

# STEEL CIRCULAR SAWS – AUTOMATIC

## Series SPA HM




### 75 / 80 / 120 / 160 / 180 / 230

#### HIGHLIGHTS

- High-speed saw with recirculating ball screw and servo drive
- 2-fold pre-tightened Trennjaeger gears
- Control unit Siemens S7/1500 with full display
- Automatic saw blade service time determination
- Material gripper feed with lifting/lowering and zero point detection



#### TECHNICAL DATA AT A GLANCE

Machine type	 mm	 m/min	 90°
<b>SPA 75 HM</b>	280	20-160	75/60/60x60
<b>SPA 80 HM</b>	285	20-160	80/80/80x80
<b>SPA 120 HM</b>	380	20-160	120/85/85x85
<b>SPA 160 HM</b>	480	20-160	160/110/110x110
<b>SPA 180 HM</b>	560	20-160	180/140/140x140
<b>SPA 230 HM</b>	750	20-160	230/165/165x165

Further information on the machine series and numerous accessories can be found on our website:  
[www.wagner-maschinen.de/en/trennjaeger-saws/circular-saws](http://www.wagner-maschinen.de/en/trennjaeger-saws/circular-saws)

## **STEEL CIRCULAR SAWS – AUTOMATIC** **SPA 75 HM / 80 HM / 120 HM / 160 HM /** **180 HM / 230 HM**



### **ALL HIGHLIGHTS AT A GLANCE**

- Blow-off and brushing system
- Minimum lubrication system
- Cut-off piece and good piece sorting
- 2-fold pre-tightened Trennjaeger gears
- AUTOMATIC saw blade service time determination
- Heavy two-fold pre-tightened spur gear with direct gear brake
- Saw feed by pre-tightened recirculating ball screw with electric control actuator
- Cut-off piece length with AUTOMATIC length calculation (optional 5 mm, with cut-off piece optimisation)
- Hydraulic equipment in separate hydraulic unit (2.5 kW), control valves, pressure switch and hydraulic oil tank
- Electric equipment, PLC controller
- SIEMENS S7-1500 with control panel and touch panel (option: MITSUBISHI control unit)
- Micro dosing cooling and lubrication system (air connection 6 bar, to be provided by the client)

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## TECHNICAL DATA

- Cutting time reduction by approx. 50%
- Cycle time reduction by 30-40%
- Material feed is increased to 24 m/min
- Machine table with pre-adjustable machine vice for material clamping on both sides
- Hydraulic equipment in a separate hydraulic unit according to our STANDARD device list with hydraulic pump and three-phase motor 2.5 kW
- Three-phase motor 12.5 kW (SPA 75), 15 kW (SPA 80), 15 kW (SPA 120), 22.0 kW (SPA 160), 30 kW (SPA 180) at 100 % ED, servo motor 1.3 kW (2-fold 1 x saw feed, 1 x saw replenishment) in SPA 230 with 38 kW

## STANDARD EQUIPMENT

- Gears with wear-free eddy current brake for higher efficiency and lower power consumption
- Recirculating ball screw of the saw blade feed with technically improved drive gear
- Colour screen with 7-inch high-resolution graphics
- Control unit with USB port
- Pressure reducer with pressure gauge, adjustable and visible on the front side of the machine
- Independent, separate oil tank for easy accessibility and optimisation of the energy consumption
- First cut with separate ON and OFF switch depending on different requirements
- Material end detection with laser sensors for different materials and highest accuracy
- Minimum greasing with switching functions for spraying during the cutting or also permanent spraying in the production order with lower quantity message
- High-performance spur gear with helical, hardened and ground gears
- Hydraulic pre-tightening of the saw blade drive
- Additional HM stabiliser to the saw blade guide
- Chip remover holder with pin chip remover for HSS chip remover brush for HM operation
- Saw feed by pre-tightened recirculating ball screw with electric servo drive control actuator
- 1 set of tools, operating instructions / spare parts list
- Electrical equipment 400 V / 50 Hz
- CE standard

## SPECIAL EQUIPMENT

- Stronger motor 22 kW (SPA 120)
- Chip conveyor with ejection height 950 mm (SPA 230 standard)
- Relocation of the panel to the opposite side
- Oil mist extraction system for machine tools (SPA 230 standard)
- Variable clamping pressure system

## DETAIL PICTURES



Horizontal and vertical clamping

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We reserve the right to make design changes in the course of technical improvements. Illustrations, dimensions and weights are not binding.



## SUPPLY SIDE – OPTIONS



Bundle loading magazine



Flat loading magazine



Bundlademagazin

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## REMOVAL SIDE – OPTIONS



Castor conveyor



Table conveyor



Plate conveyor



Table conveyor



Robot storage system

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