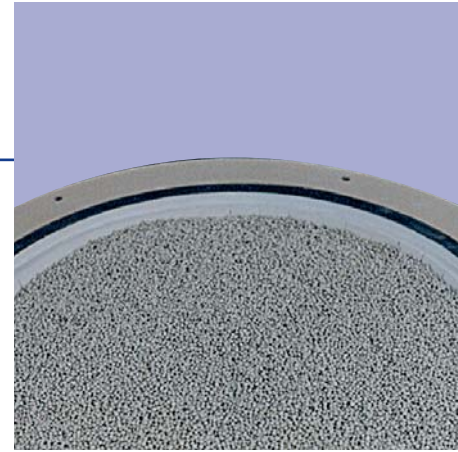


DRY ULTRAFINE GRINDING WITH AGITATED BALL MILL ATR



HOSOKAWA ALPINE



The Alpine ATR agitated ball mills are ideal for the dry production of superfine mineral powders finer than 10 µm. Fineness values of up to 95% < 2 µm with a high specific surface can be achieved. The ATR technology ensures optimum energy utilisation coupled with maximum system reliability. The combination of these process qualities guarantees an extremely cost-effective operation.

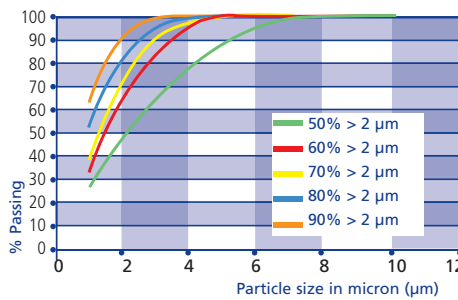
EXAMPLE OF PROCESS

Product:	soft CaCO ₃
Feed:	< 200 µm
Agitated ball mill	900 ATR
Classifier	315/6 ATP
Power installed	600 kW
Power consumption	420 kW
Capacity	700 kg/h 90% < 2 µm
	3500 kg/h 50% < 2 µm

APPLICATION

Typical applications for ATR mills are mineral fillers, glazing raw materials and non-mineral hard materials.

Examples: Limestone, aluminium hydrate, quartz, zircon sand, talc, ceramic colours and frits, titanium dioxide, etc.

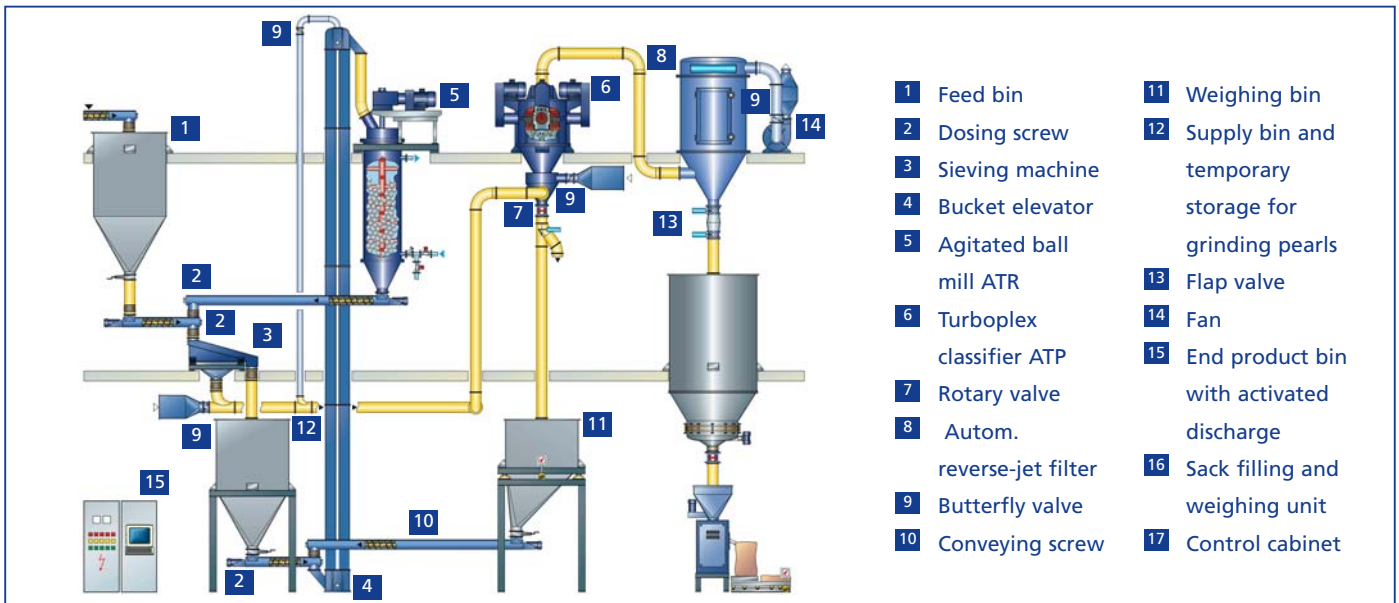


LININGS

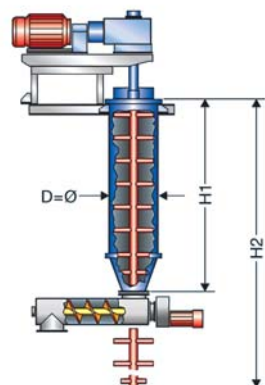
Depending on the processed product we either use aluminium oxide or other wearproof materials for the linings. Grinding pearls of between 2 mm and 5 mm in diameter guarantee maximum energy intensity and an effective surface enlargement in the end product.

COATING

In addition it is also possible to coat the product during grinding. Coating is not just an added bonus, but the coating agent used in this case replaces the normally required grinding aid.



- 1 Feed bin
- 2 Dosing screw
- 3 Sieving machine
- 4 Bucket elevator
- 5 Agitated ball mill ATR
- 6 Turboplex classifier ATP
- 7 Rotary valve
- 8 Autom. reverse-jet filter
- 9 Butterfly valve
- 10 Conveying screw
- 11 Weighing bin
- 12 Supply bin and temporary storage for grinding pearls
- 13 Flap valve
- 14 Fan
- 15 End product bin with activated discharge
- 16 Sack filling and weighing unit
- 17 Control cabinet



Product range / technical specifications

Type	Drive kW	D = Ø mm	H 1 approx.	H 2 mm
315 ATR	18.5-37	315	1810	3800
400 ATR	45-55	400	1500	3300
500 ATR	55-90	500	2460	5100
630 ATR	110-160	630	2920	6500
710 ATR	160-250	710	3350	6800
800 ATR	250-355	800	4050	8300
900 ATR	315-450	900	4460	9200

D = Nominal mill diameter H 1 = Mill height H 2 = Set-up height

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