

# DRY ULTRAFINE GRINDING WITH AGITATED BALL MILL ATR



**HOSOKAWA ALPINE**

PROCESS TECHNOLOGIES FOR TOMORROW<sup>SM</sup>



The Alpine ATR agitated ball mills are ideally suited for the dry production of superfine mineral powders < 10 µm. Products with fineness values of up to 95% < 2 µm and a high specific surface can be achieved. The ATR technology ensures optimum energy efficiency combined with maximum system reliability. These process qualities guarantee an extremely cost-effective operation.

## APPLICATION

Typical applications for ATR mills are mineral fillers, glazing raw materials and hard materials. Examples: limestone, aluminium hydrate, quartz, zircon sand, talc, ceramic colours and frits, titanium dioxide, etc.

## EXAMPLE

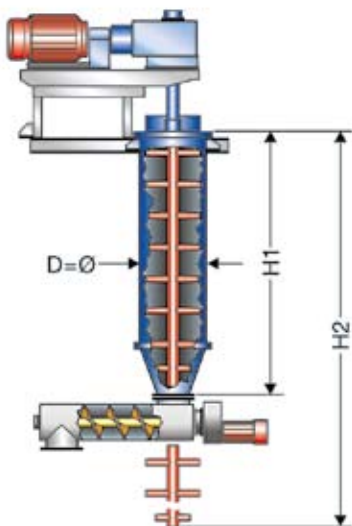
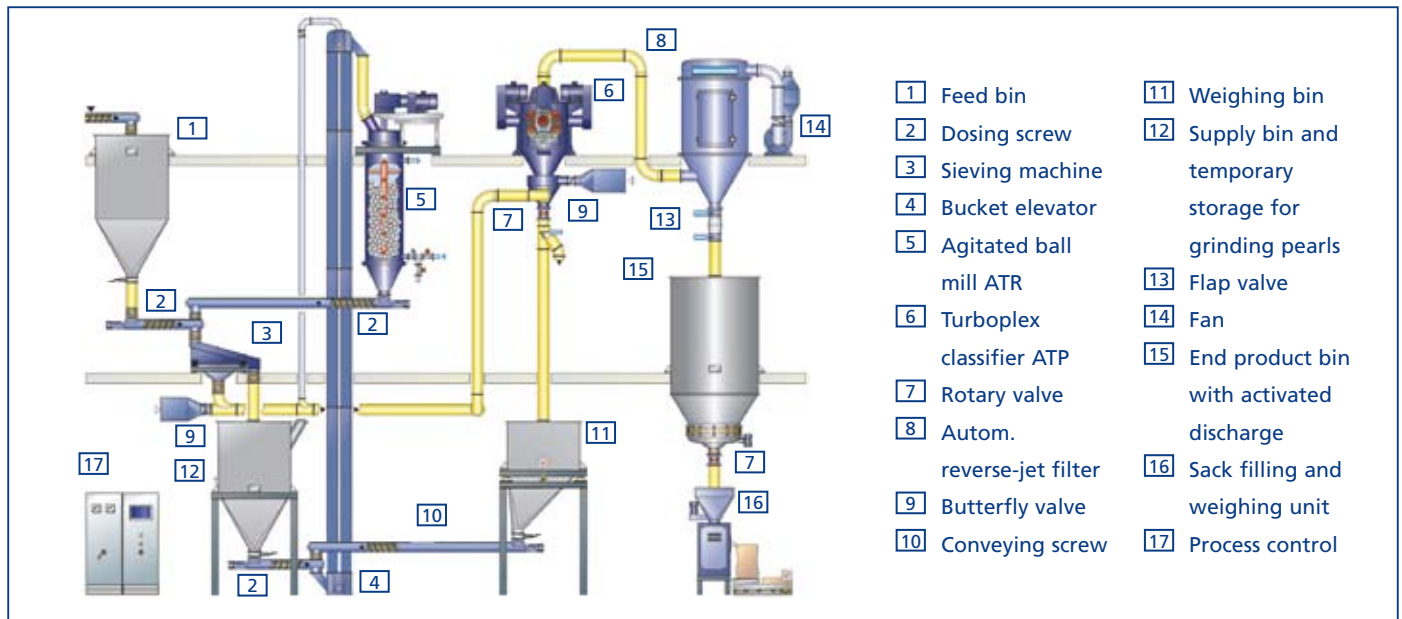
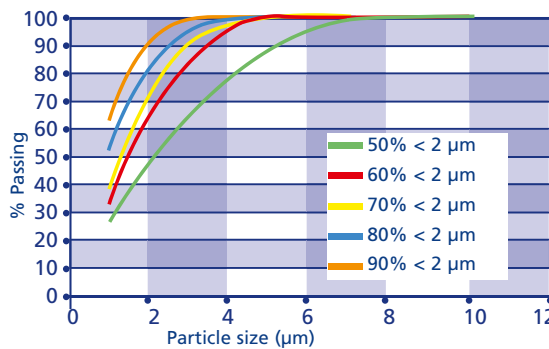
Product: soft CaCO<sub>3</sub>  
 Feed: < 200 µm  
 Agitated ball mill: 900 ATR  
 Classifier: 315/6 ATP  
 Drive: 600 kW  
 Power consumption: 420 kW  
 Throughput: 700 kg/h 90 % < 2 µm  
 3500 kg/h 50 % < 2 µm

## LININGS

Depending on the processed product are either used aluminium oxide or other wearproof materials. Grinding beads of between 2 mm and 5 mm in diameter guarantee maximum energy intensity and an effective surface enlargement in the end product.

## COATING

The product can be coated during grinding, which substitutes the normally required grinding aid.



## Product range

Type	Drive kW	D = Ø mm	H 1 approx. mm	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

HOSOKAWA ALPINE Aktiengesellschaft  
 Minerals & Metals Division  
 P. O. Box 10 11 51  
 86001 Augsburg, Germany

Phone + 49 821 5906-0  
 Fax + 49 821 5906-610  
 E-mail: mineral@alpine.hosokawa.com  
 www.alpinehosokawa.com

Delivery address  
 Peter-Doerfler-Str. 13-25  
 86199 Augsburg, Germany

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