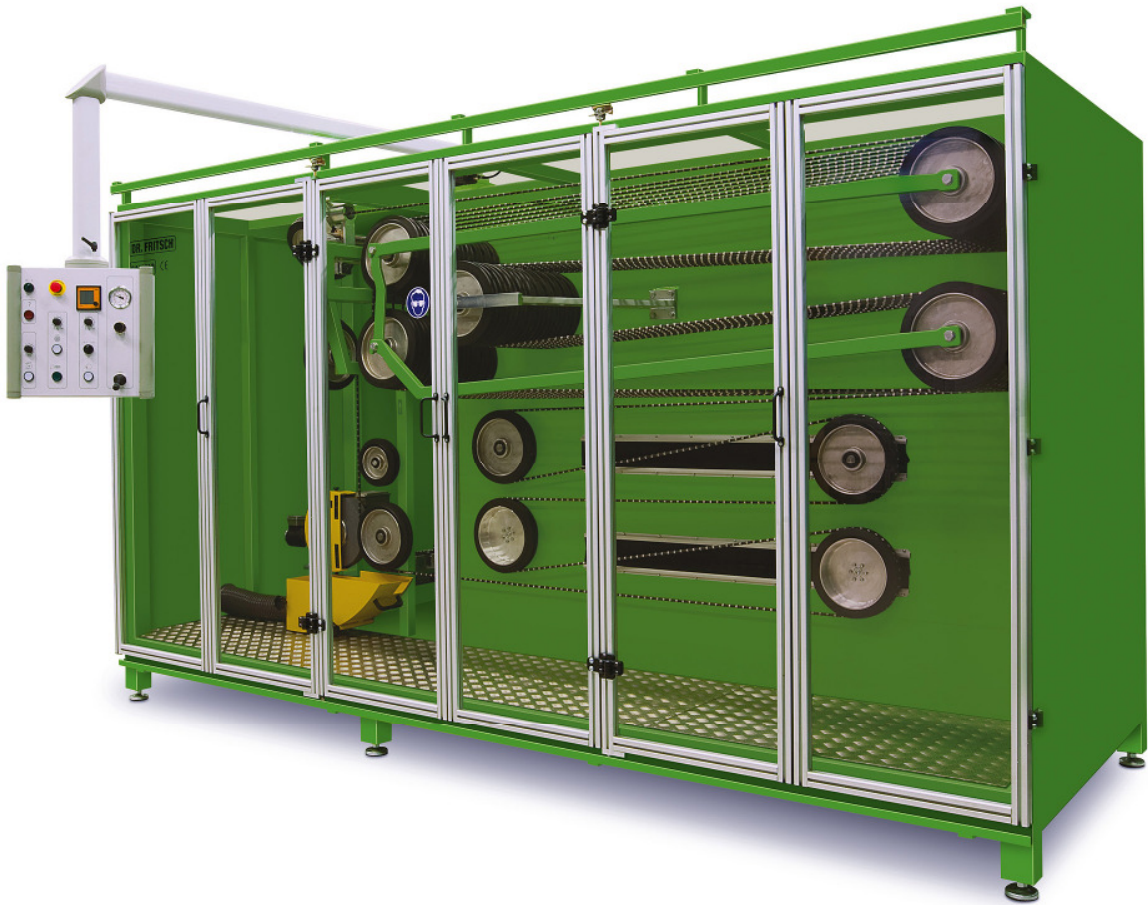


# DR. FRITSCH

## SONDERMASCHINEN

### **Dressing and Sharpening Machine for Diamond Wires SAM 205/210**



Dr. Fritsch Sondermaschinen GmbH, 70736 Fellbach, Germany

## Technical Specification

### SAM 205/210

Type SAM 205 for diamond wires between 4 und 50 m length (endless)

Type SAM 210 for diamond wires between 4 und 100 m length (endless)

#### **CONSTRUCTION OF THE MACHINE**

- Reinforced low vibration welded frame construction
- All-around protection out of robust macrolon
- Large removable pull-out dirt container for grinding swarf
- Pneumatic wire tensioning regulable via pressure control valve
- Wire rotation speed controllable via frequency converter
- Grinding device with oscillating wheel and adjustable feed
- The rollers are placed in a way that the wire is rotating automatically in order to obtain an more uniform grinding result.
- Grinding wheel rotation speed adjustable via frequency converter
- Automatic disconnection via timer

#### **OPTION**

- Grinding device with an oscillating brush (e.g. for galvanically coated wires)

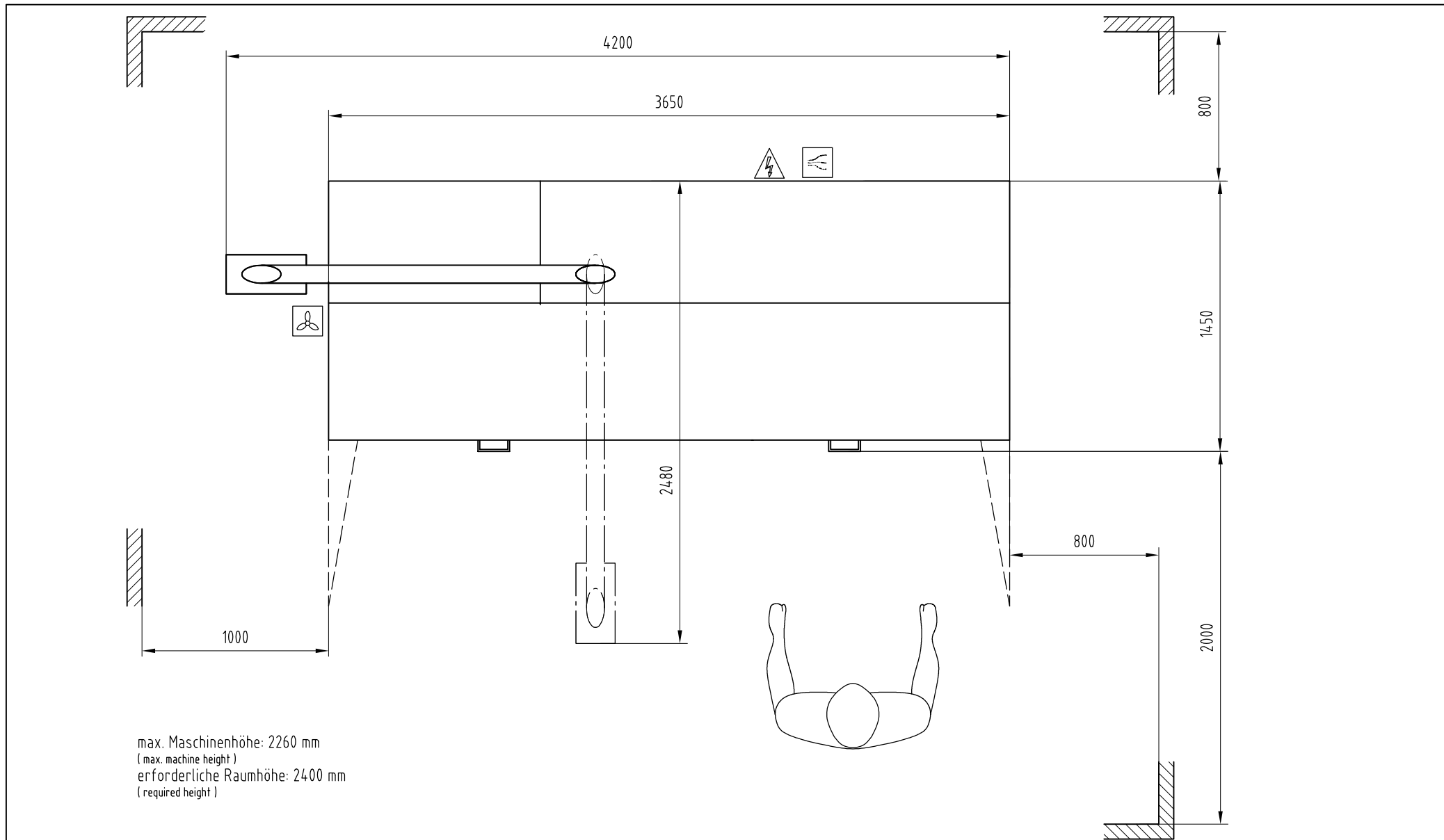
#### **FUNCTIONING OF THE MACHINE**

The wire can be loaded in an endless condition. Thanks to the special arrangement of the rollers the grinding result is all around uniform and the wire is ready to cut immediately. The critical procedure of reeling-in the wire on the sawing machine is avoided. The simple manipulation and a timer-controlled disconnection make the machine very efficient.

**TECHNICAL DATA**

Total connected load:	13 kVA
Supply voltage:	3 x 400 V, 50/60 Hz other voltages and frequencies possible upon demand
Nominal current:	3 x 19 A
Fuses (provided by customer):	3 x 25 A
Compressed air:	
- consumption:	approx. 60 l/min., depending on the process
- pressure:	6 bar
Suction:	provided by the customer; flow approx. 800 m <sup>3</sup> /h
- connection:	2 x connecting piece $\varnothing$ 100 mm
Wire saw:	
- length:	SAM 205: 4 - 50 m endless SAM 210: 4 - 100 m endless
- diameter:	
min.	8 mm
max.	14 mm
Grinding wheel:	$\varnothing$ 300 x $\varnothing$ 60 mm, width: 50 mm
Dimensions of machine:	length: approx. 3.650 mm depth: approx. 1.450 mm height: approx. 2.260 mm
Weight:	SAM 205: approx. 1.900 kg SAM 210: approx. 2.000 kg

- Technical data and design are subject to modifications -



max. Maschinenhöhe: 2260 mm  
 ( max. machine height )  
 erforderliche Raumhöhe: 2400 mm  
 ( required height )

Symbol	Bedeutung ( meaning )	Symbol	Bedeutung ( meaning )	30 cm ┌──┴──┐	0:\ZA3\ Z17669	<b>AUFSTELLPLAN</b> layout plan	
	Elektrik ( electricity )		Gas ( gas )		Bearb. 30.01.2009		
	Pneumatik ( pneumatic )		Wand ( wall )		Gepr.	Maschinen Typ : SAM2XX - 50/100m	
	Kuehlwasser ( cooling water )		Arbeiter ( operator )		Norm	Zeichnungs Nr.: 9K APL 003 01	
	Absaugung ( suction )				<b>DR. FRITSCH</b> Sondermaschinen GmbH 70722 Fellbach		