



FEED AND BIOFUEL
**HIGH PERFORMANCE
GRINDING**

HAMMER MILLS

ANDRITZ

ENGINEERED SUCCESS



We are crushing it – no matter what it may be

At ANDRITZ we have been engaged in the feed and biofuel industries for a very long time and when you consider the collective knowledge of our engineers and technicians, it is easy to see that we are totally invested in the future of our technology. As a result, we have been able to implement hammer mill solutions that achieve the perfect grind for virtually any materials, coarse or fine, for the raw materials used in the production of biofuel and animal, aqua, and pet food.

A COMPLETE SOLUTION

The correct combination of hammer mill type, screens, hammers, speed, feeding system, and air flow through the hammer mill ensures the required grinding results and creates optimum conditions for subsequent processes, such as mixing, pelleting, and extrusion. Thus, the grinding process is not merely a question of the hammer mill alone, but also includes everything from feed system to discharge hopper, aspiration filter, and electronic control system.



HAMMER MILL

High-performance grinding
for many applications

Hammer mills for every purpose

ANDRITZ supplies a wide range of hammer mills for different purposes from biofuel over animal feed to extrusion applications. All hammer mills are globally available in terms of both rotational speed and certification and are continuously updated and improved.

OPTIMILL

Optimill hammer mills, designed for grinding coarse structures such as those required for pig, poultry, and ruminant feed, are large circle grinders equipped with four pole motors. They are available in a variety of sizes from 500mm to the 1200mm dual chamber model. Optimills can be combined with feeding and separation devices, collection bins, filters, fans, and platforms.

MULTIMILL

Multimills are small circle grinders, equipped with two pole motors for high speed fine grinding applications such as the extrusion of pet food and aqua feed. They come in a variety of sizes from 630mm to 1400mm long and can be installed in a unique double grinding stack.

US 43"

This rugged 43" hammer mill is a global product, designed primarily for tough applications like grinding

wood chips and fiber for biofuel pelleting. The larger screen area and inlet are ideal for the grinding of low density products.

US 38"

The 38" hammer mill is based on the same design principle as the 43" model but tailor made for animal feed applications and grain grinding.

US 22"

The 22" hammer mills is based on same design principle as the previous two but optimized for fine grinding and industrial applications like distillers grain. This model is equipped with two pole motors for high speed rotors.

All US hammer mills are supplied with a unique mechanical power-less door interlock system, ideal for dust explosion zones, have heavy duty 1" hammer pins, and are fitted with hard faced hammers.

TECHNICAL DATA

Hammer mill	Motor power		Rotor rpm	Screen area		Filter air flow	
	kW	HP		dm ²	sq.in.	m ³ /h	CFM
Optimill 500	110-200	-	1500/1800	143	2216	3600	2119
Optimill 700	160-315	-	1500/1800	200	3100	5000	2943
Optimill 900	250-355	-	1500/1800	257	3984	6400	3767
Optimill 1201	355-400	-	1500/1800	346	5363	8800	5180
Multimill 630	75-110	-	3000/3600	83	1287	4000	2354
Multimill 800	90-200	-	3000/3600	106	1643	5000	2943
Multimill 1000 B	132-315	-	3000/3600	146	2263	6300	3708
Multimill 1400 D	250-355	-	3000/3600	186	2883	9000	5297
2212	-	25-75*	3000/3600	48	740	1886	1110
2218	-	50-100*	3000/3600	69	1070	2727	1605



GRINDING

Optimill



Multimill



US 22"



US 38"



US 43"

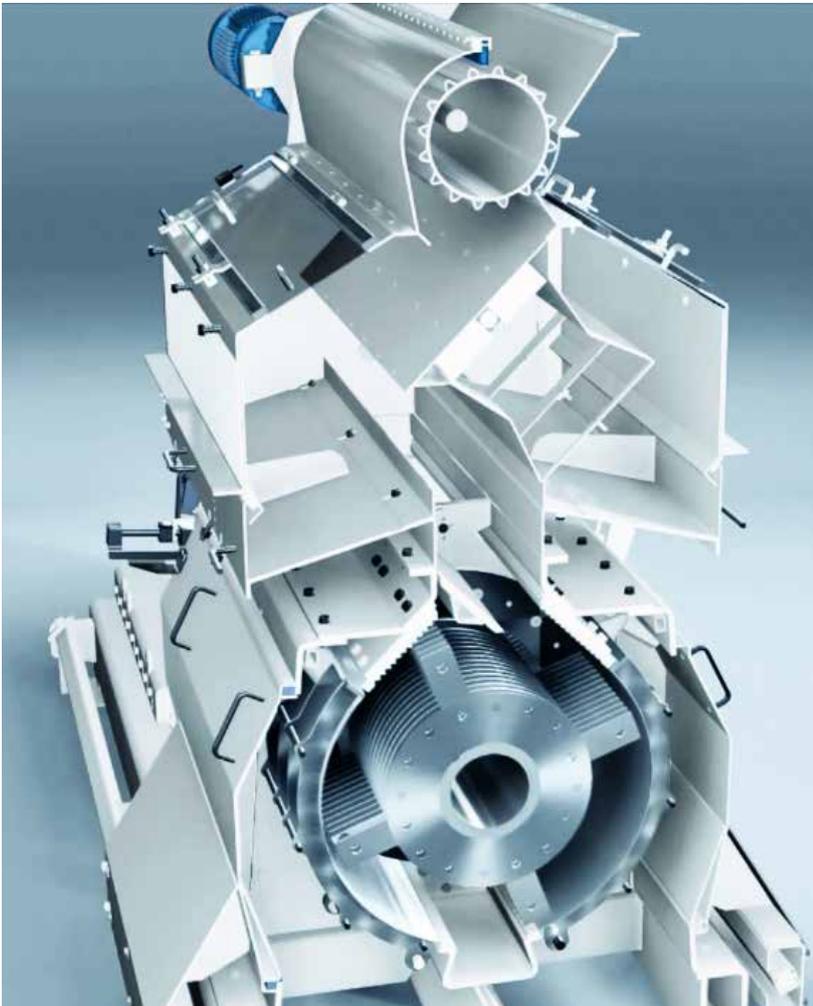


Hammer mill Type	Motor power		Rotor rpm 50/60 Hz	Screen area		Filter air flow	
	kW	HP		dm ²	sq.in.	m ³ /h	CFM
2224	-	50-150*	3000/3600	94	1454	3706	2181
3812	-	75-125*	1500/1800	87	1350	2982	1755
3818	-	100-150*	1500/1800	125	1950	4300	2535
3824	-	125-200*	1500/1800	165	2550	5632	3315
3830	-	150-300*	1500/1800	203	3150	6957	4095
3836	-	200-400*	1500/1800	242	3750	8283	4875
3848	-	300-500*	1500/1800	329	5100	11264	6630
3860	-	400-600*	1500/1800	406	6300	13915	8190
4312	-	125-150*	1500/1800**	100	1550	3424	2015
4318	-	150-200*	1500/1800**	144	2240	4948	2912
4324	-	200-300*	1500/1800**	190	2950	6516	3835
4330	-	250-400*	1500/1800**	235	3640	8040	4732
4336	-	300-500*	1500/1800**	285	4425	9774	5753
4348	-	400-600*	1500/1800**	381	5900	13031	7670
4360	-	500-600*	1500/1800**	470	7280	16079	9494

* Variances are possible. Please give us the opportunity to discuss your application and design the best mill to suit your needs.

** Hammer mill can be operated up to 2100 rpm if using a variable frequency drive and inverter duty motor.

Grinding technique for high controllability



FEEDING SYSTEM FOR UNIFORM LOAD

By feeding the material over the full length of the grinding chamber, the particle size can be controlled accurately and the hammers and screens have uniform loading, resulting in longer lifetime of wear parts and higher output per kilowatt.

The feed system, which is available as double screw and separator or as pocket feeder with integrated separator and distribution roll, can be adjusted to suit all raw material types.

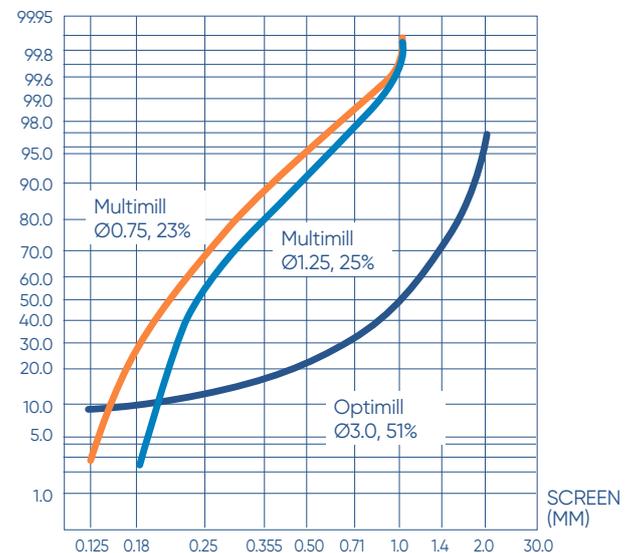
HAMMER MILL CONTROL

The entire grinding process is controlled by an AFB-HM1 or HMCPS control unit in a cabinet with front operating panel, providing a full view of all operational functions. The efficient feeding system control optimizes product change and mill capacity utilization.

DESIGN AND FUNCTION

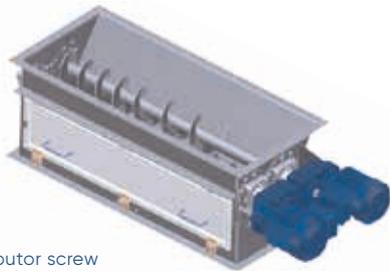
The hammer mills are fed radially for dual-rotational operation to achieve uniform wear and full utilization of screens and hammers. Models with tangential inlets are available for low-density products. The hammer mills have a directly coupled motor mounted on a base frame. The front doors are bottom-hinged and open on sliding rails. All operating points have electronic safety equipment. The hammer mills are supplied with a separator and a magnet above the inlet to protect the grinding chamber against damage and spark risks from foreign objects in the material flow.

% PASSING THROUGH



Grinding units for stand alone applications

FEEDING DEVICES



Distributor screw



Pocket feeder



Separator



Screw feeder

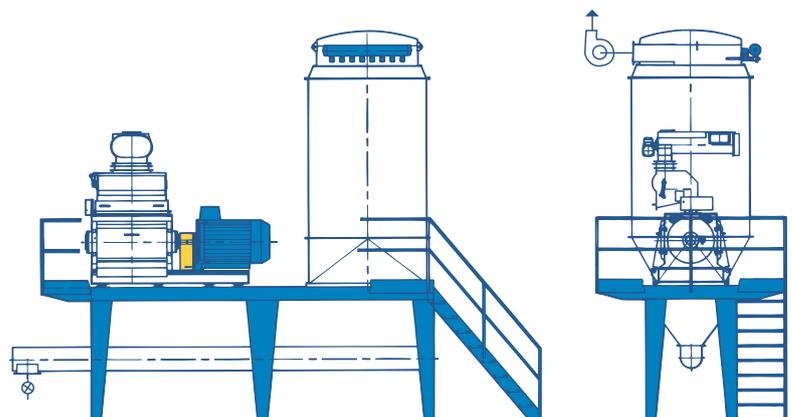
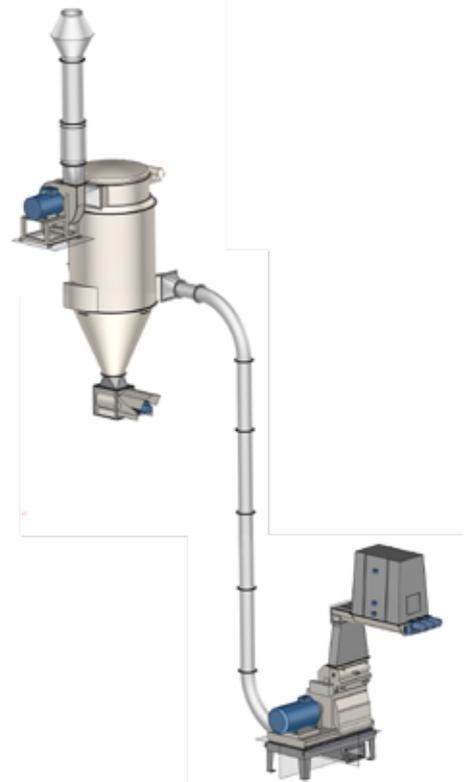


Air separator

The Optimill and Multimills are available as complete unit integrated with all necessary machines to provide a complete solution.

ANDRITZ GRINDING UNITS

- Feeder
- Distributer screw
- Separator
- Hammer mill
- Collection bin
- Air lock
- Aspiration filter
- Fan
- Operating platform
- Pre bin





GLOBAL SUPPLIER – LOCAL PRESENCE

With sales, service, engineering, manufacturing and production sites located all around the world, ANDRITZ Feed and Biofuel is truly a global organization with a local presence. ANDRITZ is vital to ensuring a reliable global supply of aqua feed, animal feed, pet food, and biofuel. With full process lines accounting for half the world's production of aqua feed and biomass alone, we continuously support leading producers in achieving the highest levels in safety, quality, and control from feedstock to final product.

How can we help grow your business?

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