

# DR. FRITSCH

## SONDERMASCHINEN

### **Dressing and Sharpening Machine**

### **TAM 216**



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## Technical Specification

### TAM 216

#### **ESSENTIAL CHARACTERISTICS**

- for blade diameters 200 - 1.600 mm
- oscillation-damped clamping of the blade via flanges with adhesive rubber coating
- relief grinding of saw blades as of core diameter 180 mm  
(when using later grinding wheels of 10 mm thickness, relief grinding is possible as of core diameter 160 mm)
- grinding of cutters of diameter 150 to 750 mm and 70 mm of width (cutter seats are not included)
- constant peripheral speed of grinding wheels
- completely closed design
- fully automatic or manual cycle
- 4 axes numeric control with step-motors
- an infinitely variable saw-blade drive
- high efficient norm motors with separate spindle support
- improved accessibility for maintenance
- robust design of the machine and its components
- highest life time of guidings and drives thanks to a optimized sealing system
- large-surface windows
- illuminated workspace
- automatic central lubrication system
- touch-screen, swing suspension, electronic handwheel
- may be connected to an existing cooling water filter system or an automatic belt filter system (optional)
- tool box

#### **OPTIONS**

- positioning of lateral grinding wheels
- automatic door drive
- dressing of grinding discs of diameter 0 up to 250 mm (seats for grinding discs are not included)
- automatic belt filter system

## DESIGN AND FUNCTIONING

- a solid welded frame
- a closed casing with sliding doors and windows
- a grinding system for lateral grinding and relief grinding
- a grinding system for peripheral grinding
- stationary saw blade drive with clamping flanges

The blade is clamped on the blade drive by means of flanges and springs. During set-up operations, all positions of relief, lateral and peripheral grinding are input as parameter set. Touching and feeding of the grinding wheels is done manually or automatically.

All data necessary for the grinding of a blade are stored as parameter sets (100 available). Via sequences it is possible to freely define the consecutive sequence for the grinding of the blade.

## TECHNICAL DATA

Total connected load:	20 kVA
Supply voltage:	3 x 400 V, 50/60 cps Layout for other voltages upon request.
Power absorbed:	3 x 29 A
Fuses (to be provided by the customer)	3 x 35 A
Cooling water:	
- tank capacity:	
basin of cooling water pump:	20 l
belt filter(option):	250 l
- pump capacity:	approx. 100 l/min.
- cooling agent:	water with antirust agent
Compressed air:	
- consumption:	approx. 25 l/min. or 1500 l/h
- pressure:	6 bar
Blades:	
- diameter range:	200 - 1600 mm
- drive:	5 – 350 min <sup>-1</sup> , infinitely variable
- working piece clamping:	spring force
- release:	pneumatic
Tension flanges:	Ø 114 mm, Ø 200 mm, Ø 450 mm are included in delivery
Holding mandrel/Adapter ring:	Included in delivery: 1. Ø 25.4 / Ø 30; 35; 50; 60; 100 mm 2. Ø 16 / Ø 20; 22.225 mm or Ø 15.87 / Ø 20; 22.225 mm

Grinding wheels:

- lateral grinding wheels:  $\varnothing$  300 mm, thickness 20 mm
- peripheral grinding wheels:  $\varnothing$  300 mm, thickness 50 mm

Dimensions:

- machine: length: approx. 3.450 mm  
depth: approx. 1.520 mm  
height: approx. 2.300 mm

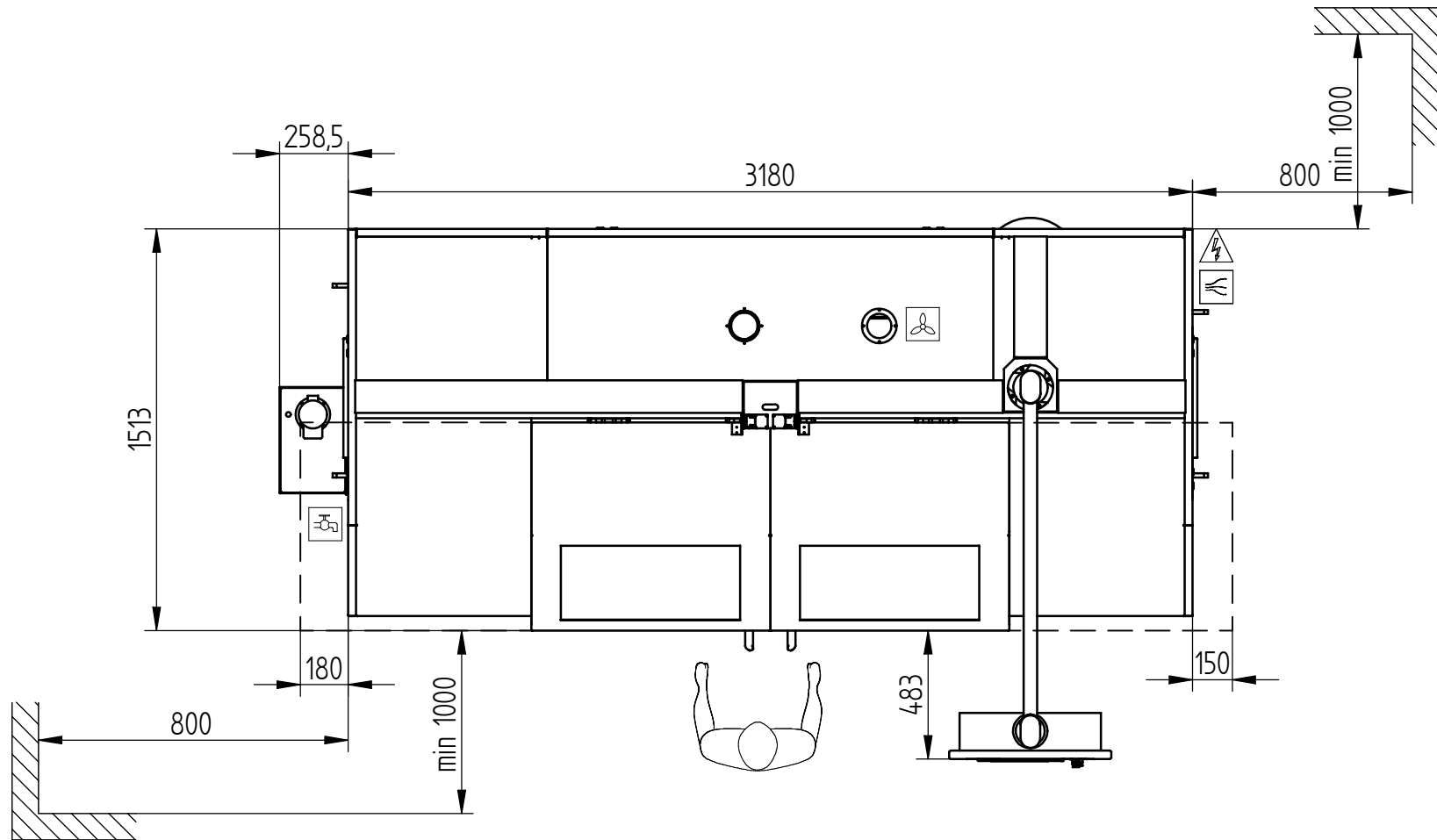
- belt-type filter (option): length: approx. 1.860 mm  
depth: approx. 780 mm  
height: approx. 700 mm

Total weight: approx. 3.300 kg

- Technical data and design subject to modifications –

**The price of the machine includes the following accessories**

- arbor 25,4 and adapter ring 25,4, 30 ,35, 50, 60, 100 mm
- fixing flanges for  $\varnothing$  114,  $\varnothing$  200,  $\varnothing$  450



max. Maschinenhöhe: 2300 mm  
 (max. machine height)  
 erforderliche Raumhöhe: 2500 mm  
 (clear height required)

Symbol	Bedeutung (meaning)	Symbol	Bedeutung (meaning)	26 cm   —	DFT006557.dft ASM002963.asm	<b>Aufstellplan</b> floor plan	
	Elektrik (electrics)		Gas (gas)		Bearb. 14.07.2006		Name m_feil
	Pneumatik (pneumatics)		Wand (wall)	Gepr.			Maschinen Typ : TAM 216 machine type :
	Kuehlwasser (cooling water)		Arbeiter (operator)		Norm		Zeichnungs Nr.: 6R
	Absaugung (suction)				DR. FRITSCH Sondermaschinen GmbH D-70722 Fellbach		