LINDNER

THE NEW LINDNER MICROMAT SERIES IV.

ENERGY EFFICENT VERSATILITY.

ENERGY EFFICIENCY MEETS

FLEXIBLE VERSATILITY.

With the Micromat Series IV, Lindner presents the next generation of the Micromat. The classic in plastic shredding receives a targeted upgrade and sets new standards in terms of efficiency, flexibility, and ease of maintenance. Lindner builds on the proven strengths of Series III – a successful and established concept that has stood the test of time in the market. With the Micromat IV, the recycling pioneer introduces a forward-looking solution with new features that are perfectly tailored to the needs of the modern plastics industry – true to the motto:
“READY FOR THE FUTURE OF YOUR BUSINESS!”

At the heart of the new Micromat series is an energy-efficient drive concept of the latest generation with an efficiency rating of 97%. Also new is the adaptable rotor concept, which allows for a quick change between pointed and step knives, ensuring maximum flexibility for different materials. An easy cutting gap adjustment, a new coupling design, effective counter-knife cooling, intuitive menu navigation, and patented automatic belt tensioning complete the new shredder series.

KEY FEATURES

The new Micromat Series IV in combines proven Lindner technology with a multitude of new features:

- High-efficiency IE6 SynRM motor
- ATB / patented belt drive with belt clutch
- Externally adjustable counter knive
- Multicut rotor
- Rotor and counter knive cooling system
- Control panel

Meet the new Micromat Series IV.

MOST COMMON MICROMAT SERIES IV MATERIALS:

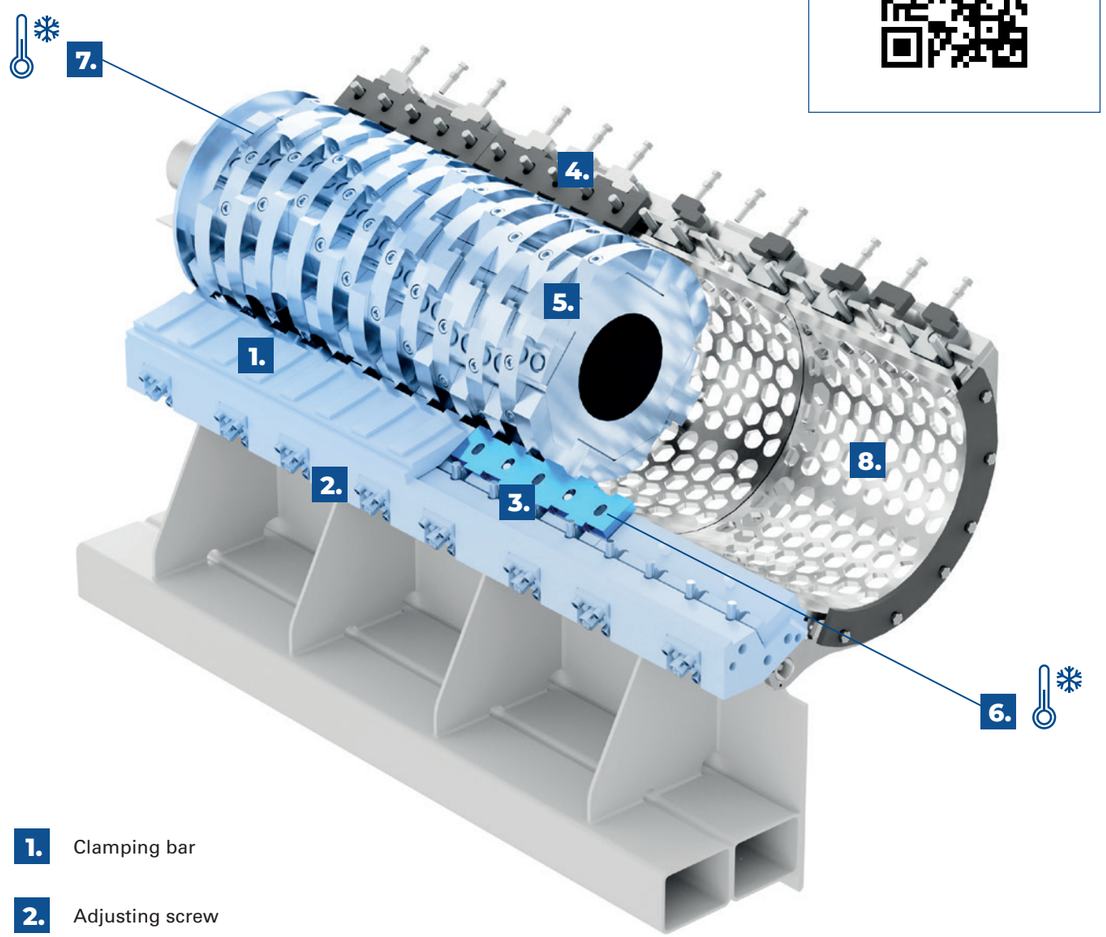
MICROMAT	MICROMAT HP HIGH PERFORMANCE	MICROMAT HD HEAVY DUTY	MICROMAT XP XTREAM
Plastic film	Plastic film	Big bags	Lumps
Rigid	Rigid	Textiles	Plastic plates
Bottles	Bottles	Fibres	Plastic pallets
Paper	Paper	Cables	Big hollow parts
Waste wood & pallets	Documents	Industrial & commercial waste	Film rolls
Window Frames	Data medium		


1.

2.

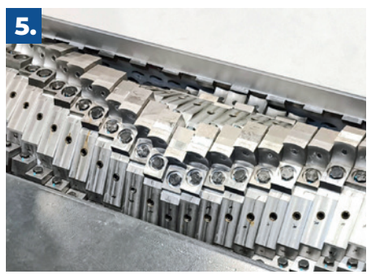
1. Powerful gearbox
2. ATB / Belt drive safety clutch
3. Hight-efficiency IE6 SynRM motor
4. Internal pusher
5. Plug & go screen unit
6. Multicut rotor

Watch the video now!



1. Clamping bar
2. Adjusting screw
3. Counter knife
4. Scraper
5. Steel rotor
6. Counter knife cooling
7. Rotor cooling
8. Screen module


2.


5.

97% ENERGY EFFICIENCY.

THE NEW HIGH-EFFICIENCY IE6 SYNRM MOTOR.

Boosts efficiency by reducing energy losses and operating costs.

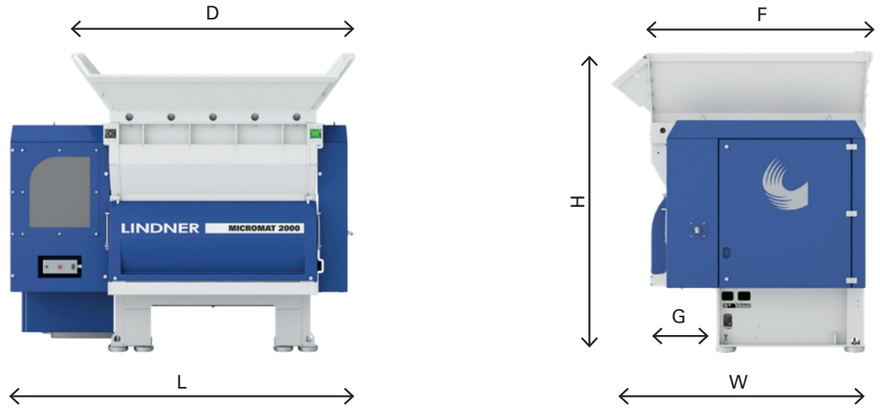
The synchronous reluctance motor provides several key advantages that make it an attractive choice for many industrial and commercial applications. It operates more efficiently than both asynchronous and torque motors, resulting in better overall performance and energy utilization. Compared to similar asynchronous motors, it exhibits significantly lower energy losses, which not only improves efficiency but also reduces operating costs.

Durable and sustainable: SynRM design extends service life without rare earths.

Additionally, the motor's design leads to lower winding and bearing temperatures, contributing to an extended service life and increased reliability. Another notable benefit is its environmentally friendly production, as no rare earth elements or permanent magnets are required, making it a sustainable and cost-effective alternative to other motor types.

KEY BENEFITS IE6 SYNRM MOTOR

- High efficiency across a wide speed range, especially also in energy-efficient partial-load operation.
- SynRM motors require no rare earths from the far east and produce significantly less CO_2 during manufacturing and transport than permanent magnet motors.
- SynRM motor and frequency inverter enable efficient, demand-based speed control.
- Lower temperatures extend lifespan and maintenance intervals.
- No high short-term currents occur when the speed decreases from normal speed.



MICROMAT		1500	2000	2500	1500 HP	2000 HP	1500 HD	2000 HD	2500 HD	1500 XT	2000 XT
DIMENSIONS*											
Measure (LxWxH)	mm	3880 x 2480 x 3380	4380 x 2480 x 3380	4880 x 2480 x 3380	3880 x 2635 x 3380	4380 x 2635 x 3380	3880 x 2480 x 3380	4380 x 2480 x 3380	5180 x 2480 x 3380	3880 x 2480 x 3380	4380 x 2480 x 3380
Hopper opening (DxF)	mm	2290 x 2405	2790 x 2405	3290 x 2405	2290 x 2405	2790 x 2405	2290 x 2405	2790 x 2405	3290 x 2405	2290 x 2405	2790 x 2405
Filling height (G)	mm	2594	2594	2594	2594	2594	2594	2594	2594	2594	2594
Hopper volume	m^3	3.4	4.5	5.6	3.4	4.5	3.4	4.5	5.6	3.4	4.5
Outlet width (l)	mm	1725	2225	2725	1725	2225	1725	2225	2725	1725	2225
Total weight	kg	11700	13700	15700	11700	13700	11700	13700	15700	11700	13700
CUTTING UNIT*											
Rotor length	mm	1525	2025	2525	1525	2025	1525	2025	2525	1525	2025
Rotor speed**	min^{-1}	104	104	104	179	179	78	83	78	62	62
Knives: 43P / 65P	pcs.	77 / 50	104 / 68	131 / 86	77 / 50	104 / 68	77	104	131		
Knives: 40S / 60S	pcs.									77	104
Knives: 55S	pcs.	104	138	172	104	138				53	70
Number of screens	pcs.	3	4	5	3	4	3	4	5	3	4
DRIVE UNIT*											
Motor	kW	1 x 90	1 x 132	1 x 160	1 x 110	1 x 160	1 x 132	1 x 160	1 x 250	1 x 90	1 x 110

* Depending on the machine configuration.

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