonomic rubber grip including collet Ø 3,0 mm (RSH-20/R). Optional collets Ø 2,35, Ø 6,0, Ø 1/8" and Ø 1/4" available as accessories.

Technical data

Collet: Ø 3,0 mm
Speed: max. 22.000 rpm
Weight: 160 g
Dimensions: Ø 25 x 138 mm
Noise: < 70 db(A) at 15.000 rpm
Vibrations: < 2,5 m/s²

Item number: RSH-20/R

Rotary Handpiece - C-HPM-B1



Micro-motor driven high speed rotary handpiece with carbon brush motor for use together with power unit DPU-3 or twin power unit TPU-20. Features a quick change design for both the collet and the tool and is supplied with 3,0 mm collet. Optional 2,35 mm collet available.

Technical data

Speed: max. 38.000 rpm
Consumed power: 100 W
Torque: 4,0N cm
Weight: 285 g
Dimensions: L159 x Ø29,5 mm
Noise: < 70 db(A) at 38.000 rpm
Vibrations: < 2,5 m/s²

Item number: C-HPM-B1

Brushless Rotary Handpiece - C-HPM-BL1



Micro-motor driven rotary handpiece with brushless motor for use together with twin power unit TPU-20. Features a quick change design for both the collet and the tool and is supplied with 3,0 mm collet. Optional 2,35 mm collet available.

Technical data

| | |
|-----------------|--------------------------|
| Speed: | max. 40.000 rpm |
| Consumed power: | max. 230 W |
| Torque: | 8,5N cm |
| Weight: | 350 g |
| Dimensions: | L 159 x Ø27 mm |
| Noise: | < 70 db(A) at 40.000 rpm |
| Vibrations: | < 2,5 m/s ² |

Item number: C-HPM-BL1

Brushless Rotary Handpiece - C-HPM-BL2



Micro-motor driven high speed rotary handpiece with brushless motor for use together with twin power unit TPU-20. Features a quick change design for both the collet and the tool and is supplied with 3,0 mm collet. Optional 2,35 mm collet available.

Technical data

| | |
|-----------------|--------------------------|
| Speed: | max. 50.000 rpm |
| Consumed power: | max. 230 W |
| Torque: | 7,6N cm |
| Weight: | 350 g |
| Dimensions: | L 159 x Ø27 mm |
| Noise: | < 70 db(A) at 50.000 rpm |
| Vibrations: | < 2,5 m/s ² |

Item number: C-HPM-BL2

DRIVE SOURCES

DRIVE SOURCES, POWER UNITS AND MACHINE ACCESSORIES

Diprofil Power Unit - DPU-3



This compact and ergonomic Power Unit is designed for use together with dedicated rotary handpieces and micro-motor driven reciprocating Diprofil polishing/filing machines with carbon brush motors. It has high torque and electrical feedback circuitry. Other features include continuously variable speed, forward / reverse switch and automatic overload protection. Supplied with foot control type DPU-3-FC for optional speed adjustment.

Technical data

| | |
|------------------------|--------------------------|
| Input: | AC 110/220 V at 50/60 Hz |
| Output: | DC 0 – 32 V, 1,2 A |
| Power: | max. 100 W |
| Weight Power unit: | 1,7 kg |
| Dimensions Power unit: | W115 x D147 x H96 mm |
| Weight Foot control: | 585 g |

Item number: DPU-3

Micro-motor - HPM-B1

DC micro-motor adapted for Diprofil mini polishing/filing machines type FMR/D, FMV/D and rotary hand-piece type C-HPM-B1. For use together with power unit DPU-3 or twin power unit TPU-20.



Technical data

| | |
|-----------------|--------------------------|
| Speed: | max. 38.000 rpm |
| Consumed power: | 100 W |
| Torque: | 4,0N cm |
| Weight: | 190 g |
| Dimensions: | L100 x Ø29,5 mm |
| Noise: | < 70 db(A) at 38.000 rpm |
| Vibrations: | < 2,5 m/s ² |

Item number: HPM-B1

Diprofil Twin Power Unit - TPU-20

Twin power unit featuring dual control system for both brushless and carbon brush micro-motors (not simultaneously). Variable speed control by hand dial or the included foot control type TPU-20-FC. Supplied with handpiece cradle and a convenient magnetic tool holder.



- Digital display showing the speed in rpm
- Maximum torque set mode
- Maximum speed set mode
- Built in handle for best portability
- Error code display function
- Foot control with auto-cruise speed function
- Self diagnosis system

Technical data

| | |
|------------------------|--|
| Input: | AC 200 ~ 240 V at 50/60 Hz |
| Output: | DC 0 – 32 V, 1,6 A, BLDC 0 – 32 V, 1,6 A |
| Power DC: | max. 185 W |
| Power BLDC: | max. 245 W |
| Weight Power unit: | 2,9 kg |
| Dimensions Power unit: | W137 x D232 x H180 mm |
| Weight Foot control: | 575 g |

| Voltage | Item number: |
|---------|--------------|
| 220V | TPU-20-220V |
| 110V | TPU-20-110V |

Brushless Micro-motors - HPM-BL1 + HPM-BL2

Brushless micro-motor for use together with twin power unit TPU-20.



Technical data:

| | |
|-----------------|--------------------------|
| Speed: | max. 40.000 rpm |
| Consumed power: | max. 230 W |
| Torque: | 8,5N cm |
| Weight: | 255 g |
| Dimensions: | L100 x Ø27 mm |
| Noise: | < 70 db(A) at 40.000 rpm |
| Vibrations: | < 2,5 m/s ² |

Item number: HPM-BL1

Technical data:

| | |
|-----------------|--------------------------|
| Speed: | max. 50.000 rpm |
| Consumed power: | max. 230 W |
| Torque: | 7,6N cm |
| Weight: | 255 g |
| Dimensions: | L100 x Ø27 mm |
| Noise: | < 70 db(A) at 50.000 rpm |
| Vibrations: | < 2,5 m/s ² |

Item number: HPM-BL2



Adapter for connecting Urawa, Argofile and Gesswein front-pieces to the Diprofil micro-motors type HPM-BL1 and HPM-B1 (when using DC motor type HPM-B1 a specific shaft with item no. D/G-7 is also required).

Item number: D/G

Hanging Motor - For Slip Joint Connection



The DSE-47 Hanging motor with Flexible Shaft and foot control is the natural choice of power source when working with flexible shaft driven polishing/filing machines and rotary handpieces.

Technical data

| | |
|---------------|--------------------------|
| Input: | AC 115/230V |
| Power output: | 150 W |
| Speed: | max 15.000 rpm |
| Voltage: | 220V |
| Noise: | < 70 db(A) at 15.000 rpm |
| Vibrations: | < 2,5 m/s ² |

Item number: DSE-47-220V

Flexible Shaft



Flexible-shaft (UKB-3/30T) with slip joint connection for the DSE-47 motor.
Inner cable Ø 5 mm.

Item number: UKB-3/30T

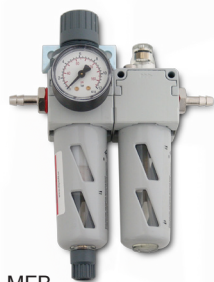
Suspension Stand



Suspension stand for hanging motors (UGC).

Item number: UGC

Lubrication



MFB

The Dipro-fog (MFB) package consists of air filter, regulator, manometer, and fog lubrication device, all in one, with tubing and Dipro-fog oil (MFA-K).

Technical data

| | |
|------------------------|--------------|
| Max primary pressure: | 16 bar |
| Max capacity at 7 bar: | 1200 l/min |
| Hose connection: | 7 mm |
| Secondary pressure: | 0,5 - 10 bar |

| Description | Item number |
|-------------------------|-------------|
| Dipro-fog | MFB |
| Lubrication Oil (0,5 l) | MFA-K |



MFA-K

Accessories for Air-Driven Machines



HSL-M

Each air-driven machine requires a quick coupling (HSL-M) as well as a fog lubricating device type Dipro-fog MFB to ensure efficient lubrication at all times.
A 3-way hose connection and air hose is also available.

| Description | Item number |
|-----------------------|-------------|
| Quick Coupling | HSL-M |
| 3-way hose connection | MFA-T2 |
| Air Hose | MFA-S |

DIPROSONIC DUS-300

ULTRASONIC FINISHING/POLISHING SYSTEM



Accessories (all included with the DUS-300 package)

- Ultrasonic Handpiece for DUS-300 (DUS-300-HP)
- Handpiece Cable (DUS-5)
- Power Cord - US type 110V (DUS-6)
- Power Cord - European type 220V (DUS-7)
- Foot-switch (DUS-300-FS)
- 10/11mm Spanner (DUS-8)
- 2,5 mm Hex-key (DUS-9)
- Handpiece stand (DUS-10)
- Tool-holder 1,1 mm (DUS-11)
- Tool-holder Diam. 3 mm (DUS-30)
- Tool kit Complete, more information below (DUS-300-TK)

The DIPROSONIC DUS-300 is the new and improved Ultrasonic Finishing System from Diprofil.

The Ultrasonic system's main advantage is its very short stroke length (10 – 35 μm) at a very high frequency (18 – 25 kHz). This makes this unit ideal for working in narrow and confined spaces such as cavities and slots where a short stroke length is preferable. For this kind of delicate work, the DIPROSONIC will give you precise finishing with rapid stock removal in a relatively clean environment without the need for lubricating fluids etc.

The Unit is excellent for use together with Ceramic Fibre Stones and Sintered Diamond Files, but it is also possible to use Electroplated Diamond Files as long as the shank of the used tool is kept as short as possible.

Operation is optional by hand or the included Foot-switch and the Unit will automatically find the right frequency for each tool.

Technical data

Control Unit

| | |
|--------------------------|-----------------------------|
| Input: | AC 90 – 250 V, 50/60 Hz |
| Ultrasonic Power Output: | 36 W |
| Frequency: | 18 – 25 kHz |
| Stroke: | 10 – 35 μm |
| Dimensions: | 144(W) x 195 (D) x 95(H) mm |
| Weight: | 658 g |

Handpiece

| | |
|--------------|---------------------------|
| Cord length: | 1500 mm |
| Dimensions: | \varnothing 30 x 131 mm |
| Weight: | 185 g |

Important Features

- 36 W max output
- Two output levels (high / low)
- Capable of long working periods
- Auto feedback system
- Small, compact and low weight

Item number: DUS-300

Files and Fibre Stones tool-kit, containing:

- Fibre Stone 4x1x75 mm, grit 250.
- Fibre Stone 4x1x75 mm, grit 400.
- Fibre Stone 4x1x75 mm, grit 700.
- Fibre Stone 6x1x75 mm, grit 250.
- Fibre Stone 6x1x75 mm, grit 400.
- Fibre Stone 6x1x75 mm, grit 700.
- Sintered Diamond File, 4x1x75 mm, grit 200.
- Sintered Diamond File, 4x1x75 mm, grit 400.
- Sintered Diamond File, 6x1x75 mm, grit 200.
- Sintered Diamond File, 6x1x75 mm, grit 400.

Separate Item numbers:

CFS-41-250
CFS-41-400
CFS-41-700
CFS-61-250
CFS-61-400
CFS-61-700
DLU-645
DLU-646
DLU-710
DLU-711



Item number: DUS-300-TK

DIPROFIL DIAMOND FILES

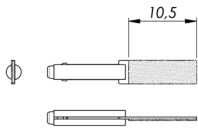
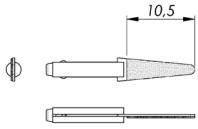
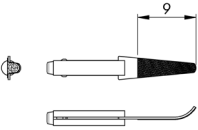
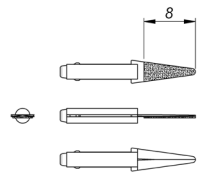
ORIGINAL DIPROFIL PRECISION DIAMOND FILES



Diprofil Diamond Files are made from carefully selected diamonds, precisely bonded to obtain the best physical properties for added strength and resistance to wear. Diamond files are excellent for use on carbide, hardened steel, glass, ceramics and other similar materials. Other shapes, dimensions and grit sizes available on request.

DLT - LTA Filing tips

All filing tips are sold in packages of 3 pcs.

| Discription | | Grit size | Colour Code | Item No |
|---|---|---|---|--|
| Diamond Filing Tips, from 30 micron to FEPA D181. A thin tip with rectangular shape, for use on all surfaces. |  | D181 D151 D64 30 µm | Red Green Yellow White | DLT-10-150 DLT-10-100 DLT-10-50 DLT-10-30 |
| Diamond Filing Tips, from 30 micron to FEPA D151. A thin tip with spatula shape, for use in narrow spaces. |  | D181 D151 D64 30 µm | Red Green Yellow White | DLT-20-150 DLT-20-100 DLT-20-50 DLT-20-30 |
| Diamond Filing Tips, FEPA D64. For use on concave surfaces. |  | D64 | Yellow | LTA-E50/3 |
| Diamond Filing Tips, From 15 micron to FEPA D181. For use on concave surfaces. |  | D181 D151 D107 D64 30 µm 15 µm | Red Green Gold Yellow White Violet | LTA-S150/3 LTA-S100/3 LTA-S75/3 LTA-S50/3 LTA-S30/3 LTA-S15/3 |

Filing tip holders

Tool-holder to be used together with diamond filing tips type DLT/LTA in the Dipromini polishing/filing machines.
Length = 40 mm.

| | |
|-----------------------------|------------------------------|
| Tool holder 40 mm | Item number FMR-20 |
|-----------------------------|------------------------------|



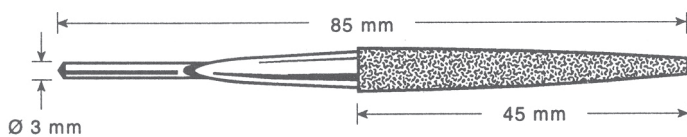
DLA® - Machine Files



| Standard Files | | Item number | | |
|----------------|-----------|----------------|-----------------|-----------------|
| Shape | Size (mm) | Grit D64 | Grit D151 | Grit D181 |
| | 2x1 | DLA-2x1S-D64 | DLA-2x1S-D151 | DLA-2x1S-D181 |
| | 3x1 | DLA-3x1S-D64 | DLA-3x1S-D151 | DLA-3x1S-D181 |
| | 4x1 | DLA-4x1S-D64 | DLA-4x1S-D151 | DLA-4x1S-D181 |
| | 4x2 | DLA-4x2S-D64 | DLA-4x2S-D151 | DLA-4x2S-D181 |
| | 5x2 | DLA-5x2S-D64 | DLA-5x2S-D151 | DLA-5x2S-D181 |
| | Ø 1 | DLA-1-D64 | DLA-1-D151 | DLA-1-D181 |
| | Ø 2 | DLA-2-D64 | DLA-2-D151 | DLA-2-D181 |
| | Ø 3 | DLA-3-D64 | DLA-3-D151 | DLA-3-D181 |
| | Ø 4 | DLA-4-D64 | DLA-4-D151 | DLA-4-D181 |
| | 2x2x2 | | DLA-T2S-D151 | |
| | 3x3x3 | | DLA-T3S-D151 | |
| | 4x4x4 | | DLA-T4S-D151 | |
| | R = 1 | | DLA-R1S-D151 | |
| | R = 1,5 | | DLA-R1,5S-D151 | |
| | R = 2 | | DLA-R2S-D151 | |
| | R = 2,5x5 | DLA-R2,5R5-D64 | DLA-R2,5R5-D151 | DLA-R2,5R5-D181 |

| Safe Sided Files | | Item number | | |
|------------------|-----------|-------------|----------------|--------------|
| Shape | Size (mm) | Grit D64 | Grit D151 | Grit D181 |
| | 2x1 | DLA-2x1-D64 | DLA-2x1-D151 | DLA-2x1-D181 |
| | 3x1 | DLA-3x1-D64 | DLA-3x1-D151 | DLA-3x1-D181 |
| | 4x1 | DLA-4x1-D64 | DLA-4x1-D151 | DLA-4x1-D181 |
| | 5x2 | DLA-5x2-D64 | DLA-5x2-D151 | DLA-5x2-D181 |
| | 0,5x4 | | DLA-0,5x4-D151 | |
| | 1x4 | | DLA-1x4-D151 | |
| | 2x2x2 | DLA-T2-D64 | DLA-T2-D151 | DLA-T2-D181 |
| | 3x3x3 | DLA-T3-D64 | DLA-T3-D151 | DLA-T3-D181 |
| | 4x4x4 | DLA-T4-D64 | DLA-T4-D151 | DLA-T4-D181 |
| | R = 1 | | DLA-R1-D151 | |
| | R = 1,5 | | DLA-R1,5-D151 | |
| | R = 2 | | DLA-R2-D151 | |

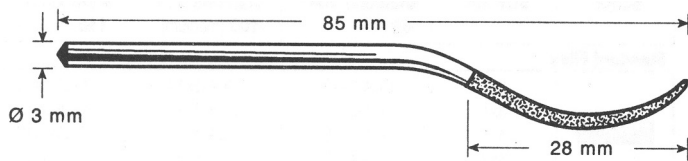
DLE - Machine Files



| Standard Files | | Item number |
|----------------|-------------|-------------|
| Shape | Size (mm) | Grit D151 |
| | 5x2 | DLE-11-D151 |
| | Ø 3 | DLE-2-D151 |
| | 5x2 | DLE-30-D151 |
| | 5x2 | DLE-4-D151 |
| | 3,5x3,5x3,5 | DLE-5-D151 |
| | 2,5x2,5 | DLE-6-D151 |

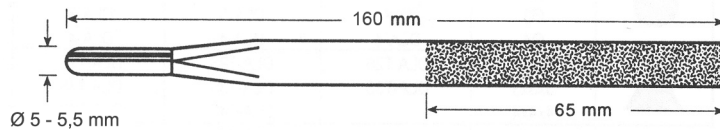
| Safe Sided Files | | Item number |
|------------------|-----------|-------------|
| Shape | Size (mm) | Grit D151 |
| | 5x2 | DLE-1-D151 |
| | 5x2 | DLE-3-D151 |

DLF - Machine Files



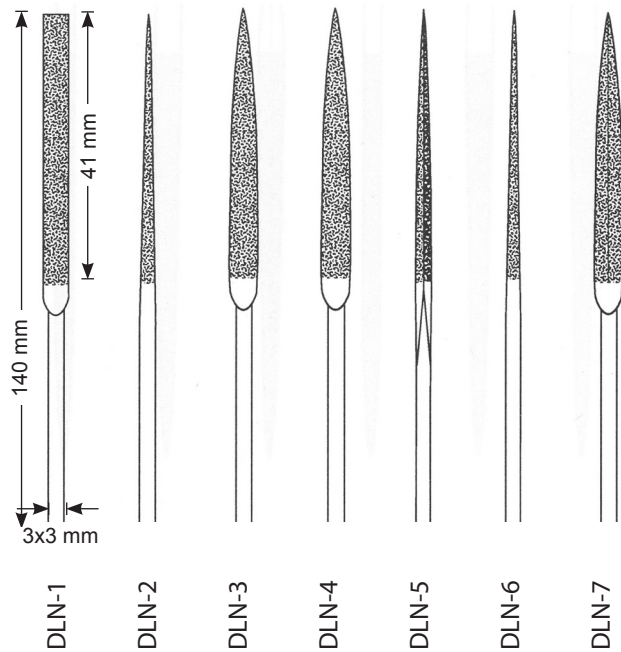
| | | Item number | |
|-------|-----------|-------------|--|
| Shape | Size (mm) | Grit D151 | |
| | 4,5x2,5 | DLF-1-D151 | |
| | Ø 3 | DLF-2-D151 | |
| | 5x2,5 | DLF-4-D151 | |
| | 3x3 | DLF-6-D151 | |

DLK - Machine File



| | | Item number | |
|-------|-----------|-------------|--|
| Shape | Size (mm) | Grit D151 | |
| | 10x2,5 | DLK-11-D151 | |

DLN - Hand Files



| | | Item number | |
|-------|-----------|-------------|------------|
| Shape | Size (mm) | Grit D64 | Grit D151 |
| | 4x1,3 | DLN-1-D64 | DLN-1-D151 |
| | Ø 1,6 | DLN-2-D64 | DLN-2-D151 |
| | 4x1,8 | DLN-3-D64 | DLN-3-D151 |
| | 4x1,6 | DLN-4-D64 | DLN-4-D151 |
| | 3x3x3 | DLN-5-D64 | DLN-5-D151 |
| | 1,9x1,9 | DLN-6-D64 | DLN-6-D151 |
| | 4,1x1,5 | DLN-7-D64 | DLN-7-D151 |

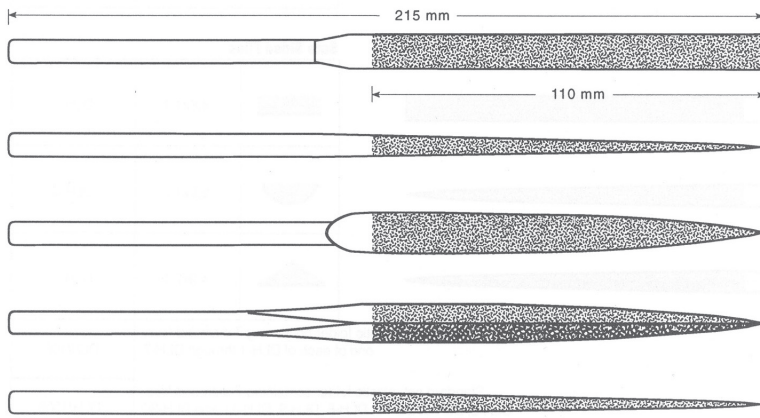
DLN-Set

Set consisting of 7 different DLN-files, from DLN-1 to DLN-7 in respective grit sizes.



| | | Item number | |
|---------|-------------|--------------|--|
| Type | Grit D64 | Grit D151 | |
| DLN-Set | DLN-SET-D64 | DLN-SET-D151 | |

DLG - Hand Files



Shank dimensions: 6x6 mm

| Shape | Size (mm) | Item number |
|-------|-------------|-------------|
| | | Grit D151 |
| | 10x3 | DLG-1-D151 |
| | Ø 6,5 | DLG-2-D151 |
| | 12,2x4 | DLG-3-D151 |
| | 9,5x9,5x9,5 | DLG-4-D151 |
| | 5,5x5,5 | DLG-5-D151 |

DLG-Set



Set consisting of 5 different DLG-files, from DLG-1 to DLG-5

| Type | Item number |
|---------|-------------|
| | Grit D151 |
| DLG-Set | DLG/D151 |

KSD - Diamond Plated Rulers



Total length 250 mm, width 25mm, thickness 1,0 mm. Length of plated area 135 mm. Diamond plated all around.

| Type | Item number | |
|----------------------|--------------|---------------|
| | Grit D64 | Grit D151 |
| Diamond plated ruler | KSD-2035-D64 | KSD-2035-D151 |

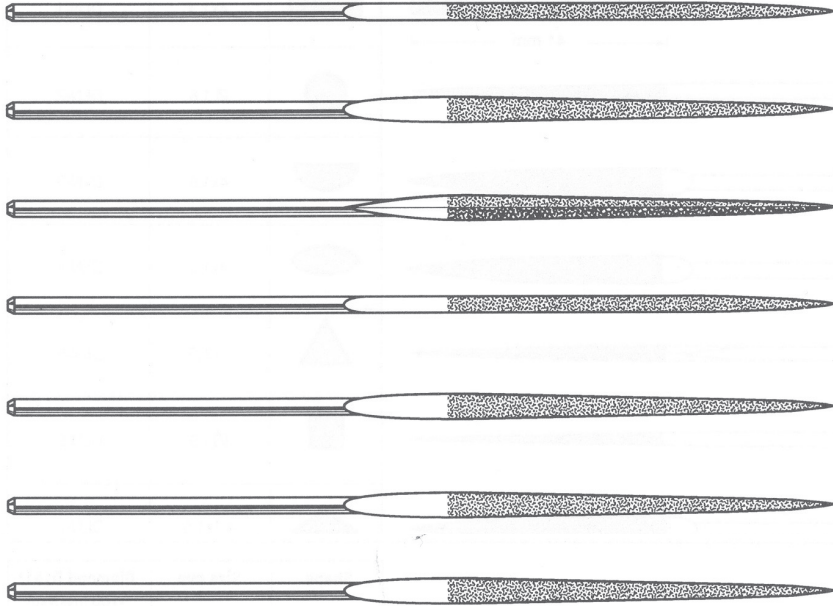
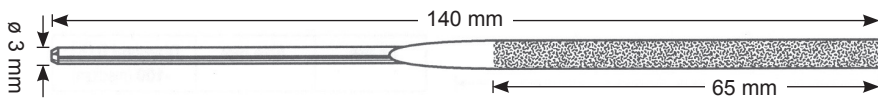
FILE HANDLES

Practical file handles with an imprinted Diprofil logo on each side. The handles are guaranteed to take file shanks from 2x2 mm up to Ø 4 mm and are really practical for someone working with hand files for long periods of time.

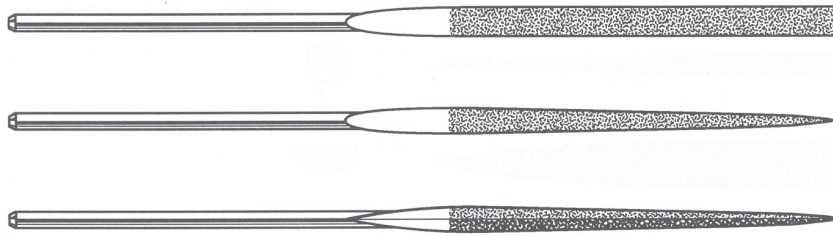
Item number: DFH-1



DLH - Hand Files



| Standard Files | | Item number |
|----------------|-------------|-------------|
| Shape | Size (mm) | Grit D151 |
| | 5,3x1,4 | DLH-11-D151 |
| | Ø 3 | DLH-2-D151 |
| | 5,1x2,2 | DLH-4-D151 |
| | 3,8x3,8x3,8 | DLH-5-D151 |
| | 2,6x2,6 | DLH-6-D151 |
| | 5,2x1,6 | DLH-8-D151 |
| | 5,0x1,6 | DLH-9-D151 |
| | 5,6x1,9 | DLH-30-D151 |



| Safe Sided Files | | Item number |
|------------------|-----------|-------------|
| Shape | Size (mm) | Grit D151 |
| | 4,8x1,1 | DLH-1-D151 |
| | 5,5x1,7 | DLH-3-D151 |
| | 4,9x2,1 | DLH-7-D151 |

DLH-Set



Set consisting of 7 different DLH-files, (DHL-1 to DHL-7) as specified above.

| Type | Item number |
|---------|-----------------------|
| DLH-Set | Grit D151 DLH/D151 |

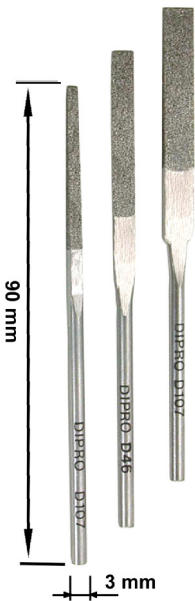
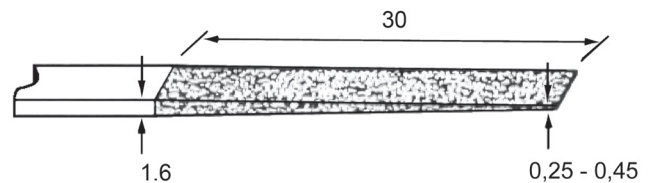
DIPRO® DIAMOND FILES

DIPRO® PRECISION DIAMOND FILES



Dipro Diamond Files are made from carefully selected diamonds, precisely bonded to obtain the best physical properties for added strength and resistance to wear. Diamond files are excellent for use on carbide, hardened steel, glass, ceramics and other similar materials. Other shapes, dimensions and grit sizes are available on request.

DLM - Conical Machine Files



| Shape | Size (mm) | Item number | | | |
|-------|-----------|-------------|-----------|-----------|------------|
| | | Grit D30 | Grit D46 | Grit D76 | Grit D107 |
| | 2,5x1,6 | DLM-1-D30 | DLM-1-D46 | DLM-1-D76 | DLM-1-D107 |
| | 4X1,6 | DLM-2-D30 | DLM-2-D46 | DLM-2-D76 | DLM-2-D107 |
| | 6X1,6 | DLM-3-D30 | DLM-3-D46 | DLM-3-D76 | DLM-3-D107 |
| | 8X1,6 | DLM-4-D30 | DLM-4-D46 | DLM-4-D76 | DLM-4-D107 |

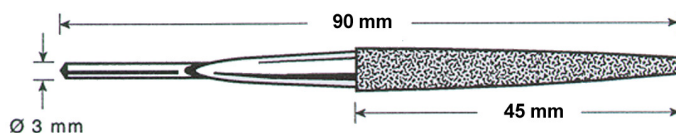
DLM-Set

Sets consisting of 6 different DLM-files, DLM-1 through DLM-3 in the following grit sizes:



| Grit sizes | Item number |
|------------|-------------|
| D46 + D107 | DLM/1 |
| D30 + D46 | DLM-SET-F |
| D76 + D107 | DLM-SET-M |

DBE - Machine Files



| Shape | Size (mm) | Item number | | |
|-------|-------------|-------------|-----------|------------|
| | | Grit D46 | Grit D76 | Grit D107 |
| | 4 x 2 | DBE-1-D46 | DBE-1-D76 | DBE-1-D107 |
| | ø3 | DBE-2-D46 | DBE-2-D76 | DBE-2-D107 |
| | 5x2 | DBE-3-D46 | DBE-3-D76 | DBE-3-D107 |
| | 5x2 | DBE-4-D46 | DBE-4-D76 | DBE-4-D107 |
| | 3,5x3,5x3,5 | DBE-5-D46 | DBE-5-D76 | DBE-5-D107 |
| | 2,5x2,5 | DBE-6-D46 | DBE-6-D76 | DBE-6-D107 |



DBE-Set

Set consisting of the 6 different DBE-files in respective grit sizes.

Item number

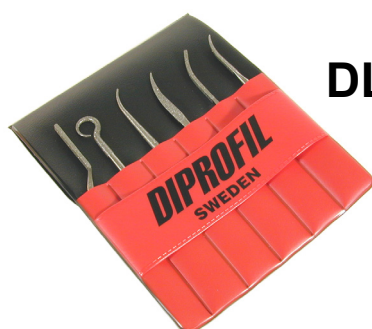
DBE-SET-D46
DBE-SET-D76
DBE-SET-D107

DLB - Machine Files



Approx file length 65 mm
Shank diameter 3 mm

| Shape | Size (mm) | Item number |
|-------|-------------|-------------|
| | | Grit D107 |
| | 3,2x1,4 | DLB-1-D107 |
| | ø3 | DLB-2-D107 |
| | ø3 | DLB-3-D107 |
| | 2,5x2,5x2,5 | DLB-4-D107 |
| | 3,2x1,4 | DLB-5-D107 |
| | 4x2 | DLB-6-D107 |



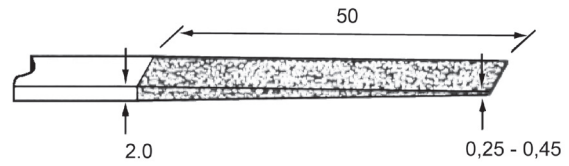
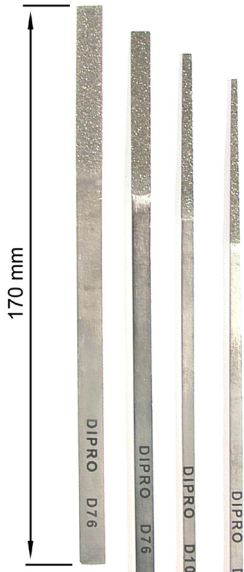
DLB-Set

Set consisting of the above 6 different DLB files

Item number

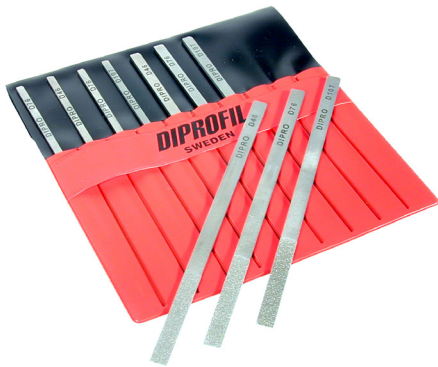
DLB-SET-D107

DLS - Conical Hand Files



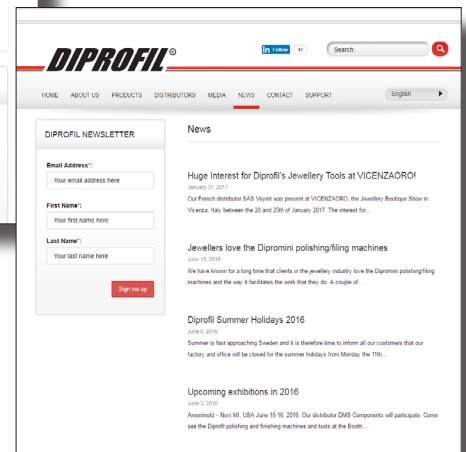
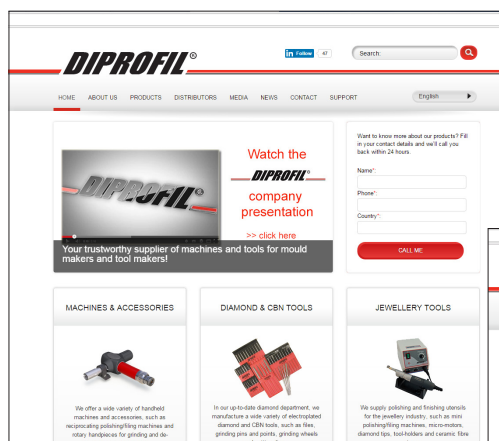
| Shape | Size (mm) | Item number | | | |
|-------|-----------|-------------|-----------|-----------|------------|
| | | Grit D30 | Grit D46 | Grit D76 | Grit D107 |
| | 4 / 2 | DLS-1-D30 | DLS-1-D46 | DLS-1-D76 | DLS-1-D107 |
| | 4 / 3 | DLS-2-D30 | DLS-2-D46 | DLS-2-D76 | DLS-2-D107 |
| | 6 / 6 | DLS-3-D30 | DLS-3-D46 | DLS-3-D76 | DLS-3-D107 |
| | 8 / 8 | DLS-4-D30 | DLS-4-D46 | DLS-4-D76 | DLS-4-D107 |

DLS-Set



Sets consisting of 10 different DLS-handfiles.

| Type | Item number |
|---|-------------|
| DLS 2,3,4 in D46; DLS 1,2,3,4 in D76; DLS 2,3,4 in D107 | DLS/1 |
| DLS 1,2,3,4 in D30; DLS 1,2,3,4 in D46; DLS 1,2 in D76 | DLS-SET-F |



Make sure to keep yourself updated with the latest news from Diprofil by visiting our website www.diprofil.com

DBH - Hand Files



Total file length approx 140 mm.
Shank diameter 3 mm.

| Shape | Size (mm) | Item number | | |
|-------|-------------|-------------|------------|-------------|
| | | Grit D46 | Grit D76 | Grit D126 |
| | 6x1,5 | DBH-1-D46 | DBH-1-D76 | DBH-1-D126 |
| | ø3 | DBH-2-D46 | DBH-2-D76 | DBH-2-D126 |
| | 5x2 | DBH-3-D46 | DBH-3-D76 | DBH-3-D126 |
| | 5x2 | DBH-4-D46 | DBH-4-D76 | DBH-4-D126 |
| | 3,5x3,5x3,5 | DBH-5-D46 | DBH-5-D76 | DBH-5-D126 |
| | 2,5x2,5 | DBH-6-D46 | DBH-6-D76 | DBH-6-D126 |
| | 6x2 | DBH-7-D46 | DBH-7-D76 | DBH-7-D126 |
| | 5,4x1,5 | DBH-8-D46 | DBH-8-D76 | DBH-8-D126 |
| | 1,7x6 | DBH-9-D46 | DBH-9-D76 | DBH-9-D126 |
| | 6x1,5 | DBH-10-D46 | DBH-10-D76 | DBH-10-D126 |

DBH-Set

Set consisting of the above 10 different DBH-handfiles in respective grit size.



Item number

DBH-SET-D46
DBH-SET-D76
DBH-SET-D126

FILE HANDLES

Practical file handles with an imprinted Diprofil logo on each side. The handles are guaranteed to take file shanks from 2x2 mm up to Ø 4 mm and are really practical for someone working with hand files for long periods of time.

Item number: DFH-1



DLL- Conical Hand Files



| Shape | Size (mm) | Item number | | | |
|-------|-----------|-------------|-----------|-----------|------------|
| | | Grit D30 | Grit D46 | Grit D76 | Grit D107 |
| | 1,7x2 | DLL-1-D30 | DLL-1-D46 | DLL-1-D76 | DLL-1-D107 |
| | 1,7x4 | DLL-2-D30 | DLL-2-D46 | DLL-2-D76 | DLL-2-D107 |
| | 1,7x6 | DLL-3-D30 | DLL-3-D46 | DLL-3-D76 | DLL-3-D107 |
| | ø3 | DLL-4-D30 | | | |

Total file length approx 140 mm. Shank diameter 3 mm.



DLL-Set

Set consisting of 10 different DLL-handfiles.

Type

DLL 1,2,3,4 in D30; DLL 1,2,3 in D46; DLL 1,2,3 in D76

DLL-4-D30; DLL 1,2,3 in D46; DLL 1,2,3 in D76; DLL 1,2,3 in D107

Item number

DLL-SET

DLL-SET-M

DLD - Hand Files



Total file length approx 140 mm.
Shank diameter 3mm.



| Shape | Size (mm) | Item number |
|-------|-----------|-------------|
| | | Grit D107 |
| | 6,0x1,2 | DLD-1-D107 |
| | 2,5x2,5 | DLD-2-D107 |
| | 3x1,5 | DLD-3-D107 |
| | 3x3x3 | DLD-4-D107 |
| | 5x2 | DLD-5-D107 |
| | 3,2x1,5 | DLD-6-D107 |
| | 4x2,2 | DLD-7-D107 |
| | Ø 2,5 | DLD-8-D107 |
| | 5x1,5 | DLD-9-D107 |
| | Ø 2,5 | DLD-10-D107 |



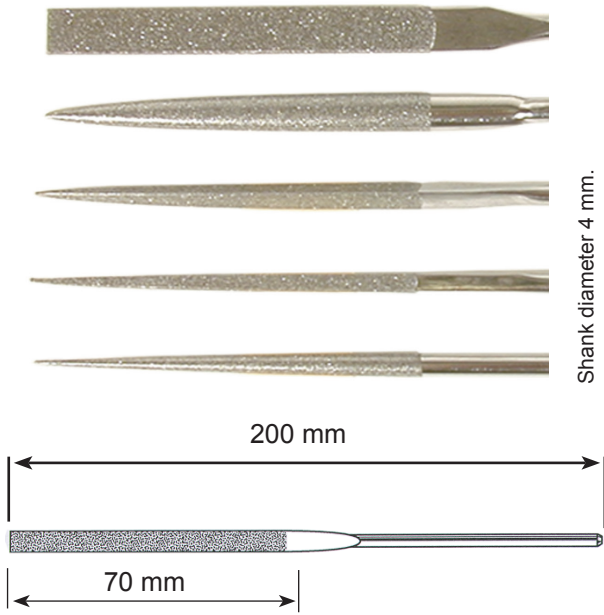
DLD-Set






Set consisting of the above 10 different DLD-handfiles.

Item number

DLD-SET-D107

DLQ - Hand Files



| Shape | Size (mm) | Item number | |
|--|--------------|-------------|------------|
| | | Grit D46 | Grit D126 |
|  | 8,5x1,6 | DLQ-1-D46 | DLQ-1-D126 |
|  | ø4 | DLQ-2-D46 | DLQ-2-D126 |
|  | 7x2,5 | DLQ-3-D46 | DLQ-3-D126 |
|  | 3,5x3,5 | DLQ-4-D46 | DLQ-4-D126 |
|  | 4,5 x4,5x4,5 | DLQ-5-D46 | DLQ-5-D126 |



DLQ-Set

Set consisting of the above 5 different DLQ-handfiles in the respective grit size.

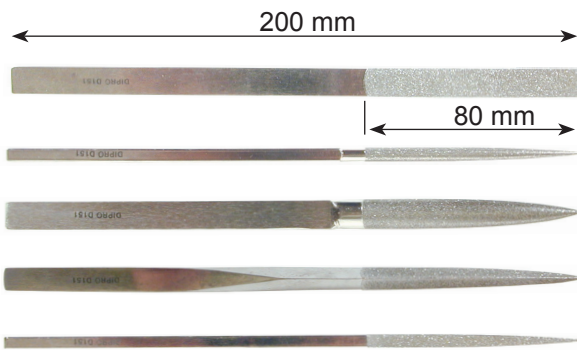
Item number






DLQ-SET-D46
DLQ-SET-D126

WE OFFER CUSTOMER SPECIFIC DIAMOND & CBN TOOLS
ACCORDING TO CUSTOMER SPECIFICATIONS

Please send your inquiries to sales@diprofil.se

DLX - Hand Files



| Shape | Size (mm) | Item number |
|---|-------------|-------------|
| | | Grit D151 |
|  | 11 x 3,5 | DLX-1-D151 |
|  | ø5 | DLX-2-D151 |
|  | 10,5x4,4 | DLX-3-D151 |
|  | 7,7x7,7x7,7 | DLX-4-D151 |
|  | 6,3x6,3 | DLX-5-D151 |



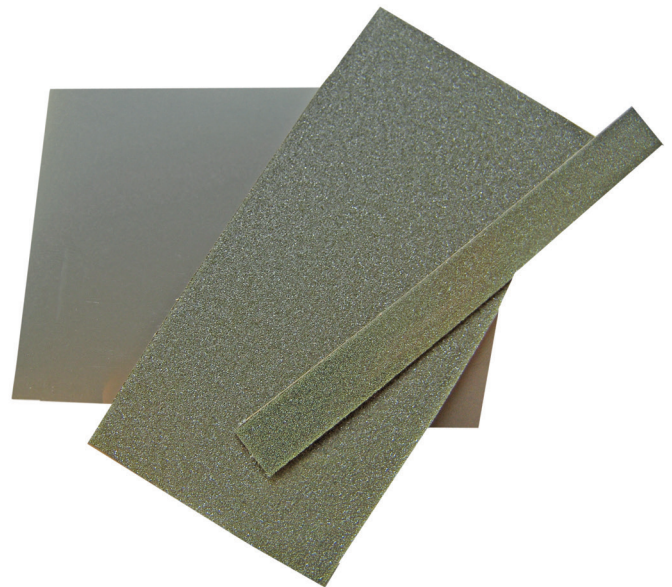
DLX-Set

Set consisting of the above 5 different DLX-handfiles

| Item number |
|--------------|
| DLX-SET-D151 |

Diamond Foils

Flexible self-adhesive diamond coated metal foils with galvanic bonding. Can be easily cut to the required size and shape and is excellent for making tools adapted to special applications. The wide range of grit sizes makes it easy to achieve the required surface finish. Thickness 0,2 – 0,4mm (depending on the grit size).



Item number / Grit size

| Size (mm) | #120/D126 | #150/D91 | #200/D76 | #300/D46 | #400/D30 | #600/D20 | #800/D15 | #1200/D10 | #1800/D7 |
|-----------|-------------|------------|------------|------------|------------|------------|------------|------------|-----------|
| 10x100 | DF-10-D126 | DF-10-D91 | DF-10-D76 | DF-10-D46 | DF-10-D30 | DF-10-D20 | DF-10-D15 | DF-10-D10 | DF-10-D7 |
| 50x100 | DF-50-D126 | DF-50-D91 | DF-50-D76 | DF-50-D46 | DF-50-D30 | DF-50-D20 | DF-50-D15 | DF-50-D10 | DF-50-D7 |
| 100x100 | DF-100-D126 | DF-100-D91 | DF-100-D76 | DF-100-D46 | DF-100-D30 | DF-100-D20 | DF-100-D15 | DF-100-D10 | DF-100-D7 |

DIAMOND AND CBN ROTARY TOOLS

DIPROFIL ROTARY DIAMOND AND CBN TOOLS



Diprofil Rotary Diamond and CBN Tools are made from carefully selected quality diamonds and Cubic Boron Nitride, precisely bonded to obtain the best physical properties for added strength and resistance to wear

Electroplated Diamond pins and wheels are excellent for general grinding applications in hard materials such as carbide, hardened steel and ceramics. They are normally used without cooling agent but in stationary applications, and when grinding in thin glass cooling is often required. Maximum temperature for Diamonds is 800° C.

Electroplated cylindrical CBN pins are excellent for general grinding applications in hardened steel. They are normally used without cooling agent but in stationary applications cooling is often required. Maximum temperature for CBN is 1200° C.

Recommended speeds

Recommend speed for dry cutting:

Diamond: 10 – 20 m/s

CBN: 15 – 30 m/s

Recommend speed for wet cutting:

Diamond: 15 – 30 m/s

CBN: 20 – 45 m/s

Cooling: Cooling normally enhances the lifetime of the tools. In addition it also generates a better surface. The risk for damage on thin or sharp edges of the grinding tool is reduced when using coolant.

Cooling is performed with an emulsion or grinding oil. For diamond tools an Emulsion is specially recommended and for CBN tools a mineral oil is preferable.

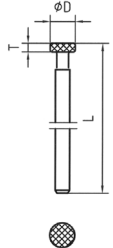
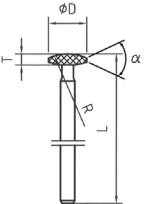
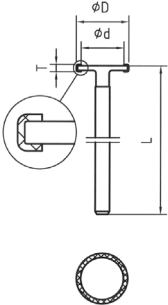
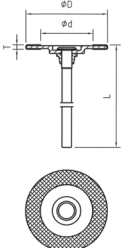
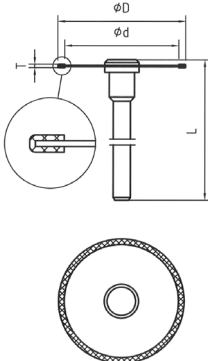
Recommended speeds in RPM

| Tool Ø (mm) | Peripheral speed (m/s) | | | | | | | |
|----------------|------------------------|--------|--------|--------|--------|--------|--------|--------|
| | 10 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| 2 | 95541 | 191083 | 238854 | 286624 | 334395 | 382166 | 429936 | 477707 |
| 3 | 63694 | 127389 | 159236 | 191083 | 222930 | 254777 | 286624 | 318471 |
| 4 | 47771 | 95541 | 119427 | 143312 | 167197 | 191083 | 214968 | 238854 |
| 5 | 38217 | 76433 | 95541 | 114650 | 133758 | 152866 | 171975 | 191083 |
| 6 | 31847 | 63694 | 79618 | 95541 | 111465 | 127389 | 143312 | 159236 |
| 7 | 27298 | 54595 | 68244 | 81893 | 95541 | 109190 | 122839 | 136488 |
| 8 | 23885 | 47771 | 59713 | 71656 | 83599 | 95541 | 107484 | 119427 |
| 9 | 21231 | 42463 | 53079 | 63694 | 74310 | 84926 | 95541 | 106157 |
| 10 | 19108 | 38217 | 47771 | 57325 | 66879 | 76433 | 85987 | 95541 |
| 12 | 15924 | 31847 | 39809 | 47771 | 55732 | 63694 | 71656 | 79618 |
| 14 | 13649 | 27298 | 34122 | 40946 | 47771 | 54595 | 61419 | 68244 |
| 16 | 11943 | 23885 | 29857 | 35828 | 41799 | 47771 | 53742 | 59713 |
| 18 | 10616 | 21231 | 26539 | 31847 | 37155 | 42463 | 47771 | 53079 |
| 20 | 9554 | 19108 | 23885 | 28662 | 33439 | 38217 | 42994 | 47771 |
| 22 | 8686 | 17371 | 21714 | 26057 | 30400 | 34742 | 39085 | 43428 |
| 24 | 7962 | 15924 | 19904 | 23885 | 27866 | 31847 | 35828 | 39809 |
| 26 | 7349 | 14699 | 18373 | 22048 | 25723 | 29397 | 33072 | 36747 |
| 28 | 6824 | 13649 | 17061 | 20473 | 23885 | 27298 | 30710 | 34122 |
| 30 | 6369 | 12739 | 15924 | 19108 | 22293 | 25478 | 28662 | 31847 |
| 35 | 5460 | 10919 | 13649 | 16379 | 19108 | 21838 | 24568 | 27298 |

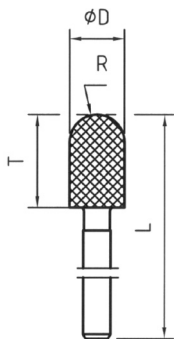
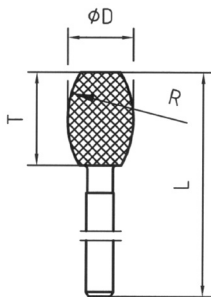
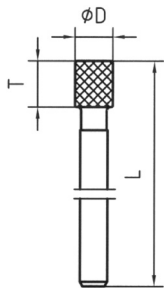
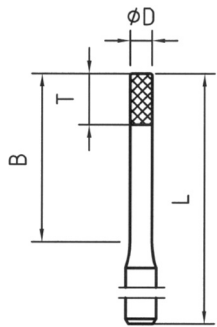
Shank diameter: Ø 2,35 mm

| | | | | Item number |
|--|------------|---|---|---|
| | Shape | Dimensions | Grit Size | |
| | Cylinder | D 1,4, T 7, L 46 D 1,9, T 5, L 46 D 2,5, T 7, L 46 D 2,6, T 3, L 46 | D 107 D 151 D 151 D 151 | DT-86-HP DB-305-HP DT-100-HP DT-107-HP |
| | Ball | D 0,8, L 46 D 1,3, L 46 D 1,7, L 46 D 1,9, L 46 D 2,5, L 46 D 3,0, L 41,3 D 4,1, L 42,7 | D 107 D 107 D 151 D 151 D 151 D 151 D 151 | DB-1-2/0-HP DB-102-HP DB-104-HP DB-105-HP DB-108-HP DT-101-HP DT-119-HP |
| | Flame | D 1,3, T 4, R 18, L 46 D 1,6, T 7,5, R 45, L 46 D 2,4, T 7,5, R 30, L 46 D 2,4, T 10, R 30, L 46 | D 151 D 151 D 151 D 151 | DB-902A-HP DT-95B-HP DT-117-HP DT-510-HP |
| | Cone | D 5,1, a 27°, T 9,5, L 48,4 D 7,3, a 60°, T 6, L 45,6 | D 151 D 151 | DT-93-HP DT-236-HP |
| | Cone round | D 1,3, d 0,7, a 4°, T 9, L 46 D 1,6, d 0,8, a 5°, T 9, L 46 D 1,9, d 1,1, a 5°, T 9, L 46 | D 151 D 151 D 151 | DB-702-HP DB-704-HP DB-706-HP |

Shank diameter: Ø 2,35 mm

| | Shape | Dimensions | Grit Size | Item number |
|---|----------------|--|----------------------------------|--|
|  | Wheel | D 6,3, T 0,5, L 40 | D 151 | DT-129P-HP |
|  | Wheel | D 9,3, a 16°, T 1,3, L 40,2 | D 151 | DT-109-HP |
|  | Grinding wheel | D 8,7, d 7,0, T 1,3, L 40 D 9,0, d 7,0, T 0,6, L 40 D 12,9, d 9,5, T 1,4, L 45,4 | D 151 D 151 D 151 | DT-56P-HP DT-128P-HP DT-55P-HP |
|  | Grinding wheel | D 20, d 12,75, T 1,0, L 48 | D 151 | DT-132P-HP |
|  | Cutting wheel | D 15,0, d 13,0, T 0,6, L 48 D 18,0, d 16,0, T 0,6, L 48 D 20,0, d 18,0, T 0,6, L 48 D 22,0, d 20,0, T 0,6, L 48 | D 151 D 151 D 151 D 151 | DT-124P-HP DT-125P-HP DT-126P-HP DT-127P-HP |

Shank diameter: Ø 3,0 mm

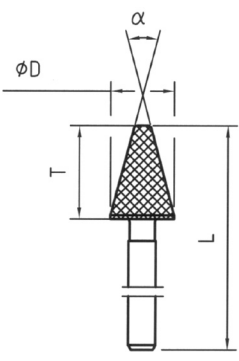
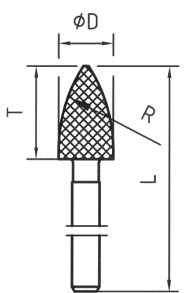
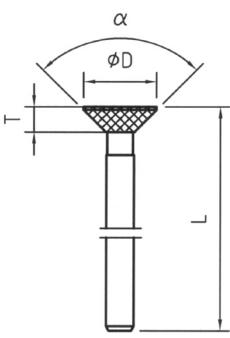
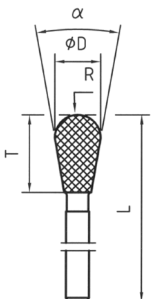


| Shape | Dimensions | Grit Size | Item number | |
|----------------------|--------------------------|--------------------------------|----------------|------------|
| Cylinder | D 0,8, T 4,0, B 7, L 46 | D 107 | D-0308L-H3 | |
| | D 1,0, T 4,0, B 8, L 46 | D 107 | D-0310L-H3 | |
| | D 1,5, T 4,0, B 10, L 46 | D 107 | D-0315L-H3 | |
| | D 2,0, T 5,0, B 14, L 46 | D 151 | D-0320L-H3 | |
| | D 2,0, T 5,0, B 14, L 46 | D 64 | D-0320L-H3-D64 | |
| | D 2,5, T 5,0, B 19, L 46 | D 151 | D-0325L-H3 | |
| | D 2,5, T 7,0, B 19, L 46 | D 151 | D-1325-H3 | |
| | D 3,0, T 5,0, B 19, L 46 | D 151 | D-0330L-H3 | |
| | D 3,0, T 5,0, B 19, L 46 | D 64 | D-0330L-H3-D64 | |
| | Cylinder | D 3,5, T 5,0, L 44 | D 151 | D-0335L-H3 |
| | | D 4,0, T 5,0, L 44 | D 151 | D-0340L-H3 |
| | | D 4,5, T 5,0, L 44 | D 151 | D-0345L-H3 |
| D 5,0, T 6,0, L 45 | | D 151 | D-0350L-H3 | |
| D 5,5, T 6,0, L 45 | | D 151 | D-0352L-H3 | |
| D 6,0, T 6,0, L 45 | | D 151 | D-0354L-H3 | |
| D 6,0, T 10, L 49 | | D 151 | D-1354-H3 | |
| Cylinder rounded | | D 7,0, d 4,5, T 10, R 10, L 49 | D 151 | D-6258-H3 |
| Cylinder rounded end | D 6,0 T 10, R 3, L 49 | D 151 | D-6054-H3 | |

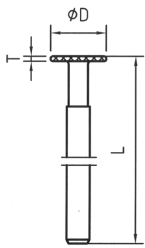
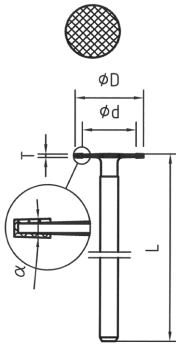
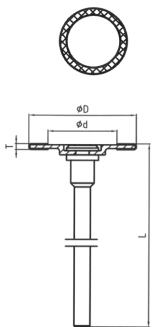
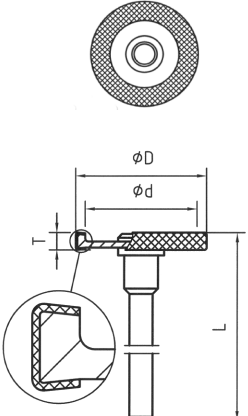
Shank diameter: Ø 3,0 mm

| | Shape | Dimensions | Grit Size | Item number |
|--|------------------|--|---|---|
| | Ball | D 1,7, L 46 D 1,7, L 46 D 2,1, L 46 D 2,5, L 46 D 3,0, L 46 D 3,0, L 46 D 4,1, L 46 D 5,0, L 46 D 6,0, L 46 | D 151 D 64 D 151 D 151 D 151 D 64 D 151 D 151 D 151 | D-0116-H3 D-0116-H3-D64 D-0120-H3 D-0124-H3 D-0130-H3 D-0130-H3-D64 D-0140-H3 D-0150-H3 D-0154-H3 |
| | Flame | D 1,6, T 7,5, R 45, L 46 D 1,6, T 10, R 45, L 46 D 1,6, T 10, R 45, L 46 D 2,4, T 7,5, R 30, L 46 D 2,4, T 10, R 30, L 46 D 2,4, T 10, R 30, L 46 | D 151 D 151 D 64 D 151 D 151 D 64 | D-0916-H3 D-0916L-H3 D-0916L-H3-D64 D-0924-H3 D-0924L-H3 D-0924L-H3-D64 |
| | Cone | D 3,1, a 30°, T 5,0, L 46 D 3,1, a 30°, T 5,0, L 46 D 8,0, a 90°, T 3,9, L 43,2 D 8,0, a 60°, T 6,6, L 45,9 | D 151 D 64 D 151 D 151 | D-5830-H3 D-5830-H3-D64 D-5562-H3 D-5662-H3 |
| | Cone rounded end | D 1,3, d 0,7, a 4°, T 9, L 46 D 1,6, d 0,8, a 5°, T 9, L 46 D 1,9, d 1,1, a 5°, T 9, L 46 D 1,9, d 1,1, a 5°, T 9, L 46 | D 151 D 151 D 151 D 64 | D-0712-H3 D-0716-H3 D-0720-H3 D-0720-H3-D64 |

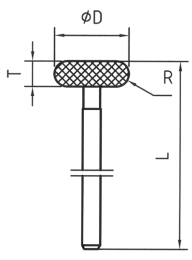
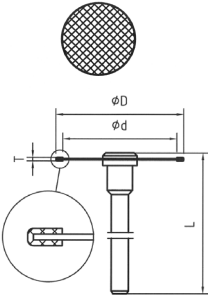
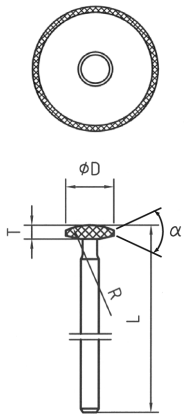
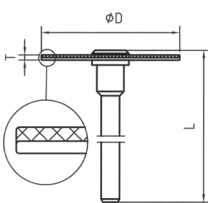
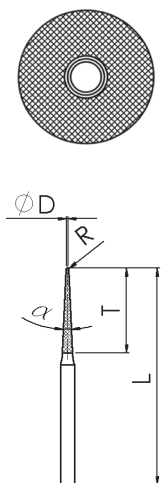
Shank diameter: Ø 3,0 mm

| | Shape | Dimensions | Grit Size | Item number |
|---|----------------------------------|---|---|---|
|  | Cone flat end | D 1,6, d 0,9, a 4°, T 10, L 46 D 2,1, d 1,4, a 4°, T 10, L 46 D 2,1, d 1,4, a 4°, T 10, L 46 D 2,6, d 1,75, a 4°, T 7, L 46 D 7,0, d 2,0, a 30°, T 10, L 49 D 8,0, d 1,4, a 45°, T 8,5, L 47,5 | D 151 D 151 D 64 D 151 D 151 D 151 | D-0516L-H3 D-0521L-H3 D-0521L-H3-D64 D-0526-H3 D-5858-H3 D-5756-H3 |
|  | Cone rounded | D 6,0, T 10, R 17, L 49 | D 151 | D-0954-H3 |
|  | Cone inverted | D 2,4, d 1,5, a 20°, T 3, L 46 D 2,4, d 1,5, a 20°, T 3, L 46 D 6,5, d 3,5, a 15°, T 10, L 49 D 8,0, d 3,0, a 90°, T 2,15, L 42 | D 151 D 64 D 151 D 151 | D-0224-H3 D-0224-H3-D64 D-5456-H3 D-5062-H3 |
|  | Cone inverted, rounded end | D 6,0, d 3,5, a 20°, T 10, R 3, L 49 | D 151 | D-6154-H3 |

Shank diameter: Ø 3,0 mm

| | Shape | Dimensions | Grit Size | Item number |
|---|----------------|-----------------------------|-----------|-------------|
|  | Wheel | D 7,3, T 0,8, L 40 | D 151 | D-1525-H3 |
|  | Wheel | D 9,0, d 7, T 0,7, L 40 | D 151 | D-1018-H3 |
|  | Wheel | D 20, d 12,75, T 1,0, L 48 | D 151 | D-1539-H3 |
|  | Grinding wheel | D 17,2, d 14,6, T 2,4, L 48 | D 151 | D-1127-H3 |

Shank diameter: Ø 3,0 mm

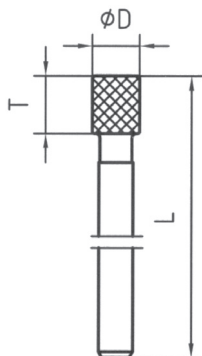
| | Shape | Dimensions | Grit Size | Item number |
|---|----------------|-----------------------------|--------------------------------|-------------|
|  | Grinding wheel | D 5,8, T 2,3, R 1, L 41 | D 151 | D-1422-H3 |
| | | D 9,8, T 3,4, R 1,5, L 42,2 | D 151 | D-1430-H3 |
|  | Cutting wheel | D 15,0, d 13,0, T 0,6, L 48 | D 151 | D-1021-H3 |
| | | D 18,0, d 16,0, T 0,6, L 48 | D 151 | D-1024-H3 |
| | | D 22,0, d 20,0, T 0,6, L 48 | D 151 | D-1031-H3 |
| | | D 36,0, d 34,0, T 1,0, L 48 | D 151 | D-1042-H3 |
|  | Grinding wheel | D 4,1, a 60°, T 1,5, L 40,2 | D 151 | D-1916-H3 |
| | | D 9,3, a 7,5°, T 1,3, L 41 | D 151 | D-1629-H3 |
|  | Grinding wheel | D 22,0, d 7,0, T 0,35, L 48 | D 151 | D-1231-H3 |
|  | | Cone | D 0,6, R 0,3, a 5°, T 18, L 46 | D151 |
| | | | | |

Diamond grinding pin sets - Shank diameter Ø 3,0 mm



| Description | Grit Size | Item number |
|--|---------------|-------------|
| <p>Set consisting of 1 each of the following Diamond points and pins in Grit size FEPA D 151.</p> <p>D-0116-H3 D-0130-H3 D-0320L-H3 D-0330L-H3 D-0720-H3 D-0521L-H3 D-5830-H3 D-0916L-H3 D-0924L-H3 D-0224-H3</p> | D 151 | SET-10A-3 |
| <p>Set consisting of 1 each of the following Diamond points and pins in Grit size FEPA D 64.</p> <p>D-0116-H3-D64 D-0130-H3-D64 D-0320L-H3-D64 D-0330L-H3-D64 D-0720-H3-D64 D-0521L-H3-D64 D-5830-H3-D64 D-0916L-H3-D64 D-0924L-H3-D64 D-0224-H3-D64</p> | D 64 | SET-10B-3 |
| <p>Set consisting of 1 each of the following Diamond points and pins in Grit size FEPA D 107 and D 151.</p> <p>D-0308L-H3 (D 107) D-0310L-H3 (D 107) D-0315L-H3 (D 107) D-0320L-H3 D-0325L-H3 D-0330L-H3 D-0116-H3 D-0120-H3 D-0124-H3 D-0130-H3</p> | D 107 / D 151 | SET-20A-3 |

Shank diameter: Ø 6,0 mm



| Shape | Dimensions | Grit Size | Item number |
|----------|------------------|-----------|-------------|
| Cylinder | D 6, T 8, L 60 | D 151 | D-0354L-H6 |
| | D 7, T 8, L 60 | D 151 | D-0358L-H6 |
| | D 8, T 8, L 60 | D 151 | D-0362L-H6 |
| | D 10, T 10, L 60 | D 151 | D-0370L-H6 |
| | D 12, T 10, L 60 | D 151 | D-0374L-H6 |
| | D 15, T 10, L 60 | D 151 | D-0380L-H6 |

Diamond Cutting Discs



Other dimensions and grit sizes available on request

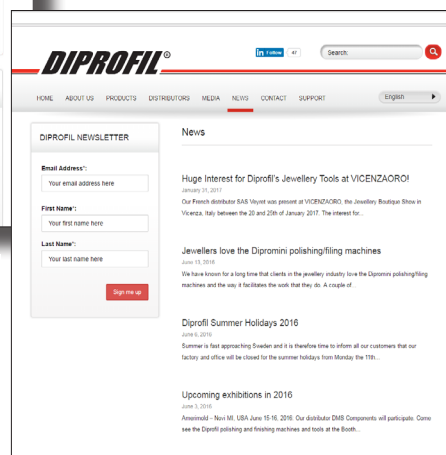
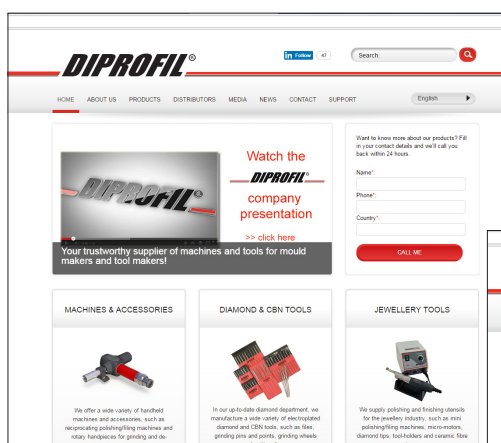
| Dimensions (Ø x Width x Bore Ø) | Grit Size | Item number |
|---------------------------------|-----------|-------------|
| 20 x 0,4 x 2,5 | D107 | ASEA-20/040 |
| 20 x 0,6 x 2,5 | D151 | ASEA-20/060 |
| 20 x 0,8 x 2,5 | D151 | ASEA-20/080 |
| 20 x 1,0 x 2,5 | D151 | ASEA-20/100 |
| 22 x 0,6 x 2,5 | D151 | ASEA-22/060 |
| 25 x 0,8 x 2,5 | D151 | ASEA-25/080 |
| 30 x 0,8 x 6 | D151 | ASEA-30/080 |
| 36 x 1,0 x 2,5 | D151 | ASEA-36/100 |

Mandrels for Diamond Cutting Discs



Hardened stainless mandrel shanks

| Type | Item number |
|--|-------------|
| Shank Ø 2,35 mm, Flange Ø 5 mm, Screw M2,5 | MLD/P |
| Shank Ø 3,0 mm, Flange Ø 6 mm, Screw M2,5 | MLE/P |



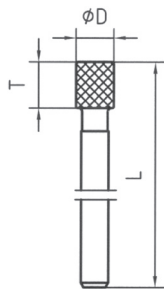
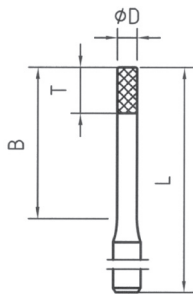
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Diprofil CBN Rotary Tools are made from carefully selected CBN (Cubic Boron Nitride), precisely bonded to obtain the best physical properties for added strength and resistance to wear. CBN tools are excellent for use on Tool Steels, Stainless Steels and Cast Iron. Other shapes, dimensions and grit sizes available on request at email address sales@diprofil.se

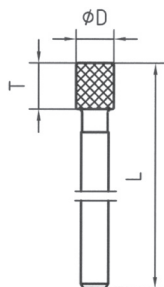


Shank diameter: Ø 3,0 mm



| Shape | Dimensions | Grit Size | Item number |
|--------------------|--------------------------|--------------------|-------------|
| Cylinder | D 0,8, T 4,0, B 7, L 46 | B 107 | B-0308L-H3 |
| | D 1,0, T 4,0, B 8, L 46 | B 107 | B-0310L-H3 |
| | D 1,5, T 4,0, B 10, L 46 | B 107 | B-0315L-H3 |
| | D 2,0, T 5,0, B 14, L 46 | B 151 | B-0320L-H3 |
| | D 2,5, T 5,0, B 19, L 46 | B 151 | B-0325L-H3 |
| | D 3,0, T 5,0, B 19, L 46 | B 151 | B-0330L-H3 |
| | Cylinder | D 3,5, T 5,0, L 44 | B 151 |
| D 4,0, T 5,0, L 44 | | B 151 | B-0340L-H3 |
| D 4,5, T 5,0, L 44 | | B 151 | B-0345L-H3 |
| D 5,0, T 6,0, L 45 | | B 151 | B-0350L-H3 |
| D 5,5, T 6,0, L 45 | | B 151 | B-0352L-H3 |
| D 6,0, T 6,0, L 45 | | B 151 | B-0354L-H3 |

Shank diameter: Ø 6,0 mm



| Shape | Dimensions | Grit Size | Item number |
|----------|------------------|-----------|-------------|
| Cylinder | D 6, T 8, L 60 | B 151 | B-0354L-H6 |
| | D 7, T 8, L 60 | B 151 | B-0358L-H6 |
| | D 8, T 8, L 60 | B 151 | B-0362L-H6 |
| | D 10, T 10, L 60 | B 151 | B-0370L-H6 |
| | D 12, T 10, L 60 | B 151 | B-0374L-H6 |
| | D 15, T 10, L 60 | B 151 | B-0380L-H6 |

DIAMOND COMPOUND



Universal Diamond Compound for rapid stock removal and superfine surface finish. Recommended for various types of precision superfinishing applications. Comes in handy applicator syringes containing 5, 10 or 20 grams.

Type OWS - Oil/Water soluble

| Micron size | Concentration | Colour code | Item number | | |
|-------------|---------------|-------------|-------------|--------------|--------------|
| | | | 5 grams | 10 grams | 20 grams |
| 1 | Low | Blue | | OWS-1-LC/10 | OWS-1-LC/20 |
| 1 | Medium | Blue | OWS-1-MC/5 | OWS-1-MC/10 | OWS-1-MC/20 |
| 1 | Heavy | Blue | OWS-1-HC/5 | OWS-1-HC/10 | OWS-1-HC/20 |
| 3 | Low | Green | | OWS-3-LC/10 | OWS-3-LC/20 |
| 3 | Medium | Green | OWS-3-MC/5 | OWS-3-MC/10 | OWS-3-MC/20 |
| 3 | Heavy | Green | OWS-3-HC/5 | OWS-3-HC/10 | OWS-3-HC/20 |
| 6 | Low | Yellow | | OWS-6-LC/10 | OWS-6-LC/20 |
| 6 | Medium | Yellow | OWS-6-MC/5 | OWS-6-MC/10 | OWS-6-MC/20 |
| 6 | Heavy | Yellow | OWS-6-HC/5 | OWS-6-HC/10 | OWS-6-HC/20 |
| 9 | Low | Red | | OWS-9-LC/10 | OWS-9-LC/20 |
| 9 | Medium | Red | OWS-9-MC/5 | OWS-9-MC/10 | OWS-9-MC/20 |
| 9 | Heavy | Red | OWS-9-HC/5 | OWS-9-HC/10 | OWS-9-HC/20 |
| 15 | Low | Brown | | OWS-15-LC/10 | OWS-15-LC/20 |
| 15 | Medium | Brown | OWS-15-MC/5 | OWS-15-MC/10 | OWS-15-MC/20 |
| 15 | Heavy | Brown | OWS-15-HC/5 | OWS-15-HC/10 | OWS-15-HC/20 |
| 30 | Low | Mahogany | | OWS-30-LC/10 | OWS-30-LC/20 |
| 30 | Medium | Mahogany | OWS-30-MC/5 | OWS-30-MC/10 | OWS-30-MC/20 |
| 30 | Heavy | Mahogany | OWS-30-HC/5 | OWS-30-HC/10 | OWS-30-HC/20 |
| 45 | Low | Purple | | OWS-45-LC/10 | OWS-45-LC/20 |
| 45 | Medium | Purple | OWS-45-MC/5 | OWS-45-MC/10 | OWS-45-MC/20 |
| 45 | Heavy | Purple | OWS-45-HC/5 | OWS-45-HC/10 | OWS-45-HC/20 |

Type plus

Diprofil Diamond Compound type PLUS is an enhancement of our standard type diamond compound especially developed for applications where extra heat stability and heat resistance is required.

As lubrication fluid for the type PLUS diamond compound we recommend using the Diprofil stoning oil type STO (page 58).

- Soluble in both oil and water
- Faster stock removal with better surface finish
- Better heat stability/resistance
- Creamier
- Softer
- Environmentally friendly
- Safe to use

| Micron size | Colour code | Net weight | Item number |
|-------------|-------------|------------|----------------|
| 1 | Blue | 10 g | OWS-1-10-PLUS |
| 3 | Green | 10 g | OWS-3-10-PLUS |
| 6 | Yellow | 10 g | OWS-6-10-PLUS |
| 8 | Red | 10 g | OWS-8-10-PLUS |
| 14 | Brown | 10 g | OWS-14-10-PLUS |
| 25 | Mahogany | 10 g | OWS-25-10-PLUS |
| 45 | Purple | 10 g | OWS-45-10-PLUS |
| 60 | Orange | 10 g | OWS-60-10-PLUS |
| 90 | White | 10 g | OWS-90-10-PLUS |

Lubricating fluids

| Solubility | Description | Item number |
|------------|----------------------|-------------|
| Oil | 450 ml Trigger spray | LFO-0,45 |
| Oil | 2,5 l bottle | LFO-2,5 |

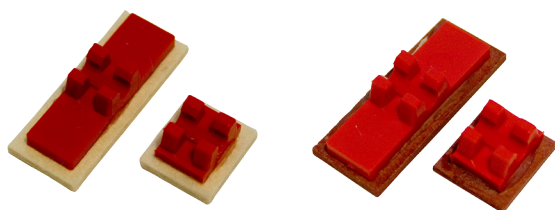
POLISHING, LAPPING AND HONING TOOLS



Diprofil offer a wide range of Honing and Lapping Tools for all kinds of polishing and super finishing applications. All Lapping Tools are excellent as carriers for the Diprofil Diamond Compound.

Polishing Tools on plastic shoes

Excellent for delicate polishing applications together with Polishing-/Filing machines and the Toggle rod type TR-3140.



| | | | Item number |
|-------|----------------|----------|-------------|
| Type | Dimension (mm) | Quantity | |
| Brass | 15x13x1,5 | 1 pc | MS-15x13 |
| Brass | 33x13x1,5 | 1 pc | MS-33x13 |
| Fibre | 15x13x1,5 | 1 pc | VF-15x13 |
| Fibre | 33x13x1,5 | 1 pc | VF-33x13 |
| Felt | 15x13x2 | 1 pc | FF-15x13 |
| Felt | 33x13x2 | 1 pc | FF-33x13 |

Toggle rod

Toggle rod for plastic shoes. Can easily be bent to an angle if required.

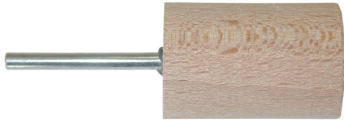
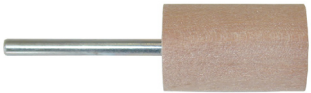
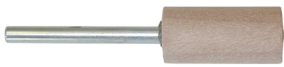



Shank Ø: 3,5 mm
Length: 140 mm





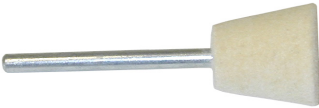

| Item number |
|-------------|
| TR-3140 |

Wood Bobs Shank Ø 3,0 mm

(shank Ø 3,0x30 mm)

| | Dimension Ø x T (mm) | Item number | |
|---|----------------------|-------------|-----------|
| | | Hard Wood | Soft Wood |
|  | Ø 20,0 x 30,0 | WB-2030/H | WB-2030/S |
|  | Ø 15,0 x 25,0 | WB-1525/H | WB-1525/S |
|  | Ø 10,0 x 20,0 | WB-1020/H | WB-1020/S |
|  | Ø 6,0 x 15,0 | WB-615/H | WB-615/S |
|  | Ø 10,0 | WB-10/H | WB-10/S |
|  | Ø 10,0 x 30,0 | WB-1030/H | WB-1030/S |

Felt Bobs Shank Ø 3,0 mm

| | Dimension Ø x T (mm) | Item number |
|---|---|-----------------------------------|
| | | |
|  | Ø 6,0x10,0 Ø 8,0x10,0 Ø 10,0x10,0 | FB-610-3 FB-810-3 FB-1010-3 |
|  | Ø 10,0x18,0 | FB-1018-3 |
|  | Ø 15,0/10,0x15,0 | FB-1515-3 |
|  | Ø 6,0x10,0 Ø 8,0x12,0 | FB-610R-3 FB-812R-3 |

Felt Bobs Shank Ø 3,0 mm



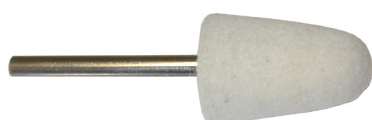
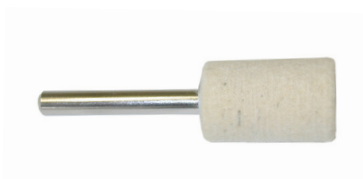
| Dimension Ø x T (mm) | Item number |
|--|--|
| Ø 6,0x10,0 Ø 8,0x12,0 | FB-610P-3 FB-812P-3 |
| Ø 6,0x10,0 Ø 8,0x12,0 | FB-610RC-3 FB-812RC-3 |
| Ø 6,0x10,0 Ø 8,0x12,0 Ø 7,0x15,0 | FB-610PC-3 FB-812PC-3 FB-715PC-3 |

Felt Bob set - Shank Ø 3,0 mm

Assortment containing 1 each of the above 14 pcs of felt bobs

| Item number |
|-------------|
| FB-SET-3 |

Felt Bobs Shank Ø 6,0 mm



| Dimension Ø x T (mm) | Item number |
|--|--|
| Ø 10,0x12,0 Ø 12,0x12,0 Ø 15,0x20,0 Ø 15,0x30,0 Ø 20,0x20,0 Ø 20,0x30,0 Ø 25,0x30,0 Ø 30,0x35,0 | FB-1012-6 FB-1212-6 FB-1520-6 FB-1530-6 FB-2020-6 FB-2030-6 FB-2530-6 FB-3035-6 |
| Ø 20,0x30,0 | FB-2030C-6 |
| Ø 15,0x20,0 | FB-1520RC-6 |
| Ø 30,0x20,0 | FB-3020R-6 |
| Ø 20,0x70,0 | FB-2070-6 |

Felt Bob set - Shank Ø 6,0 mm

Assortment containing 1 each of the above 12 pcs of felt bobs

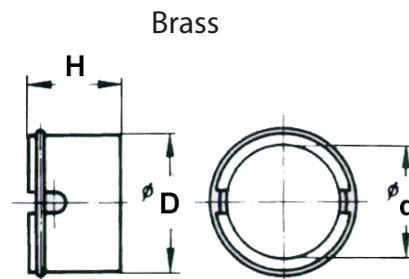
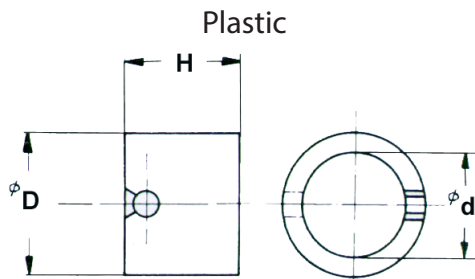
| Item number |
|-------------|
| FB-SET-6 |

Lapping Rings

Rotating tools for use together with Diamond Compound in various lapping and polishing applications.

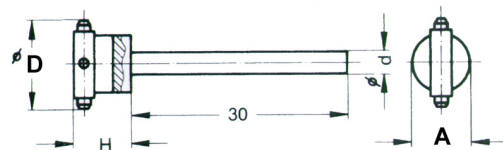


| Material | Type | Ø D (mm) | Ø d (mm) | Height (mm) | Quantity | Item number |
|----------|------|----------|----------|-------------|----------|-------------|
| Plastic | 8 | 9 | 6 | 6 | 10 pcs | LRP-8 |
| Plastic | 12 | 13 | 10 | 8 | 20 pcs | LRP-12 |
| Plastic | 20 | 21 | 17 | 14 | 10 pcs | LRP-20 |
| Brass | 8 | 8 | 6 | 6 | 10 pcs | LRB-8 |
| Brass | 12 | 12 | 10 | 8 | 20 pcs | LRB-12 |
| Brass | 20 | 20 | 17 | 14 | 10 pcs | LRB-20 |



Mandrels

Mandrels for use together with Lapping rings. Snaps on and keeps rings flat against the work surface.



| For use with: | Ø D (mm) | Shank Ø d (mm) | H (mm) | A (mm) | Item number |
|---------------|----------|----------------|--------|--------|-------------|
| Type 8 rings | 8 | 3,0 | 6 | 5 | M-8/3 |
| Type 12 rings | 12 | 3,0 | 7,5 | 8 | M-12/3 |
| Type 20 rings | 20 | 3,0 | 7,5 | 8 | M-20/3 |
| Type 20 rings | 20 | 6,0 | 11 | 9 | M-20/6 |

Wood Lapping Ribs



(total length 150 mm)

| Dimension (mm) | Item number | |
|----------------|-------------|-------------|
| | Hard wood | Soft wood |
| 3,0 x 3,0 | WLR-3030/H | WLR-3030/S |
| 4,5 x 4,5 | WLR-4545/H | WLR-4545/S |
| 6,5 x 6,5 | WLR-6565/H | WLR-6565/S |
| 3,0 x 7,0 | WLR-3070/H | WLR-3070/S |
| 8,0 x 12,5 | WLR-80125/H | WLR-80125/S |
| 8,0 x 19,0 | WLR-80190/H | WLR-80190/S |
| Ø 3,0 | WLR-30/H | WLR-30/S |
| Ø 4,5 | WLR-45/H | WLR-45/S |
| Ø 6,5 | WLR-65/H | WLR-65/S |

| Description | Item number |
|--|-------------|
| Assortment of 1 each of the above Hard Wood Ribs (9 pcs) | WLR-H |
| Assortment of 1 each of the above Soft Wood Ribs (9 pcs) | WLR-S |

Felt Polishing Ribs



(total length 150 mm)

| Dimension (mm) | Item number | |
|----------------|-------------|------------|
| | Hard felt | Soft felt |
| 6,0 x 6,0 | FPR-6060/H | FPR-6060/S |
| 10,0 x 10,0 | FPR-1010/H | FPR-1010/S |
| 12,0 x 12,0 | FPR-1212/H | FPR-1212/S |

| Description | Item number |
|--|-------------|
| Assortment of 3 each of the above Felt Polishing Ribs (18 pcs) | FPR-SET |

Felt Polishing Sticks



(shank Ø 3,2 mm)

| Dimension (mm) | Item number | |
|--------------------|-------------|------------|
| | Hard felt | Soft felt |
| 6,0 x 6,0 x 37,0 | FPS-6060/H | FPS-6060/S |
| 10,0 x 10,0 x 45,0 | FPS-1010/H | FPS-1010/S |
| 12,0 x 12,0 x 45,0 | FPS-1212/H | FPS-1212/S |

Description

Assortment of 1 each of the above Felt Polishing Sticks (6 pcs)

Item number

FPS-SET

Felt pads

Self-adhesive felt pads for final finishing applications together with the Felt pad holder type FPH-385 and diamond compound. Can be used by hand or together with Polishing-/Filing machines.



| Dimension (mm) | Quantity | Item number |
|----------------|----------|-------------|
| 20x10 | 50 pcs | FP-2010 |

Felt pad holder

Holder for self-adhesive Felt pads. 180° swivel shank in Ø 3,0mm. Total length of the shank is 85mm.

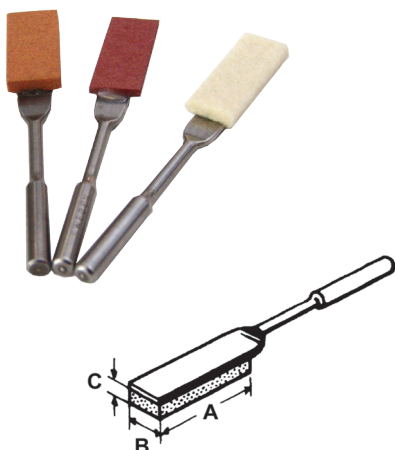


Item number

FPH-385

Lapping tools

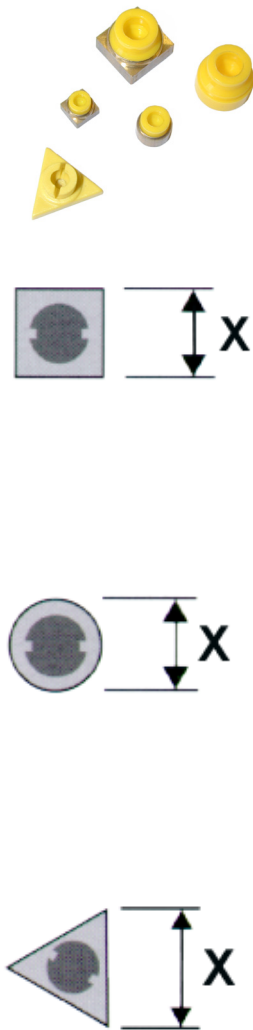
Rectangular lapping tools on shank diameter 3,0 mm



| Type | Dimensions (AxBxC) | Item number |
|--------|--------------------|-------------|
| Copper | 18 x 7 x 1 mm | LLB-2A |
| Fibre | 18 x 7 x 1,5 mm | LLB-4A |
| Felt | 18 x 7 x 3 mm | LLB-7A |

Lapping Bits

Lapping tools for use together with Diamond Compound and the Diprofil Polishing/Filing machines.



| Shape | Material | Size X (mm) | Quantity | Item number |
|------------|----------|-------------|----------|-------------|
| Square | Plastic | 4 | 50 | LBP-4S |
| Square | Plastic | 6 | 50 | LBP-6S |
| Square | Plastic | 8 | 50 | LBP-8S |
| Square | Brass | 4 | 25 | LBB-4S |
| Square | Brass | 6 | 25 | LBB-6S |
| Square | Brass | 8 | 25 | LBB-8S |
| Round | Plastic | 4 | 50 | LBP-4R |
| Round | Plastic | 6 | 50 | LBP-6R |
| Round | Plastic | 8 | 50 | LBP-8R |
| Round | Brass | 4 | 25 | LBB-4R |
| Round | Brass | 6 | 25 | LBB-6R |
| Round | Brass | 8 | 25 | LBB-8R |
| Triangular | Plastic | 7 | 50 | LBP-4T |
| Triangular | Plastic | 10 | 50 | LBP-6T |
| Triangular | Plastic | 14 | 50 | LBP-8T |
| Triangular | Brass | 7 | 25 | LBB-4T |
| Triangular | Brass | 10 | 25 | LBB-6T |
| Triangular | Brass | 14 | 25 | LBB-8T |

Ball-rods

For use together with Lapping bits.

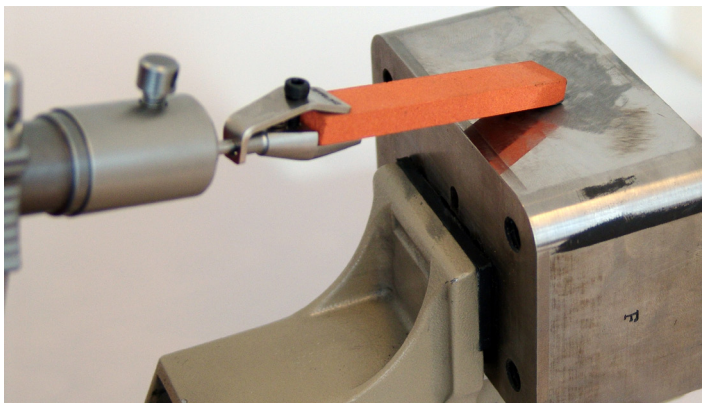
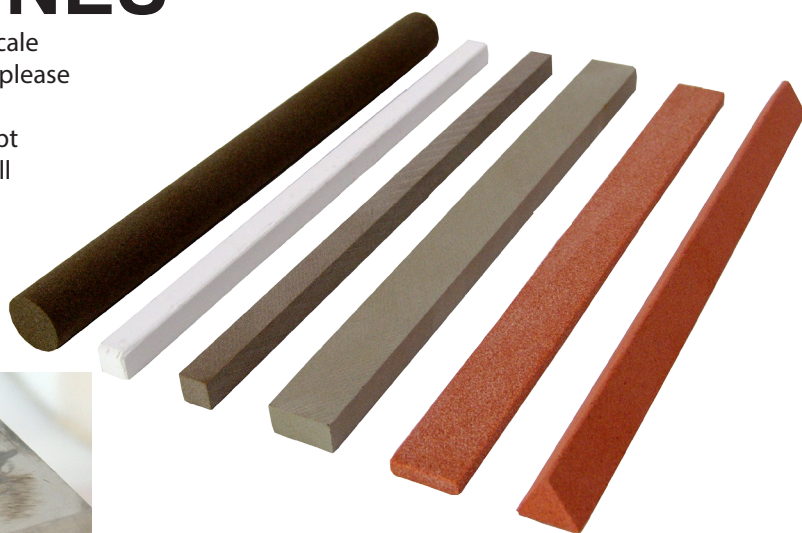


| Description | For use with: | Length (mm) | Item number |
|-------------|------------------|-------------|-------------|
| Straight | Size 4 & 7 bits | 140 | BRM-4S |
| Straight | Size 6 & 10 bits | 140 | BRM-6S |
| Straight | Size 8 & 14 bits | 140 | BRM-8S |
| Angle 120° | Size 4 & 7 bits | 140 | BRM-4A |
| Angle 120° | Size 6 & 10 bits | 140 | BRM-6A |
| Angle 120° | Size 8 & 14 bits | 140 | BRM-8A |

POLISHING STONES

Polishing Stones for finishing applications such as EDM-scale removal. For more information about recommended use please see the respective series as stated below.

All Polishing Stones comes in packages of 12 pieces except the ones marked with* that comes in boxes of 6 pieces. All grit sizes according to US Standard Mesh.



SSC

SSC: Medium-soft Silicon Carbide for general mould and die polishing. Breaks down evenly and retains shape. Will not load. Very fast cutting. Recommended for heat-treated surfaces. Also good for milled and turned surfaces.



| Size (mm) | Grit size | Item number |
|-----------|-----------|-------------|
| 6x6x100 | 220 | SSC-089 |
| " | 320 | SSC-090 |
| " | 400 | SSC-091 |
| " | 600 | SSC-092 |
| 13x3x100 | 220 | SSC-093 |
| " | 320 | SSC-094 |
| " | 400 | SSC-095 |
| " | 600 | SSC-096 |
| 13x6x100 | 220 | SSC-097 |
| " | 320 | SSC-098 |
| " | 400 | SSC-099 |
| " | 600 | SSC-100 |
| 13x13x100 | 220 | SSC-101* |
| " | 320 | SSC-102* |
| " | 400 | SSC-103* |
| " | 600 | SSC-104* |

FAO



FAO: Soft Aluminium Oxide. A very accurately graded aluminium oxide stone. Soft bonded with rapid breakdown for final finish work.

| Size (mm) | Grit size | Item number |
|-----------|-----------|-------------|
| 6x3x100 | 800 | FAO-130 |
| 6x6x100 | 800 | FAO-131 |
| 13x3x100 | 800 | FAO-132 |
| 13x6x100 | 800 | FAO-133 |
| 13x13x100 | 800 | FAO-134* |
| 6x3x150 | 900 | FAO-135 |
| 6x6x150 | 900 | FAO-136 |
| 13x3x150 | 900 | FAO-137 |
| 13x6x150 | 900 | FAO-138 |

SCM

SCM: Semi-hard Aluminium Oxide. Excellent for all mold and die surface finishing.
Fast cutting. Breaks down slower than the SSC. Good for fine EDM surfaces.



| Size (mm) | Grit size | Item number |
|-----------|-----------|-------------|
| 4x4x100 | 220 | SCM-141 |
| " | 320 | SCM-142 |
| " | 400 | SCM-143 |
| " | 600 | SCM-144 |
| 6x6x150 | 220 | SCM-158 |
| " | 320 | SCM-159 |
| " | 400 | SCM-160 |
| " | 600 | SCM-161 |
| 10x10x150 | 220 | SCM-163 |
| " | 320 | SCM-164 |
| " | 400 | SCM-165 |
| " | 600 | SCM-166 |
| 13x3x150 | 220 | SCM-173 |
| " | 320 | SCM-174 |
| " | 400 | SCM-175 |
| " | 600 | SCM-176 |
| 13x6x150 | 220 | SCM-178 |
| " | 320 | SCM-179 |
| " | 400 | SCM-180 |
| " | 600 | SCM-181 |
| Ø 10x150 | 220 | SCM-193 |
| " | 320 | SCM-194 |
| " | 400 | SCM-195 |
| " | 600 | SCM-196 |
| Ø 13x150 | 220 | SCM-198* |
| " | 320 | SCM-199* |
| " | 400 | SCM-200* |
| " | 600 | SCM-201* |

EDM

EDM: Hard Aluminium Oxide. A hard structured stone, especially developed for the removal of the hard "scale" left by the Electrical Discharge Machining process.



| Size (mm) | Grit size | Item number |
|--------------|-----------|-------------|
| 4x4x100 | 120 | EDM-001 |
| " | 180 | EDM-002 |
| " | 320 | EDM-003 |
| 6x3x150 | 120 | EDM-007 |
| " | 180 | EDM-008 |
| " | 320 | EDM-009 |
| 6x6x150 | 120 | EDM-010 |
| " | 180 | EDM-011 |
| " | 320 | EDM-012 |
| 13x3x150 | 120 | EDM-013 |
| " | 180 | EDM-014 |
| " | 320 | EDM-015 |
| 13x6x150 | 120 | EDM-016 |
| " | 180 | EDM-017 |
| " | 320 | EDM-018 |
| 10x10x150 | 120 | EDM-019 |
| " | 180 | EDM-020 |
| " | 320 | EDM-021 |
| 6x6x6x150 | 120 | EDM-100 |
| " | 180 | EDM-101 |
| " | 320 | EDM-102 |
| 10x10x10x150 | 120 | EDM-107 |
| " | 180 | EDM-108 |
| " | 320 | EDM-109 |
| 13x13x13x150 | 120 | EDM-114 |
| " | 180 | EDM-115 |
| " | 320 | EDM-116 |

HCM

HCM: Resilient resin bonded stone. Extremely snap resistant. Does not scratch or load. The resin helps produce a silky finish.



| Size (mm) | Grit size | Item number |
|-----------|-----------|-------------|
| 4x4x100 | 180 | HCM-031 |
| " | 220 | HCM-032 |
| " | 320 | HCM-033 |
| " | 600 | HCM-034 |
| Ø 4x100 | 320 | HCM-035 |
| 6x3x150 | 90 | HCM-042 |
| " | 120 | HCM-043 |
| " | 180 | HCM-044 |
| " | 220 | HCM-045 |
| " | 320 | HCM-046 |
| " | 600 | HCM-047 |
| 6x6x150 | 90 | HCM-048 |
| " | 120 | HCM-049 |
| " | 180 | HCM-050 |
| " | 220 | HCM-051 |
| " | 320 | HCM-052 |
| " | 600 | HCM-053 |
| 13x3x150 | 90 | HCM-054 |
| " | 120 | HCM-055 |
| " | 180 | HCM-056 |
| " | 220 | HCM-057 |
| " | 320 | HCM-058 |
| " | 600 | HCM-059 |
| 13x6x150 | 90 | HCM-060 |
| " | 120 | HCM-061 |
| " | 180 | HCM-062 |
| " | 220 | HCM-063 |
| " | 320 | HCM-064 |
| " | 600 | HCM-065 |

MOL

MOL: Semi-hard Aluminium Oxide. Widely used for removal of EDM surfaces and for finishing heat-treated moulds and dies. Especially good for slots and ribs. Stones are oil-filled to prevent loading. MOL Breaks down slowly and retains shape.



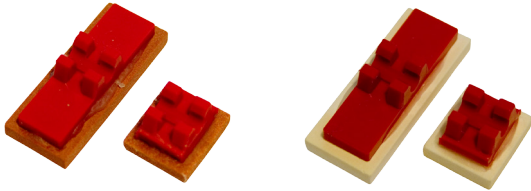
| Size (mm) | Grit size | Item number |
|-----------|-----------|-------------|
| 6x6x150 | 220 | MOL-248 |
| " | 320 | MOL-249 |
| " | 400 | MOL-250 |
| " | 600 | MOL-251 |
| 10x10x150 | 220 | MOL-253 |
| " | 320 | MOL-254 |
| " | 400 | MOL-255 |
| " | 600 | MOL-256 |
| 13x3x150 | 220 | MOL-263 |
| " | 320 | MOL-264 |
| " | 400 | MOL-265 |
| " | 600 | MOL-266 |
| 13x6x150 | 220 | MOL-268 |
| " | 320 | MOL-269 |
| " | 400 | MOL-270 |
| " | 600 | MOL-271 |
| Ø 10x150 | 220 | MOL-283 |
| " | 320 | MOL-284 |
| " | 400 | MOL-285 |
| " | 600 | MOL-286 |
| Ø 13x150 | 220 | MOL-288* |
| " | 320 | MOL-289* |
| " | 400 | MOL-290* |
| " | 600 | MOL-291* |

Polishing Stones on plastic shoes

Excellent for delicate stoning applications together with Polishing-/Filing machines and the Toggle rod type TR-3140. For more information about the characteristics of the polishing stones type EDM and MOL please see pages 56 and 57.

Item number

| Type | Dimension (mm) | Grit size | Quantity | Item number |
|------|----------------|-----------|----------|-------------|
| EDM | 33x13x3 | G120 | 1 pc | EDM-33-120 |
| EDM | 33x13x3 | G180 | 1 pc | EDM-33-180 |
| EDM | 33x13x3 | G320 | 1 pc | EDM-33-320 |
| MOL | 33x13x3 | G400 | 1 pc | MOL-33-400 |
| MOL | 33x13x3 | G600 | 1 pc | MOL-33-600 |



Toggle rod

Toggle rod for plastic shoes. Can easily be bent to an angle if required.

Shank Ø 3,5 mm
Length 140 mm



Item number

TR-3140

Stoning Oil

Description

Stoning Oil 5 litre bottle

Item number

STO-5,0

POLISHING STONES OF OTHER DIMENSIONS
AND GRIT SIZES AVAILABLE ON REQUEST.

Please send your inquiries to sales@diprofil.se

SUPER STONES AND GRINDERS



Ceramic stones for use together with all Diprofil filing and polishing machines, Diprosonic/Ultrasonic machines, or by hand. The Super Stones are recommended for general use when a thin tool is needed, especially on EDM surfaces.

Super stones

Diprofil Super Stones are available in a length of 150mm. All grit sizes according to US mesh.



| Dimension | Grit | Colour | Item number |
|-----------|------|-------------|-------------|
| 1 x 2 | 120 | Green | SE 102 L |
| 1 x 2 | 180 | Yellow | SG 102 L |
| 1 x 2 | 300 | Light Brown | SL102 L |
| 1 x 2 | 400 | Orange | SO 102 L |
| 1 x 2 | 600 | Brown | SP 102 L |
| 1 x 2 | 800 | Blue | SB 102 L |
| 1 x 2 | 1000 | White | SW 102 L |
| 1 x 2 | 1200 | Red | SR 102 L |
| 1 x 4 | 120 | Green | SE 104 L |
| 1 x 4 | 180 | Yellow | SG 104 L |
| 1 x 4 | 300 | Light Brown | SL104 L |
| 1 x 4 | 400 | Orange | SO 104 L |
| 1 x 4 | 600 | Brown | SP 104 L |
| 1 x 4 | 800 | Blue | SB 104 L |
| 1 x 4 | 1000 | White | SW 104 L |
| 1 x 4 | 1200 | Red | SR 104 L |
| 1 x 6 | 120 | Green | SE 106 L |
| 1 x 6 | 180 | Yellow | SG 106 L |
| 1 x 6 | 300 | Light Brown | SL106 L |
| 1 x 6 | 400 | Orange | SO 106 L |
| 1 x 6 | 600 | Brown | SP 106 L |
| 1 x 6 | 800 | Blue | SB 106 L |
| 1 x 6 | 1000 | White | SW 106 L |
| 1 x 6 | 1200 | Red | SR 106 L |
| 1 x 10 | 120 | Green | SE 110 L |
| 1 x 10 | 180 | Yellow | SG 110 L |
| 1 x 10 | 300 | Light Brown | SL110 L |
| 1 x 10 | 400 | Orange | SO 110 L |
| 1 x 10 | 600 | Brown | SP 110 L |
| 1 x 10 | 800 | Blue | SB 110 L |
| 1 x 10 | 1000 | White | SW 110 L |
| 1 x 10 | 1200 | Red | SR 110 L |

Super grinders

For use together with rotary handpieces with 3 mm collets as well as all Diprofil filing and polishing machines. The Super Grinders are recommended for general use especially on EDM surfaces. Total length 50 mm.



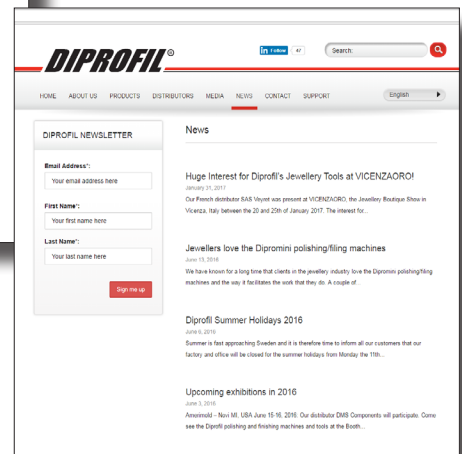
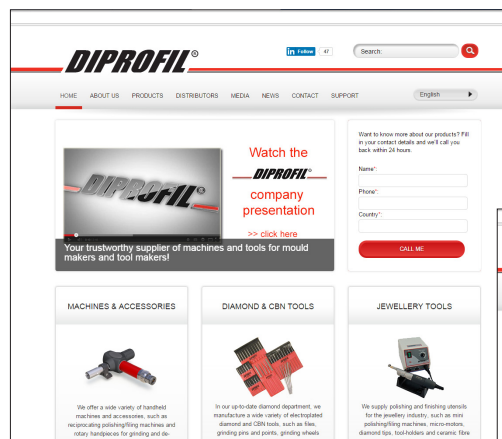
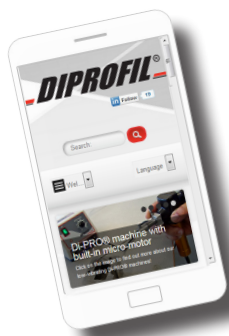
| Dimension | Grit | Colour | Item number |
|-----------|------|-------------|-------------|
| Ø 3 x 50 | 120 | Green | SED 3 A |
| Ø 3 x 50 | 180 | Yellow | SGD 3 A |
| Ø 3 x 50 | 300 | Light Brown | SLD 3 A |
| Ø 3 x 50 | 400 | Orange | SOD 3 A |
| Ø 3 x 50 | 600 | Brown | SPD 3 A |
| Ø 3 x 50 | 800 | Blue | SBD 3 A |
| Ø 3 x 50 | 1000 | White | SWD 3 A |
| Ø 3 x 50 | 1200 | Red | SRD 3 A |

Diamond super stones and super grinders

For use together with all Diprofil filing and polishing machines, Diprosonic/Ultrasonic machines or by hand. The Super Stones are recommended for general use when a thin tool is needed especially on EDM surfaces.



| Dimension | Grit | Colour | Item number |
|--------------|------|--------|-------------|
| 1 x 4 x 100 | 200 | Black | SDS-142 |
| 1 x 4 x 100 | 400 | Grey | SDS-144 |
| 1 x 4 x 100 | 600 | Green | SDS-146 |
| 1 x 6 x 100 | 200 | Black | SDS-162 |
| 1 x 6 x 100 | 400 | Grey | SDS-164 |
| 1 x 6 x 100 | 600 | Green | SDS-166 |
| 1 x 10 x 100 | 200 | Black | SDS-112 |
| 1 x 10 x 100 | 400 | Grey | SDS-114 |
| 1 x 10 x 100 | 600 | Green | SDS-116 |
| Ø 3 x 50 | 200 | Black | SDS 32 A |
| Ø 3 x 50 | 400 | Grey | SDS 34 A |
| Ø 3 x 50 | 600 | Green | SDS 36 A |



Make sure to keep yourself updated with the latest news from Diprofil by visiting our website www.diprofil.com

TOOL HOLDERS

Tool holders for polishing stones, super stones, super grinders and lapping ribs.



Polishing Stones holder



Tool holder for use with Polishing Stones or Lapping Ribs with maximum cross section area 6x6 mm or Ø 6 mm.

Item number

BEA

Polishing stones holder



Tool holder with pencil grip for Polishing Stones with maximum cross section area of 4x4 mm.

Item number

BEB

Universal tool holder



Tool holder for Super Stones, Super Grinders and Polishing Stones to be used together with the Diprofil Polishing/Filing Machines. Stainless hardened shank Ø 3,0 mm. Shank length approx. 35 mm. Maximum tool thickness 6 mm.

Item number

FMR/VH

Super Stone holder



Tool-holder made of hardened steel for use together with ceramic fibre stones (Super stones) and lapping-/polishing tools with a thickness of 1 mm.

Shank Ø: 3,0 mm
Shank length: 18 mm
Total length: 31,5 mm
Width: 8 mm
Weight: 4,3 g

Item number

THFS-1

Universal tool holder



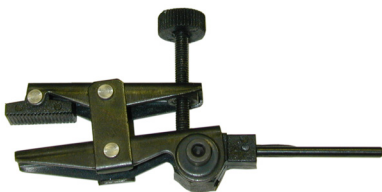
Tool-holder made of hardened steel for use together with polishing stones and lapping-/polishing tools with a thickness of 3 mm.

Shank Ø: 3,0 mm
Shank length: 18 mm
Total length: 31,5 mm
Width: 8 mm
Weight: 3,9 g

Item number

THPS-3

Tool holder

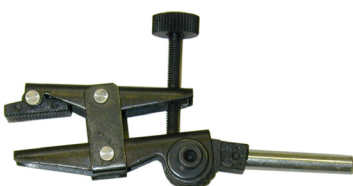


Tool holder for use in the Diprofil Polishing/Filing Machines together with Polishing Stones and Lapping Ribs with maximum cross section area 13x13 mm or Ø 13 mm.
Shank Ø 3,0 mm.

Item number

QEA/3

Tool holder

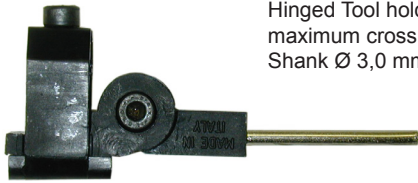


Same as QEA/3 but fitted with shank Ø 6,0 mm.

Item number

QEA/6

Tool holder

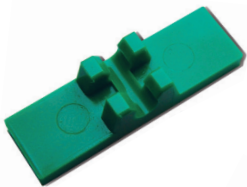


Hinged Tool holder for Polishing Stones and Lapping Ribs with maximum cross section area 11x13 mm or Ø 13 mm. Shank Ø 3,0 mm.

Item number

VEA

Plastic shoes / Tool holders



Plain plastic shoes for making your own special tools adapted to the specific application.

Item number

| Dimension (mm) | Quantity |
|----------------|----------|
| 30x9x2 | 10 pcs |

PS-309

Toggle rod

Toggle rod for plastic shoes. Can easily be bent to an angle if required.



Shank
Length

Ø 3,5 mm
140 mm

Item number

TR-3140

Super Stone holders



Tool holders for use with Super Stones.

Item number

For Super Stones, width 2 mm.
For Super Stones, width 4 mm.
For Super Stones, width 6 mm.
For Super Stones, width 10 mm.

SSH-2
SSH-4
SSH-6
SSH-10

Reduction sleeves

Reduction sleeves for use of tools with Ø 2,35 mm shanks in Ø 3,0 mm collets.



Length

14 mm
28 mm

Item number

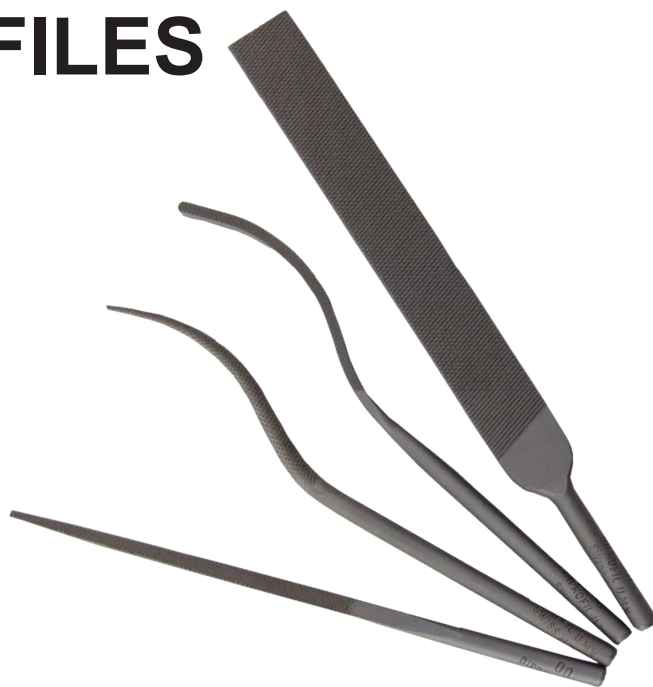
RHA
RHB

PRECISION STEEL FILES

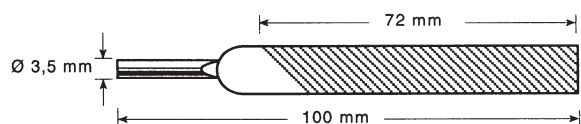
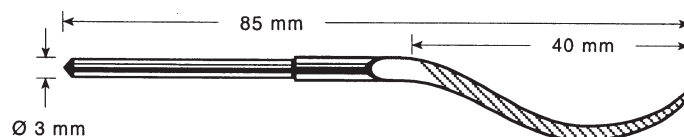
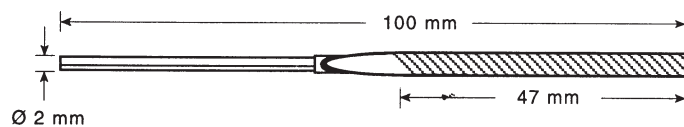
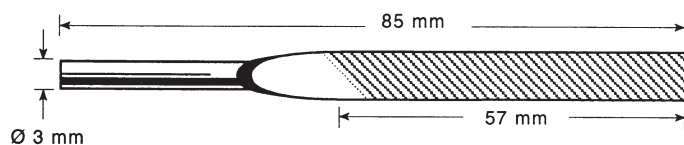
Diprofil precision steel files for use in soft and semi-hard steel as well as other materials of low to medium hardness.

Medium cut (-00) = 20 teeth/cm

Fine cut (-1) = 31 teeth/cm



Steel files



| Shape | Size mm | Item number | |
|-------|-------------|----------------|-------------|
| | | Medium Cut -00 | Fine Cut -1 |
| | 5x1,5 | STL-1-00/P | STL-1-1/P |
| | Ø3 | STL-2-00/P | STL-2-1/P |
| | 5x2 | STL-3-00/P | STL-3-1/P |
| | 5x2 | STL-4-00/P | STL-4-1/P |
| | 3,5x3,5x3,5 | STL-5-00/P | STL-5-1/P |
| | 2,5x2,5 | STL-6-00/P | STL-6-1/P |
| | 3,3x1 | STL-21-00/P | STL-21-1/P |
| | Ø2 | STL-22-00/P | STL-22-1/P |
| | 3,2x1,1 | STL-23-00/P | STL-23-1/P |
| | 3x1,3 | STL-24-00/P | STL-24-1/P |
| | 2,2x2,2x2,2 | STL-25-00/P | STL-25-1/P |
| | 1,7x1,7 | STL-26-00/P | STL-26-1/P |
| | 4x2 | STL-11-00/P | STL-11-1/P |
| | Ø3 | STL-12-00/P | STL-12-1/P |
| | 4,7x2,5 | STL-14-00/P | STL-14-1/P |
| | 3x3 | STL-16-00/P | STL-16-1/P |
| | 10x2,5 | STL-101-00/P | STL-101-1/P |

NEW 2017!

DIPROFIL/ VALLORBE STEEL FILES TYPE MINI

Steel files for use on soft to medium-hard steel
as well as on other similar materials.

An excellent choice when working with the Dipromini polishing/filing machine.

Medium cut (-0) = 25 teeth/cm

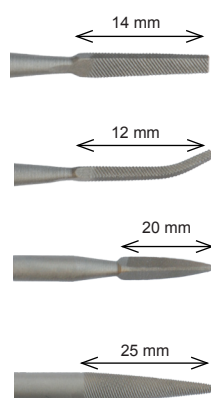
Fine cut (-4) = 56 teeth/cm





Total length = 40 mm

Shaft = aprox. Ø 3



Steel Files



| Shape | Size (mm) | Item number | |
|---|-----------------|--------------|------------|
| | | Medium Cut-0 | Fine Cut-4 |
|  | 2 x 1,2 | STL-910-0 | STL-910-4 |
|  | 2 x 1,2 | STL-911-0 | STL-911-4 |
|  | 2,6 x 2,6 x 2,6 | STL-941-0 | STL-941-4 |
|  | Ø 3,1 | STL-980-0 | STL-980-4 |



DIAMOND & CBN GRIT SIZES COMPARISON TABLE

D = Synthetic Diamonds

B = CBN (Cubic Boron Nitride)

| FEPA standard | | U.S. standard mesh | | Grit size (microns) |
|---------------|---------|--------------------|-------|---------------------|
| dense | wide | dense | wide | |
| D 1181 | | 16/18 | | 1180 – 1000 |
| | D 1182 | | 16/20 | |
| D 1001 | | 18/20 | | 1000 – 850 |
| | | | | |
| D 851 | | 20/25 | | 850 – 710 |
| | D 852 | | 20/30 | |
| D 711 | | 25/30 | | 710 – 600 |
| | | | | |
| D 601 | | 30/35 | | 600 – 500 |
| | D 602 | | 30/40 | |
| D 501 | | 35/40 | | 500 – 425 |
| | | | | |
| D 426 | | 40/45 | | 425 – 355 |
| | D 427 | | 40/50 | |
| D/B 356 | | 45/50 | | 355 – 300 |
| | | | | |
| D/B 301 | | 50/60 | | 300 – 250 |
| | | | | |
| D/B 251 | | 60/70 | | 250 – 212 |
| | D/B 252 | | 60/80 | |
| D/B 213 | | 70/80 | | 212 – 180 |
| | | | | |
| D/B 181 | | 80/100 | | 180 – 150 |
| | | | | |
| D/B 151 | | 100/120 | | 150 – 125 |
| | | | | |
| D/B 126 | | 120/140 | | 125 – 106 |
| | | | | |
| D/B 107 | | 140/170 | | 106 – 90 |
| | | | | |
| D/B 91 | | 170/200 | | 90 – 75 |
| | | | | |
| D/B 76 | | 200/230 | | 75 – 63 |
| | | | | |
| D/B 64 | | 230/270 | | 63 – 53 |
| | | | | |
| D/B 54 | | 270/325 | | 53 – 45 |
| | | | | |
| D/B 46 | | 325/400 | | 45 - 38 |

In addition to the grits included in the FEPA-standard, Diprofil also offers tools in the following grit sizes:

D 30 36 - 22 micron
D 15 22 - 12 micron

DIPROFIL[®]

DIAMANTPRODUKTER AB, SWEDEN

Phone: +46-(0)8-546 509 60

Fax: +46-(0)8-546 509 61

e-mail: info@diprofil.se

www.diprofil.com