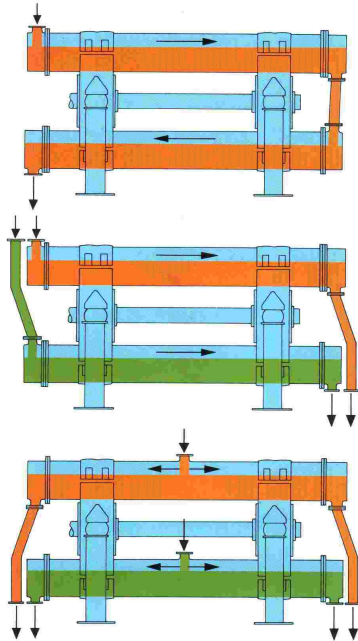


VIBRATING MILLS PALLA

Dry grinding (< 3% de H₂O) or wet grinding (up to 50% of solids)
 Special executions : for homogenizing, densifying, under inert gas, psr, ATEX, ...



Palla 50 U



Operating principle:

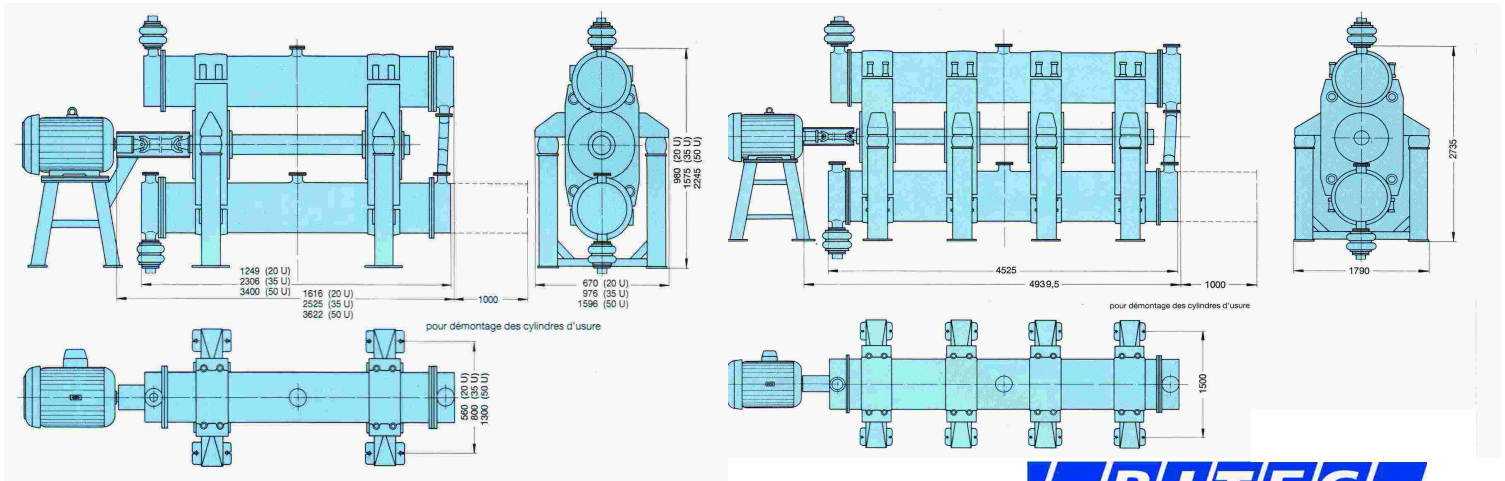
The material passes the cylinder along a helical path with transportation being primarily a result of displacement. Due to the effect of vibration, the material is directed to the outlet. The grinding cylinders which perform almost circular movements by the effect of unbalanced weights, are filled with grinding media to 65 vol. %.

In general, reduction by impact forces is predominant in the Palla mill. Possible grinding cylinder connections as shown hereunder

Advantages :

- reduced space requirements
- low energy consumption
- reduced installation costs; direct installation on factory soil possible
- especially interesting in case of explosive products, because filling grade grinding medias + product is about 95 vol. %
- easy adjustment of the amplitude (up to 12 mm)
- wear minimised, impact grinding
- possibility of iron-free grinding by using ceramic grinding media and inner liner
- reduced and easy maintenance, bearings are fastened in the webs in such a manner that the complete unbalanced-type drive can be easily removed.
- grinding media only need to be refilled
- excellent homogenizing of the product
- no air production, consequently no need of a filter (cost reduction)
- direct cardan drive

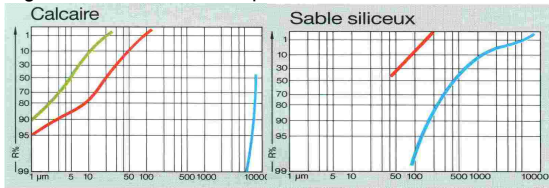
Type	VMS/VMK	Palla 20U	Palla 35U	Palla 50U	Palla 65U
Power	2,2kW	5,5kW	22 kW	90 kW	160 kW
Grinding media in kg	38/77	260	1500	5000	11000
Rods or cylpebs					
Extrapolation factor	1,00	3,40	17,90	57,00	112,00
		1,00	5,30	16,90	32,00
			1,00	3,20	6,20
				1,00	1,95



VIBRATING MILL PALLA

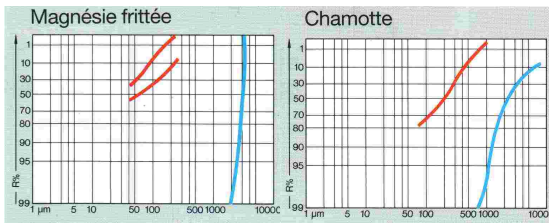
Non-metallic minerals

anhydrite, burnt lime, diabase, dolomite, gypsum, greenstone, limestone, quartz sand, zirconium sand...



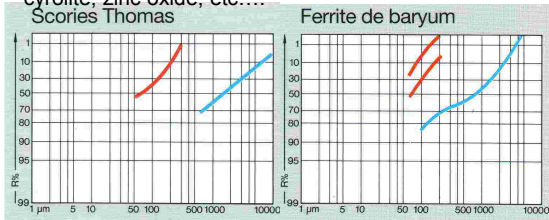
Ceramics, refractories :

Bauxite, feldspar, fritte, kaolin, ceramic compounds, sillimanite, fireclay, sintered dolomite, sintered magnesite, wall tiling compound, ...



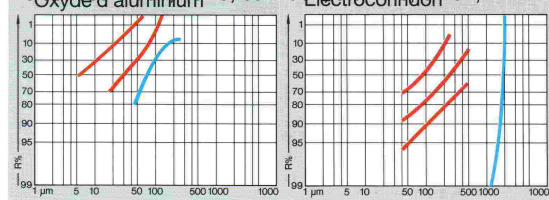
Ore dressing, metallurgy, glass

barium ferrite, black wad, chromium ore, iron oxide, fluor spar, Co-Ni speiss, slags, cobalt sulphate, cyrolite, zinc oxide, etc....
Scories Thomas



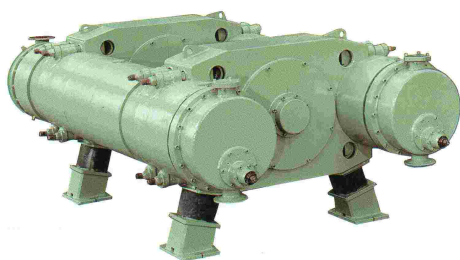
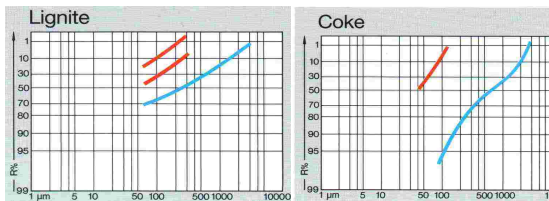
Abrasives:

aluminium oxide, artificial corundum, glass, corundum, alumina, emery, silicon carbide, etc....
électrocorindon, verre, corindon, alumine, émeri,



Chemical industry, coal, coke:

electrode paste, pigments, ion exchange compound, calcium carbide, coke dross, plastics moulding compound, calcium cyanide, petroleum coke, herbicides, pit coal etc...



Our test center is at your disposal for trials with your specific products



Particle sizes and throughputs:

Feed size : from 1 to 25mm
Final fineness: 100µ to 2mm by direct grinding
- and 30µ - 100µ - in closed circle with sieving machine or air classifier
Throughputs: from 100kg/h up to à 25t/h (depends on the product to be grinded)

EXEMPLES DE MATIERES TRAITES SUR PALLA 50U :

in dry process :

- limestone : d50=20µ, 10t/h
- clay : d50=40µ, 6,5t/h
- basalt : d75=90µ, 2t/h
- bauxite : d50=20µ, 5,7t/h
- limestone, friable : d85=160µ, 10,5t/h
- calcium carbonate: d97=10µ, 1,4t/h
- calcium carbide: d50=50µ, 4t/h
- ashes : D95=63µ, 5t/h
- fireclay : d50=200µ, 5,1t/h
- dead lime : d50=40µ, 3t/h
- chromium metal: d50=90µ, 32kg/h
- petrol coke : d50=40µ, 2,5t/h
- corundum : d50= 63µ, 700kg/h
- sintered dolomite : d50=90µ, 3t/h
- ferrite : d50=63µ, 5t/h
- filler for construction material : d50=63µ, 5t/h
- filler for bitumen: d50=20µ, 7t/h
- gold ore : d50=63µ, 2,8t/h
- lignite : d50=63µ, 5t/h
- magnesium oxide : d50=40µ, 1,1t/h
- sintered magnesium oxide : d50=63µ, à 3,6t/h
- aluminium oxide: d50=32µ, 4,7t/h
- burnt gypsum : d75=32µ, 4t/h
- sand : d75=75µ, 5,8t/h
- silicium (metal) : d85=250µ, 5t/h
- glass : d80=125µ, 2t/h
- zirconium sand : d50=40µ, 250kg/h etc...

wet processing

- alumina : d50=3,5µ, 5t/h
- ferrite : d50=6µ, 9t/h etc.

Special features :

- Homogenizing
- Densifying: 5
- Reactor
- Cryogenic grinding, grinding under inertisation



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