

NETZSCH Premier Technologies, LLC.
Grinding & Dispersing



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Application:

Product: Various Carbide Materials (TBD)

Product density: Varies

Feed size: Varies

Bulk density of feed product: Varies

Desired final fineness: Varies

Bulk density of final product: Varies

Desired throughput capacity: Varies

Other remarks:

The following offer is based on the above mentioned specification and is subject to the carrying out of milling tests with the above mentioned original product in the NETZSCH test lab.

NETZSCH Vertical Agitator Mill PRK 32 S

Cyclical-type agitator mill for batchwise superfine grinding or dispersion of solid materials in fluids,

consisting of:

Machine Stand

as frame construction for placement of the grinding tank and drive station.

Grinding Tank

in double-walled design with cooling water connections, interior layout of the tank designed to avoid poor flow boundary zones.

Grinding Tank Lid

with feed/monitoring opening.

Agitator

with agitator pegs staggered at a specific angle, one above the other, agitator pegs inserted through the shaft and provided with tungsten-carbide sleeves in the wear zones. Rod formed of tungsten-carbide, at the lower end of the agitator shaft, to keep the grinding media in the sieve area in motion.

Drive

of the agitator via three-phase motor and reduction gear.

Product Outlet

via bottom sieve as grinding media/product separator, with shut-off valve and pipe filter.

Product Supply

via product pump and cooling pipeline for the grinding tank lid.

Control Cabinet

with controls and indicators for agitator and pump drive.

Switch Box

with control and power units.

By separate installation of the switch box, the power supply and connection lines to the individual users are not included in the scope of delivery.

It is stipulated that mains fluctuations not exceed the range + 6 / - 10 % (in compliance with IEC 38).

Technical Data:

Grinding chamber volume	about 250 l
Product volume	about 120 - 140 l
Grinding chamber:	Mobile with swivelling device, manually actuated
Grinding chamber design:	Stainless steel 1.4301
Inner tank:	With hemispherical bottom, wall thickness 14/12 mm, coolable, double-jacket design
Agitator shaft:	Stainless steel 1.4301
Pegs designed for:	Grinding media diameter 6 – 8 mm Grinding media diameter 8 - 10 mm
Peg arrangement:	Symmetrical for reversal of rotational direction
Agitator pegs:	With tungsten-carbide sleeves and paddles
Grinding tank lid:	Coolable, sealed-off design with pneumatically actuated lifting and lowering device
Separating system:	Tungsten-carbide sieve, gap width 3 mm
Product outlet:	Shut-off valve, manually actuated

	shut-off valve, pneumatically actuated (pressure 5 – 6 bar)
Outlet pipe:	With protective sieve, mesh width 1 mm
Material of sealings:	EPDM/ NB 70
Agitator drive: Main drive motor	Constant with gear motor, n = about 100 rpm 30 kW/ protection class –Safe Area, Unrated Infinitely adjustable by frequency inverter 30 kW/ protection class –Safe Area, Unrated
Starter type:	Frequency inverter
Product pump:	pneumatic diaphragm pump DL 25 with magnetic valves for two different pumping modes (circulation / pumping out)
Product circulation line:	double-wall design with cooling water connections; 3-way valve to pump out or to circulate the product
Product temperature control:	with thermometer 0 –60 °C in the circulation line
Protection class of the machine according to guideline 94/9/EC:	Safe Area-Unrated
Electrical equipment: Protection class of switch cabinet:	IP 43 (fan/variable frequency drive), switch cabinet for separate assembly, with operating hours meter and selector switch for clockwise or counter-clockwise rotation
Explosion protection of switch cabinet:	none
Protection class of control panel:	Unrated safe area on machine

Explosion protection of Control panel:	See protection class of the machine
Operating voltage: Control voltage	480 V/ 60 Hz/ 3 phases 115 V AC/ 24 V DC
Finish:	Textured finish, solvent resistant grey, NCS S 3005-R80B green, NCS S 3555-B60G NETZSCH standard

NOTE:

The offer is based on our standard with regard to design, equipment and documentation. Customer-related factory specifications have not been considered. If modifications to our standard are required, please advise immediately because additional costs resulting from this maybe be required