MIRKA

# Mirka® DEROS II

350X, 550X, 625X, 650X & 750X



# Mirka® DEROS II

350X, 550X, 625X, 650X & 750X

110V

**United States of America, Mexico & Canada**


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**Figure 1**


Lever
Multi purpose LED
Wireless indication
On/off
LED bar
Speed -
Speed +
Power cord
Hose connection
Backing pad
5.0
WARNING
MIRKA

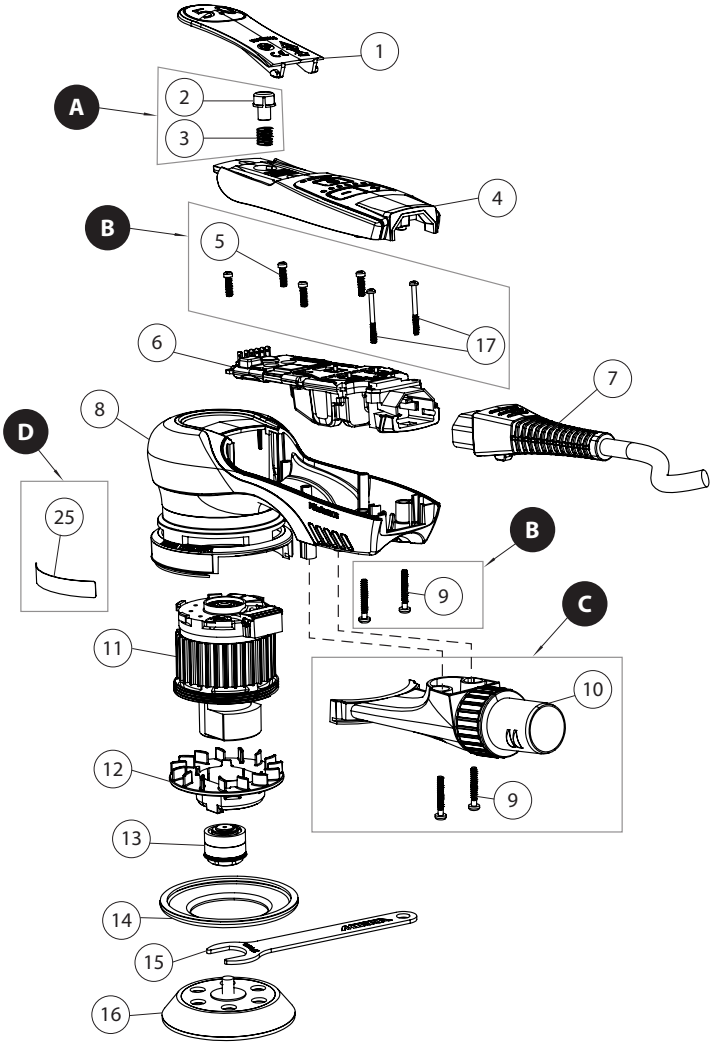
| Pad Medium* | Mirka code | 350X | 550X | 625X | 650X | 750X |
|---|---|---|---|---|---|---|
| **77 mm (3"), 30 g** | 8294791211 | X | | | | |
| **125 mm (5"), 100 g** | 8292502011 | | X | | | |
| **125 mm (5"), 130 g** | 8292502511 | | | | X | |
| **150 mm (6"), 130 g** | 8292605011 | | | X | X | |
| **175 mm (7"), 165 g** | 8292703011 | | | | | X |

* Soft and hard pad variants available as accessories.

| Edge Protector | Mirka code | 550X | 625X | 650X | 750X |
|---|---|---|---|---|---|
| **DEROS 125 mm / 5"** | 8290125111 | X | | | |
| **DEROS 150 mm / 6"** | 8290150111 | | X | X | |
| **DEROS 175 mm / 7"** | 8290175111 | | | | X |

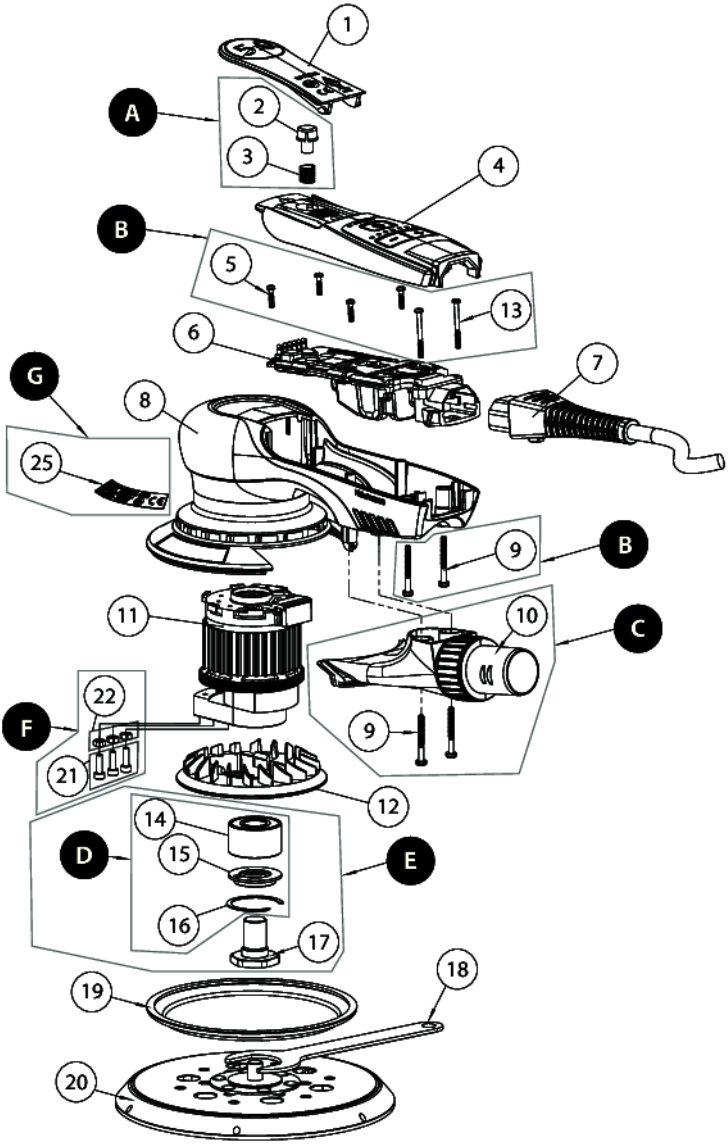
# Exploded view

**DEROS II 350X**



# Exploded view

**DEROS II 550X, 625X, 650X & 750X**



## Parts list – DEROS II 350X kits

| Mirka code | Item | Description | Kit | Quantity | Tightening torgue |
|---|---|---|---|---|---|
| **MIE6520211** | | **Start Button Kit** | **A** | | |
| | 2 | Start Button | | 1 | |
| | 3 | Start Button Spring | | 1 | |
| **MIE6520511** | | **Screw Kit** | **B** | | |
| | 5 | Screw 2,5 x 10 mm | | 4 | 0,5 Nm/0,4 ft-lb |
| | 9 | Housing Screw 3 x 25 mm | | 2 | 1,4 Nm/1,0 ft-lb |
| | 17 | Screw 2,5 x 25 mm | | 2 | 0,5 Nm/0,4 ft-lb |
| **MIE3521011** | | **Swivel Exhaust Kit** | **C** | | |
| | 9 | Housing Screw 3 x 25 mm | | 2 | 1,4 Nm/1,0 ft-lb |
| | 10 | Swivel Exhaust | | 1 | |
| **MIE6522512US** | | **Type Label kit, DEROS II X 110V (350, 550, 625, 650, 750) US** | **D** | | |
| | 25 | Type Label 350 X | | 5 | |

NOTE! Repairs done by non-authorized repairer will breach the Mirka warranty.

Electrical tools must be serviced by a qualified repair person and in accordance with national requirements.

# Parts list – DEROS II 350X spareparts & accessories

| Mirka code | Item | Description | Kit | Quantity | Tightening torgue |
|---|---|---|---|---|---|
| **MIE6510111** | **1** | **Lever 5,0 mm** | | **1** | |
| | 2 | Start button | A | 1 | |
| | 3 | Start Button Spring | A | 1 | |
| **MIE6510412** | **4** | **Cover Plate** | | **1** | |
| | 5 | Screw 2,5 x 10 mm | B | 4 | 0,5 Nm/0,4 ft-lb |
| **MIE6560612** | **6** | **Speed Controller 110V*** | | **1** | |
| **MIE9017211** | **7** | **Rewireable Mains Cable 4,3m 100-120V US** | | **1** | |
| **MIE9017311** | **7** | **Rewireable Mains Cable 4,3m 100-120V UK** | | **1** | |
| **MIE3520811** | **8** | **Housing** | | **1** | |
| | 9 | Housing Screw 3 x 25 mm | B,C | 2 | 1,4 Nm/1,0 ft-lb |
| | 10 | Swivel Exhaust | C | 1 | |
| **MIE3561112** | **11** | **Motor 5,0 mm/30 g Pad (77 mm) 110V*** | | **1** | **25 Nm/18,4 ft-lb** |
| **MIE3511211** | **12** | **Fan 2,5/5,0mm/30g Pad (77 mm)** | | **1** | |
| **MIE3521311** | **13** | **Spindle Bearing kit** | | **1** | |
| **MIE3512211** | **14** | **Brake Seal** | | **1** | |
| **8993008013** | **15** | **Pad Wrench 17mm** | | **1** | |
| **8294791211** | **16** | **Backing Pad 77mm 1/4" Grip 6H Medium** | | **1** | |
| | 17 | Screw 2,5 x 25 mm | B | 2 | 0,5 Nm/0,4 ft-lb |
| | 25 | Type Label | D | 1 | |

* Spare parts only available to authorized repairers.

# Parts list – DEROS II 550X, 625X, 650X & 750X kits

| Mirka code | Item | Description | Kit | Quantity | Tightening torgue |
|---|---|---|---|---|---|
| **MIE6520211** | | **Start Button Kit** | **A** | | |
| | 2 | Start Button | | 1 | |
| | 3 | Start Button Spring | | 1 | |
| **MIE6520511** | | **Screw kit** | **B** | | |
| | 5 | Screw 2.5 x 10 mm | | 4 | 0,6 Nm/0,4 ft-lb |
| | 9 | Housing Screw 3 x 25 mm | | 2 | 1,4 Nm/1,0 ft-lb |
| | 13 | Screw 2.5 x 25 mm | | 2 | 0,6 Nm/0,4 ft-lb |
| **MIE6521011** | | **Swivel Exhaust kit** | **C** | | |
| | 9 | Housing Screw 3 x 25 mm | | 2 | 1,4 Nm/1,0 ft-lb |
| | 10 | Swivel Exhaust | | 1 | |
| **MIE6536211** | | **Bearing Dual Seal kit (125 & 150 mm)** | **D** | | |
| | 14 | Double Row Bearing | | 1 | |
| | 15 | Dual Seal Washer | | 1 | |
| | 16 | Retaining Ring | | 1 | |
| **MIE6536011** | | **Spindle Bearing Dual Seal kit (125 & 150mm)** | **E** | | |
| | 14 | Double Row Bearing | | 1 | |
| | 15 | Dual Seal Washer | | 1 | |
| | 16 | Retaining Ring | | 1 | |
| | 17 | Spindle 5/16" | | 1 | |
| **MIE7536011** | | **Spindle Bearing Dual Seal kit (175 mm)** | **E** | | |
| | 14 | Double Row Bearing | | 1 | |
| | 15 | Dual Seal Washer | | 1 | |
| | 16 | Retaining Ring | | 1 | |
| | 17 | Spindle M9 | | 1 | |
| **8995690101** | | **Balancing Screw kit** | **F** | | |
| | 21 | Screw M3.5 x 10 mm | | 5 | |
| | 22 | Nut M3.5 mm | | 3 | |
| | | Hex Key 2.5 mm | | 1 | |
| **MIE6522512US** | **25** | **Type Label kit, DEROS II X 110V (350, 550, 625, 650, 750) US** | **G** | **45** | |

NOTE! Repairs done by non-authorized repairer will breach the Mirka warranty.

Electrical tools must be serviced by a qualified repair person and in accordance with national requirements.

# Parts list – DEROS II 550X, 625X, 650X & 750X spareparts & accessories

| Mirka code | Item | Description | Kit | Quantity | Tightening torgue |
|---|---|---|---|---|---|
| **MIE6210111** | **1** | **Lever 2,5 mm (150 mm)** | | **1** | |
| **MIE6510111** | **1** | **Lever 5,0 mm (125 & 150 mm)** | | **1** | |
| | 2 | Start Button | A | 1 | |
| | 3 | Start Button Spring | A | 1 | |
| **MIE6510412** | **4** | **Cover Plate** | | **1** | |
| | 5 | Screw 2.5 x 10 mm | B | 4 | 0,6 Nm/0,4 ft-lb |
| **MIE6560612** | **6** | **Speed Controller 110V*** | | **1** | |
| **MIE9017211** | **7** | **Rewireable Mains Cable 4,3 m 100-120 V US** | | **1** | |
| **MIE9017311** | **7** | **Rewireable Mains Cable 4,3 m 100-120 V UK** | | **1** | |
| **MIE6520811** | **8** | **Housing** | | **1** | |
| | 9 | Housing Screw 3 x 25 mm | B,C | 2 | 1,4 Nm/1,0 ft-lb |
| | 10 | Swivel Exhaust | C | 1 | |
| **MIE5561112** | **11** | **Motor 5,0 mm/100 g Pad (125 mm)*** | | **1** | **25 Nm/18,4 ft-lb** |
| **MIE6261112** | **11** | **Motor 2,5 mm/130 g Pad (150 mm)*** | | **1** | **25 Nm/18,4 ft-lb** |
| **MIE6561112** | **11** | **Motor 5,0 mm/130 g Pad (150 mm)*** | | **1** | **25 Nm/18,4 ft-lb** |
| **MIE7561111** | **11** | **Motor 5,0 mm/165 g Pad (175 mm)*** | | **1** | **25 Nm/18,4 ft-lb** |
| **MIE65111B1** | **11-B** | **Ground Wire** | | **1** | |
| **MIE5511211** | **12** | **Fan 5,0 mm/100 g Pad (125 mm)** | | **1** | |
| **MIE6211211** | **12** | **Fan 2,5 mm/130 g Pad (150 mm)** | | **1** | |
| **MIE6511211** | **12** | **Fan 5,0 mm/130 g Pad (150 mm)** | | **1** | |
| **MIE7511211** | **12** | **Fan 5,0 mm/165 g Pad (175 mm)** | | | |
| | 13 | Screw 2.5 x 25 mm | B | 2 | 0,6 Nm/0,4 ft-lb |
| | 14 | Double Row Bearing | D,E | 1 | |
| | 15 | Dual Seal Washer | D,E | 1 | |
| | 16 | Retaining Ring | D,E | 1 | |
| **8995603201** | **17** | **Spindle 5/16" (125 & 150mm)** | **E** | **1** | |
| | 17 | Spindle M9 (175 mm) | E | | |
| **8995604121** | **18** | **Pad Wrench 24mm** | | **1** | |
| **8995603211** | **19** | **Brake Seal** | | **1** | |
| **8292502011** | **20** | **Backing Pad Net 125 mm 5" 5/16" 28H Medium 100 g** | | **1** | |
| **8292502511** | **20** | **Backing Pad Net 125 mm 5" 5/16" 28H Medium 130 g** | | **1** | |
| **8292605011** | **20** | **Backing Pad Net 150 mm 6" 5/16" 48H Medium 130 g** | | **1** | |
| **8292703011** | **20** | **Backing Pad Net 175 mm 7" M9 Grip 37H Medium 165g** | | | |
| | 21 | Screw M3.5 x 10 mm | F | 5 | |
| | 22 | Nut M3.5 mm | F | 3 | |
| | 25 | Type Label | G | 1 | |

* Spare parts only available to authorized repairers.

# Declaration of conformity

**Mirka Ltd, 66850 Jeppo, Finland**

declare under our sole responsibility that the Mirka® products (listed below and see "Technical data" table for particular model) to which this declaration relates are in conformity with the following standards or other normative documents: EN 62841-1:2015+A11:2022, EN 62841-2-4:2014, EN IEC 55014-1:2021, EN IEC 55014-2:2021, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 300 328 V2.2.2, EN 301 489-1 V2.2.3, EN 301 489-17 V3.2.4, EN IEC 63000:2018 in accordance with the regulations 2006/42/EC, 2011/65/EU, 2014/53/EU.

Products: Mirka® DEROS II 350X, 550X, 625X, 650X & 750X

| | | | | |
|---|---|---|---|---|
| *Jeppo 03/24/2025*<br>Place and date of issue | MIRKA<br>Company | Stefan Sjöberg, CEO | **Manufacturer / Supplier**<br>Mirka Ltd<br>66850 Jeppo, Finland<br>Tel. +358 20 760 2111<br>Fax +358 20 760 2290<br>www.mirka.com | CE |

Original instructions. We reserve the right to make changes to this manual without prior notice.

# Important

Read these safety and operating instructions carefully before installing, operating or maintaining this tool. Keep these instructions in a safe and accessible place. Read and comply with state and local regulations.

# Required personal safety equipment



Read
operator's manual



Wear
safety glasses



Wear
ear protection



Wear
safety gloves



Wear
face mask

**Warning:** Potential hazardous situation that may result in death or serious injury and/or property damage.
**Caution:** Potential hazardous situation that may result in minor or moderate injury and/or property damage.

SGS
C US
802090

CONFORMS TO UL STD 62841-1, 62841-2-4
CERTIFIED TO CAN/CSA STD
C22.2 No. 62841-1, C22.2 No. 62841-2-4

# Please read and comply with

- General Industry Safety & Health Regulations, part 1910, OSHA 2206, available from: Superintendent of Documents; Government Printing Office; Washington DC 20402
- State and local regulations

# Symbols

| | |
|---|---|
| CE | Complies with EU relevant standards |
| UKCA | Complies with UK relevant regulations |
| | Complies with Australia & New Zealand RCM requirement |
| EAC | Complies with Eurasian conformity requirements |
| H005 21 | Complies with Serbian conformity requirements |
| | Complies with Ukraine conformity requirements |
| ANATEL | Complies with Brazilian conformity requirements |
| | Complies with China RoHS requirement |

# General Power Tool Safety Warnings

**WARNING** Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

**Save all warnings and instructions for future reference.** The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1. **Work area safety**
   a. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
   b. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
   c. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.
2. **Electrical safety**
   a. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
   b. **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
   c. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
   d. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges and moving parts.** Damaged or entangled cords increase the risk of electric shock.
   e. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
   f. **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.
3. **Personal safety**
   a. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.

b. **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

c. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or plugging in tools when the switch is in the on-position invites accidents.

d. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

e. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.

f. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.

g. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

h. **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

4. **Power tool use and care**

a. **Do not overload the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.

b. **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c. **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.

d. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.

e. **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.

f. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g. **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

h. **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

5. **Service**

a. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

## ⚠ Additional Safety Warnings

- The safety of the tool is granted only by using original Mirka backing pads.
- Read the Materials Safety Data Sheet (MSDS) for the work surface.
- If any physical hand/wrist discomfort is experienced, stop working and seek medical attention. Hand, wrist and arm injury may result from repetitive work, motion and overexposure to vibrations.
- The power supply socket and connector are non-IEC appliance couplers. Only use an original Mirka power supply cable. The Mirka power supply cable can be bought from your Mirka Dealer.
- Check the tool, backing pad, power cord and fittings regularly for wear. If the power supply cable is damaged it must be replaced by an original Mirka power supply cable.
- Clean or replace the dust extractor´s collection bag daily. Dust can be highly combustible. Cleaning or replacing the bag also assures optimum performance.
- If the tool appears to malfunction, stop using it immediately and arrange for service and repair.
- Always ensure that the work piece to be sanded is firmly fixed in place.
- Keep hands clear of the spinning accessory during use.
- Do not allow the tool to free speed without taking precautions to protect surrounding people and objects in the event that the abrasive or backing pad should come loose.

# ⚠ Additional Warnings

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemicallytreated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

## Technical data

| DEROS II - Random Orbital Sander | 350X | 550X | 625X | 650X | 750X |
|---|---|---|---|---|---|
| **Power** | 250 W | 350 W | 350 W | 350 W | 350 W |
| **Mains voltage** | 100 –120 VAC | 100 –120 VAC | 100 –120 VAC | 100 –120 VAC | 100 –120 VAC |
| **Speed** | 4,000 –10,000 rpm | 4,000 –10,000 rpm | 4,000 –10,000 rpm | 4,000 –10,000 rpm | 6,000 –9,000 rpm |
| **Orbit** | 5 mm (3/16") | 5 mm (3/16") | 2.5 mm (3/32") | 5 mm (3/16") | 5 mm (3/16") |
| **Size of backing pad** | Ø 77 mm (3") | Ø 125 mm (5") | Ø 150 mm (6") | Ø 150 mm (6") | Ø 175 mm (7") |
| **Weight** | 0.8 kg (1.8 lbs) | 1 kg (2.2 lbs) | 1 kg (2.2 lbs) | 1.1 kg (2.4 lbs) | 1.1 kg (2.4 lbs) |
| **Degree of protection** | I | I | I | I | I |

## Noise and vibration information

Measured values are determined according to EN 62841 and EN 60745.

| DEROS II - Random Orbital Sander | 350X | 550X | 625X | 650X | 750X |
|---|---|---|---|---|---|
| **Sound pressure level ($L_{pA}$)** | 67 dB(A) | 71 dB(A) | 71 dB(A) | 71 dB(A) | 71 dB(A) |
| **Sound power level ($L_{WA}$)** | 78 dB(A) | 82 dB(A) | 82 dB(A) | 82 dB(A) | 82 dB(A) |
| **Sound measurement uncertainty $K_{WA}$** | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 3.0 dB(A) | 2.5 dB(A) |
| **Vibration emission value $a_h$ *** | 3.3 m/s² | 3.2 m/s² | 2.4 m/s² | 3.4 m/s² | 2.8 m/s² |
| **Vibration emission uncertainty $K_{PA}$ *** | 1.5 m/s² | 1.5 m/s² | 1.5 m/s² | 1.5 m/s² | 1.5 m/s² |

Specifications subject to change without prior notice. Model range may vary between markets.

* The values stated in the table are derived from laboratory testing in conformity with stated codes and standards and are not sufficient for risk evaluation. Values measured in a particular work place may be higher than the declared values. The actual exposure values and amount of risk or harm experienced by an individual are unique to each situation and depend upon the surrounding environment, the way the individual operates the machinery, the particular material being worked, work station design and the user's exposure time and physical condition. Mirka accepts no responsibility for the consequences of using declared values instead of actual exposure values for any individual risk assessment.

Further occupational health and safety information can be obtained from the following websites:

https://osha.europa.eu/en (Europe) or http://www.osha.gov (USA)

## Work stations

The tool is intended to be operated as a hand-held tool. It is always recommended that the tool should be used when standing on a solid floor. It can be in any position but before any such use, the operator must be in a secure position,

having a firm grip and footing and be aware that the tool can develop a torque reaction. See the section “Operating instructions”.

## How to get started

When unpacking the tool, make sure it is intact, complete and has not been damaged in transport. Never use a damaged tool.

Before use, check that the backing pad is correctly attached and tightened. Connect the power cord to the tool. Connect the power cord to a grounded outlet (100 –120 VAC, 50–60Hz).

In order to get the maximum power from this tool it is recommended to use it with the Mirka dust extractor (or other suitable dust extraction unit) and Mirka net sanding products. The combination of Mirka sanders, Mirka net sanding products and Mirka dust extractor are the basis of Mirka dust-free sanding solutions.

The power cord from the tool is connected to the mains supply of the dust extractor. By connecting the tool's power cord to the outlet on the dust extractor it is possible to use the dust extractor’s autostart function.

## Operating instructions

- The tool is intended to be operated as a hand held tool. The tool can be used in any position. Note! The sander can develop a torque reaction when started.
- Make sure the sander is switched off. Select a suitable abrasive and secure it to the backing pad. Make sure the abrasive is centred on the backing pad. For optimal performance we recommend a Mirka backing pad and Mirka Net Sanding product.
- Switch on the sander by pressing the On/Off key, see Figure 1. The sander Multi-purpose LED is now flashing green, see Figure 1.
- The sander can now be started by pressing the lever.
- The speed can be adjusted between 4,000 rpm and max by adjusting the position of the lever.
- The max rpm can be adjusted by pressing speed+ or speed–, see Figure 1. Each press increases or reduces the speed by 1,000 rpm (DEROS II 750: 500 rpm) until it reaches the limits. For model specific rpm limits, please see technical data chapter.
- The tool has two speed control modes. In the default mode the speed can be adjusted linearly by changing the position of the lever. In the other mode the speed remains fixed at the set max rpm when the tool is running. When the rpm+ and rpm– buttons are pressed simultaneously the tool toggles between the two controlling modes.
- When sanding, always place the tool on the work surface before starting the tool. Always remove the tool from the work surface before stopping it. This will prevent gouging of the work surface due to excess speed of the abrasive.
- When sanding is finished, turn off the sander by pressing the On/Off key. All LEDs are turned off except wireless indication LED, if the tool is connected.

## Bluetooth

**NOTE!** Not applicable for models without Bluetooth.

| | |
|---|---|
| **Frequency (MHz)** | 2402-2480 |
| **RF Output power (EIRP, dbm)** | 8 |
| **Highest Reported SAR10g value for body-worn/Limb exposure condition (W/kg)** | 0.00016 |

This tool is equipped with Bluetooth® low energy technology and can be connected to MyMirka app through which additional tool functionality can be accessed. For more information on the app functionality and if it is available in your country, go to www.mirka.com/mymirka

Activate Bluetooth on your Mirka® DEROS II as follows:

1. Connect the power cord to mains outlet.
2. Press and hold the Speed+ button while switching the tool on with the On/Off button.
3. Wireless indication LED starts blinking blue, to indicate that Bluetooth is active. The LED turns solid when connection is established.
4. Bluetooth is deactivated when the tool is disconnected from mains outlet.

**NOTE!** If the app is not installed or if it is not available in your country, Bluetooth shall not be activated.

The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Mirka Ltd is under license. Other trademarks and trade names are those of their respective owners.

**FCC Rules & Industry Canada's licence-exempt RSS**

Compliance with the radio regulations in North America has been verified in accordance with FCC Part 15 subpart B and C, RSS-GEN, RSS-247 and FCC §15.247. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

**NOTE!** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

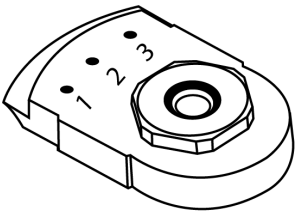
**CAUTION TO THE USER:** Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## Reducing vibration when sanding with pad saver or interface

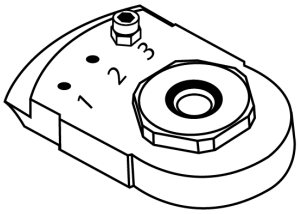
The level of vibration may increase when sanding with a pad saver or interface. Your Mirka tool has a feature to reduce this vibration. To use this feature, please follow these steps:

1. Disconnect power cable.
2. Remove backing pad.
3. Add hex nuts and screws in accordance with the pictures below, tighten to 2 Nm.

**Note!** If the sander is used with an interface it is recommended that the speed is set to a maximum of 7,000 rpm.

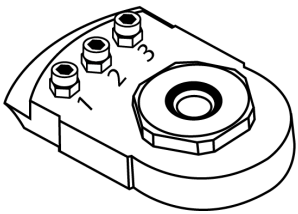



1. Machine configuration out of box, no screws or nuts.




2. Machine configuration for use with pad saver or interface, screw and nut installed in position 3.

**DEROS II 550(X), DEROS II 625(X), DEROS II 650(X), DEROS II 750(X)**




3. Machine configuration for use with pad saver or interface, screws and nuts installed in positions 1,2,3.

**DEROS II 680**

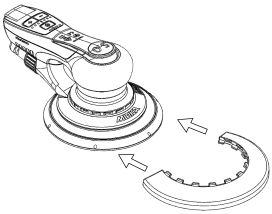
## Edge protector

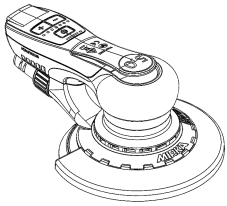
The edge protector is a accessory that can be attached to the machine to prolong the lifetime of the backing pad due to the pad not being in contact with materials. Using the Edge Protector when sanding into corners and edges, the backing pad doesn't scratch or damage adjacent surfaces.

**Attaching the edge protector (if provided)**

1. Disconnect power cable and place the machine on a flat surface.

2. Attach the edge protector by stretching both ends outwards a little and mount it onto the sander.
3. Check that the brake seal is still in place.





## Maintenance

Always disconnect the power before maintenance!
Only use original Mirka spare parts!

## Replacing the backing pad

1. Insert the pad wrench between the backing pad and brake seal to hold the spindle nut.
2. Turn the backing pad counterclockwise to remove it.
3. Fit and tighten the new backing pad with washers.
4. Remove the pad wrench.

## Pad saver

Mirka pad savers are designed to protect the backing pad from wear and tear, when sanding aggressively and continuously with net products. These cost effective pad savers, placed between the backing pad and the sanding disc, should be changed regularly. The pad savers prolong the life of the backing pad.

## Replacing the brake seal

1. Remove the backing pad as described above.
2. Pull the old brake seal out of its groove.
3. Fit the new brake seal in the groove.
4. Fit the backing pad as described above.
5. Check the brake seal function. By changing the number of washers between the spindle and backing pad, the effect of the brake seal can be adjusted.

## Further service

Servicing must always be performed by trained personnel. To keep the tool warranty valid and ensure optimal tool safety and function, servicing must be carried out by a Mirka authorized service centre. To locate your local Mirka authorized service centre, contact Mirka Customer Service, your Mirka dealer or go to www.mirka.com

## Troubleshooting guide

| Symptom | Possible cause | Solution |
|---|---|---|
| **The Multi purpose LED flashes between red and green.** | Connected to a mains outlet with wrong voltage. | Connect the tool to a mains outlet that correspond with the nominal voltage of the tool. |
| **No light from Multi purpose LED when switched on.** | Power cord not properly attached to the tool or to the mains socket. | Connect it properly. |
| **The Multi purpose LED is red and the tool slows down to the minimum speed setting when sanding.** | Temperature too high in the tool<br>Too heavy long term load. | Reduce the load on the tool for some time and the tool will speed up again. |
| **The Multi purpose LED is red and rpm is slightly reduced.** | Too heavy short term load. | Use lighter load and the LED (right) will automatically change to green. |
| **Brake seal does not work.** | Worn out brake seal or damaged spindle bearing. | Check and replace brake seal or spindle bearing if necessary |
| **The tool has stopped and the Multi purpose LED is red.** | The tool is in safety mode due to high temperature. | Wait until the tool has cooled down. |

## Disposal information



**DANGER**

Render redundant power tools unusable by removing the power cord.

Observe applicable country-specific regulations regarding disposal and recycling of disused machines, packaging and accessories.

**EU only:** Do not dispose electric power tools in house-hold waste. According to European Directives on waste electrical and electronic equipment and its implementation under national law, electric tools that have reached the end of their life must be collected separately and taken to an environmentally compatible recycling facility.

For more information regarding REACH, RoHS and our corporate social responsibility visit www.mirka.com