

**FEIN. Unverwüstliche
Elektrowerkzeuge.**



FEIN High Frequency Catalog 2012/2013.







In continuous use for over 50 years: FEIN high-frequency grinders.

As one of the first manufacturers of high-frequency power tools and a world leader, we know exactly the requirements that are demanded in an industrial environment. FEIN has built durable, high-performance, application-oriented grinders for use in industry and trades since 1953. In various performance classes for tough continuous use – for example in foundries, metalworking or shipbuilding. From handy compact angle grinders to extremely powerful, large angle grinders and a wide range of straight grinders, the FEIN high frequency range covers every grinding need.

You can find out what the FEIN high-frequency range has to offer on the following pages.

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FEIN high-frequency – the advantage in industrial production.

In electrical engineering, only frequencies over 10 kHz are designated as high-frequency. However, with power tools, this term has been adopted for all grid frequencies that exceed standard grid frequencies (50/60 Hz). Today, high-frequency power tools mainly use a frequency of 300 Hz.

Why is the power at the outlet raised to a higher frequency? One reason is demand for higher performance. Higher power is achieved by raising the frequency. Motor output also increases in direct proportion to the higher frequency. At 300 Hz, power is six times greater, because frequency has been raised six times – from 50 to 300 Hz. The frequency converters that are needed to raise the electrical power to the higher frequency are connected to the public single or three phase power supply.

There are numerous additional advantages in the use of high-frequency power tools in an industrial environment: productivity increases demonstrably; due to increased power, constant speeds even under load and the associated high cutting performance. The tool wear is minimized. At the same time, FEIN high-frequency power tools are designed and built for maximum loading capacity and minimal maintenance expense. They have longer service lives and less down time, resulting in lower maintenance and repair expense. In constant industrial use, for example in multiple shift operation, the decision in favor of FEIN high frequency is a decision for greater cost-effectiveness.

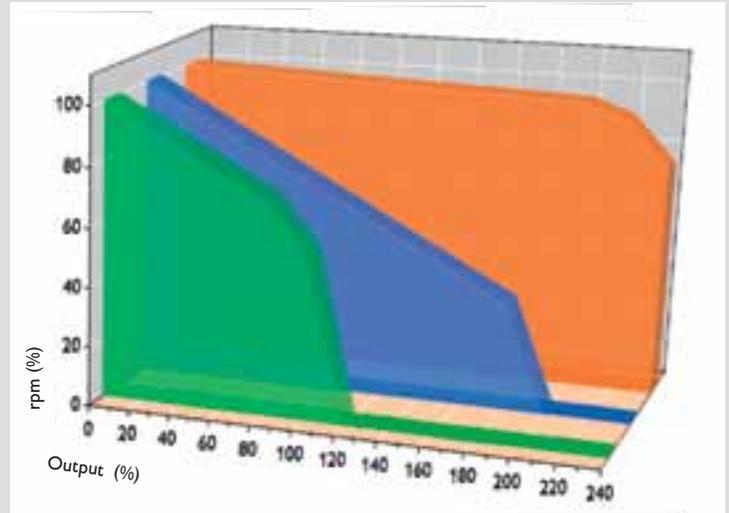
Maximum performance in constant use.

Higher frequency, constant speed and torque, higher performance. The superior machine design of FEIN high-frequency power tools makes them particularly suitable to use in metalwork, for heavy-duty grinding and continuous use when roughing-down or cutting under the toughest conditions.

Thanks to design-related measures like induction motors and the fact that wearing power-transmitting parts are not used, FEIN high-frequency power tools satisfy very high robustness and service life requirements. They have power reserves that average at least 100% more than the rated value. In practice, this means the speed remains constant over the entire load range for efficient work with high grinding performance and lower levels of wheel wear.

The FEIN high-frequency range includes a wide selection of angle grinders and straight grinders for professional users in industry and trades.

FEIN high-frequency power tools can be used portably on work sites or in multiple grinding stations.



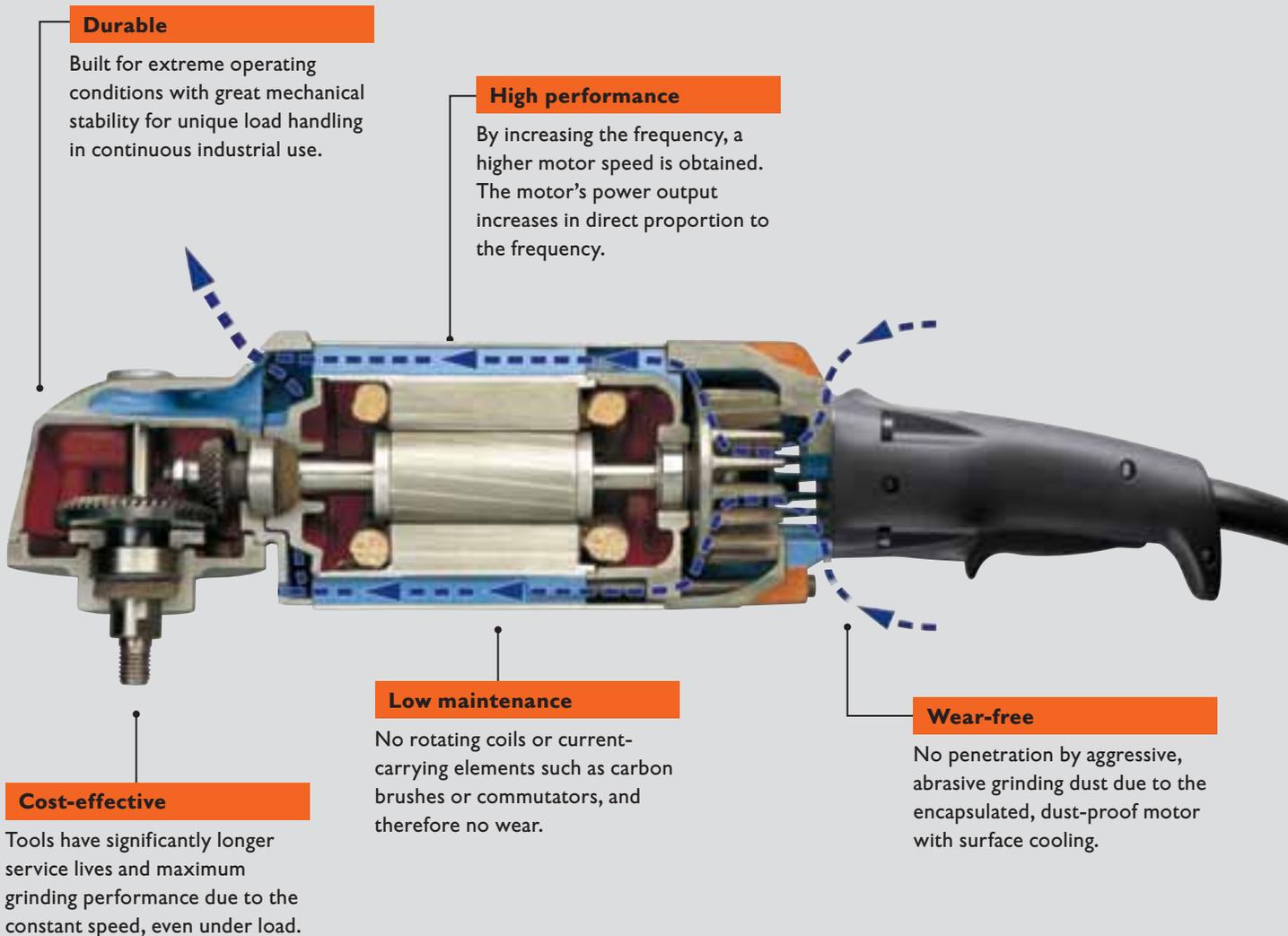
Speed comparison based on output
Green: Compressed air
Blue: Standard frequency
Orange: High Frequency



A durable system.

In many industrial and trade areas where lasting high performance is demanded, FEIN high-frequency power tools have proven themselves to be superior. Compared with compressed air tools and even power tools with universal motors, they possess numerous design advantages that have great cost reduction potential and are therefore the most economically sensible choice in many areas of metal processing.

In addition, the products must be designed in construction and quality for maximum demands. The legendary FEIN “Made in Germany” quality in every detail and more than 50 years of experience in the development and production of high-frequency power tools guarantee absolute reliability and an unrivalled service life in constant industrial use under the toughest conditions.



Work more efficiently with high frequency.

In terms of investment, energy and maintenance costs, high-frequency power tools are much less expensive than comparable standard-frequency machines or compressed air tools. In addition, they enable much higher efficiency in grinding. The following calculation examples

compare the systems. The result with compressed air grinders is based on a technical university study that compared the capabilities and cost-effectiveness of both types of drive.

High frequency compared with standard frequency.

With higher frequency, a higher speed is achieved, with a corresponding increase in motor output. By increasing frequency from 50 Hz to 300 Hz, six times more power is obtained from a tool of the same size and weight. At 300 Hz, an optimum power to weight ratio is reached. Thanks to outstanding speed uniformity across the entire loading range, work is done at optimal circumferential speeds which has a positive impact on grinding performance, leading to greater productivity, and noticeably reduced grinding wheel wear. The induction motors in high-frequency power tools with squirrel

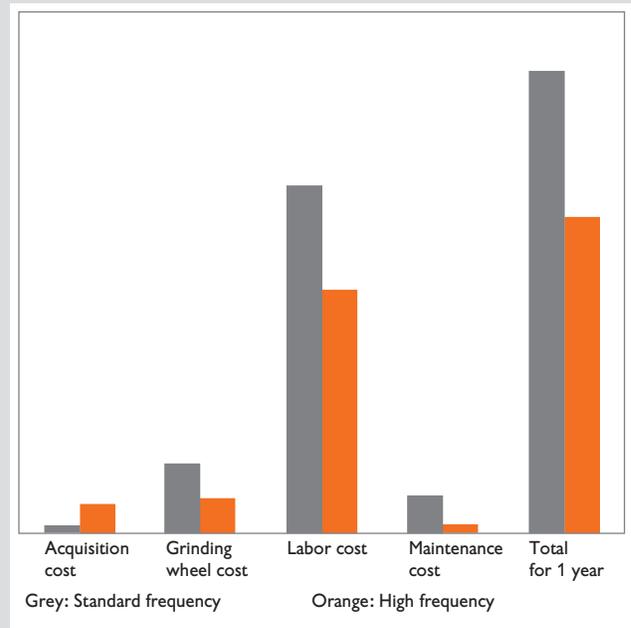
cage motors do not have current-carrying parts that wear. They do not require through ventilation, so their surfaces can be ventilated, permitting full encapsulation. In this case, the motors are completely protected from dust. The construction of high-frequency tools is not complicated, so professional maintenance can be carried out easily, quickly and efficiently. With the exception of ball bearing maintenance (approximately every 20,000 operating hours), stationary frequency converters are practically maintenance-free.

FEIN high frequency benefits compared with standard frequency:

Up to:

- ▶ 50 % less grinding wheel consumption
- ▶ 33 % lower labor cost for a specified work procedure (more material removal = higher productivity)
- ▶ 75 % lower maintenance cost
- ▶ 32 % lower total cost

Acquisition of a FEIN high-frequency machine with single station converter pays off in less than a year. ¹⁾



¹⁾ The comparison was based on the following conditions:

- ▶ 1 Grinding station
- ▶ 250 workdays/year; two shift operation, 8 hour shifts
- ▶ Tool utilization rate 50%. i.e. 8 hrs/day or 2,000 hrs/year
- ▶ 3 Standard frequency angle grinders (WSG 25-180) per year
- ▶ 1 High-frequency angle grinder (MSfo 869-1d) for 2 years + 1 converter (HFS 27-300) for > 5 years

High frequency compared with compressed air.

There is practically no energy loss in the power distribution system for high-frequency power tools, whereas with compressed air systems energy losses arise immediately from heating during air compression. In addition, a 10 to 20% higher energy requirement due to leakage must be expected in practice – with poorly maintained systems, this can even reach 30% or more. The performance of compressed air motors also changes with the condition of their components which

are subject to wear (e.g. cylinder, rotor, thrust washers, blades). This results in continuing performance losses that make themselves noticeable in declining levels of effectiveness and increased energy consumption. By contrast, high-frequency power tools always deliver full power, even after many hours of operation. The performance of the robust induction motor is always uniform – independent of wear.

FEIN High Frequency: Benefits compared with compressed air

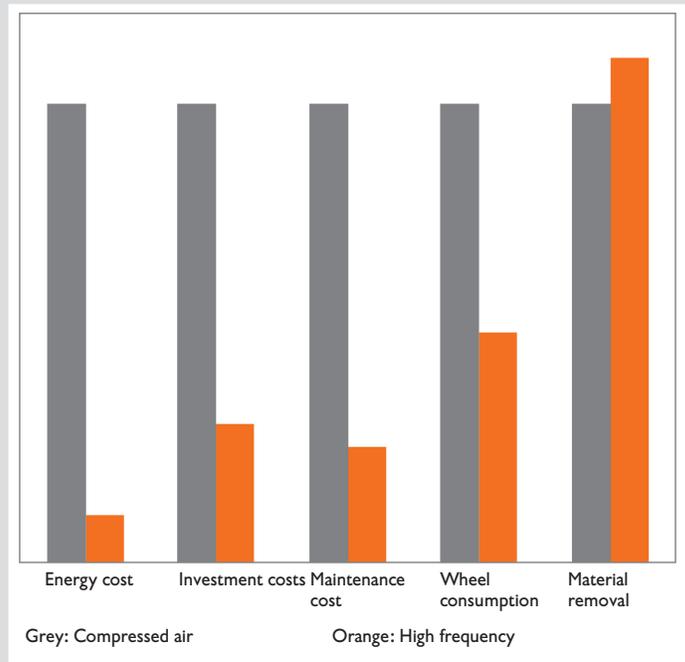
Up to:

- ▶ 90 % lower energy cost
- ▶ 70 % lower investment costs
- ▶ 75 % lower maintenance cost
- ▶ 50 % less grinding wheel consumption
- ▶ 50 % higher productivity.

**Investment in a FEIN high-frequency system
pays off in a short time. ¹⁾**

¹⁾ The study was based on the following conditions:

- ▶ 15 Grinding stations
- ▶ 250 workdays/year; two shift operation, 8 hour shifts
- ▶ Tool utilization rate 60%. i.e. 9.6 hrs/day or 2,400 hrs/year



Two converters – the same benefit: High-frequency grinding in mobile use.

There are two single-station converters for entry into the field of high-frequency: HFS 17-300 and HFS 27-300. They make industrial high-frequency grinding with FEIN easy, cost-effective and mobile for everyone. They allow the continuous use of individual high-frequency grinders where stationary high-frequency solutions are

not cost-effective or feasible, especially on construction sites, but also in smaller foundries, as well as shipbuilding, steel construction, boiler and tank fabrication. With the new FEIN single-station converters, you will profit from the advantages of high-frequency grinding technology on industrial grinding tasks of every kind.

HFS 17-300



HFS 27-300



Technical specifications

HFS 17-300

HFS 27-300



| | | | |
|--------------------------|----------|------------------|------------------|
| Input voltage | Volts | 220–230 | 220–230 |
| Output voltage (3 ~) | Volts | 200 | 200 |
| Input frequency | Hz | 50–60 | 50–60 |
| Output frequency | Hz | 300 | 300 |
| Power consumption | Watts | 1,830 | 2,900 |
| Output | Watts | 1,700 | 2,700 |
| Operator protection | | PSU | PSU |
| Protection class | | IP44 | IP44 |
| Cable with plug | ft (m) | 9 (3) | 9 (3) |
| Outlet (CEE) | | 16 A, 10h, 3 P+E | 16 A, 10h, 3 P+E |
| Weight according to EPTA | lbs (kg) | 13.0 (5.9) | 18.3 (8.3) |
| Part number | | 9 330 01 | 9 330 02 |

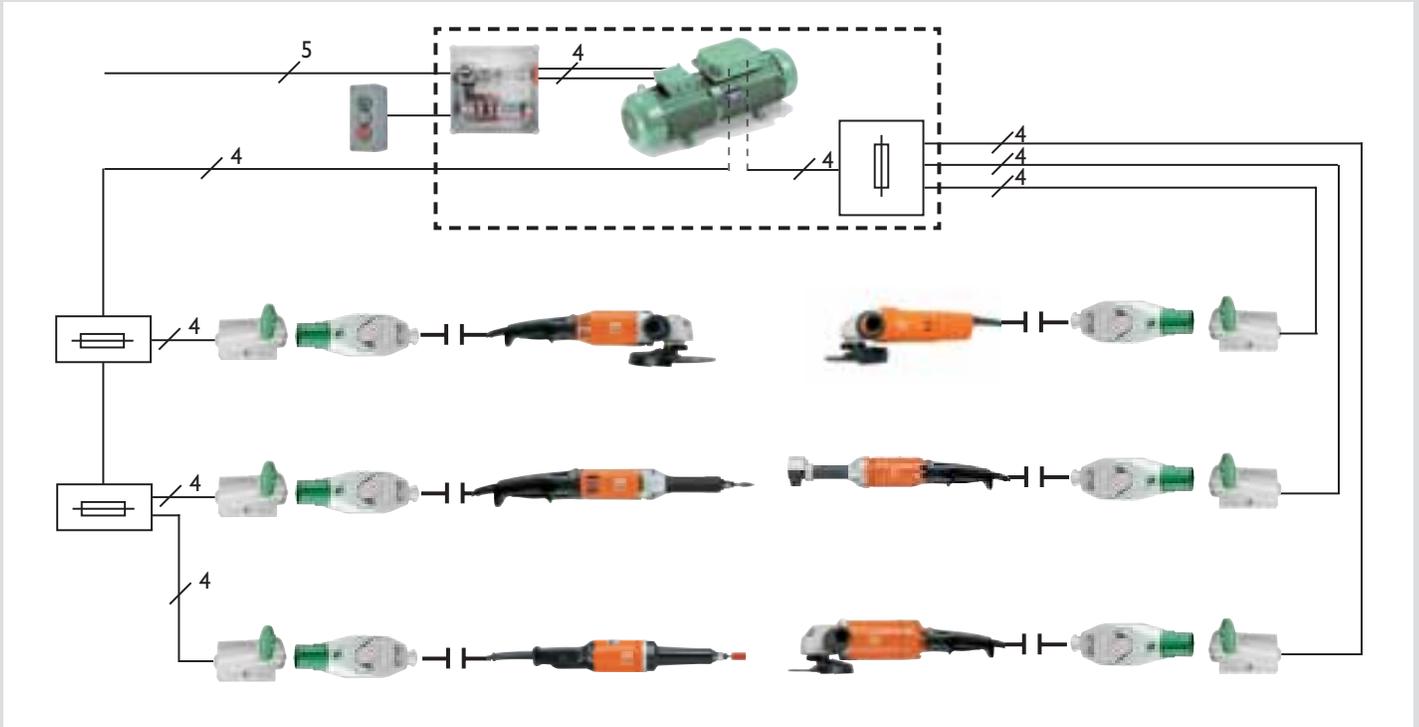
FEIN mobile system advantages

- ▶ Usable anywhere 230 V single phase power is available.
- ▶ No installation costs.
- ▶ Rapid pay-back due to straightforward investment.
- ▶ Easy to carry, flexible in use.
- ▶ Robust casing, sealed components.
- ▶ Outstanding durability.
- ▶ Protection class IP 44.

Stationary high frequency systems.

With a predetermined arrangement of several work stations, a permanent installation with a larger converter and fixed wiring is desirable. FEIN KSR frequency converters are asynchronous-synchronous frequency converters. The output voltage only deviates slightly ($\pm 1\%$) from the set open circuit voltage, even under load. The converters are short circuit proof. Parallel connection of several KSR model converters of approximately the same type and size is possible.

FEIN converters are built with protection class IP 54. They are practically maintenance free. The guideline value for the ball bearing maintenance interval is 20,000 hours of operation. The only consideration when positioning the converters is unobstructed air inflow and exhaust (maximum + 40° C). FEIN recommends installing units on anti-vibration buffers to minimize vibrations.



| Technical specifications | | MO 83 – 7.5 KSR | MO 83 – 11 KSR | MO 83 – 15 KSR | MO 83 – 20 KSR | MO 83 – 25 KSR | MO 83 – 30 KSR | MO 83 – 45 KSR |
|--------------------------|----------|--------------------------------------|--------------------------------------|--|--|--|--|--|
| Secondary side voltage | Volts | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| Output | kVA | 7.5 | 11 | 15 | 20 | 25 | 30 | 45 |
| Motor power | kVA | 8 | 11.6 | 15 | 20 | 24 | 28 | 41 |
| Motor current (400 V) | Amps | 16 | 21.4 | 26.6 | 34.2 | 44.2 | 49.4 | 75.1 |
| Power consumption | kVA | 11.1 | 14.9 | 18.5 | 23.8 | 30.7 | 34.4 | 52.1 |
| No-load power | kVA | 1.1 | 1.4 | 2.4 | 2.8 | 3.3 | 3.7 | 5.4 |
| Power factor | cos φ | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| Weight | lbs (kg) | 165.3 (75) | 244.8 (110) | 361.5 (164) | 388.0 (176) | 440.9 (200) | 529.1 (240) | 793.7 (360) |
| Length x Width x Height | in (mm) | 31.3 x 10.2 x 14.2 (794 x 258 x 360) | 33.2 x 10.2 x 14.2 (844 x 258 x 360) | 41.7 x 12.2 x 16.4 (1,058 x 310 x 416) | 41.7 x 12.2 x 16.4 (1,058 x 310 x 416) | 41.7 x 12.2 x 16.4 (1,058 x 310 x 416) | 41.7 x 12.2 x 16.4 (1,058 x 310 x 416) | 49.3 x 13.7 x 18.2 (1,252 x 348 x 463) |
| Part number | | 9 28 19 | 9 28 21 | 9 28 22 | 9 28 28 | 9 28 29 | 9 28 24 | 9 28 26 |

Suitable original FEIN accessories on page 25.

FEIN stationary system advantages

- ▶ After installation and start up, the system is practically maintenance free.
- ▶ Converter layout does not require any special building features.
- ▶ Limited voltage peaks, distortion < 1%.
- ▶ All components are designed for maximum loading in industrial operation.
- ▶ Maximum tool performance when operated with a stationary system.
- ▶ Overload protection of the power tool, results in a longer service life.

Work more efficiently – FEIN high-frequency power tools.

Compact angle grinders



| Model | | |
|------------|---|--|
| HFw 9-125 | Handy high-frequency compact angle grinder for light grinding and deburring work. | |
| MSf 843-1c | Powerful high-frequency compact angle grinder for medium grinding and deburring work. | |

Large angle grinder



| Model | | |
|-------------|--|--|
| MSfov 852-1 | Long-neck, high-frequency angle grinder for difficult-to-reach areas. | |
| MSfo 849-1c | Powerful high-frequency angle grinder for medium grinding work. | |
| MSfo 852-1d | Powerful high-frequency angle grinder for medium to heavy grinding and brushing work. | |
| MSfo 869-1d | Powerful high-frequency angle grinder for heavy cutting and grinding work. | |
| MSfo 870-1d | The most powerful FEIN high-frequency angle grinder for extreme cutting and grinding work. | |
| MSfo 852-1c | Powerful high-frequency angle grinder for medium to heavy grinding and brushing work. | |
| MSfo 869-1c | Powerful high-frequency angle grinder for heavy cutting and grinding work. | |
| MSfo 870-1c | The most powerful FEIN high-frequency angle grinder for extreme cutting and grinding work. | |

Straight/die grinders



| Model | | |
|--------------|---|--|
| MShyo 869-1a | The most powerful FEIN high-frequency straight grinder for grinding and surface conditioning. | |
| MShyo 852-3a | Powerful high-frequency straight grinder for medium to heavy grinding work. | |
| MSho 840-2 | Handy high-frequency die grinder for light grinding and deburring work. | |
| MSh 843-1 | Light and handy high-frequency die grinder for grinding and deburring work. | |
| MSho 849-1Z | Powerful high-frequency die grinder for medium grinding work with shaft mount tools. | |
| MSho 852-1 | Powerful high-frequency straight grinder for medium to heavy grinding work at high speed. | |

All FEIN high-frequency power tools are equipped with a 16 ft (5 m) cable without plug. You can find suitable plug connections on page 25.

| Application | | | | Technical attributes | | | | | | | | | | | | Part number | |
|---------------|-----------|---------|--|----------------------|------------------------------|---------------------------|----------------|---------------------|--------------|-----------------------------------|---------|-----------------------------|----------------------------------|--|---|-------------|------------|
| Roughing-down | Deburring | Cutting | | Frequency (Hz) | Voltage/type of current (V3) | Power consumption (Watts) | Output (Watts) | No-load speed (rpm) | Cable ft (m) | Weight according to EPTA lbs (kg) | Spindle | Grinding wheel dia. in (mm) | Elastic backing pad dia. in (mm) | Tool without plug for stationary converter | Tool with 16A plug for mobile converter HFS | HFS 17-300 | HFS 27-300 |
| ▲ | ▲▲ | | | 300 | 200 | 850 | 650 | 7,100 | 16 (5) | 5.5 (2.5) | 5/8-11 | 5 (125) | 5 (125) | 7 820 86 | 7 820 86 95 | ● | ● |
| ▲▲ | ▲ | ▲ | | 300 | 200 | 1100 | 700 | 6,500 | 16 (5) | 7.9 (3.6) | 5/8-11 | 5 (125) | 5 (125) | 7 820 85 | 7 820 85 95 | ● | ● |

| Application | | | | Technical attributes | | | | | | | | | | | | Part number | |
|---------------|-----------|---------|----------|----------------------|------------------------------|---------------------------|----------------|---------------------|--------------|-----------------------------------|---------|-----------------------------|----------------------------------|--|---|-------------|------------|
| Roughing-down | Deburring | Cutting | Brushing | Frequency (Hz) | Voltage/type of current (V3) | Power consumption (Watts) | Output (Watts) | No-load speed (rpm) | Cable ft (m) | Weight according to EPTA lbs (kg) | Spindle | Grinding wheel dia. in (mm) | Elastic backing pad dia. in (mm) | Tool without plug for stationary converter | Tool with 16A plug for mobile converter HFS | HFS 17-300 | HFS 27-300 |
| ▲▲ | ▲ | | | 300 | 200 | 1,900 | 1,400 | 8,800 | 16 (5) | 11.5 (5.2) | M 14 | 5 (125) | 5 (125) | 7 820 83 | 7 820 83 95 | | ● |
| ▲▲ | ▲ | | | 300 | 200 | 1,500 | 1,075 | 6,150 | 16 (5) | 11.2 (5.1) | M 14 | 7 (180) | 7 (180) | 7 820 80 | 7 820 80 95 | ● | ● |
| ▲▲ | ▲ | ▲ | | 300 | 200 | 1,900 | 1,400 | 8,500 | 16 (5) | 13 (5.9) | 5/8-11 | 7 (180) | 7 (180) | 7 820 73 | 7 820 73 95 | | ● |
| ▲▲ | ▲ | ▲ | ▲▲ | 300 | 200 | 3,100 | 2,450 | 8,500 | 16 (5) | 16.3 (7.4) | 5/8-11 | 7 (180) | 7 (180) | 7 820 65 | 7 820 65 95 | | ● |
| ▲▲ | ▲ | ▲ | ▲▲ | 300 | 200 | 3,700 | 2,800 | 8,600 | 16 (5) | 18 (8.2) | 5/8-11 | 7 (180) | 7 (180) | 7 820 77 | | | |
| ▲▲ | ▲ | ▲ | ▲▲ | 300 | 200 | 1,900 | 1,400 | 6,400 | 16 (5) | 13.8 (6.3) | 5/8-11 | 9 (230) | 7 (180) | 7 820 71 | 7 820 71 95 | | ● |
| ▲▲ | ▲ | ▲▲ | ▲▲ | 300 | 200 | 3,100 | 2,450 | 6,400 | 16 (5) | 16.9 (7.7) | 5/8-11 | 9 (230) | 7 (180) | 7 820 62 | 7 820 62 95 | | ● |
| ▲▲ | ▲ | ▲▲ | ▲▲ | 300 | 200 | 3,700 | 2,800 | 6,600 | 16 (5) | 18.7 (8.5) | 5/8-11 | 9 (230) | 7 (180) | 7 820 75 | | | |

| Application | | | | Technical attributes | | | | | | | | | | | | Part number | |
|---------------|-----------|------------|-----------------|----------------------|------------------------------|---------------------------|----------------|---------------------|--------------|-----------------------------------|---------|----------------|----------------------------------|--|---|-------------|------------|
| Roughing-down | Deburring | Satinizing | Cutting/milling | Frequency (Hz) | Voltage/type of current (V3) | Power consumption (Watts) | Output (Watts) | No-load speed (rpm) | Cable ft (m) | Weight according to EPTA lbs (kg) | Spindle | Collet dia. in | Grinding wheel max. dia. in (mm) | Tool without plug for stationary converter | Tool with 16A plug for mobile converter HFS | HFS 17-300 | HFS 27-300 |
| | | ▲▲ | | 300 | 200 | 3,100 | 2,450 | 5,000 | 16 (5) | 19.2 (8.9) | 5/8"-11 | - | | 7 824 37 | | | |
| ▲▲ | | | | 300 | 200 | 1,900 | 1,400 | 10,200 | 16 (5) | 12.3 (5.6) | M 12 | - | | 7 824 39 | 7 824 39 95 | | ● |
| ▲ | ▲▲ | | | 300 | 200 | 410 | 290 | 18,000 | 16 (5) | 4.6 (2.1) | - | 1/4 | 2 (50) | 7 823 03 | | | |
| | | | ▲▲ | 300 | 200 | 1,100 | 700 | 18,000 | 16 (5) | 6.6 (3.0) | - | 1/4 | 1 1/4 (40) | 7 823 19 | 7 823 19 95 | ● | ● |
| ▲▲ | | | | 300 | 200 | 1,500 | 1,050 | 18,000 | 16 (5) | 8.5 (3.9) | - | 1/4 | 2 (50) | 7 823 20 | 7 823 20 95 | ● | ● |
| ▲▲ | ▲ | ▲ | | 300 | 200 | 1,900 | 1,400 | 18,000 | 16 (5) | 11.5 (5.2) | M 12 | - | | 7 824 42 | | | |

▲ suitable

▲▲ very suitable

● compatible with

All technical information applies to a 300 Hz frequency. Other frequencies and voltages upon request.



Compact angle grinder 5 in (125 mm) dia.

HFW 9-125

Handy high-frequency compact angle grinder for light grinding and deburring work.

Technical specifications

| Model | HFW 9-125 | |
|-------------------------------|-----------------|-----------|
| Frequency | Hz | 300 |
| Voltage/type of current | V(3~) | 200 |
| Power consumption | Watts | 900 |
| Power output | Watts | 690 |
| No-load speed | rpm | 7100 |
| Cable | ft (m) | 16 (5) |
| Weight according to EPTA | lbs (kg) | 5.5 (2.5) |
| Tool holder | | |
| Spindle | | 5/8"-11 |
| Grinding wheel dia. | in (mm) | 5 (125) |
| Elastic backing pad dia. (mm) | in (mm) | 5 (125) |
| Part number | 7 820 86 | |

Price includes

1 safety guard, 2 flanges, 1 accessory handle, 1 wrench

Emission values (noise/vibration) can be found at www.fein.com/vibration

FEIN ADVANTAGES

- ▶ High-efficiency compact angle grinder with the highest power on the market.
- ▶ Dustproof, fully-encapsulated switch for maximum service life.
- ▶ Special thick-walled, die cast aluminum gear head for maximum durability and service life.
- ▶ Perfect ergonomics with two grip zones and small handle dimensions for optimum handling, even in continuous use.
- ▶ Through ventilation for effective motor ventilation.
- ▶ Air exit on the underside.
- ▶ High effective output.
- ▶ Extremely stable speed.
- ▶ Low weight.

Original FEIN accessories

Safety guard

5 in (125 mm) dia.

Part number 3 18 10 278 02 0

Safety guard for cutting work

5 in (125 mm) dia.



Part number 6 38 11 008 01 0

Anti-vibration handle

M8 thread, vibration-dampening, to reduce vibration during longer jobs.



Part number 3 21 19 124 01 0

Inner flange



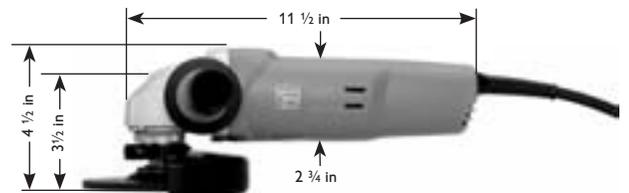
Part number 6 38 01 095 00 8

Threaded flange 5/8"-11

For grinding and cut-off discs as well as flap grinding discs and knot wire brushes.



Part number 6 38 02 098 00 7





Compact angle grinder 5 in (125 mm) dia.

MSf 843-1c

Powerful, high-frequency compact angle grinder for medium grinding and deburring work.

Technical specifications

| | | MSf 843-1c |
|--------------------------|----------|-----------------|
| Model | | MSf 843-1c |
| Frequency | Hz | 300 |
| Voltage/type of current | V(3~) | 200 |
| Power consumption | Watts | 1 100 |
| Power output | Watts | 730 |
| No-load speed | rpm | 6 500 |
| Cable | ft (m) | 16 (5) |
| Weight | lbs (kg) | 7.9 (3.6) |
| Tool holder | | |
| Spindle | | 5/8"-11 |
| Grinding wheel dia. | in (mm) | 5 (125) |
| Elastic backing pad dia. | in (mm) | 5 (125) |
| Part number | | 7 820 85 |

Price includes

1 safety guard, 2 flanges, 1 accessory handle, 1 wrench

Emission values (noise/vibration) can be found at www.fein.com/vibration

FEIN ADVANTAGES

- ▶ Metal motor and gear casing for maximum loading in continuous industrial use.
- ▶ Through ventilation for effective motor ventilation.
- ▶ Low wear and maintenance.
- ▶ Maximum reliability and outstanding durability.
- ▶ High effective output.
- ▶ Extremely stable speed.

Original FEIN accessories

Safety guard

5 in (125 mm) dia.

Part number 3 18 10 281 02 0

Safety guard for cutting work

5 in (125 mm) dia.



Part number 6 38 11 008 01 0

Inner flange



Part number 6 38 01 095 00 8

Anti-vibration handle

M10 thread, vibration-dampening, to reduce vibration during longer jobs.



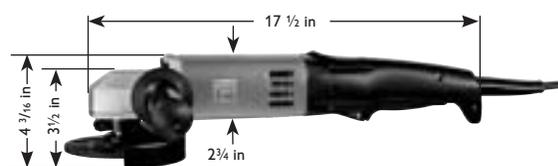
Part number 3 21 19 118 01 3

Threaded flange 5/8"-11

For grinding and cut-off discs as well as flap grinding discs and knot wire brushes.



Part number 6 38 02 098 00 7





Angle grinder 5 in (125 mm) dia.

MSfov 852-1

Long-neck, high-frequency angle grinder for difficult-to-reach areas.

Technical specifications

| Model | | MSfov 852-1 |
|--------------------------|----------|-----------------|
| Frequency | Hz | 300 |
| Voltage/type of current | V(3~) | 200 |
| Power consumption | Watts | 1900 |
| Power output | Watts | 1400 |
| No-load speed | rpm | 8800 |
| Cable | ft (m) | 16 (5) |
| Weight according to EPTA | lbs (kg) | 11.5 (5.2) |
| Tool holder | | |
| Spindle | | M 14 |
| Grinding wheel dia. | in (mm) | 5 (125) |
| Elastic backing pad dia. | in (mm) | - |
| Part number | | 7 820 83 |

Price includes

1 safety guard, 2 flanges, 1 accessory handle, 1 wrench

Emission values (noise/vibration) can be found at www.fein.com/vibration

FEIN ADVANTAGES

- ▶ Extremely flat gear head is 25 ⁹/₁₆ in (65 mm) high, including grinding wheel.
- ▶ Metal motor and gear casing for maximum loading in continuous industrial use.
- ▶ Fully-encapsulated, 100% dustproof motor with surface cooling for maximum durability and service life, even under extreme operational conditions.
- ▶ Low wear and maintenance.
- ▶ Maximum reliability and outstanding durability.
- ▶ High effective output.
- ▶ Extremely stable speed.

Original FEIN accessories

Safety guard

5 in (125 mm) dia.

Part number 3 18 10 277 00 0

Outer flange M14

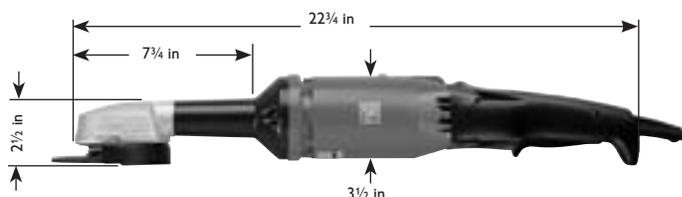
to fit 7/8 bore grinding wheels.

Part number 6 38 02 084 00 9

Inner flange



Part number 6 38 01 095 00 8





Angle grinder 7 in (180 mm) dia.

MSfo 849-1c

Powerful high-frequency angle grinder for medium grinding work.

Technical specifications

| Model | | MSfo 849-1c |
|--------------------------|----------|-----------------|
| Frequency | Hz | 300 |
| Voltage/type of current | V(3~) | 200 |
| Power consumption | Watts | 1 500 |
| Power output | Watts | 1 050 |
| No-load speed | rpm | 6 150 |
| Cable | ft (m) | 16 (5) |
| Weight according to EPTA | lbs (kg) | 11.2 (5.1) |
| Tool holder | | |
| Spindle | | M 14 |
| Grinding wheel dia. | in (mm) | 7 (180) |
| Elastic backing pad dia. | in (mm) | 7 (180) |
| Part number | | 7 820 80 |

Price includes

1 safety guard, 2 flanges, 1 wrench, 1 accessory handle

Emission values (noise/vibration) can be found at www.fein.com/vibration

FEIN ADVANTAGES

- ▶ Metal motor and gear casing for maximum loading in continuous industrial use.
- ▶ Fully-encapsulated, 100% dustproof motor with surface cooling for maximum durability and service life, even under extreme operational conditions.
- ▶ Low wear and maintenance.
- ▶ Maximum reliability and outstanding durability.
- ▶ High effective output.
- ▶ Extremely stable speed.

Original FEIN accessories

Safety guard

7 in (125 mm) dia.

Part number 3 18 10 269 02 0

Safety guard for cutting work

7 in (125 mm) dia.



Part number 6 38 11 009 01 0

Anti-vibration handle

M10 thread, vibration-dampening, to reduce vibration during longer jobs.



Part number 3 21 19 117 01 5

Inner flange



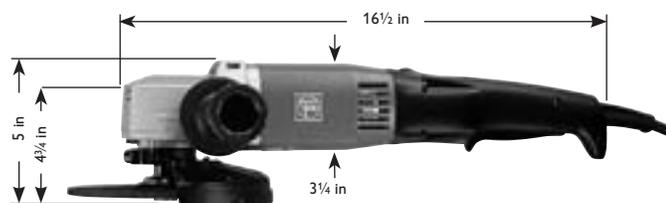
Part number 6 38 01 095 00 8

Threaded flange M14

For grinding and cut-off discs as well as flap grinding discs and knot wire brushes.



Part number 6 38 02 098 00 7





Angle grinders 9 in (230) mm dia.

MSfo 852-1c Powerful high-frequency angle grinder for medium to heavy cutting and grinding work.

MSfo 852-1d Powerful high-frequency angle grinder for medium to heavy cutting and grinding and brushing work.

| Technical specifications | | | |
|--------------------------|----------|-----------------|-----------------|
| Model | | MSfo 852-1c | MSfo 852-1d |
| Frequency | Hz | 300 | 300 |
| Voltage/type of current | V(3~) | 200 | 200 |
| Power consumption | Watts | 1900 | 1900 |
| Power output | Watts | 1400 | 1400 |
| No-load speed | rpm | 6400 | 8500 |
| Cable | ft (m) | 16 (5) | 16 (5) |
| Weight according to EPTA | lbs (kg) | 13.9 (6.3) | 13 (5.9) |
| Tool holder | | | |
| Spindle | | 5/8"-11 | 5/8"-11 |
| Grinding wheel dia. | in (mm) | 9 (230) | 7 (180) |
| Elastic backing pad dia. | in (mm) | 7 (180) | 7 (180) |
| Part number | | 7 820 71 | 7 820 73 |

FEIN ADVANTAGES

- ▶ Metal motor and gear casing for maximum loading in continuous industrial use.
- ▶ Fully-encapsulated, 100% dustproof motor with surface cooling for maximum durability and service life, even under extreme operational conditions.
- ▶ Low wear and maintenance.
- ▶ Maximum reliability and outstanding durability.
- ▶ High effective output.
- ▶ Extremely stable speed.

Price includes

1 safety guard, 2 flanges, 1 accessory handle, 1 wrench

Emission values (noise/vibration) can be found at www.fein.com/vibration

Original FEIN accessories

Safety guard

7 in (180 mm) dia.

| | |
|-----------------|------------------|
| Ø 7 in (180 mm) | 3 18 10 273 02 0 |
| Ø 9 in (230 mm) | 3 18 10 275 02 0 |

Safety guard for cutting work



| | Part number |
|-----------------|------------------|
| Ø 7 in (180 mm) | 6 38 11 009 01 0 |
| Ø 9 in (230 mm) | 6 38 11 010 01 0 |

Anti-vibration handle

M14 thread, vibration-dampening, to reduce vibration during longer jobs.



| | |
|-------------|------------------|
| Part number | 3 21 19 117 01 5 |
|-------------|------------------|

Inner flange



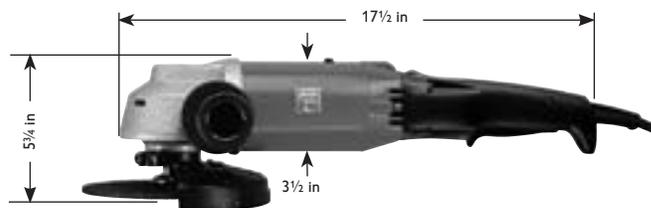
| | |
|-------------|------------------|
| Part number | 6 38 01 095 00 8 |
|-------------|------------------|

Threaded flange 5/8"-11

For grinding and cut-off discs as well as flap grinding discs and knot wire brushes.



| | |
|-------------|------------------|
| Part number | 6 38 02 098 00 7 |
|-------------|------------------|





Angle grinders 9 in (230 mm) dia.

MSfo 869-1c Powerful high-frequency angle grinder for heavy cutting and grinding work.

MSfo 869-1d Powerful high-frequency angle grinder for heavy cutting and grinding work.

| Technical specifications | | | |
|--------------------------|----------|-----------------|-----------------|
| Model | | MSfo 869-1c | MSfo 869-1d |
| Frequency | Hz | 300 | 300 |
| Voltage/type of current | V(3~) | 200 | 200 |
| Power consumption | Watts | 3 100 | 3 100 |
| Power output | Watts | 2 410 | 2 410 |
| No-load speed | rpm | 6 500 | 8 600 |
| Cable | ft (m) | 16 (5) | 16 (5) |
| Weight according to EPTA | lbs (kg) | 16.9 (7.7) | 16.4 (7.4) |
| Tool holder | | | |
| Spindle | | 5/8"-11 | 5/8"-11 |
| Grinding wheel dia. | in (mm) | 9 (230) | 7 (180) |
| Elastic backing pad dia. | in (mm) | 7 (180) | 7 (180) |
| Part number | | 7 820 62 | 7 820 65 |

Price includes

1 safety guard, 2 flanges, 1 accessory handle, 1 wrench

Emission values (noise/vibration) can be found at www.fein.com/vibration

FEIN ADVANTAGES

- ▶ Metal motor and gear casing for maximum loading in continuous industrial use.
- ▶ Fully-encapsulated, 100% dustproof motor with surface cooling for maximum durability and service life, even under extreme operational conditions.
- ▶ Low wear and maintenance.
- ▶ Maximum reliability and outstanding durability.
- ▶ High effective output.
- ▶ Extremely stable speed.

Original FEIN accessories

Safety guard

7 in (180 mm) dia.

Ø 7 in (180 mm) 3 18 10 273 02 0

Ø 9 in (230 mm) 3 18 10 275 02 0

Safety guard for cutting work



Part number

Ø 7 in (180 mm) 6 38 11 009 01 0

Ø 9 in (230 mm) 6 38 11 010 01 0

Anti-vibration handle

M14 thread, vibration-dampening, to reduce vibration during longer jobs.



Part number 3 21 19 117 01 5

Inner flange



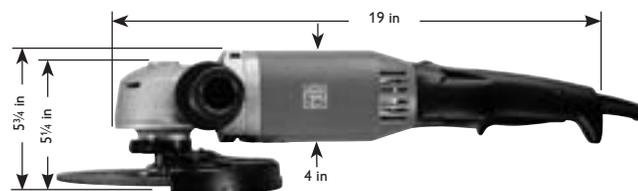
Part number 6 38 01 095 00 8

Threaded flange 5/8"-11

For grinding and cut-off discs as well as flap grinding discs and knot wire brushes.



Part number 6 38 02 098 00 7





Angle grinders 9 in (230 mm) dia.

MSfo 870-1c The most powerful FEIN high-frequency angle grinder for extreme cutting and grinding work.

MSfo 870-1d The most powerful FEIN angle grinder for extreme grinding work.

Technical specifications

| Model | | MSfo 870-1c | MSfo 870-1d |
|--------------------------|----------|-----------------|-----------------|
| Frequency | Hz | 300 | 300 |
| Voltage/type of current | V(3~) | 200 | 200 |
| Power consumption | Watts | 3700 | 3700 |
| Power output | Watts | 2800 | 2800 |
| No-load speed | rpm | 6600 | 8600 |
| Cable | ft (m) | 16 (5) | 16 (5) |
| Weight according to EPTA | lbs (kg) | 18.7 (8.5) | 18.0 (8.2) |
| Tool holder | | | |
| Spindle | | 5/8"-11 | 5/8"-11 |
| Grinding wheel dia. | in (mm) | 9 (230) | 7 (180) |
| Elastic backing pad dia. | in (mm) | 7 (180) | 7 (180) |
| Part number | | 7 820 75 | 7 820 77 |

Price includes

1 safety guard, 2 flanges, 1 accessory handle, 1 wrench

Emission values (noise/vibration) can be found at www.fein.com/vibration

FEIN ADVANTAGES

- ▶ Metal motor and gear casing for maximum loading in continuous industrial use.
- ▶ Fully-encapsulated, 100% dustproof motor with surface cooling for maximum durability and service life, even under extreme operational conditions.
- ▶ Low wear and maintenance.
- ▶ Unrivalled reliability and outstanding durability.
- ▶ High effective output.
- ▶ Extremely stable speed.

Original FEIN accessories

Safety guard

7 in (180 mm) dia.

| | |
|----------|------------------|
| Ø 180 mm | 3 18 10 273 02 0 |
| Ø 230 mm | 3 18 10 275 02 0 |

Safety guard for cutting work



| | Part number |
|----------|------------------|
| Ø 180 mm | 6 38 11 009 01 0 |
| Ø 230 mm | 6 38 11 010 01 0 |

Anti-vibration handle

M14 thread, vibration-dampening, to reduce vibration during longer jobs.



| | |
|-------------|------------------|
| Part number | 3 21 19 117 01 5 |
|-------------|------------------|

Inner flange



| | |
|-------------|------------------|
| Part number | 6 38 01 095 00 8 |
|-------------|------------------|

Threaded flange 5/8"-11

For grinding and cut-off discs as well as flap grinding discs and knot wire brushes.



| | |
|-------------|------------------|
| Part number | 6 38 02 098 00 7 |
|-------------|------------------|





Die grinder 18,000 rpm

MSho 840-2

Handy, high-frequency die grinder for light grinding and deburring work.

| Technical specifications | | |
|--------------------------|-----------------|-----------|
| Model | MSho 840-2 | |
| Frequency | Hz | 300 |
| Voltage/type of current | V(3~) | 200 |
| Power consumption | Watts | 410 |
| Power output | Watts | 290 |
| No-load speed | rpm | 18,000 |
| Cable | ft (m) | 16 (5) |
| Weight according to EPTA | lbs (kg) | 4.6 (2.1) |
| Tool holder | | |
| Collet dia. | in (mm) | ¼ (6.35) |
| Grinding wheel max. dia. | in (mm) | 2 (50) |
| Part number | 7 823 03 | |

| Price includes | |
|---|--|
| 1 Collet dia. ¼ in (6.35 mm), 1 set of wrenches | |

Emission values (noise/vibration) can be found at www.fein.com/vibration

FEIN ADVANTAGES

- ▶ Extremely handy for universal use.
- ▶ Multiple ball bearings, split collet for completely accurate and vibration-free rotation.
- ▶ Metal motor and gear casing for maximum loading in continuous industrial use.
- ▶ Fully-encapsulated, 100% dustproof motor with surface cooling for maximum durability and service life, even under extreme operational conditions.
- ▶ Low wear and maintenance.
- ▶ Unrivalled reliability and outstanding durability.
- ▶ High effective output.
- ▶ Extremely stable speed.
- ▶ Collet for shafts up to 8 mm dia.

Original FEIN accessories

Arbor
for grinding wheel, bore ½ in (13 mm).

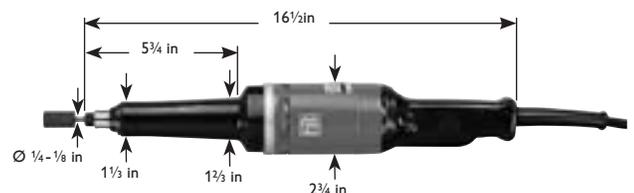


Part number 6 38 03 058 01 1

Collet
Depth 1⅓ in (30 mm).



| Size | Part number |
|------|------------------|
| 8 mm | 6 32 07 069 00 5 |
| 6 mm | 6 32 07 059 00 6 |
| 3 mm | 6 32 07 087 00 1 |
| ¼ in | 6 32 07 088 00 9 |
| ⅛ in | 6 32 07 089 00 3 |





Die grinder 18,000 rpm

MSh 843-1

Light and handy high-frequency die grinder for grinding and deburring work with shaft mount tools.

Technical specifications

| | | MSh 843-1 |
|--------------------------|----------|-----------------|
| Model | | MSh 843-1 |
| Frequency | Hz | 300 |
| Voltage/type of current | V(3~) | 200 |
| Power consumption | Watts | 1 100 |
| Power output | Watts | 700 |
| No-load speed | rpm | 18,000 |
| Cable | ft (m) | 16 (5) |
| Weight according to EPTA | lbs (kg) | 6.6 (3.0) |
| Tool holder | | |
| Collet dia. | in (mm) | ¼ (6.35) |
| Grinding wheel max. dia. | in (mm) | 1½ (40) |
| Part number | | 7 823 19 |

Price includes

1 Collet dia. ¼ in (6.35 mm), 1 set of wrenches

Emission values (noise/vibration) can be found at www.fein.com/vibration

FEIN ADVANTAGES

- ▶ Multiple ball bearings, split collet for completely accurate and vibration-free rotation.
- ▶ Metal motor and gear casing for maximum loading in continuous industrial use.
- ▶ Through ventilation for effective motor ventilation.
- ▶ Low wear and maintenance.
- ▶ Unrivalled reliability and outstanding durability.
- ▶ High effective output.
- ▶ Extremely stable speed.
- ▶ Collet for shafts up to 8 mm dia.

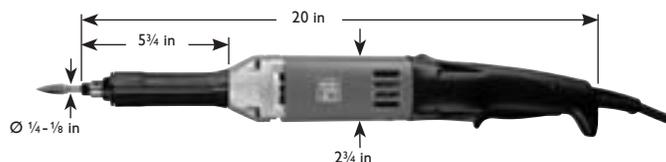
Original FEIN accessories

Collet

Depth 1³/₁₆ in (30 mm).



| Size | Part number |
|------|------------------|
| 8 mm | 6 32 07 069 00 5 |
| 6 mm | 6 32 07 059 00 6 |
| 3 mm | 6 32 07 087 00 1 |
| ¼ in | 6 32 07 088 00 9 |
| ½ in | 6 32 07 089 00 3 |





Die grinder 18,000 rpm

MSho 849-1Z

Powerful high-frequency die grinder for medium grinding and deburring work with shaft mount tools.

Technical specifications

| Model | | MSho 849-1z |
|--------------------------|----------|-----------------|
| Frequency | Hz | 300 |
| Voltage/type of current | V(3~) | 200 |
| Power consumption | Watts | 1 500 |
| Power output | Watts | 1 050 |
| No-load speed | rpm | 18,000 |
| Cable | ft (m) | 16 (5) |
| Weight according to EPTA | lbs (kg) | 8.6 (3.9) |
| Tool holder | | |
| Collet dia. | in (mm) | 1/4 (6) |
| Grinding wheel max. dia. | in (mm) | 2 (50) |
| Part number | | 7 823 20 |

Price includes

1 Collet dia. 1/4 in (8 mm), 1 set of wrenches

Emission values (noise/vibration) can be found at www.fein.com/vibration

FEIN ADVANTAGES

- ▶ High torque for maximum removal rate.
- ▶ Multiple ball bearings, split grinding spindle for completely accurate and vibration-free rotation.
- ▶ Metal motor and gear casing for maximum loading in continuous industrial use.
- ▶ Through ventilation for effective motor ventilation.
- ▶ Low wear and maintenance.
- ▶ Unrivalled reliability and outstanding durability.
- ▶ High effective output.
- ▶ Extremely stable speed.
- ▶ Collet for shafts up to 8 mm dia.

Original FEIN accessories

Arbor

for grinding wheel, bore 1/2 in (13 mm).



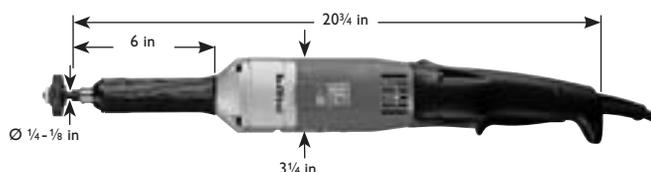
Part number 6 38 03 058 01 1

Collet

Depth 1³/₁₆ in (30 mm).



| Size | Part number |
|--------|------------------|
| 8 mm | 6 32 07 069 00 5 |
| 6 mm | 6 32 07 059 00 6 |
| 3 mm | 6 32 07 087 00 1 |
| 1/4 in | 6 32 07 088 00 9 |
| 1/8 in | 6 32 07 089 00 3 |





Straight grinder 18,000 rpm

MSho 852-1

Powerful high-frequency straight grinder for medium to heavy grinding work.

Technical specifications

| Model | | MSho 852-1 |
|--------------------------|----------|---------------------------|
| Frequency | Hz | 300 |
| Voltage/type of current | V(3~) | 200 |
| Power consumption | Watts | 1 900 |
| Power output | Watts | 1 400 |
| No-load speed | rpm | 18,000 |
| Cable | ft (m) | 16 (5) |
| Weight according to EPTA | lbs (kg) | 11.5 (5.2) |
| Tool holder | | |
| Spindle | | M 12 |
| Grinding wheel max. dia. | in (mm) | 3 3/8 x 1 1/4 / (85 x 32) |
| Part number | | 7 824 42 |

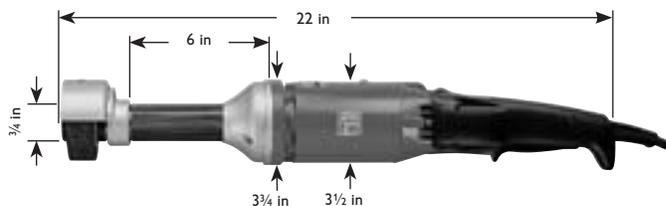
Price includes

1 safety guard, 2 flanges, 1 set of wrenches

Emission values (noise/vibration) can be found at www.fein.com/vibration

FEIN ADVANTAGES

- ▶ Ideal power to weight ratio and excellent mechanical efficiency.
- ▶ Quiet in operation.
- ▶ Metal motor and gear casing for maximum loading in continuous industrial use.
- ▶ Fully-encapsulated, 100% dustproof motor with surface cooling for maximum durability and service life, even under extreme operational conditions.
- ▶ Low wear and maintenance.
- ▶ Unrivalled reliability and outstanding durability.
- ▶ High effective output.
- ▶ Extremely stable speed.





Straight grinder 10,200 rpm

MShyo 852-3a

Powerful high-frequency straight grinder for medium to heavy grinding work.

Technical specifications

| Model | | MShyo 852-3a |
|----------------------------------|----------|-------------------|
| Frequency | Hz | 300 |
| Voltage/type of current | V(3~) | 200 |
| Power consumption | Watts | 1900 |
| Power output | Watts | 1400 |
| No-load speed | rpm | 10,200 |
| Cable | ft (m) | 16 (5) |
| Weight according to EPTA | lbs (kg) | 12.3 (5.6) |
| Tool holder | | |
| Spindle | | M 12 |
| Grinding wheel max. dia. x width | in (mm) | 5 x 1¼ (125 x 32) |
| Part number | | 7 824 39 |

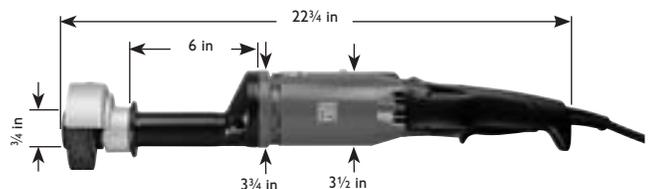
Price includes

1 safety guard, 2 flanges, 1 wrench

Emission values (noise/vibration) can be found at www.fein.com/vibration

FEIN ADVANTAGES

- ▶ High torque for maximum removal rate.
- ▶ Quiet in operation.
- ▶ Fully-encapsulated, 100% dustproof motor with surface cooling for maximum durability and service life, even under extreme operational conditions.
- ▶ Low wear and maintenance.
- ▶ Unrivalled reliability and outstanding durability.
- ▶ High effective output.
- ▶ Extremely stable speed.
- ▶ Metal motor and gear casing for maximum loading in continuous industrial use.





Straight grinder 5 000 rpm

MShyo 869-1a

The most powerful FEIN high-frequency straight grinder for grinding and surface conditioning.

Technical specifications

| Model | MShyo 869-1a | |
|----------------------------------|-----------------|-----------------------|
| Frequency | Hz | 300 |
| Voltage/type of current | V(3~) | 200 |
| Power consumption | Watts | 3 100 |
| Power output | Watts | 2 450 |
| No-load speed | rpm | 5 000 |
| Cable | ft (m) | 16 (5) |
| Weight according to EPTA | lbs (kg) | 19.6 (8.9) |
| Tool holder | | |
| Spindle | | 5/8-11 |
| Grinding wheel max. dia. x width | in (mm) | 7 x 1 7/16 (180 x 40) |
| Part number | 7 824 37 | |

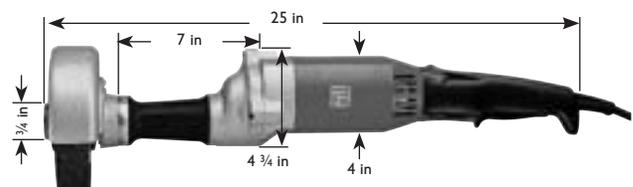
Price includes

1 safety guard, 2 flanges, 1 wrench

Emission values (noise/vibration) can be found at www.fein.com/vibration

FEIN ADVANTAGES

- ▶ Ideal power to weight ratio and excellent mechanical efficiency.
- ▶ High torque for maximum removal rate.
- ▶ Metal motor and gear casing for maximum loading in continuous industrial use.
- ▶ Fully-encapsulated, 100% dustproof motor with surface cooling for maximum durability and service life, even under extreme operational conditions.
- ▶ Low wear and maintenance.
- ▶ Unrivalled reliability and outstanding durability.
- ▶ High effective output.
- ▶ Extremely stable speed.
- ▶ Quiet in operation.



CEE plug connections

Male connectors

over 50 V, 16 A, 100–300 Hz, 10 h, 3 P+E



Part number 3 07 28 123 00 7

over 50 V, 32 A, 100–300 Hz, 10 h, 3 P+E

Part number 3 07 28 124 00 5

Sleeve plug

over 50 V, 32 A, 100–300 Hz, 10 h, 3 P+E



Part number 3 07 28 130 00 0

over 50 V, 32 A, 100–300 Hz, 10 h, 3 P+E

Part number 3 07 28 131 00 9

Panel-mounted socket outlet

over 50 V, 16 A, 100–300 Hz, 10 h, 3 P+E



Part number 3 07 28 141 00 8

over 50 V, 32 A, 100–300 Hz, 10 h, 3 P+E

Part number 3 07 28 142 00 1

Wall socket

over 50 V, 16 A, 100–300 Hz, 10 h, 3 P+E



Part number 3 07 28 137 00 5

over 50 V, 32 A, 100–300 Hz, 10 h, 3 P+E

Part number 3 07 28 138 00 3

Motor protection plugs

FEIN motor protection plugs reliably protect high-frequency power tools from overload. A bimetal trigger that is individually adjusted to the particular current rating of the connected equipment prevents delayed or premature interruption during brief overloading. The motor protection plug is installed in the high frequency power tool connection wiring in place of the male connector. The motor protection plug consists of a CEE plug, thermal trigger with temperature compensation and a rotary power knob.

Compatible with 840 series, adjustment range 1.6–2.5 A



| Type | Part number |
|------|------------------|
| 16 A | 3 07 56 085 00 2 |
| 32 A | 3 07 56 093 00 9 |

Compatible with HWF series 9-125, 843, 849, adjustment range 4–6.3 A

| Type | Part number |
|------|------------------|
| 16 A | 3 07 56 087 00 9 |
| 32 A | 3 07 56 095 00 1 |

Compatible with 852 series, adjustment range 6.3–9 A

| Type | Part number |
|------|------------------|
| 16 A | 3 07 56 088 00 7 |
| 32 A | 3 07 56 096 00 4 |

Compatible with 869 series, adjustment range 9–12.5 A

| Type | Part number |
|------|------------------|
| 16 A | 3 07 56 089 00 1 |
| 32 A | 3 07 56 097 00 8 |

Compatible with 870 series, adjustment range 12.5–16 A

| Type | Part number |
|------|------------------|
| 16 A | 3 07 56 090 00 3 |
| 32 A | 3 07 56 098 00 6 |

Stationary frequency converters KSR

Equipment combination

Required for connection of a stationary frequency converter to the primary network. Protection class IP 55, consists of a main switch with integrated motor protection switch (thermal and magnetic trigger) for protection against short-circuits and two-phase motor operation. In addition, the equipment combination contains an automatic protection combination, a relay for the switching time sequence, two terminals for PE and N connections, a twin pushbutton and an indicator light. A separate twin pushbutton with indicator light can also be installed for remote control.



Compatible with frequency converters

| MO 83 - | Part number |
|-------------|------------------|
| 7.5 KSR | 3 07 49 065 00 9 |
| 11/12.5 KSR | 3 07 49 073 00 6 |
| 15 KSR | 3 07 49 067 00 6 |
| 20 KSR | 3 07 49 068 00 4 |
| 25/30 KSR | 3 07 49 069 00 8 |
| 45 KSR | 3 07 49 070 00 0 |

Master control switch

Twin pushbutton with indicator light for remote control of an equipment combination.



Part number 3 07 32 020 00 4

Rubber-bonded metal buffers

Metal and rubber elements that are mounted under the feet of frequency converters to dampen vibration (1 pack). Each frequency converter requires 4.

Compatible with frequency converters MO 83 – 7.5 KSR / 11 KSR / 15 KSR / 20 KSR

Part number 3 14 15 081 00 1

Compatible with frequency converters MO 83 – 25 KSR / 30 KSR / 45 KSR

Part number 3 14 15 020 00 8

Mobile frequency converters HFS 17-300 and HFS 27-300

Distributor

For connection of up to 3 high-frequency power tools to one mobile converter.

Connection over 50 V, 16 A, 100–300 Hz, 10 h, 3 P+E, 5 m

Part number 3 07 28 377 01 0

Made in Germany.

FEIN is committed to production in Germany. New, innovative product solutions are constantly developed here under ideal conditions and manufactured using state of the art production processes in Bargau, near Schwäbisch Gmünd. Comprehensive quality management and highly trained associates ensure that only those FEIN products that completely meet our own high expectations leave our plant. This is the only way we can be sure that our products always satisfy the high demands that are placed on them daily in the toughest continuous use in industry and trades.



The durable FEIN power tools of tomorrow are already being created today in the research and development department.



A high level of vertical manufacturing integration, state of the art production facilities and highly trained associates ensure the uniform high quality of FEIN power tools.



Continuous process optimization and ongoing control – our entire 140 years of experience stands behind every FEIN power tool.

FEIN, at home all over the world.

FEIN products are the standard for performance and reliability around the world. In order for our customers to always find an expert contact, we can be reached through 16 FEIN subsidiaries and about 50 FEIN distributors worldwide. Everywhere FEIN power tools are in use, you will find trained professionals, fast service and expert consultation. You can find a FEIN partner near you by visiting www.fein.com.



Expert FEIN associates look after our customers all over the world.



Focal point for trade visitors. FEIN exhibits at international trade shows around the world.



Expert consultation worldwide and outstanding service, even on site.

The history of FEIN is the history of power tools.

In 1867, Wilhelm Emil Fein founded a company for the manufacture of physical and electrical apparatus where his son, Emil Fein, invented the first electric hand drill in 1895, barely 30 years later. With this invention he laid the foundation for the highly reliable power tools that FEIN continues to manufacture in Germany and for which this tradition-rich company is respected in trade and industry throughout the world.

FEIN has been among the world's leading power tool manufacturers for over 140 years. And that is also undoubtedly because, with every new product innovation, FEIN continues to pay attention to its own demand to only develop durable power tools.

1895

The beginning of a more than 140 year success story: The electric hand drill.



1867

The foundation.

Wilhelm Emil Fein opened a "workshop for the manufacture of physical and electrical apparatus", the foundation of the later C. & E. FEIN Company.



1895

The world's first power tool.

C. & E. FEIN invents the electric hand drill.



1914

The FEIN hammer.

The first drill with electro-pneumatic hammer mechanism (patented). In the same year, the first true high-performance drill for direct current and three phase power.



1850

1875

1900

1925

1885

The first portable telephone.

Numerous inventions and improvements emerge in the fields of telephony, lighting and fire alarms, including the first portable telephone, among other things.



1908

First specialty factory for power tools.

Specialization in the production of power tools was completed by Emil Fein.



1953

The first FEIN high frequency angle grinders.

Metalworking to industrial standards become more effective.





2011

To this day, FEIN continues to set new standards in the power tool market.



1967

First oscillating power tool.

The plaster cast saw (patented) and the first hand drill with electronic control. Displayed today, like the first hand drill, in the Deutsches Museum, Munich.



1987

First "safety" angle grinder.

Handling angle grinders becomes considerably safer and more convenient. FEIN builds the first "safety" angle grinder with a tool-free, fast attachment system and brake (patented).



2007

FEIN MULTIMASTER 250 Q.

The next generation of the universal system for interior construction and renovation: FEIN's unique 40 years of experience with oscillation technology is built into the new FEIN MULTIMASTER.



1950

1986

First FEIN oscillating detail sander.

The ancestor of the current FEIN MULTIMASTER and all later detail sanders. Incredibly versatile, due to the oscillating drive principle (patented).



1975

2004

Revolutionary: FEIN EVO.

The first safety angle grinder designed with switchless operation. An additional milestone in the history of the power tool.



2000



2011

A new dimension in core drilling.

The world's first hand-held core drilling system for metal, the FEIN KBH 25, combines the advantages of high performance power drills and carbide-tipped core bits in a single system.



FEIN – we know what matters. And we pass this knowledge on.

No matter who you talk to at FEIN – expert consultation is a given. Whether an office associate or an applications and technical advisor on site, you can rely on the professionalism of FEIN associates at all times.

Anyone who wants to learn more from FEIN can take advantage of the extensive range of FEIN training courses. In these practically-oriented seminars, FEIN brings the participants closer to the many advantages of working with FEIN power tools in theory and practice.

And if you cannot come to FEIN, then FEIN can come to you – with a fully equipped FEIN demonstration vehicle. This even makes professional training possible at your site.



It is better to experience the many advantages of FEIN power tools with a product test.



FEIN is happy to pass on their extensive knowledge to participants with a varied and practice-oriented range of training courses.



Fully equipped demonstration vehicles enable practice-oriented training at local distributors.



Always nearby: FEIN

FEIN is available for you with expert contacts in over 60 countries, worldwide. You can find your closest distribution or service partner in the following address list or online at www.fein.com

Germany:

C. & E. FEIN GmbH
Hans-Fein-Straße 81
73529 Schwäbisch Gmünd-Bargau
Phone 07173 183-0
Fax 07173 183-800
www.fein.com

USA:

FEIN Power Tools Inc.
1030 Alcon Street
Pittsburgh, PA 15220
Phone: (412) 922-8886
Toll Free: 1-800-441-9878
www.feinus.com

Canada:

FEIN Canadian Power Tool Company
323 Traders Boulevard East
Mississauga, Ontario L4Z 2E5
Phone: 905-890-1390
Toll Free: 1-800-265-2581
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