

# ROTARY HANDPIECES

FOR EFFICIENT POLISHING AND FINISHING OPERATIONS



Rotary handpieces are for efficient grinding, polishing and finishing operations with tools such as the diamond and CBN pins, felt bobs and wood bobs.

All rotary handpieces come with the necessary tools and accessories.

## Rotary Handpiece Type HPX



### Technical data

<b>Drive source:</b>	This hand-piece should be connected to a flexible-shaft of either European standard (Slip-joint) or US standard (Ball-joint, key-hole)
<b>Collet:</b>	Ø 3.0 and Ø 6.0 mm (Ø 2.35 mm (3/32") available as an accessory)
<b>Speed:</b>	Max. 18.000 rpm
<b>Weight:</b>	300 g
<b>Dimensions:</b>	Ø 31 x 171 mm
<b>Noise level:</b>	< 70 dB(A) at 18.000 rpm
<b>Vibration levels:</b>	< 2,5 m/s <sup>2</sup>
<b>Item No:</b>	<b>HPX-S</b> (European standard slip-joint connection) <b>HPX-B</b> (US standard ball-joint, key-hole connection)

## Flexible-Shaft Drive - Slip Joint Connection



**Straight Rotary Handpiece** supplied with collet Ø 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/s<sup>2</sup>

Collet	Item number
Ø 3,0 mm	HSE/D3,0

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## 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/s<sup>2</sup>

**Item number:** C-HPM-B1

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## 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: L159 x Ø27 mm  
Noise: < 70 db(A) at 40.000 rpm  
Vibrations: < 2,5 m/s<sup>2</sup>

**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:	L159 x Ø27 mm
Noise:	< 70 db(A) at 50.000 rpm
Vibrations:	< 2,5 m/s <sup>2</sup>

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 handpiece 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 <sup>2</sup>

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<sup>2</sup>

### 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<sup>2</sup>

Item number: HPM-BL1

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

To be replaced with new one.

## Flexible-Shaft



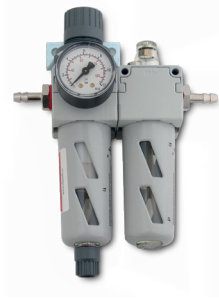
Flexible-shaft (**UKB-3/30T**) with slip joint connection for the DSE-47 motor.  
Inner cable Ø 5 mm.

Item number: UKB-3/30T

## Suspension Stand

To be replaced with new one.

## 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