

ATTENTION - SPECIAL OFFERS NOW AVAILABLE !!! SO PRICES ARE CURRENTLY REDUCED BY 20% !!!

# Offer

# **Universal Cylindrical Grinding Machine MSO FM 165/500**



manufacturer: MSO type: FM 165 / 500 mach.-nr.: M 26214

year of construction: ??? / 11.2018 tüp.

comm.-Nr.: 3990400/009

**stock-nr.:** 1908

Special Price: <del>8.850,-</del> € | now 7.080,- €

#### The machine is suitable for:

- external grinding
- internal grinding
- surface grinding
- taper grinding
- · chamfering
- · angled flat grinding

# **Technical Data**

## (According to manufacturer)

centre height: 180 mm swing-Ø: 360 mm

grinding length: 500 mm between centres: 550 mm

### grinding wheel

diameter: 300 mm bore-Ø: 127 mm

largest width of grinding wheel for plunge grinding: 40 mm

largest total width of a grinding wheel set: 80 mm

largest sum of single widths: 40 mm

grinding wheel speed: 1.650 / 2.150 rpm = 30 m/s

#### grinding head

largest grinding head hub: 209 mm largest hub by hand wheel: 67 mm

additional hub: 142 mm

autom. interval feed: 0.005 - 0.020 mm

feed by one revolution of hand wheel: rough 25 mm / fine 2,5 mm

feed by one hand wheel graduation mark: 0,0025 mm

setting by tip-switch regarding diameter: 0,00125 / 0,0025 mm

#### internal grinding attachment

largest distance from front edge spindle headstock to grinding spidnle carrier: 750 mm

bore for carrying the spindle: 60 mm

largest grindable bore: 125 mm / maybe larger

#### headstock spindle

**6 work-piece speeds, adjustable:** 40 – 305 rpm

rotatability of headstock spindle against the grinding wheel: 90°

spindle cone or inner taper of headstock spindle: MK 4

#### tailstock

inner cone of quill: MK 3

quill travel: 20 mm

#### table

largest table incline: 10° largest cone angle: 20° table speed: 0,2 – 1,1 m/min

**rough travel by hand wheel:** 1 revolution 25 mm, 1 graduation mark 0,25 mm **fine travel by hand wheel:** 1 revolution 2,5 mm, 1 graduation mark 0,025 mm

total connected load: ca. 4 kW

weight: ca. 1.800 kg

standing area: W 2,10 x D 1,20 x H 1,60 m

color: blue / grey-white / red

# **Features**

rotatable internal grinding attachment

- manual or automatic operation
- self-feeding up to 0-limit
- grinding wheel fine adjustment 0,00125 / 0,0025
- automatic feed works as piercing feed, without feed, table-dependant feed
- only RIGHT / LEFT and RIGHT / only LEFT
- upper table for tamper grinding with fine feed and measuring clock
- bedway is lubricated by re-oil
- tailstock can be activated by mechanical lever
- attachment with measuring clock for table pivoting up to 10°
- headstock spindle pivotable up to 360°
- grinding head pivotable up to 360°, in 2 layers
- grinding head two speeds
- free-standing liquid cooling system, mobile
- splash guards
- 3 pieces grinding wheel flanges with wheels
- internal grinding spindle with cone attachment and extraction threading
- internal grinding spindle with fastening clamp attachment and fastening clamp Ø 6 mm
- internal cooling through work spindle on work piece during internal grinding
- 2. driving pulley to adjust the internal grinding spindle rmp setting
- adjustable straight and radial matching device with quick-fastening lever
- adjustable dressing device for grinding wheel, at tailstock
- adjustable side and diagonal dressing device with scale, for grinding wheel, with quick-release lever
- open lunette, adjustable
- Three-Chuck-fastening buffer forkhardt Ø 125 mm, with spindle receiver flange
- collet attachment for direct spindle reception
- fastening clamp device with spindle recevier
- 10 collet chucks for collet from Ø 3 mm 22 mm
- 5 vibration-dampening standing bars
- of internal grinding spindles in various sizes
- operating manual

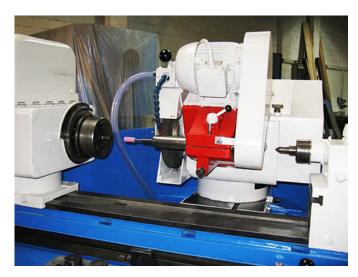
#### The seller informed us this has been used in a teaching environment.

If the year of construction has a "tüp."-date, that means the machine has been electrically and

- technically inspected by us on that date.

  If the year of construction has a "tüb."-date, that means the machine has been partially overhauled on that date according to the prior owner.
- If the year of construction is marked "\*", it is the information the prior owner relayed to us or our own estimation.







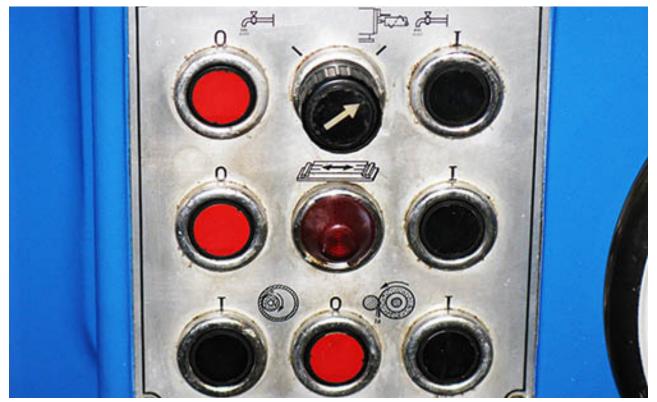












**ProHa-Maschinen**Owner: Wilfried Jürgens

Ident-Nr. DE 182722273 AG Essen HRA 7402 **Office** Egge 3 45549 Sprockhövel **Warehouse** 58285 Gevelsberg

Collection and delivery by appointment only.

Phone 0 23 39 / 121212 Fax 0 23 39 / 121213

www.proha-maschinen.de info@proha-maschinen.de