

OUR SEPARATORS - DEVELOPED FOR YOUR SUCCESS.

Worm extruders are used to separate fibrous materials such as slurry, gas residues and other organic waste into their liquid and solid components. When designing our low-maintenance and low-wear worm extruders, we at BRAND Rühr- und Pumptechnik place great importance on outstanding separation results.

BRAND worm extruders therefore do not just achieve large discharge rates but also supply solids with high dry substance contents. The final result depends on the screen mesh size. Wide screen sizes give a high discharge rate but also lead to low dry substance contents in the solid. Smaller screen meshes, on the other hand, generate lower throughputs but a higher degree of separation and therefore a more precise solid/liquid separation. The moisture of the discharged solids can be reduced further by higher pressure on the weights.



Planning • Consultation • Sales • Service

BRAND
Rühr- und Pumptechnik

Separators

BRAND worm extruders



BRAND Rühr- und Pumptechnik GmbH
Wellingholzhausener Str. 6, 49324 Melle
Tel.: +49 (0) 5422/608-600
Fax: +49 (0) 5422/608-611
E-mail: info@brand-melle.de
Internet: www.brand-melle.de

A company of
the HUNING Group



HEALTHY BEDDING MATERIAL FOR MORE COW COMFORT.

Dairy farmers know the importance of species-appropriate and cow-friendly husbandry. The comfort requirements of a dairy cow determine up to 25 % of its performance capacity. This puts cow comfort in 1st place by far, even ahead of feeding. One of the most important comfort factors is the bedding material. This must be elastic and adapt to the cow's body. This is because it is supposed to absorb the shock of the impact when lying down and support the forward momentum when standing up.

The solids extracted during separation are excellently suited as bedding material for cubicles. This not only saves you from buying expensive bedding material, but also provides your cows with an ecologically sustainable lying surface. Especially since one cow produces substrate for two cows.

THE RIGHT SYSTEM FOR YOU.

Regardless of your separation requirements, you will find the right solution in our comprehensive product range. We either offer a mobile rental system or numerous purchase options such as stationary or mobile separators, standard or reinforced, heavy duty separators (HD).



SQUEEZE OUT GAINS. RIGHT DOWN TO THE LAST DROP.

In times of ever-increasing substrate costs, separated solids can represent an interesting alternative as an input material for biogas systems. Research shows that around 2.5 tonnes of solid can replace the energy of around 1 tonne of maize. The solid is also ideally suited as litter for cubicle housing systems and can therefore help to reduce litter costs.

In addition to the numerous application options for the solids, separation also offers other unbeatable benefits. On the one hand, it increases transport capability for the organic liquid fertiliser and on the other hand, you relieve your warehouses thanks to the reduced volume and simultaneous nutrient concentration.



Technical data	SP400	SP600	SP800	SP600HD	SP800 HD	SP1100HD
Gear motor	2.2 kW	5.5 kW	5.5 kW	5.5 kW	11 kW	11 kW
Worm	26.6 rpm	33 rpm	33 rpm	11.7 rpm	24.4 rpm	24.4 rpm
Screen	0.65 mm	0.65 mm	0.65 mm	1.0 mm	1.0 mm	1.0 mm
Screen basket	Ø 180 mm	Ø 258 mm	Ø 258 mm	Ø 258 mm	Ø 258 mm	Ø 258 mm
Screen basket length	1x 380 mm	1x 516 mm	1x 516 mm 1x 258 mm	1x 516 mm	1x 516 mm 1x 258 mm	2x 516 mm

Throughput rates SP400 to SP1100HD							
Separations medium	Solid matter in the slurry (% dry matter)	Screen basket: 0.65 mm			Screen basket: 1.00 mm		
		25 % - 30 % dry matter in solids			35 % - 40 % dry matter in solids		
		SP400	SP600	SP800	SP600HD	SP800HD	SP1100HD
Cattle slurry	3 - 5 % dry matter	4 - 10 m ² /h	12 - 18 m ² /h	15 - 24 m ² /h	9 - 15 m ² /h	12 - 22 m ² /h	16 - 30 m ² /h
	6 - 9 % dry matter	3 - 6 m ² /h	7 - 12 m ² /h	10 - 18 m ² /h	6 - 10 m ² /h	9 - 15 m ² /h	12 - 20 m ² /h
	10 - 12 % dry matter	1 - 4 m ² /h	5 - 10 m ² /h	7 - 12 m ² /h	4 - 7 m ² /h	6 - 10 m ² /h	8 - 13 m ² /h
Pig manure	3 - 6 % dry matter	6 - 12 m ² /h	18 - 40 m ² /h	22 - 46 m ² /h	10 - 18 m ² /h	16 - 30 m ² /h	21 - 40 m ² /h