



Single disc machines from

MENZER
Powerful. Versatile.

The MENZER flooring range

The single disc machines from MENZER are multi-purpose machines for grinding, cleaning, oiling or polishing as well as for removing paint and adhesive residues. The powerful all-rounders convince with a powerful motor, easily exchangeable sanding discs and an ergonomic design.

To provide the optimum solution for every application, the ESM 406 is available in the following four equipment variants:

- **ESM 406 Floor Tec**
- **ESM 406 Dust Control**
- **ESM 406 Heavy Duty**
- **ESM 406 Clean Tec**

Simple and comfortable use

The machines have a robust and ergonomic handle that can be individually adjusted to the user's body size. The integrated safety switch prevents the machine from being switched on accidentally. The maintenance-free planetary gearbox also reliably ensures smooth, torque-optimized running of the machine. Thanks to the large and robust wheels, the machines can be easily transported.



Perfectly equipped

The machines are supplied with special sanding discs according to their equipment variants. Thus, each machine can be individually equipped with the optionally available abrasives and pads, such as the MENZER Ultrapad, the Thunderpad or, in the case of the MENZER single-disc machines, with selected diamond segments. If required, the grinding pressure can be additionally increased with the 12.5 kg additional weight so that any surface can be processed without any problems.



MENZER

ESM 406

TECHNICAL DATA

Voltage:	220–240 V ~ 50 Hz
Power:	1,200 W
Speed:	approx. 150 RPM
Motor:	Single-phase alternating current motor
Grinding plate:	Ø 406 mm
Weight of device:	32 kg



Powerful

Equipped with a durable, powerful 1,200 watt motor, each MENZER single disc machine is suitable for continuous professional use.

Flexible

Thanks to their large and robust wheels, the machines can also be transported particularly easily.

Versatile

Each machine variant can be equipped with different abrasives and pads for grinding, cleaning, polishing and maintenance.



- ▶ Durable, powerful 1,200-watt motor
- ▶ Maintenance-free planetary gear
- ▶ Easy and comfortable handling
- ▶ Ergonomically adjustable handle
- ▶ Integrated safety switch
- ▶ Easily interchangeable sanding discs
- ▶ Extensive range of accessories included in delivery as well as a large selection of additional optional accessories
- ▶ With additional weight for individual adjustment of sanding pressure

MENZER

Single disc machines ESM 406

The all-rounder among sanding devices

The single disc machines from MENZER are powerful all-rounders for grinding work and floor care and impress with their extraordinary versatility in their application possibilities. In order to offer every user the right solution, four special equipment options are available:

ESM 406 FLOOR TEC

– THE UNIVERSAL

Powerful orbital floor sander for sanding all types of floors from wood to concrete.

ESM 406 DUST CONTROL

– FOR VIRTUALLY DUST-FREE SANDING

With dust extraction ring for dust-free sanding.

ESM 406 HEAVY DUTY

– FOR TOUGH SURFACES

Includes diamond segment sanding disc for working on very hard surfaces.

ESM 406 CLEAN TEC

– FOR FLOOR CLEANING

Professional floor cleaning machine with a wide range of uses.

SCOPE OF DELIVERY

ESM 406 FLOOR TEC

- MENZER ESM 406
- Pad holder
- Hook & loop pad holder
- Pad holder for sanding and polishing pads
- Additional weight: 12.5 kg

ESM 406 DUST CONTROL

- MENZER ESM 406
- Dust extraction ring
- Pad holder
- Hook & loop pad holder
- Pad holder for sanding and polishing pads
- Additional weight: 12.5 kg

ESM 406 HEAVY DUTY

- MENZER ESM 406
- MENZER diamond driving disc
- Additional weight: 12.5 kg

ESM 406 CLEAN TEC

- MENZER ESM 406
- Cleaning kit
(water tank, soft brush,
hard brush, pad holder
for sanding and polishing pads)

Extensive accessories



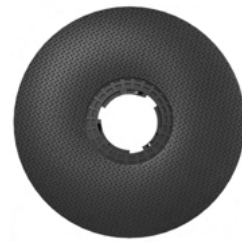
Sanding kit
Accessory kit to use the ESM 406 for grinding.



Pad holder
Pad holder (406 mm) for sanding discs with inner hole.



Hook & loop pad holder
Pad holder (406 mm) for hook & loop sanding discs.



Pad holder
Pad holder (406 mm) for sanding and polishing pads.



Multi-disc driving disc
Driving disc with 5 satellites for 125 mm sanding discs.



Dust extraction ring
MENZER ESM 406 dust extraction ring.



Add-on weight
12.5 kg add-on weight for increased abrasion pressure.



Cleaning kit
Accessory kit to convert the ESM 406 into a maintenance and cleaning tool.



Water tank
Large 8 l tank for water and cleaning agents.



Soft brush
Brushes for low-impact floor cleaning.



Hard brush
Brushes for high-impact floor cleaning.

Sanding, polishing, or cleaning with MENZER's orbital floor sanders

The grinding discs of the MENZER single disc machines can be replaced in a few simple steps. Simply mount the corresponding attachment that is needed at the moment and off you go. You can effortlessly process different types of concrete, grind off adhesive residues or filler, or convert the machine from a grinding machine to a cleaning machine and vice versa. A corresponding range of accessories provides you with everything you need.

Nearly dust-free working

In combination with an optional safety vacuum cleaner, the available extraction ring minimizes dust development during sanding, polishing or cleaning. For sanding wooden floors, the antistatic safety vacuum cleaner MENZER VCM 550 PRO Wood with patented sensor-controlled filter cleaning is especially recommended, which can also reliably collect health-endangering wood dust.



Specialized in grinding hard surfaces

The MENZER ESM 406 Heavy Duty orbital floor sander is particularly suitable for preparing very demanding surfaces, such as concrete, screed, stone, tiles, and epoxy resin. There is a large selection of high-quality diamond and PCD segments available for the diamond driving disc. The contact pressure and thus the abrasion performance can be increased with the included additional weight.



Diamond driving disc
With the MENZER diamond driving disc, it is possible to work on demanding surfaces. Depending on the segments used (diamond or PCD segments), different materials can be worked on.



Diamond segments (medium)
G20 medium floor diamond segments for diamond driving discs.







Diamond segments (soft)
G20 soft floor diamond segments for diamond driving discs.






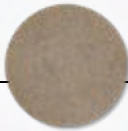

PCD segments
PCD (polycrystalline diamond) segments for diamond driving discs.



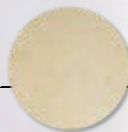

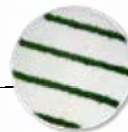





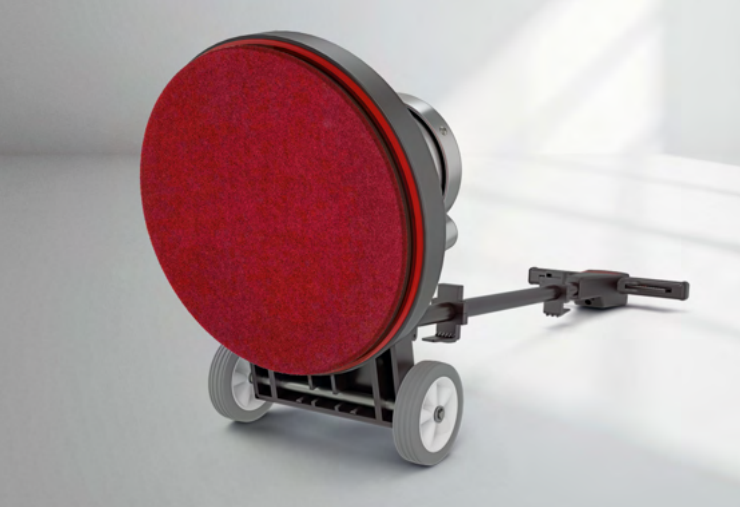
PCD grit segments
PCD (polycrystalline diamond) grit segments for diamond driving discs.

Substrates	DIAMONT-SEGMENTS K20 (medium) 	DIAMONT-SEGMENTS K20 (soft) 	PCD-SEGMENTS 	PCD-GRIT SEGMENTS (soft) 
Hard concrete	• • •	• • •	• • •	• • •
Soft concrete	• • •	• • •	• • •	• • •
Cement screed	• • •	• • •	• • •	• • •
Calcium sulfate screed	• • •	• • •	• • •	• • •
Tile adhesive	• • •	• • •	• • •	• • •
Epoxy resin	• • •	• • •	• • •	• • •
Polyurethane	• • •	• • •	• • •	• • •
Adhesive <1 mm	• • •	• • •	• • •	• • •
Adhesive > 1 mm	• • •	• • •	• • •	• • •
Asphalt (bitumen, PEN max. 100)	• • •	• • •	• • •	• • •
Bauxite	• • •	• • •	• • •	• • •
Felt paper	• • •	• • •	• • •	• • •
Carpet foam residue	• • •	• • •	• • •	• • •
Jute residue	• • •	• • •	• • •	• • •
Felt residue	• • •	• • •	• • •	• • •
Tufting backing fabric residue	• • •	• • •	• • •	• • •
Color residues	• • •	• • •	• • •	• • •

Grinding, cleaning, and polishing pads for MENZER ESM 406

ABRASIVES NORMAL PADS + SUPER PADS						
	PRODUCT GROUP	Black	Green	Red	Beige	White
	STRENGTH	Normal: 10 mm Super: 22-25 mm	Normal: 10 mm Super: 22-25 mm	Normal: 10 mm Super: 22-25 mm	Normal: 10 mm Super: 22-25 mm	Normal: 10 mm Super: 22-25 mm
	MATERIAL	Durable polyester	Durable polyester	Durable polyester	Durable polyester	Durable polyester
	SPECIAL FEATURES	Very hard and abrasive	Hard and slightly abrasive	Medium, non-abrasive	Soft, absorbent and non-abrasive	Very soft, absorbent and non-abrasive
	MAIN APPLICATION	For cleaning heavily soiled surfaces. As a carrier pad for sanding screens and double-sided sanding discs	For cleaning lightly to moderately soiled surfaces. For maintaining oiled floors, and as a carrier pad for sanding screens and double-sided sanding discs	For cleaning lightly soiled surfaces, as well as for deburring and matting	For oiling and waxing parquet and wooden floors	For polishing, maintaining, and oiling parquet and wooden floors

CLEANING PADS AND OTHER PADS									
	PRODUCT GROUP	Felt pad	Wool pads (synthetic)	Wool pads (nature)	Melamine pad	Bonnet pad	Microfiber pad	Thunder pad	Sanding fleeces
	STRENGTH	7 mm	20 mm	7 mm	30 mm	20 mm	18 mm	20 mm	10 mm
	MATERIAL	Felt	Synthetic fibers	100% felted natural wool	High-density melamine layer on stable nylon carrier material for machine use	Polyester-viscose blend combined with nylon strips	High-quality microfiber material	Stable nylon carrier material with diamond segments	Synthetic fibers with grit inclusions
	SPECIAL FEATURES	Soft and absorbent	Very soft	Soft and absorbent, biodegradable, colorfast	Fine-cell structure	Non-abrasive	Washable	Abrasive, step 1 to step 5 (black to green)	Abrasive, equivalent to G 320
	MAIN APPLICATION	For absorbing excess oils and waxes	For polishing floor waxes	For high gloss polishing of wooden floors, ideal for oiled surfaces	For environmentally friendly, water-based deep cleaning without the use of cleaning agents; for stone, concrete, tiles, terracotta and marble floors	For cleaning textile surfaces such as carpets and carpeted floors, removes stains and absorbs dirt	For regular maintenance cleaning of hard floors such as tiles, stone, wood and plastic	For removing light scratches, wax and chemical residues; ideal for cleaning and high-gloss polishing of concrete, screed, terracotta and marble floors	For fine and intermediate sanding, painting preparation and matting of painted surfaces









Grinding materials and pads for orbital floor sanders




- Durable and long-lasting grinding discs and pads
- Available in three different sizes
- Fastened with screw connection or additional supporting pad











Grinding materials and pads for multi-disc machines

- Available in all common dimensions
- High-quality grinding discs and pads
- Hook-and-loop backing for quick change and optimal adhesion

ABRASIVES	Ultrapad	Red	Black	Net	Carbide
 Ø 330 mm, without hole				G60 – G220	
 Ø 375 mm, 40 mm inner hole		G16 – G120	G16 – G36		
 Ø 375 mm, 25 mm inner hole					coarse (approx. G14) medium (approx. G24) fine (approx. G36)
 Ø 375 mm, without hole				G60 – G220	
 Ø 406 mm, 25 mm inner hole		G16 – G120	G16 – G36		coarse (approx. G14) medium (approx. G24) fine (approx. G36)
 Ø 406 mm, without hole	G60 – G150			G60 – G220	

PADS	Normal pad	Super pad	Felt pad	Wool pad	Melamin pad	Bonnet pad	Microfiber pad	Thunder pad	Sanding fleeces
 Ø 330 mm, without hole	very abrasive up to non-abrasive	very abrasive up to non-abrasive							
 Ø 375 mm, without hole	very abrasive up to non-abrasive	very abrasive up to non-abrasive							
 Ø 406 mm, without hole	very abrasive up to non-abrasive	very abrasive up to non-abrasive	x	Natural wool Synthetic fibers	x	x	x	x	x

ABRASIVES	attached with	Ultrapad	Ruby HD	Blue	Red	Net
 Ø 125 mm	hook & loop	G40 – G220		G24 – G120	G16 – G120	G60 – G180
 Ø 150 mm	hook & loop	G40 – G220	G24 – G120	G24 – G120	G16 – G120	G60 – G180
 Ø 200 mm	hook & loop		G24 – G120	G24 – G120	G16 – G120	G60 – G180

PADS	attached with	Normal pad	Diamond polishing pad
 Ø 125 mm	hook & loop	very abrasive up to non-abrasive	
 Ø 125 mm	hook & loop		Wet: G50 - G3000 + polishing function
 Ø 125 mm	hook & loop		Dry: G50 - G3000 + polishing function
 Ø 150 mm	hook & loop	very abrasive up to non-abrasive	
 Ø 200 mm	hook & loop	very abrasive up to non-abrasive	

MENZER

www.menzer-tools.com
info@menzer-tools.com

© MENZER GmbH, January 2024