Powerful machines with flexible shafts fulfill every wish of every mold maker

For all grinding work, stationary or at worksites. There are no limits to the range of applications for which the flexible shaft machines can be used. Mechanical gears for compact and direct power transmission.

Flexible shaft machines: Facts

The separation of drive unit and the tool itself provides for complete freedom of operation, without fatigue, during long working periods. Additionally, areas difficult to reach with other tools can be worked effectively with flexible shaft machines.

Some advantages of machines with flexible shafts:

- Wider fields of application, with universal combination possibilities.
- Light and handy tools, related to specific performance.
- Operation in restricted areas.
- Wide speed range.
- Constant speed.
- High cutting capacity.
- Unaffected by constant rough working conditions.
- Rugged construction – long working life.
- Pollution-free – low noise levels.
MINIFIX
Precision work in a class of its own

Very lightweight and easy to handle, fatigue-free operation guaranteed.
Intricate right-angled and straight handpieces for optimum application.

MINIFIX 25-R:
Integrated variable tachometer electronics
Speed control from 11000–25000 RPM

MINIFIX 9-R:
Integrated variable tachometer electronics
Speed control from 4000–9000 RPM

Areas of application:
Tool and mould design, jewellery and dental industry, engine tuning, modelmaking, etc., for use with carbide burnis, grinding tips, tip wheels up to Ø40 mm, wire brushes up to Ø40 mm, polishing bobs, felt polishing bobs, non-woven fibre brushes and discs.

Technical data
Universal motor, fully insulated, 230/120 V, 50/60 Hz
Power input:
MINIFIX 25-R 500 W
MINIFIX 9-R 500 W
Idling speed:
MINIFIX 25-R 11000–25000 RPM
MINIFIX 9-R 4000–9000 RPM
Flexible shaft connection: DIN 19
Vibration dampening for low-vibration motor

Standard equipment
Tool only. 3 m cable with plug, 2 locking pins, type 10
MINIFIX 25-R set:
- Voltage: 230 V, 50 Hz
- Order No.: 110 153
- Weight: 4.650 kg
- Voltage: 120 V, 60 Hz
- Order No.: 110 154

Complete flexible shaft set:
- Fully insulated drive motor, 3 m cable with plug.
- Flexible shaft NA 4 x 1250 mm DIN 10/G16, H4 tool holder with 6 mm collet.
- Tool set: 1 ceramic-bond mounted point K 0816 V, B 1303 Y, F 0800 V, 1 mounted polishing point FPB 1206, 1 set of spanners, metal carrier case.

Combination options:

MINIFIX 25-R
- Voltage: 230 V, 50 Hz
  - Order No.: 110 163
  - Weight: 1.650 kg
- Voltage: 120 V, 60 Hz
  - Order No.: 110 164

MINIFIX 9-R
- Voltage: 230 V, 50 Hz
  - Order No.: 110 202
  - Weight: 2.300 kg
- Voltage: 120 V, 60 Hz
  - Order No.: 110 203

DIN 10 extension system
- Connection for flexible shaft machine Minfix 9-R: 1.100 kg
- Extension, length ±00 mm: 1.150 kg
- Extension, length 000 mm: 2.800 kg
- Extension, length 140 mm (6 mm collet): 0.360 kg
- Individually combinable to required length, up to max. 5 m.
**ROTOSET**

*Taking it to the next level*

Power tools with universal motor.

**ROTOSET 25-R:**
- Integrated variable tachometer electronics
- Speed control from 11,000 to 25,000 RPM
- Constant operating speeds, even under load
- Overload protection

**ROTOSET 28: 28,000 RPM high-speed power tool, without electronics**
- Suitable for use with external speed controllers, e.g., with SC 01 controllerable from approx. 10,000 to 28,000 RPM.

**Areas of application:**
- Grinding, milling, roughing, cutting, brushing and polishing for DIY, precision engineering, tool and mould design, engine tuning, assembly work.

**Technical data**
- Universal motor, fully insulated, 230/120 V, 50/60 Hz
- Power input:
  - ROTOSET 25-R, 1000 W
  - ROTOSET 28, 750 W
- Idling speed:
  - ROTOSET 25-R, 11,000–25,000 RPM
  - ROTOSET 28, 28,000 RPM
- Flexible shaft connection: DIN 19
- Vibration damping for low-vibration motor

**Standard equipment**
- Tool only, 3 m cable with plug, 2 locking pins, type 10
**Type**

<table>
<thead>
<tr>
<th>Designation</th>
<th>Voltage</th>
<th>Order No.</th>
<th>Weight kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROTOSET 25-R Set</td>
<td>230 V, 50 Hz</td>
<td>110 159</td>
<td>11.000</td>
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<td></td>
<td>120 V, 60 Hz</td>
<td>110 160</td>
<td></td>
</tr>
<tr>
<td>ROTOSET 28 Swl</td>
<td>230 V, 50 Hz</td>
<td>110 157</td>
<td>11.000</td>
</tr>
<tr>
<td></td>
<td>120 V, 60 Hz</td>
<td>110 158</td>
<td></td>
</tr>
</tbody>
</table>

**Complete ROTOSET kit:**

Universal motor, fully insulated, with combined foot and suspension bracket, 2 m cable and plug. Flexible shaft NA 7 × 2000 mm, DIN 106222; FH 7 tool holder with 6 mm collet; angle grinder attachment WAG 7 (2:1 reduction ratio) with wheel guard and flange for grinding and cutting wheels 115 mm Ø.

Tool set:
- 1 grinding disc 115 mm Ø, 1 cutting disc 115 mm Ø, 1 steel wire cup brush TDB 70, 70 mm Ø, 1 synthetic backing pad type 505 110, 2 off conundrum fibre wheels type KPS 115 ST grain 60 and 120, 1 set of spanners, sturdy metal carrier case.

**Type**

<table>
<thead>
<tr>
<th>Designation</th>
<th>Voltage</th>
<th>Order No.</th>
<th>Weight kg</th>
</tr>
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<tbody>
<tr>
<td>SC 01</td>
<td>230 V, 50 Hz</td>
<td>110 039</td>
<td>1.200</td>
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<td></td>
<td>120 V, 60 Hz</td>
<td>110 070</td>
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</table>

Electronic speed controller for ROTOSET 28

**Combination options**

**Type**

<table>
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<th>Designation</th>
<th>Voltage</th>
<th>Order No.</th>
<th>Weight kg</th>
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<td></td>
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<td>DIN10</td>
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<td>Voltage</td>
<td>Order No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>230 V, 50 Hz</td>
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<tr>
<td>120 V, 60 Hz</td>
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<td></td>
<td></td>
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</table>

**Type**

<table>
<thead>
<tr>
<th>Designation</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FH 7 (6 mm)</td>
<td>49 530 01</td>
</tr>
<tr>
<td>G 22</td>
<td></td>
</tr>
<tr>
<td>WI 7 (6 mm)</td>
<td>57 645 01</td>
</tr>
<tr>
<td>WI 7-45° (6 mm)</td>
<td>57 662 01</td>
</tr>
<tr>
<td>WIG 7 (2:1)</td>
<td>49 608 04</td>
</tr>
<tr>
<td>WB 7</td>
<td>110 221</td>
</tr>
</tbody>
</table>
The starring role when versatility is key

**Suhner** high-performance tool with fully insulated motor.

- High torque at all speed levels due to eccentric gear reduction.
- For high-performance work even in areas difficult to access.
- Jolt-free soft start (230 V types) for enhanced operating safety.
- Startup current limitation for use on power grids with low fuse ratings or em generators.

**Areas of application:**
- Cutting, roughing, milling, grinding, de-nutting, brushing, polishing, for medium to heavy-duty work in mechanical workshops, fitters and metalworking shops, tool and mould design, and off-site assembly work.

**Technical data**
- Universal motor, fully insulated, 230/120 V, 50/60 Hz
- Power input: 1700 W
- Speeds: 3000, 6000, 12000 RPM (mechanical, through eccentric gear)
- Flexible shaft connection: DIN 10
- Vibration dampening for low-vibration motor

**Standard equipment**
- Tool only: 3 m cable with plug, 2 locking pins, type 10
**Type** | **Designation** | **Voltage** | **Order No.** | **Weight kg**
---|---|---|---|---
**ROTOSTAR set** | 130 V, 50 Hz, single phase | 110 143 | 19.800 |
| 120 V, 60 Hz, single phase | 110 144 |

**Complete flexible shaft set:**
Fully insulated universal motor with 3 speeds (3000, 6000, 12080 RPM), 3 m cable with plug, with flexible shaft NA 10×2000 mm DIN 1567.
G28, FH 10 tool holder with 6 mm collet, sturdy metal carrier case, set of spanners.

**Combination options**
ROTOFIX
The all-rounder

Gear-driven tool with 5 speeds.
Extremely rugged design for trouble-free operation.
Three-phase motor for optimum use of tool and grinding attachments.
Multi-purpose tool with extensive selection of Suhner quality accessories.
Choice of 3 models:
F: with base plate
STM: trolley-mounted
HML: with suspending attachment

Technical data:
Three-phase motor, IP 44 protection class
Power input: 0.50 kW
Voltage 400 V, 50 Hz
Speeds 750, 1400, 3000, 6300 and 11000 RPM
Flexible shaft connection:
for Switzerland and for general exports:
G28 (type HM DIN 10);
for Germany, Denmark, and Holland:
DIN 10
Motor and gear drive fully enclosed and jacket-cooled, with built-in ON/OFF switch, carrying handle, 3 m cable, manually switchable gear change at standstill, swivel-mounted unit.
Also available with insulation coupling.

Protection class 1

Areas of application:
Grinding, milling, brushing, polishing and drilling for mould and tool design, in mechanical workshops, in the shoe and glass industry.
**ROTOFIX**

**F**

Flexible shaft connection:  
G 28 | DIN 10  
---|---  
Order No. | 110 007 | 110 008  
Weight kg | 11.500 | 11.000  

**STM**

G 28 | DIN 10  
---|---  
Order No. | 110 011 | 110 012  
Weight kg | 31.800 | 31.800  

**HM**

DIN 10  
Order No. | 110 010  
Weight kg | 12.150

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**Combination options**

**Type** | **Order No.**  
---|---  
NA 4 x 1250 G 28 / G 16 | 30 001 02  
NA 7 x 1500 G 28 / G 22 | 30 009 02  
RG G 28 | 10 510 01  

**Type** | **Order No.**  
---|---  
FH 4 (6 mm) | 57 570 01  
Wi 4 (3 mm) | 57 661 01  
FH 7 (6 mm) | 49 520 01  
Wi 7 (6 mm) | 57 645 01  

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**ROTOFIX G 28**  
0.35 kW  
750, 1400, 3000, 6300 and 11000 RPM

**ROTOFIX DIN 10**  
0.35 kW  
750, 1400, 3000, 6300 and 11000 RPM

High-speed gear unit RG for speeds in excess of 12000 RPM with NA 4 and NA 7.

The machines are supplied without a plug.  
A suitable plug must therefore be fitted by an approved and qualified specialist.
**ROTOFERA**

The seven-speed genius

Gear-driven tool with 7 speeds – saves energy and costs.

Long service life and maximum performance with 1.00 kW three-phase motor.

Versatile multi-purpose machine, backed up by an extensive range of Suhner quality accessories.

Very rugged aluminium housing for use in industrial applications.

Choice of 3 models:

- F: with basic plastic
- STM: trolley-mounted
- HM: with suspending attachment

**Areas of application:**

Cutting, roughing, grinding, milling, de-rusting, brushing and polishing. For exacting work in mechanical workshops, fitters' shops and metalworking shops, in mould and tool design, in stainless steel processing plants (kitchen and hospital accessories).

**Technical data:**

- Three-phase motor, IP 44 protection class
- Power input 1.00 kW
- Voltage 400 V, 50 Hz
- Speeds 850, 1600, 2100, 3200, 5700, 8000 and 12000 RPM

Flexible shaft connection:

- for Switzerland and for general exports: C26 (type HN DIN 10);
- for Germany, Denmark and Holland: DIN 10

Motor and gear drive fully enclosed and jacket-cooled, with built-in ON/OFF switch, carrying handle; 3 m cable, manually switchable gear change at standstill, swivel-mounted unit.

Also available with insulation coupling

**Protection class 1**
**ROTOFERA**

Flexible shaft connection:

<table>
<thead>
<tr>
<th>Type</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>G 28</td>
<td>110 019</td>
</tr>
<tr>
<td>DIN 10</td>
<td>110 020</td>
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<tr>
<td>G 28</td>
<td>110 023</td>
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<tr>
<td>DIN 10</td>
<td>110 024</td>
</tr>
<tr>
<td>G 28</td>
<td>110 022</td>
</tr>
<tr>
<td>DIN 10</td>
<td>111 024</td>
</tr>
<tr>
<td>16.000</td>
<td>110 020</td>
</tr>
<tr>
<td>16.000</td>
<td>37.700</td>
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<tr>
<td>37.700</td>
<td>16.600</td>
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</tbody>
</table>

**Combination options**

**ROTOFERA G 28**

1.0 kW
850, 1600, 2100, 3200, 5700, 8000 and 12000 RPM

**Type**

- NA 10 x 1500 G 28 / G 28
- NA 10 x 2000 G 28 / G 28
- NA 12 x 2000 G 28 / G 28

**Order No.**

- 30 015 02
- 30 015 03
- 30 028 02

**ROTOFERA DIN 10**

1.0 kW
850, 1600, 2100, 3200, 5700, 8000 and 12000 RPM

High-speed gear unit RG for speeds in excess of 12000 RPM with NA 4 and NA 7.

**Type**

- NA 10 x 1500 DIN 10 / G 28
- NA 10 x 2000 DIN 10 / G 28
- NA 12 x 2000 DIN 10 / G 28

**Order No.**

- 30 026 02
- 30 026 03
- 30 029 02

**RG DIN 10**

10 510 01

**RG G 28**

10 510 01

**FH 10 (6 mm)**

57 170 01

**FH 12 (12 mm)**

48 265 01

**WI 10 (6 mm)**

57 645 08

**WB 19**

110 222

**65G 18/59 only with NA 10**

52 630 01

The machines are supplied without a plug. A suitable plug must therefore be fitted by an approved and qualified specialist.
ROTAR
The powerhouse with a multitude of possibilities

Six-speed gear-driven tool.
Ideally suited for heavy-duty work.
Trouble-free multi-purpose tool backed up by an extensive range of Suhner® quality accessories.
Available in 2 motor sizes:
2.40 kW or 3.20 kW.
Choice of 3 models:
F: with base plate
STM: trolley-mounted
H: with suspending attachment

Areas of application:
Grinding, cutting, roughing, de-rusting, polishing, brushing, etc. For heavy-duty work in foundries, in the boiler-making and steel industries, in mechanical workshops, and in stainless steel processing plants.

Technical data:
Three-phase motor, IP44 protection class
Power input 2.40 kW or 3.20 kW
Voltage 400 V; 50 Hz
Speed range (V): 1000, 1700, 2700, 5100, 7300 and 19500 RPM
Motor and gear drive fully enclosed and jacket-cooled
Flexible shaft connection: DIN15
Star-delta switch with 3 m cable, manually switchable gear change at standstill, swivel-mounted unit
Also available with insulation coupling

Protection class 1
**ROTAR**

<table>
<thead>
<tr>
<th>Power Input</th>
<th>2.40 kW</th>
<th>3.20 kW</th>
<th>2.40 kW</th>
<th>3.20 kW</th>
<th>2.40 kW</th>
<th>3.20 kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order No.</td>
<td>110 032</td>
<td>110 035</td>
<td>110 031</td>
<td>110 034</td>
<td>110 033</td>
<td>110 036</td>
</tr>
<tr>
<td>400 V, 50 Hz, three-phase</td>
<td>110 032</td>
<td>110 033</td>
<td>110 034</td>
<td>110 035</td>
<td>110 036</td>
<td>110 037</td>
</tr>
<tr>
<td>42 V, 50 Hz, three-phase</td>
<td>110 032 04</td>
<td>110 033 04</td>
<td>110 034 04</td>
<td>110 035 04</td>
<td>110 036 04</td>
<td>110 037 04</td>
</tr>
<tr>
<td>Weight kg</td>
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<td>35.500</td>
<td>50.500</td>
<td>55.250</td>
<td>29.500</td>
<td>34.250</td>
</tr>
</tbody>
</table>

**Combination options**

- **Type** | **Order No.**
- DIN 15
- NA 10 x 2000 DIN 15 / G 28 | 30 027 03
- NA 12 x 2000 DIN 15 / G 28 | 30 030 02
- NA 15 x 2000 DIN 15 / G 35 | 30 022 02

- **Type** | **Order No.**
- 8SG 10/50 | 52 620 01
- FH 15 (12 mm) | 10 311 01
- WH 15 (MK 2) | 10 340 01

The machines are supplied without a plug. A suitable plug must therefore be fitted by an approved and qualified specialist.