

DR. FRITSCH

SONDERMASCHINEN

Volumetric Cold Press

KPV 218



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Technical Specification

KPV 218

Fully-automatic press for the production of one- / multi -layer diamond segments with / without diamond-free backing

TECHNICAL FEATURES

- high production output (e.g. 15 one-layer segments with diamond-free backing per minute or 7 sandwich segments with / without diamond-free backing per minute)
- optimized production of segments with diamond-free backing due to powder feeding by means of a divided filling shoe making a radius movement
- constant segment weight due to self optimizing positioning adjustment of the lower punch
- quick change-over times
- intuitive handling via "Touchscreen-Panel"
- eject function for segments the tolerances of production

- production of wire saw pearls and segment rings possible - OPTIONAL
- magazining device SMV 218 for the cold pressed segments - OPTIONAL
- integrated production control and documentation (connection to in-house network possible) - OPTIONAL

FUNCTIONING

The granulated powder is filled into the 4 powder containers. Two transport units place the granulates over the die and fill it volumetrically.

Afterwards the pressing procedure takes place. Depending on the selected program, one- or multi-layer segments are pressed. Then the segment is discharged by the lower pressing cylinder and is pushed out of the machine.

At that point, it is possible to stack the segments in a magazine (option).

TECHNICAL DATA

Total electric power:	13 kVA
Supply voltage:	3 x 400V, 50/60 Hz Other voltages are possible upon request
Total connected load:	3 x 19 A
Fuse protection (provide by customer):	3 x 32 A
Cooling water:	
- pressure:	3 – 6 bar
- consumption:	approx. 20 l/min
- temperature:	15 – 25 °C
- connection:	1/2" or nominal width 12
Compressed air:	
- consumption:	approx. 40 l/min
- pressure:	4 – 8 bar
- connection:	1/8" or nominal width 9
Suction:	optional
Force of pressure:	
- minimum:	approx. 18 kN
- maximum:	approx. 180 kN
Powder supply:	
- number of containers:	4 pieces
- powder capacity/container	15 l
Volumetric weighing:	
- filling height accuracy:	+ 0,01 mm
- filling height max:	55 mm
- numbers of fills:	1 – 9
- segments types:	single, sandwich, segments with / without diamond-free backing
Control unit:	Industrial PC with touch display
Dimensions of machine (LxDxH):	approx. 2,550 mm x 1,200 mm x 2,430 mm
Weight:	approx. 2,200 kg

- Subject to modifications of technical data and design -

