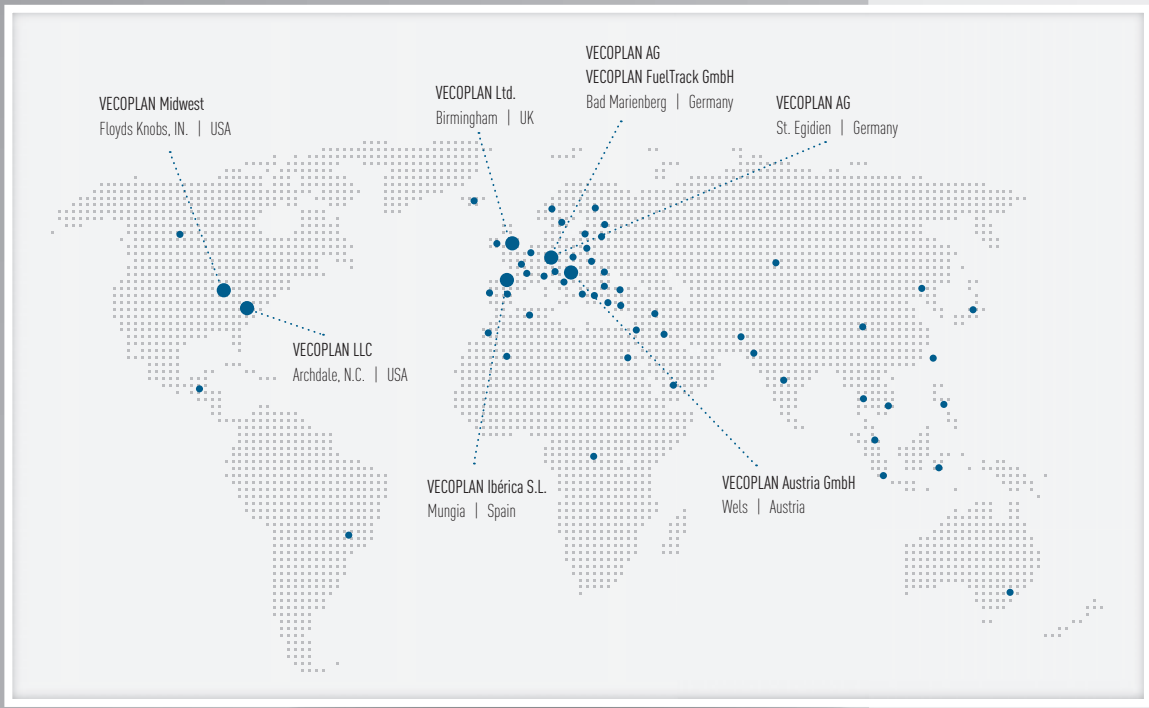


# PRODUCT CATALOGUE

Dated 2013





# VECOPLAN INTERNATIONAL

Made in Germany

Waste avoidance, conservation of resources and efficient use of recyclable materials are among the most urgent challenges and tasks of our time. The importance of environmental awareness and sustainability is increasing on a daily basis. Our company has been successfully tackling these challenges for more than 40 years, and today we are a leading partner in the international wood and recycling business, with numerous subsidiaries and sales offices worldwide.

VECOPLAN AG develops, manufactures and markets technologically sophisticated machines and plants for shredding, conveying and processing primary and secondary raw materials in production processes and recycling. Our customers benefit from cutting-edge technology, made possible by continuous research and development combined with in-house production. Our track record is impressive: a number of patents testify to our know-how. In order to meet the demand for ground-breaking technology and outstanding quality, we have focussed our operations on our core competences. Our Service Division complements this structure.

We take our customers through the entire process, from planning to production, delivery, installation, commissioning and on to maintenance of the complete plant. VECOPLAN AG delivers the highest sustainable quality standards, whether it be an individual machine or complete plant, according to our customers' specifications. Of course, we are certified to EN ISO 9001.

## Shredding



Example: Single-shaft shredder (VAZ)

## Conveying



Example: Pipe belt conveyor (VecoBelt)

## SHREDDING IS OUR CORE COMPETENCE

Our customers benefit from our experience in shredding technology, which has been accumulated over many years. It is a field we have specialised in ever since the company was founded in 1969. With six types of shredder which differ fundamentally in their structure and form of shredding, we have the appropriate and perfectly tailored shredding technology available for different kinds of material.

## CONVEYING TECHNOLOGY – TAILOR-MADE

We have all of the belt, chain, screw and trough conveyors to get your material moving. Our product range includes reliable products, optimised for bulk material and piece goods, which help you to convey various raw and waste materials to their proper destination.

## Screening



Example: Oscillation screen (VSS)

## GETTING THE MOST OUT OF EVERYTHING

We have the oscillation, disc and star screeners to achieve a level of sorting which would be difficult to achieve manually. A choice of star and disc screening machines is available for sorting out overlengths and large fractions, as are up to 3-deck circular oscillation screening machines, which are capable of separating material into up to 4 different fractions on screening areas measuring up to 9m<sup>2</sup>.

## Separating



Example: Overbelt magnetic separator (VÜB)

## FOCUSING ON THE ESSENTIAL

Our separating technology removes everything from your input material which could cause contamination or damage in your process chain. With their state-of-the-art magnet, sensor and air technology, our overbelt magnetic separators, metal detectors and air separators are indispensable parts of your process.

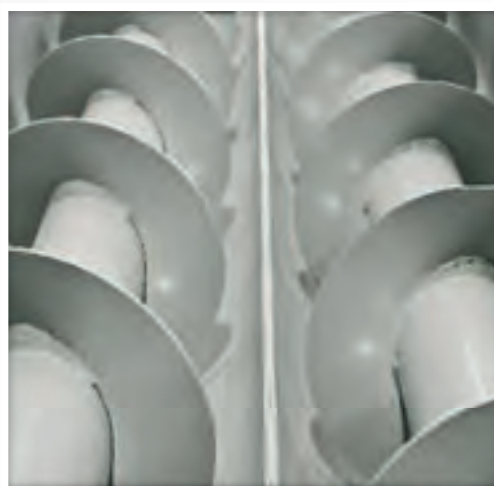


Storing



Example: Loading and unloading conveyor (BEF)

Dosing



Example: Double screw conveyor (DFS)

## STORAGE IS NOT AN ART – IT IS A SCIENCE

With our machines, it is possible to fill and discharge storage boxes with a capacity of up to 1,300 m<sup>3</sup> per box. We also supply uniquely efficient technology for continuous 24-hour discharging which can be used for heating installations, loading and unloading vehicles from storage boxes, and also for discharging from bunkers. We have loading and unloading conveyors, push and pull rod dischargers, and drag chain dischargers, which means state-of-the-art filling and emptying.

## SUPPLYING THE EXACT MEASURE REQUIRES THE RIGHT TECHNOLOGY

We provide highly effective technology for the regulated feeding of input and shredded material. Precise dosing is ensured via vibration technology and screw or push rod dischargers. We develop customised systems which are perfectly tailored to various requirements.





# WE KNOW HOW TO CONTROL FORCES

SHREDDING IS OUR CORE COMPETENCE

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# SHREDDING IS OUR CORE COMPETENCE

## BENEFIT FROM THE COMBINATION OF INNOVATIVE STRENGTH AND EXPERTISE

Since the company was founded in 1969 VECOPLAN has specialised in shredding technology. From the outset we have consistently developed our machines, perfected the underlying technology and revolutionised the international market. Thus, our customers around the world benefit from VECOPLAN know-how.

### Single-shaft shredders

Universal machines for shredding wood, paper, plastic, textiles, packaging and many other materials. Can be used on a single-stage basis or as pre- or re-shredders.

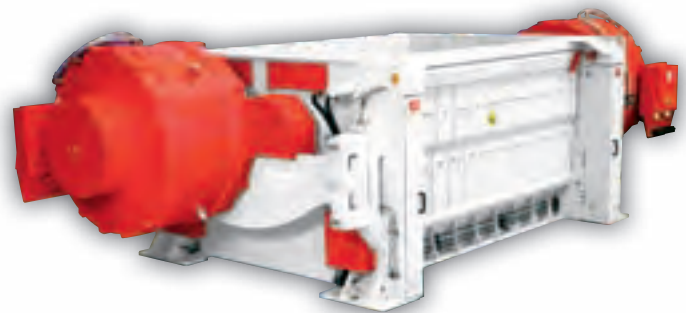
- Drive capacity of 11 to 250 kW
- Throughput capacity of 200 to 25,000 kg/h
- Load-controlled feed slide on the machine base
- Large, free space for unproblematic feeding and high throughput capacity



### Double-shaft shredders

Robust machines for municipal, industrial and bulky waste as well as old timber and biomass.

- Drive capacity of 2 x 75 kW to 2 x 250 kW
- Throughput capacity of 10,000 to 100,000 kg/h
- Machine with 2.10 to 3.10-metre-long rotors for the direct feed of the up to 20 m<sup>3</sup> large feeding hopper
- Accessories such as "post-pressers" and tilting hoppers are not required



### Re-shredders

Efficient machines for pre-shredded materials. Particularly economical if noise, dust or obstructions make the operation of a hammer mill (or similar) difficult. Direct feed with a wheel loader, for example, is also permitted. If necessary, non pre-shredded materials can also be fed in.

- Drive capacity of 2 x 75 kW to 2 x 200 kW
- Throughput capacity of 6,000 to 30,000 kg/h
- Rotors 2.0 to 3.0 metres long



## V-EBS

For the production of refuse derived fuels (RDF) from production and sorting waste, packaging material as well as domestic and commercial waste for the energetic use in cement and power plants.

- Motor power: 2 x 203 kW HiTorc®
- Capacity up to 22,000 kg/h
- Feeding controlled by rotor load

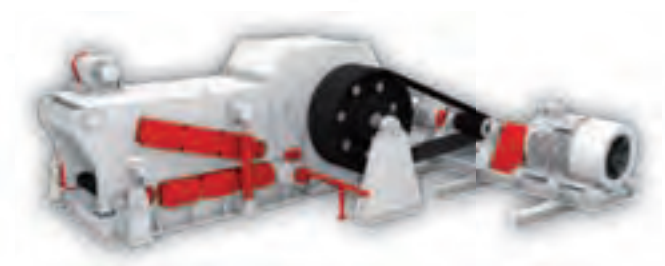


## Drum chipper

Our horizontal drum chippers are divided into three series (small, medium, heavy-duty).

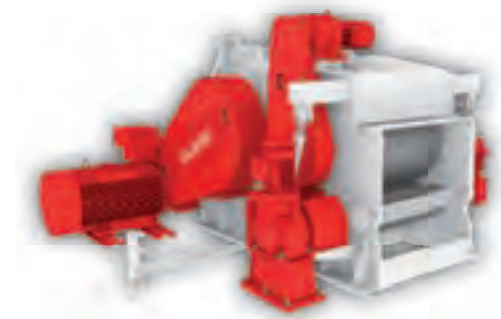
With a throughput capacity up to 15,000 kg/h the small series is used at saw mills and carpenter's workshops for the processing of long and short pieces.

The heavy-duty series with a throughput capacity of more than 100,000 kg/h is used for the production of wood chips out of roundwood, slabs and splinters.



## Biomass chipper

Robust, reliable and very powerful. It is primarily used in the production of large volumes of energy wood chips for thermal conversion in high-output biomass power plants and for the production of high-quality wood chips. This series is featured by a compact construction



## Hammer mill

For re-shredding all kinds of waste wood, packaging material, bark and log end pieces. Provided with a vertical infeed and fast rotating rotor. Due to their robust design these machines are very reliable.



# VECOPLAN ROTOR TECHNOLOGY

## FROM LARGE, BULKY FEEDSTOCK TO THE SMALLEST REQUIRED PARTICLE

### Shaped solid steel rotor

The shaped rotor with four-sidedly applicable rotor tools, developed by VECOPLAN. These rotors are used in both single and double-shaft machines and offer the following benefits:



Hurricane rotor



VAZ rotor

- Very homogeneous and easily transportable grain structure
- Low material warming
- The counter-knife combing in the rotor section keeps the screening area free of coarse material. This increases the screen service life and reduces energy consumption
- Tools are easy to replace and fit securely
- Low noise development
- Insensitivity to obstructions



### Cutting crowns

We offer the most cost-effective solution for each application by selecting the optimum geometry, number and size and the optimum material, such as tempering steel, cast steel, tool steel, powder and hard metal.



### Film and fibre rotor

For shredding highly tear-resistant plastic fibres and textiles, airbags, carpet, big bags, ropes and cords. Only with this unique cutting apparatus it is possible to shred difficult materials efficiently.



### Rotor cooling

Rotors with a diameter ranging from 370 mm can be fitted with an optional water cooling feature. Rotor cooling is recommended if materials with a low melting point have to be shredded or if a very fine grain is required.

# TECHNICAL DETAILS



## Slide control / slide seal

Slide rails made of highly wear-resistant plastic and robust guide rollers for machines with a rotor diameter of up to 500 mm. With heavy-duty rollers for larger machines. For the high load-bearing, smooth and tilt-free running of the slide. All slide edges with self-adjusting seals prevent material escaping and jams.



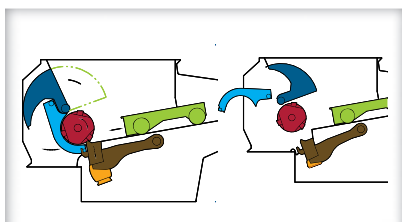
## Pneumatically lowerable counter knife (Flipper)

Pneumatic springs keep the counter knife free from play and centred in the working position. If sudden strokes occur due to obstructions, the crosshead springs down smoothly and without tilting. For easy removal of the obstruction, it is lowered at the press of a button.



## Pivotal screen

Pivotal screen for easy removal of obstructions in the case of machines with a pneumatic counter knife and for improved rotor accessibility during maintenance work.



## Holding-down devices

For increasing efficiency in the case of bulky materials, such as hollow parts, extrusion sections, froth boards, pallets, film bales and packaging material.



## Pulse detector

Pulse detectors are installed as a standard feature on "Hurricane" pre-shredders. This pulse detector is recommended on other types of machinery if obstructions can be frequently expected and the machine does not have a flipper or torque cut-out. If a rotor detects unshreddable obstructions, this is immediately recognised by the pulse detector and the rotor is switched off.



## Centrifugal wedge clamping system

The centrifugal wedge clamping system – an innovation by VECOPLAN. It provides a quick and secure cutter changing. The centrifugal wedge clamping guarantees a secured fixing of the chipping knives during the process.



## Clamping plate rotor

The clamping plate rotor has got a large chip pocket capacity. The segmented chipping knives, the clamping plate rotor and wear plates provide a high ease of maintenance. The exchangeable wear and clamping plates guarantee a long life of the rotor.



## biomass chipper feeding

The aggressive and extremely wear-proof spikes of the upper feed roller in combination with the hardened tooth shape of the lower feed rollers guarantee an optimal material feeding to the rotor. The positioning of the pivot point of the upper feed roller provides a constant adjustment of the feeded wood.

# DRIVE CONCEPTS



## Standard drive with belt drive

The drive concept with electric motor, hydraulic coupling, belt drive and gear is a proven solution for drive capacities from 22 to 37 kW. The hydraulic coupling ensures a smooth start-up and reduces load peaks and energy costs significantly.



## Standard drive with propeller shaft

This drive variant with a propeller shaft and hydraulic coupling offers the same advantages as the standard drive described above and is used for driving powers from 37 to 200 kW. The propeller shaft allows the advantage of a space-saving construction and reduces maintenance costs.



## Compact drive

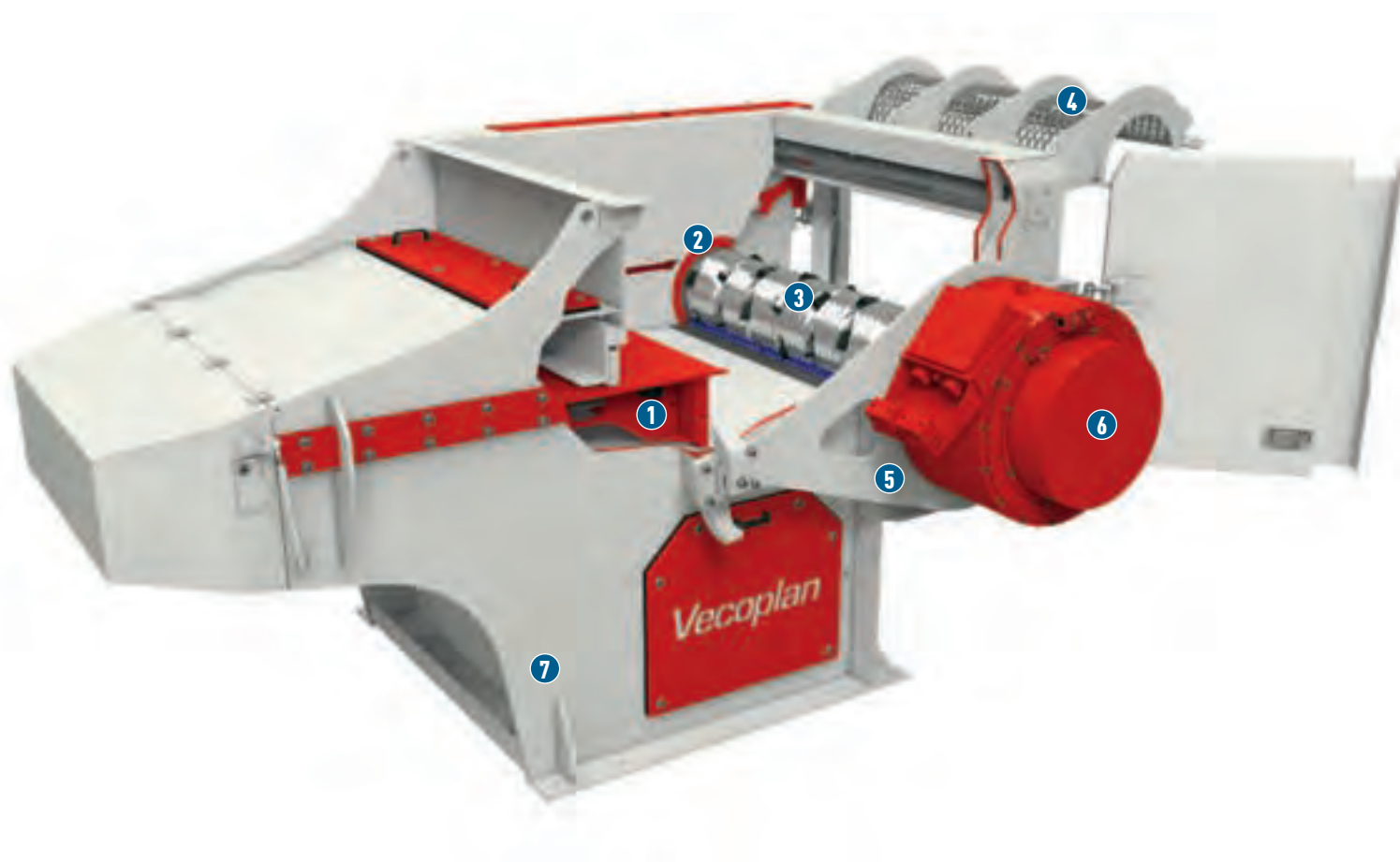
The direct drive with the slip-on gear motor is a functional and particularly cost-effective solution for drive sizes up to 11 kW drive capacity – even for starting with load.



## HiTorc® drive

This revolutionary gearless drive with HiTorc® motor is suitable for all requirements. It is built in sizes 62 to 250 kW with an infinitely variable speed of 0 to 420 r.p.m. Particularly in the case of larger drive capacities the additional costs can be partially paid off in the first year of operation as a result of the energy saving. Depending on the machine utilisation, energy savings of up to 60% are possible!

# BUILD-UP EXAMPLE FOR A VAZ SINGLE-SHAFT SHREDDER



- 1 Load-controlled slide with seals
- 2 Exchangeable wearing ring
- 3 Innovative cutting apparatus
- 4 Swing-up screen with exchangeable screen sheet
- 5 Spherical roller bearing in robust steel housing
- 6 Speed variable HiTorc® motor
- 7 Robust machine housing

# SINGLE-SHAFT SHREDDER





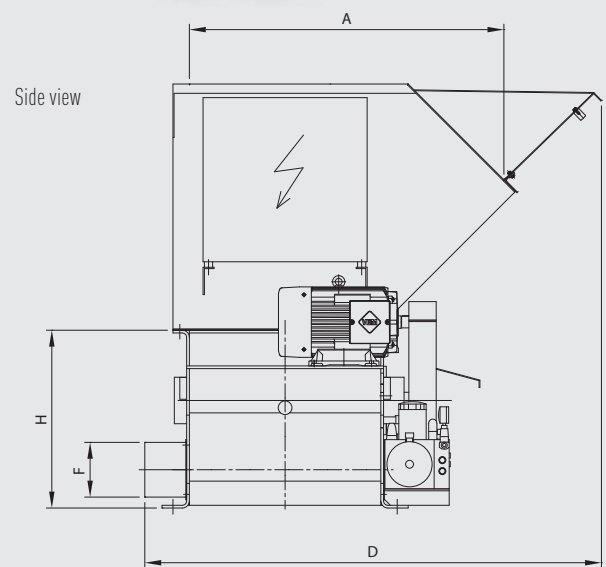
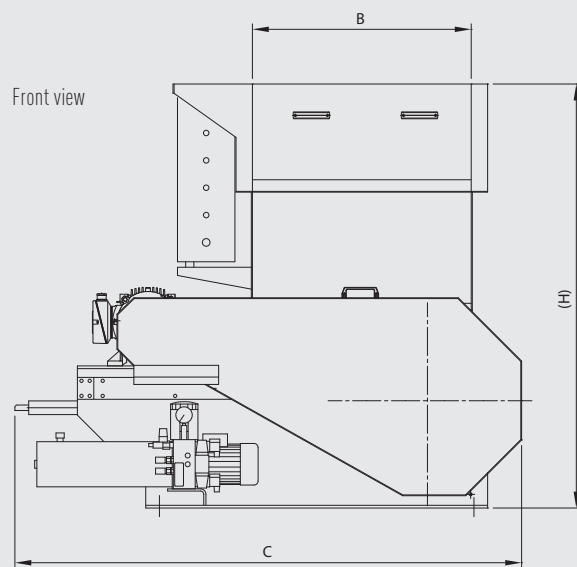
- Small series | VAZ 700 – 1100 XL
- Medium-duty series | VAZ 1300 – 2400 S
- Heavy-duty series | VAZ 2000 – 2500
- Alternative fuel shredder | V-EBS



# VAZ 700

## APPLICATION

Chipboard, softwood, kiln dried hardwood as well as all wood waste arising in typical carpenter and joinery companies.



## DETAILS

			VAZ 700 Z
Infeed opening	A	mm	1150
	B	mm	800
Overall dimensions	C	mm	1860
	D	mm	1670
Material outlet	F	mm	D=200
Height	H	mm	650
	(H)	mm	1550
Motor power		kW	11

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

# VDS 800

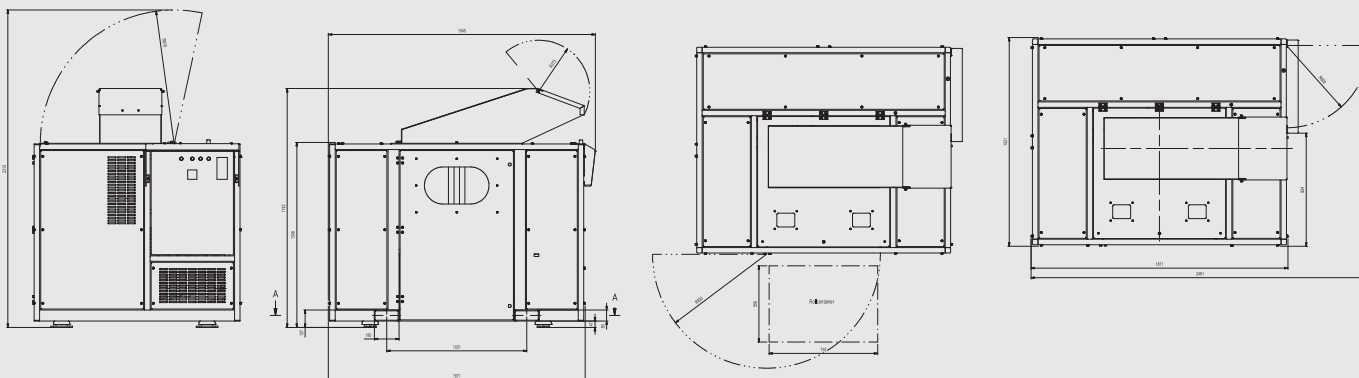


## APPLICATION

Shredding of hard disks and other magnetic, optical and printed data carriers like magnetic tapes, CDs, Files, e.g. The data medium is shredded mechanically, so sensible files are destroyed effectively and irreversibly.

Accessory:

- encapsulated design and integrated collecting container for material
- Operation with antimagnetic components made of stainless steel
- Infeed hopper rotation 180°. Feeding up to 30kg in one step.



## DETAILS

		VDS 800
Dimensions	mm	1871 x 1552 x 1938
Infeed length	mm	494
Infeed width	mm	298
Rotor diameter	mm	160
Screen diameter		depends on security level
Number of cutting insert		20 Stück
Dimensions cutting insert	mm	40 x 40
Rotor speed	UpM	70 - 110
Motor power	kW	18,5
Operating voltage	V	400
Frequency	Hz	50
Painting machine		RAL 9024
Painting flashing		RAL 9003
Weight	kg	2.000

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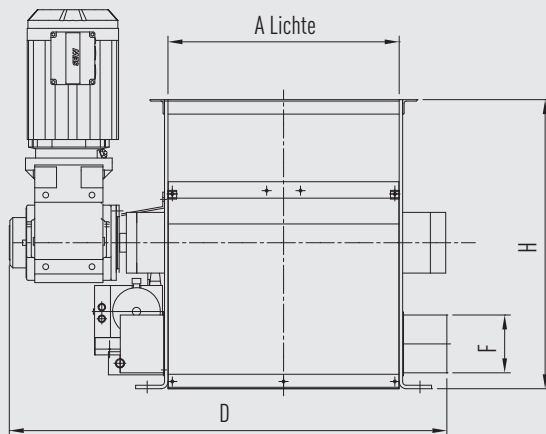
# VAZ 800

## APPLICATION

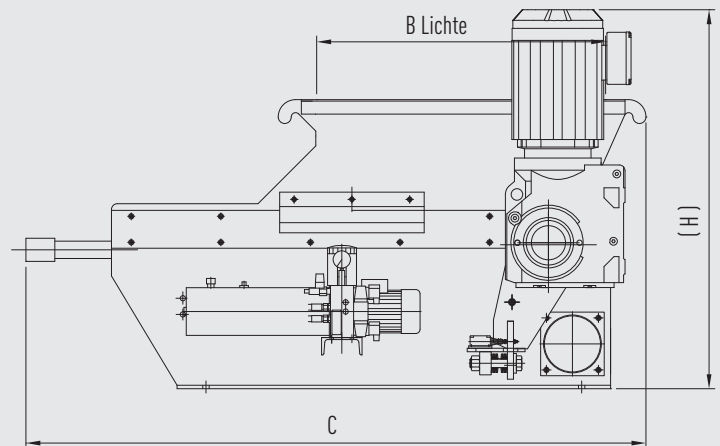
Solid wood waste (incl. short pieces), loose and light materials, such as film, packaging material, paper and plastic.



Side view



Front view



## DETAILS

			VAZ 800
Infeed opening	A	mm	800
	B	mm	1000
Overall dimensions	C	mm	2150
	D	mm	1515
Material outlet	F	mm	D=200
Height	H	mm	1000
	(H)	mm	1315
Motor power		kW	11

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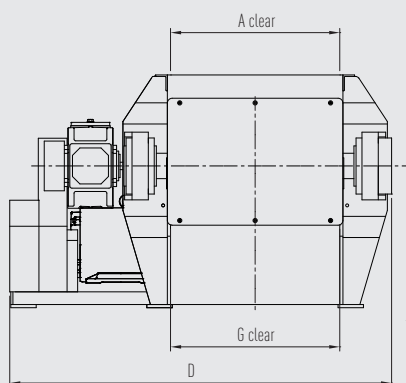
# VAZ 800 XL – 1100 XL



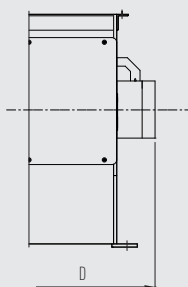
## APPLICATION

Solid wood waste (incl. short pieces), medical waste, loose and light materials, such as film, packaging material, chipboard, paper and plastic.

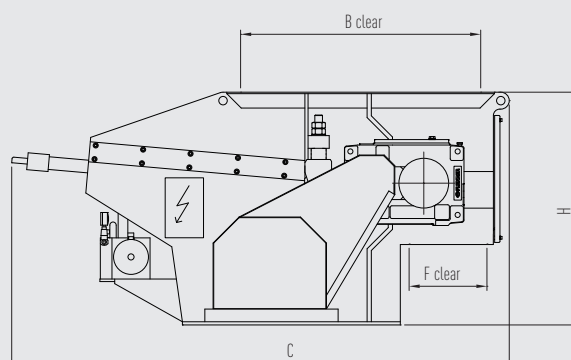
Standard-K



Standard-U



Front view



## DETAILS

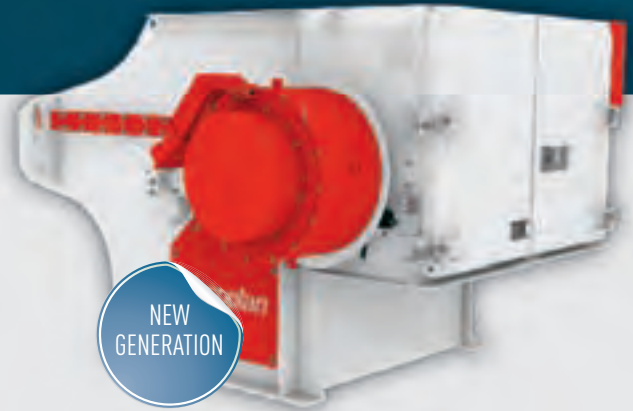
			VAZ 800 XL	VAZ 800 XL K	VAZ 1100	VAZ 1100 K	VAZ 1100 XL	VAZ 1100 XL K
Rotor diameter		mm	370		235		370	
Infeed opening	A	mm	800		1075		1075	
	B	mm	1135		1240		1300	
Overall dimensions	C	mm	2352		2567		2725	
	D	mm	1700	1805	1990	2100	2171	2270
Material outlet	F	mm	340		270		400	
	G	mm	800		1075		1075	
Height	H	mm	1100		1300		1100	

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

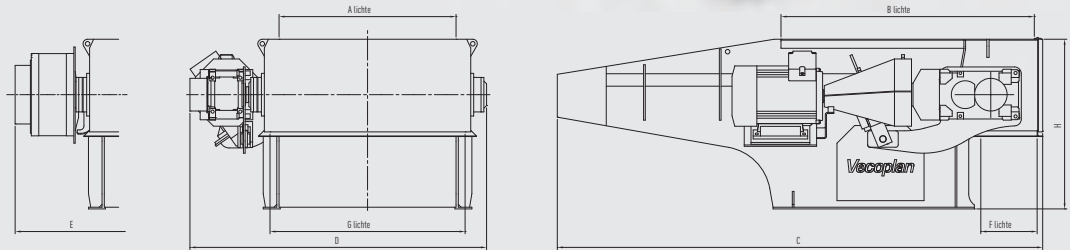
# VAZ 1300–1600 XL M

## APPLICATION

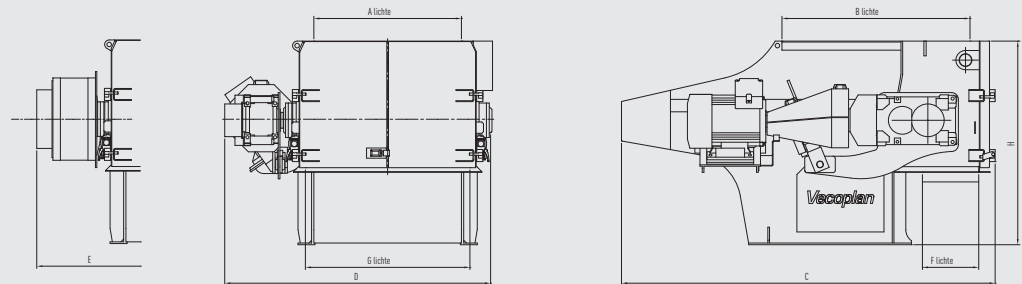
Wood waste, old wood, log end pieces, slabs, bark, paper, data medium, textiles, packaging material and plastics.



### VAZ 1300 + 1600 STANDARD



### VAZ 1300 + 1600 DELUXE



## DETAILS

			VAZ 1300 S	VAZ 1300 M	VAZ 1300 XL M	VAZ 1600 S	VAZ 1600 XL S	VAZ 1600 M	VAZ 1600 XL M	
Rotor diameter		mm	370	370	495	370	495	370	495	
Infeed opening	A	mm	1305	1305	1305	1565	1565	1565	1565	
	B	mm	1250	1470	1470	1470	1470	2035	2035	
Overall dimensions	Conventional	C (Standard)	mm	2850	3205	3205	3255	3255	4335	4335
		C (Deluxe)	mm	2950	3305	3305	3355	3355	4435	4435
		D	mm	2365	2365	2365	2625	2625	2625	2625
	HiTorc®	C (Standard)	mm	2850	3205	3205	3255	3255	4335	4335
		C (Deluxe)	mm	2950	3305	3305	3355	3355	4435	4435
		E	mm	2365	2365	2365	2625	2625	2625	2625
Material outlet	F	mm	430	430	430	430	430	430	430	
	G	mm	1535	1535	1535	1795	1795	1795	1795	
Height	H (Standard)	mm	1500	1500	1500	1500	1500	1500	1500	
	H (Deluxe)	mm	1800	1800	1900	1800	1900	1800	1900	

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# VAZ 2400 S

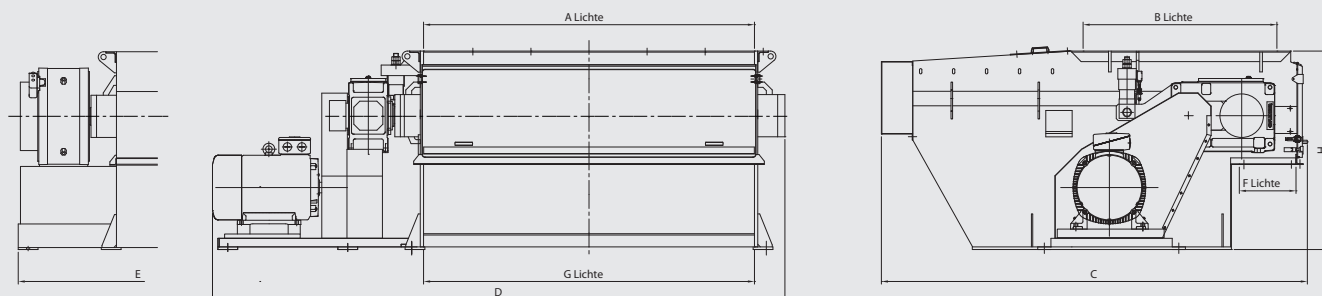


## APPLICATION

Wood waste, paper, data medium, textiles, packaging material and plastics.

HiTorc®

Standard-U



## DETAILS

			VAZ 2400 S	
Rotor diameter		mm		370
Infeed opening	A	mm		2510
	B	mm		1469
Overall dimensions	Conventional	C	mm	3230
		D	mm	4350
	HiTorc®	C	mm	3230
		E	mm	3720
Material outlet	F	mm		430
	G	mm		2510
Height	H	mm		1500

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# VAZ 1800

## APPLICATION

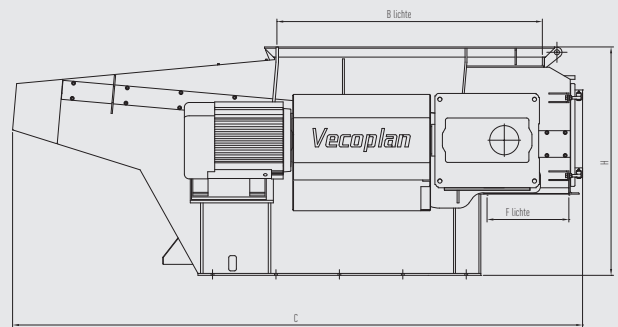
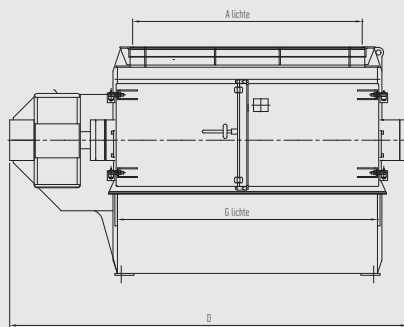
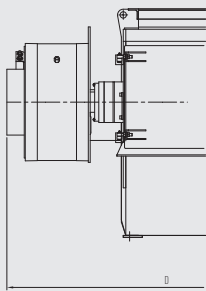
Wood waste, paper, data medium, textiles, packaging material and plastics.



HiTorc®

Side view

Front view



## DETAILS

			VAZ 1800	VAZ 1800 T
Infeed opening	A	mm	1810	1810
	B	mm	2090	2090
Overall dimensions	C	mm	4500	4500
	D	mm	3150	3450
Material outlet	F	mm	645	645
	G	mm	2050	2050
Height	H	mm	1800	1800
Motor power		kW	90 - 132	110 - 134

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

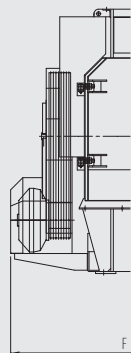
# VAZ 2000-2500



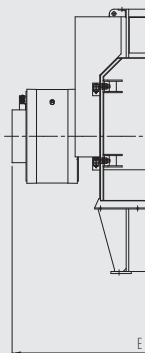
## APPLICATION

For waste wood, packaging materials, film, plastic, paper, textiles, domestic and commercial waste, production waste, either as bulk material or bales respectively.

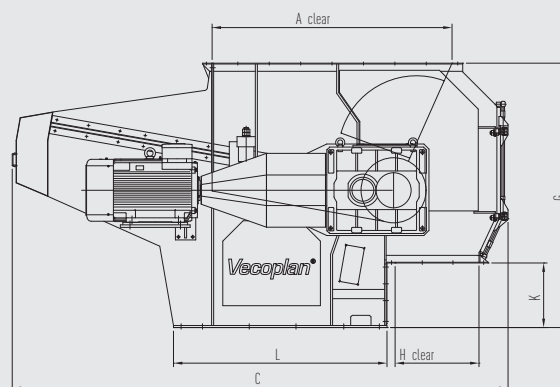
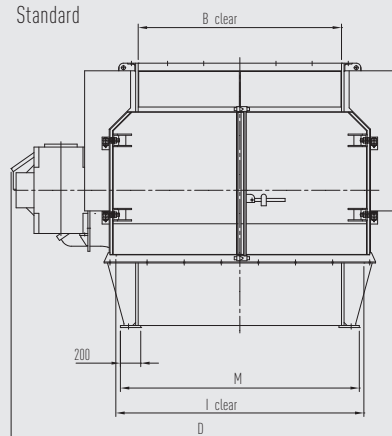
Direct



HiTorc®



Standard



## DETAILS

	Infeed opening		Overall dimensions					Material outlet			Machine stand		Max. weight		
	A	B	C	D	E	F	G	H	I	K	L	M			
	Length	Width	Length	Width with gears	Width with HiTorc®	Width with belt drive	Height	Length	Width	Height	Length	Width			
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg		
VAZ 2000 RS	1600	2000	3800	3780	3680	3420	2340	785	2440	595	1965	2350	16.200		
VAZ 2000 M	2000		4880				2600				825			635	2100
VAZ 2000 L	2500		5900				2670				675			2500	
VAZ 2500 RS	1600	2492	3800	4270	4170	4030	2340	825	2932	595	1965	2842	17.500		
VAZ 2500 M	2000		4880				2600				825			635	2100
VAZ 2500 L	2500		5900				2670				675			2500	

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# V-EBS 2500

## APPLICATION

For the production of refuse derived fuels (RDF) from production and sorting waste, packaging material as well as domestic and commercial waste for the energetic use in cement and power plants.

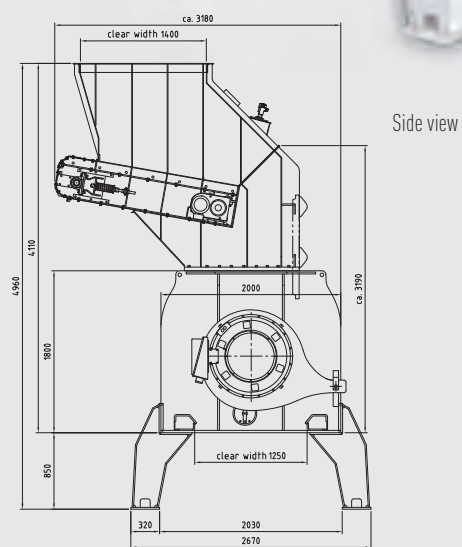
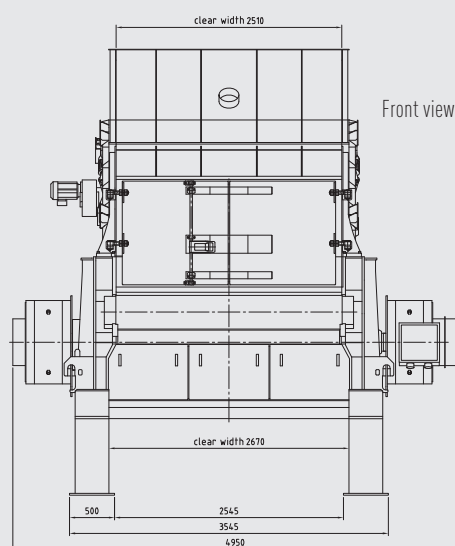


Image shows version with special equipment

## DETAILS

		V-EBS 2500
Infeed opening	mm	2510 x 1400
Rotor dimensions	mm	∅ 1000 x 2510
Number of rotor tools	qty	54
Rotor weight	t	13
Centrifugal moment	kgsm <sup>2</sup>	1270
Rotor speed approx.	rpm	150-250
Number of counter knives	qty	2
Number of counter knife segments	qty	2 x 5
Motor power (HiTorc®)	kW	2 x 203
Weight approx.	t	28
Overall dimensions (without machine feet)	mm	4950 x 3180 x 4110

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

# VEZ 2500



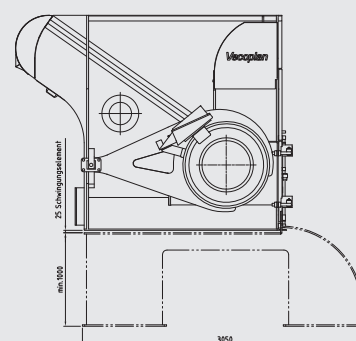
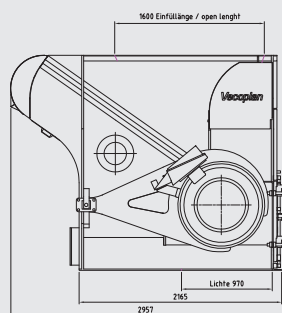
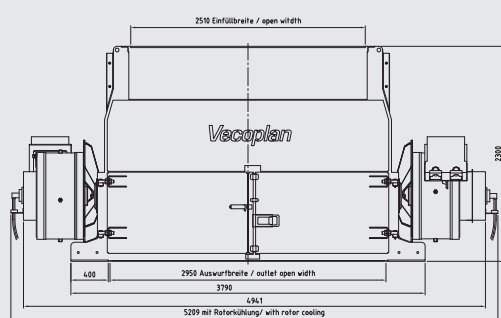
Example

## VEZ 2500

(Double-HiTorc® motor, 8 knife bars)

## APPLICATION

Production of Alternative Fuels (RDF) out of conditioned (air separation, cleaned of FE/NE) production and sorting deposits, packing materials as well as domestic and commercial waste for the energy recovery at cement plants and power stations.



## DETAILS

		VEZ 2500		
Infeed opening	mm	2510 – 1575		
Rotor dimensions	mm	ø 640 x 2510		
Rotor weight	t	5		
Rotor speed	UpM	150 – 420		
Number of counter knife segments	qty	2		
Counter knives		2 x 6-part		
Weight approx.	t	18		
Type of knife		Serrated knives (60 x 60 single knives)		
Number of knife bars		4	6	8
Number of knives	qty	144	216	288
Motor power	kW	247	247	2 x 247
Throughput capacity	t/h	11	12,5	18
RDF: 95 % < 30 mm; 80 - 100 kg/m <sup>3</sup>				

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 01/2013

# DOUBLE-SHAFT SHREDDER





- Pre-shredder | VVZ
- Re-shredder | VNZ

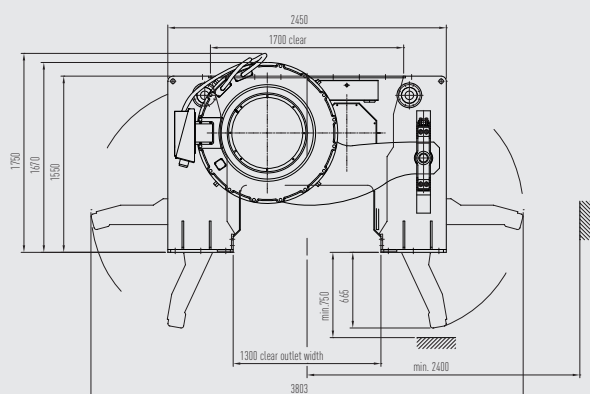
# VVZ 210 T (250, 310)



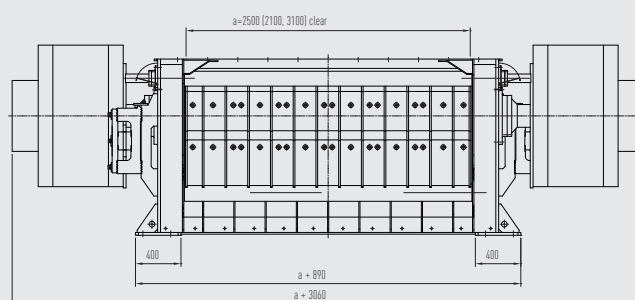
## APPLICATION

For domestic, bulky and commercial waste, scrap wood and production waste.

Front view



Side view

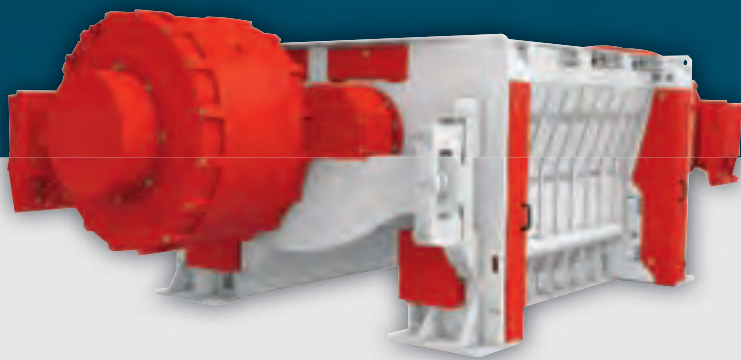


## DETAILS

		VVZ 210 T	VVZ 250 T	VVZ 310 T
Infeed opening	mm	1700 x 2100	1700 x 2500	1700 x 3100
Rotor dimensions	mm	2 x 720 x 2100	2 x 720 x 2500	2 x 720 x 3100
Number of tools	qty	2 x 10 (15,20)	2 x 12 (18,24)	2 x 15 (22)
Rotor speed	rpm	0 - 85	0 - 85	0 - 85
Motor power	kW	2 x 155	2 x 155	2 x 155
Weight approx.	t	23	26	30
Overall dimensions	cm	516 x 245 x 175	556 x 245 x 175	616 x 245 x 175

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

# TAIFUN 190

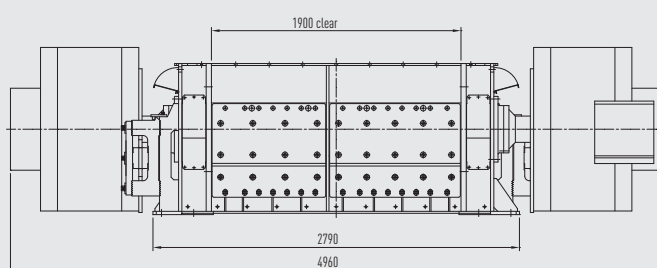


## APPLICATION

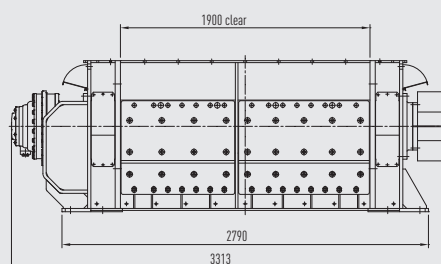
For domestic, bulky and commercial waste, old wood and production waste.

Side view

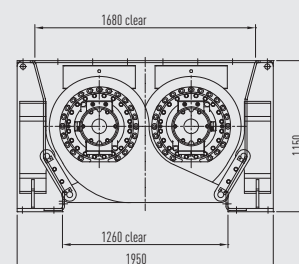
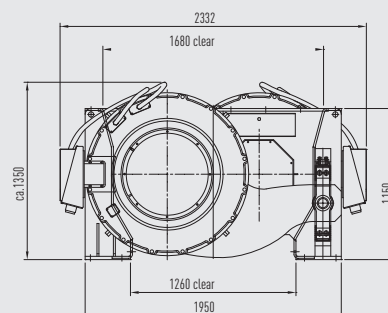
Taifun 190 T  
(HiTorc drive)



Taifun 190 H  
(hydraulic drive)



Front view



## DETAILS

		Taifun 190 T	Taifun 190 H
Infeed opening	mm	1680 x 1900	
Rotor dimensions	mm	2 x 640 bis 765 x 1900	
Rotor speed	rpm	0 - 85	0 - 45
Motor power	kW	2 x 155	1 x 200
Weight approx.	t	20	16
Overall dimensions	cm	496 x 245 x 167	317 x 245 x 155

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

# VVZ/VNZ 210 – 300 (L)

## APPLICATION

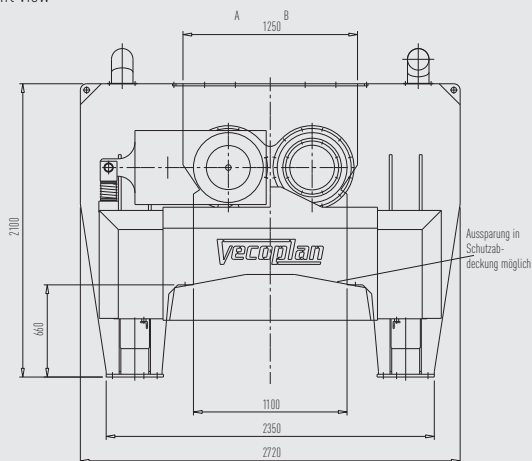
For difficult materials with foreign-parts and tramp metal such as pallets, boxes, cable drums, demolition timber, pieces of furniture, chipboard, domestic or commercial waste and refuse derived fuels.



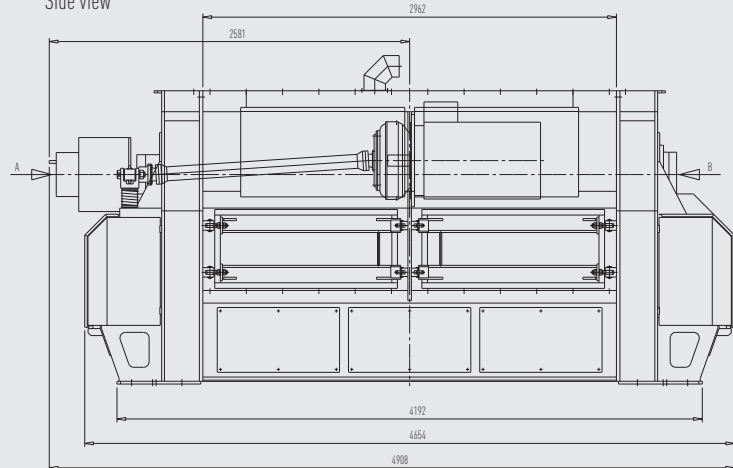
Example

**VNZ 300 L**

Front view



Side view



## DETAILS

		VVZ 210 (L)	VNZ 210 (L)	VVZ 300 (L)	VNZ 300 (L)
Infeed opening	mm	1250 x 2100	1250 x 2100	1250 x 2962	1250 x 2962
Rotor dimensions	mm	2100 x 500	2100 x 500	2962 x 500	2962 x 500
Number of tools	qty	2 x 19	2 x 24 (48)	2 x 27	2 x 34 (68)
Rotor speed	rpm	75 - 95	75 - 165	75 - 95	75 - 165
Motor power	kW	2 x 55 - 90*	2 x 75 - 132*	2 x 55 - 90*	2 x 90 - 132*
Weight approx.	t	13 (14)	13 (14)	17 (18)	17 (18)
Overall dimensions	cm	389 x 272 x 210 (455 x 272 x 210)	389 x 272 x 210 (455 x 272 x 210)	428 x 272 x 210 (491 x 272 x 210)	428 x 272 x 210 (491 x 272 x 210)

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

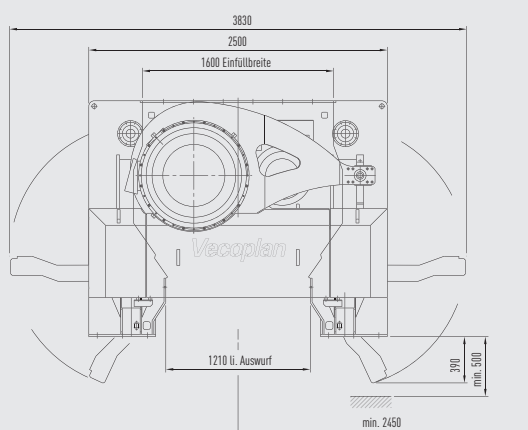
# VNZ 250 XL-T



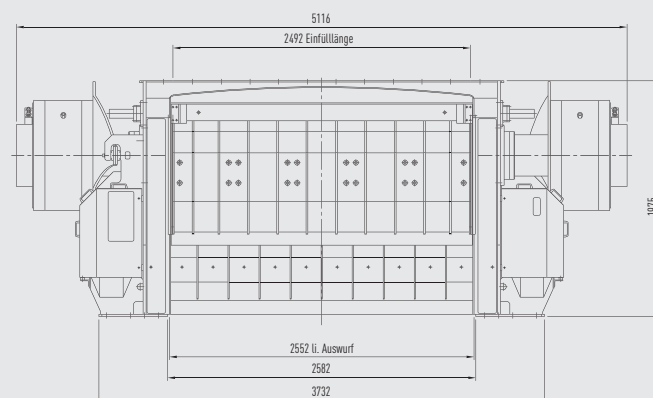
## APPLICATION

For difficult materials with foreign-parts and tramp metal such as pallets, boxes, cable drums, demolition timber, pieces of furniture, chipboard, domestic or commercial waste and refuse derived fuels.

Front view



Side view



## DETAILS

		VNZ 250 XL-T
Infeed opening	mm	2492 x 1600
Rotor dimensions	mm	2 x 640 x 2492
Number of tools	qty	2 x 60 / 76
Rotor speed	rpm	0 - 230 (320)
Motor power	kW	2 x 134 (2 x 203)
Weight approx.	t	24,5
Overall dimensions	cm	512 x 250 x 198

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012



# DRUM CHIPPERS AND HAMMER MILLS





# VTH 8

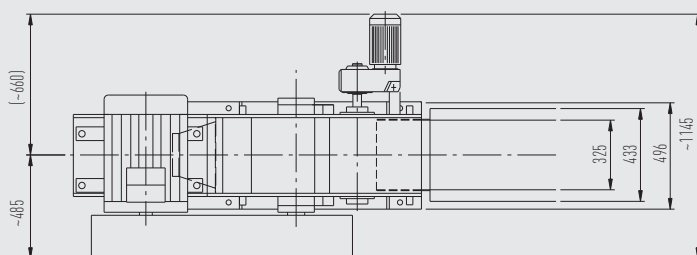
## APPLICATION

For the production of high quality wood chips made from short or long pieces of waste wood from the timber sizing and wood processing industry.

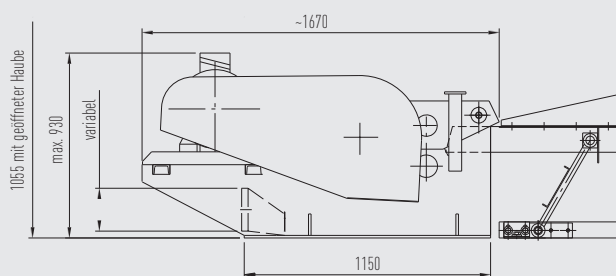
Example

### VTH 35/8/2

Top view



Side view



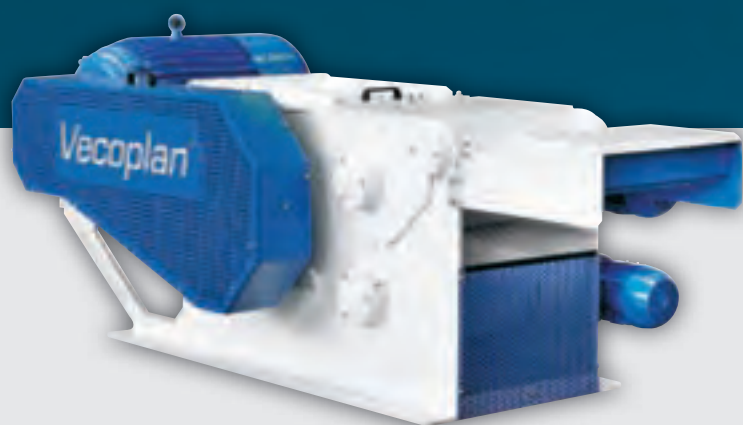
## DETAILS

		VTH 35/8/2
Infeed opening	mm	325 x 80
Infeed rollers	qty	2
Rotor diameter	mm	300
Number of tools	qty	2
Rotor speed	rpm	670 - 2100
Chipping length	mm	3 - 30
Required motor power	kW	22 - 30
Max. capacity	stere/h	2 *
Weight approx.	kgs	890

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012  
Also available with cutting crown rotor.

\* Depending on input material and chipping length

# VTH 12 U



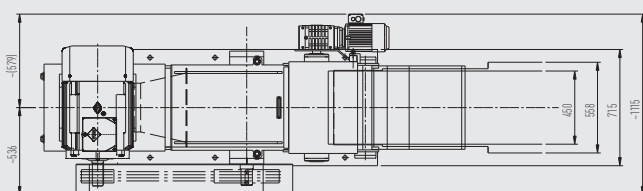
## APPLICATION

Extrusion profiles, plastic strips, soft woods, hard woods and all kinds of timber waste that occur in typical carpenter's workshops and joineries. Especially for long pieces of materials.

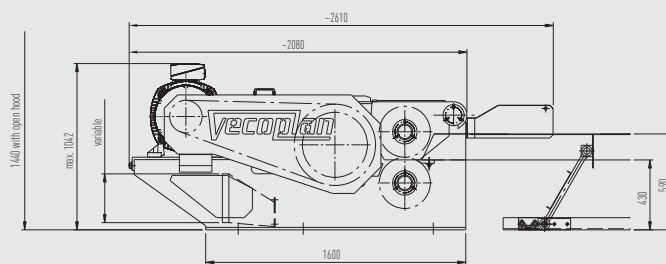
Example

VTH 45/12/2 U

Top view



Side view



## DETAILS

		VTH 45/12/2	VTH 65/12/2	VTH 85/12/2
Infeed opening	mm	450 x 120	650 x 120	850 x 120
Infeed rollers	qty	2	2	2
Rotor diameter	mm	400	400	400
Number of tools	qty	24	34	44
Rotor speed	rpm	500	500	500
Required motor power	kW	30 - 37	30 - 45	45 - 75
Max. capacity	stere/h	4 *	6 *	7 *
Weight approx.	kgs	1900	2250	2600

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

\* Depending on input material and chipping length

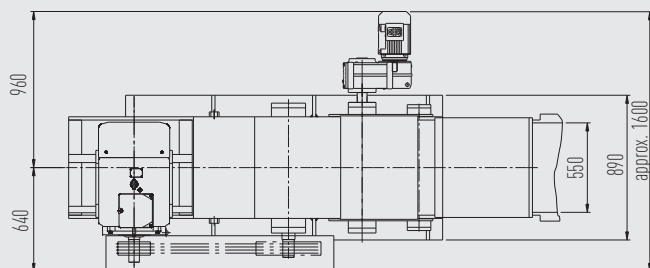
# VTH 15

## APPLICATION

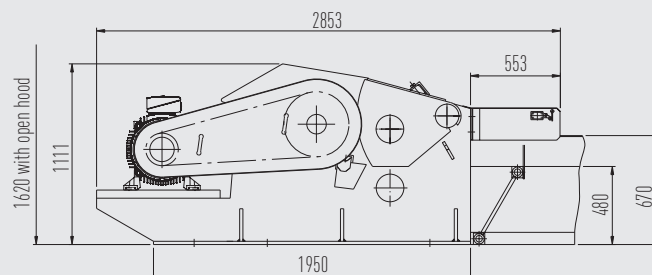
For the production of high quality wood chips made from short or long pieces of waste wood from the timber sizing and wood processing industry.



Top view



Side view



## DETAILS

		VTH 55/15/2
Infeed opening	mm	550 x 150
Infeed rollers	qty	2
Rotor diameter	mm	500
Number of tools	qty	2 - 4
Rotor speed	rpm	600 - 980
Chipping length	mm	3 - 30
Required motor power	kW	37 - 75
Max. capacity	stere/h	16 *
Weight approx.	kgs	3200

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012  
Also available with cutting crown rotor.

\* Depending on input material and chipping length

# VTH 20



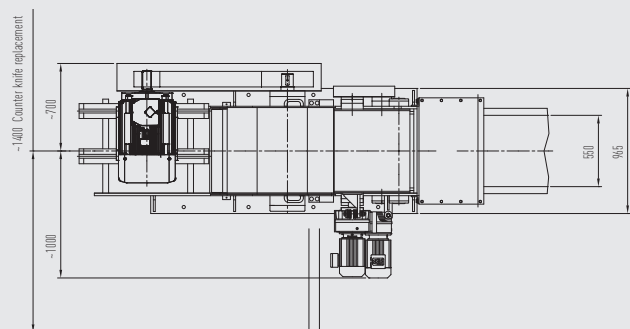
## APPLICATION

Our drum chippers produce top quality wood chips from slabs, edgings, round timber and all kinds of wood. This drum chipper is primarily used in sawmills, furniture factories and planing mills.

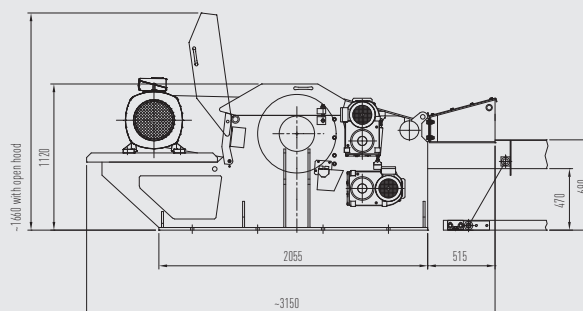
Example

### VTH 55/20/3

Top view



Side view



## DETAILS

		VTH 55/20/3	VTH 65/20/3	VTH 85/20/3
Infeed opening	mm	550 x 200	650 x 200	850 x 200
Infeed rollers	qty	3	3	3
Rotor diameter	mm	600	600	600
Number of tools	qty	2-4	2-4	2-4
Rotor speed	rpm	730 - 930	730 - 930	730 - 930
Chipping length	mm	3 - 30	3 - 30	3 - 30
Required motor power	kW	45 - 75	55 - 90	55 - 90
Max. capacity	stere/h	23 *	25 *	30 *
Weight approx.	kgs	3500	4200	5700

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

\* Depending on input material and chipping length

# VTH 25

## APPLICATION

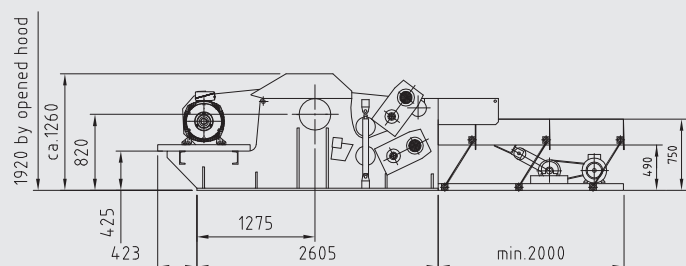
Our drum chippers produce high quality wood chips from slabs, edgings, round timber and all kinds of wood. This drum chipper is primarily used in sawmills, furniture factories and planing mills.



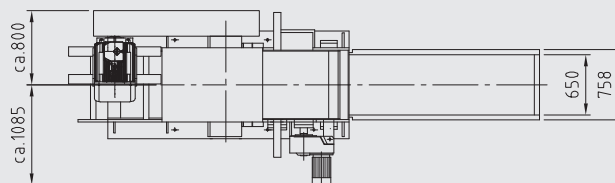
Example

### VTH 65/25/5

Top view



Side view



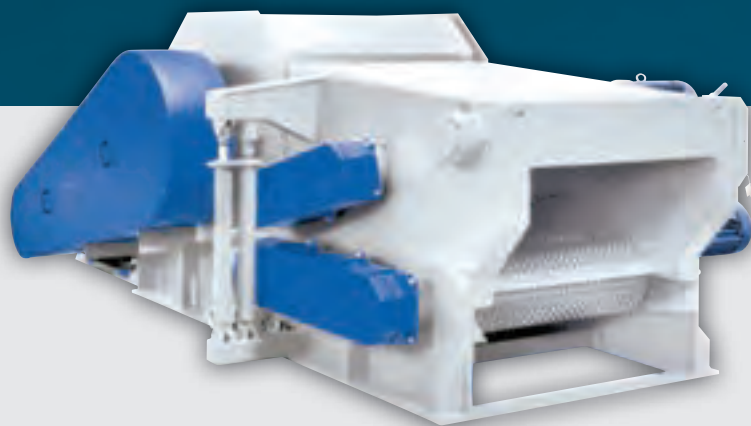
## DETAILS

		VTH 65/25/5	VTH 85/25/5
Infeed opening	mm	650 x 250	850 x 250
Infeed rollers	qty	5	5
Rotor diameter	mm	700	700
Number of tools	qty	2 - 4	2 - 4
Rotor speed	rpm	650 - 820	650 - 820
Chipping length	mm	5 - 30	5 - 30
Required motor power	kW	75 - 110	90 - 132
Max. capacity	stere/h	28 *	35 *
Weight approx.	kgs	5700	6700

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

\* Depending on input material and chipping length

# VTH 30



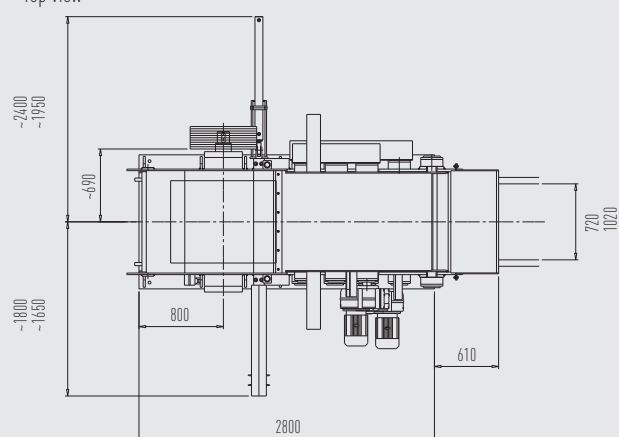
## APPLICATION

For use in sawmills, chipboard and paper industry for the generation of high quality wood chips, and in medium-sized biomass power plants for the production of energy wood chips for thermal recovery.

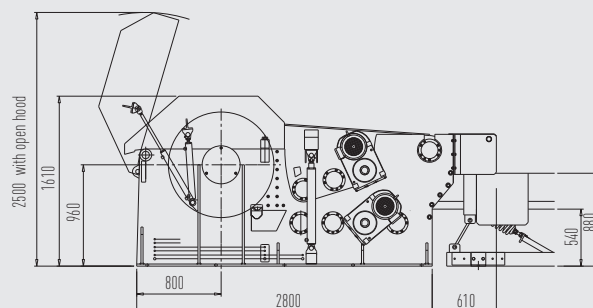
Example

### VTH 75/30/7

Top view



Side view



## DETAILS

		VTH 75/30/7	VTH 105/30/7
Infeed opening	mm	750 x 300	1050 x 300
Infeed rollers	qty	7	7
Rotor diameter	mm	1000	1000
Number of tools	qty	2 - 4	2 - 4
Rotor speed	rpm	600	600
Chipping length	mm	5 - 30	5 - 30
Required motor power	kW	110 - 200	132 - 250
Capacity	stere/h	16 - 45 *	16 - 65 *
Weight approx.	kgs	10000	13000

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

\* Depending on input material and chipping length



# VTH 35

## APPLICATION

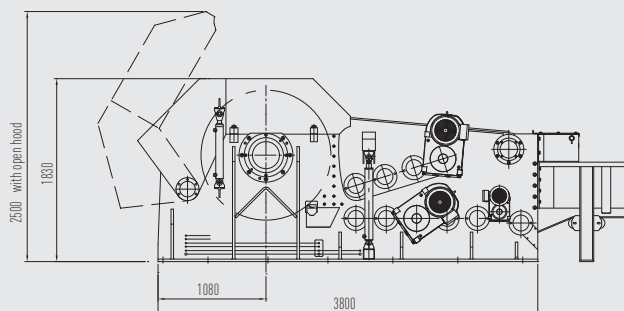
For use in the chipboard and paper industry for the creation of high quality wood chips, and in larger biomass power plants for the production of energy wood chips for thermal recovery.



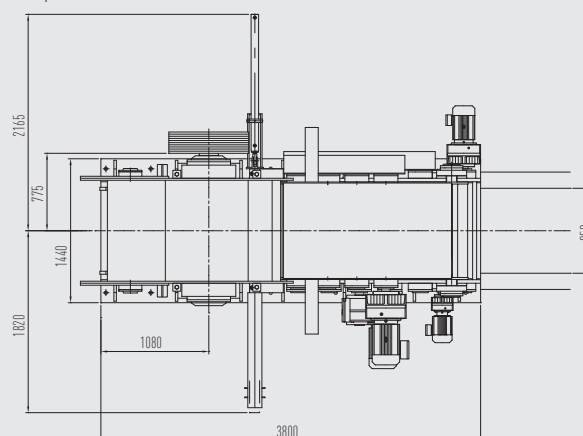
Example

**VTH 85/35/9**

Side view



Top view



## DETAILS

		VTH 85/35/9	VTH 105/35/9	VTH 125/35/9
Infeed opening	mm	850 x 350	1050 x 350	1250 x 350
Infeed rollers	qty	9	9	9
Rotor diameter	mm	1300	1300	1300
Number of tools	qty	2 - 4	2 - 4	2 - 4
Rotor speed	rpm	~ 425	~ 425	~ 425
Chipping length	mm	25	25	25
Required motor power	kW	200 - 315	250 - 450	250 - 450
Capacity	stere/h	90 *	115 *	140 *
Weight approx.	kgs	18000	20000	23000

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

\* Depending on input material and chipping length

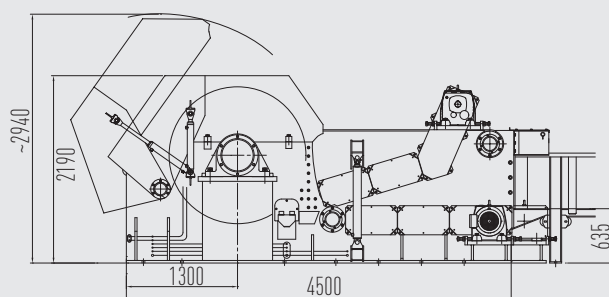
# VTH 45



Example

VTH 125/45/11

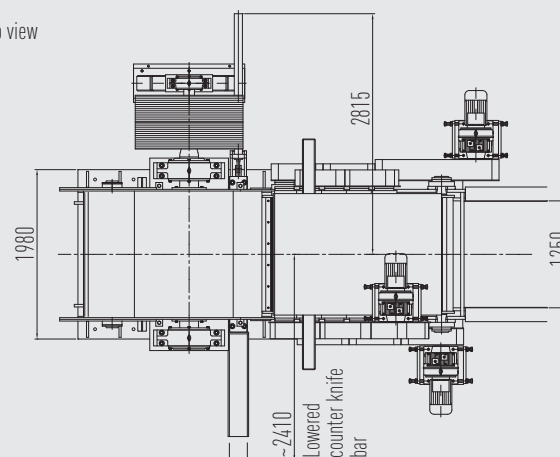
Side view



## APPLICATION

For use in the chipboard and paper industry for the creation of high quality wood chips, and in larger biomass power plants for the production of energy wood chips for thermal recovery.

Top view



## DETAILS

		VTH 85/45/11	VTH 105/45/11	VTH 125/45/11
Infeed opening	mm	850 x 450	1050 x 450	1250 x 450
Infeed rollers	qty	11	11	11
Rotor diameter	mm	1600	1600	1600
Number of tools	qty	2 - 4	2 - 4	2 - 4
Rotor speed	rpm	~ 350	~ 350	~ 350
Chipping length	mm	25	25	25
Required motor power	kW	500 - 750	630 - 1000	630 - 1000
Capacity	stere/h	120 *	150 *	180 *
Weight approx.	kgs	25000	28000	31000

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

\* Depending on input material and chipping length



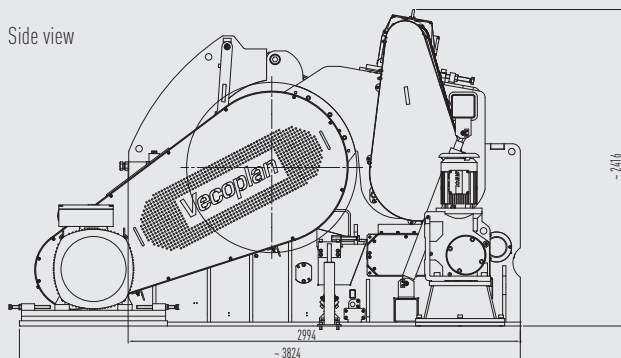
# BIOMASS CHIPPER VTH 60+85



Example

## BIOMASS CHIPPER VTH 105/60/4

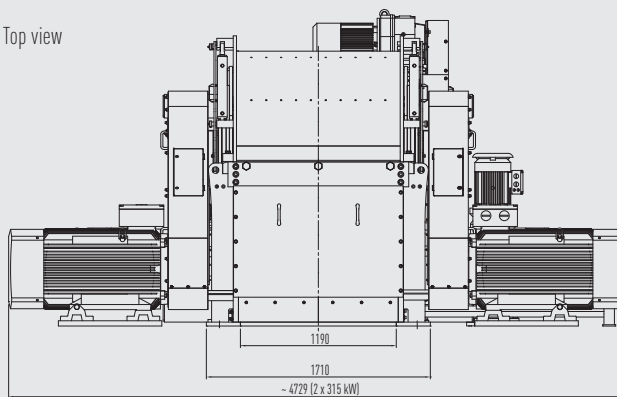
Side view



## APPLICATION

For the production of energy wood chips for thermal recovery in biomass power plants.

Top view



## DETAILS

		VTH 105/60/4	VTH 125/85/4
Infeed opening	mm	1050 x 600	1250 x 850
Infeed rollers	qty	4	4
Rotor diameter	mm	1300	1800
Number of tools	qty	2 - 3	3
Rotor speed	rpm	520	375
Chipping length	mm	20 - 30	20 - 30
Max. capacity	stere/h	120 *	180 *
Required motor power	kW	315 - 2 x 315	630 - 1000
Weight approx.	kgs	23000	36000

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

\* Depending on input material and chipping length

# VTH 85

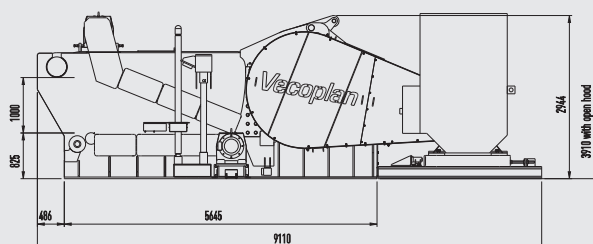
## APPLICATION

For use in the chipboard and paper industry for the creation of high quality wood chips, and in biomass power plants with extended ranges of capacity for the production of energy wood chips for thermal recovery.

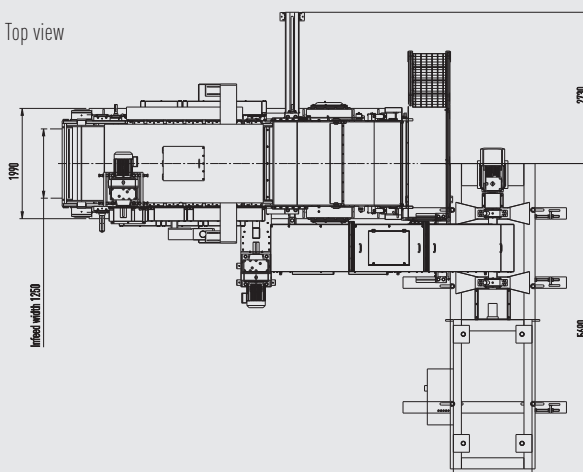
Example

### VTH 145/85/14

Side view



Top view



## DETAILS

		VTH 125/85/14	VTH 145/85/14
Infeed opening	mm	1250 x 850	1450 x 850
Infeed rollers	qty	14	14
Rotor diameter	mm	2000	2000
Number of tools	qty	3 - 4	3 - 4
Rotor speed	rpm	~ 300	~ 300
Chipping length	mm	20 - 40	20 - 40
Required motor power	kW	1000 - 1500	1000 - 1500
Capacity	stere/h	200 - 400 *	250 - 450 *
Weight approx.	kgs	50000	55000

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

\* Depending on input material and chipping length

# HR 35



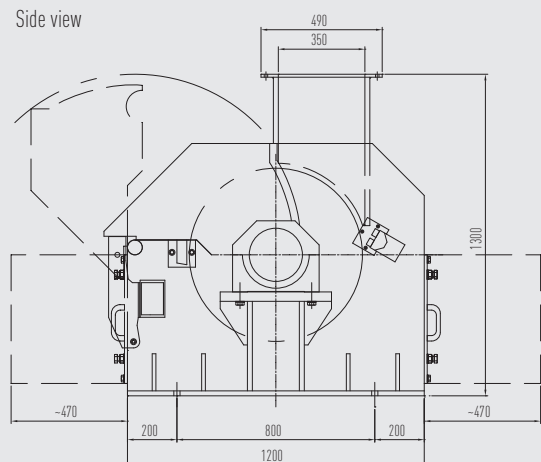
## APPLICATION

For re-shredding waste products previously processed in the timber industry, such as log end pieces, demolition waste, etc. The wood chips produced are used as fuel in heating installations in order to generate process heat.

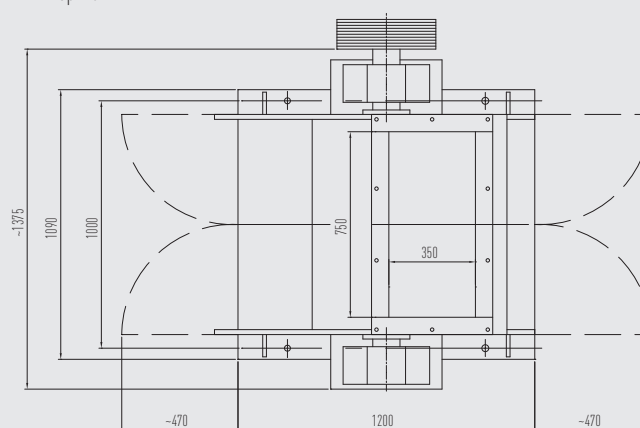
Example

### HR 75/35

Side view



Top view



## DETAILS

		HR 75/35
Infeed opening	mm	750 x 350
Rotor diameter	mm	700
Number of chipping knives	qty	2 - 4
Rotor speed	rpm	650 - 820
Chipping length	mm	5 - 30 *
Required motor power	kW	55 - 110
Max. capacity	stere/h	35 *
Weight approx.	kgs	4350

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

\* Depending on input material and screen perforation

# HR 45



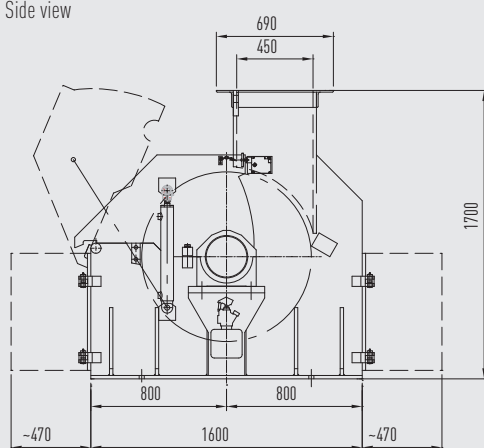
## APPLICATION

For re-shredding waste products previously processed in the timber industry, such as log end pieces, demolition waste, etc. The wood chips produced are used as fuel in heating installations in order to generate process heat.

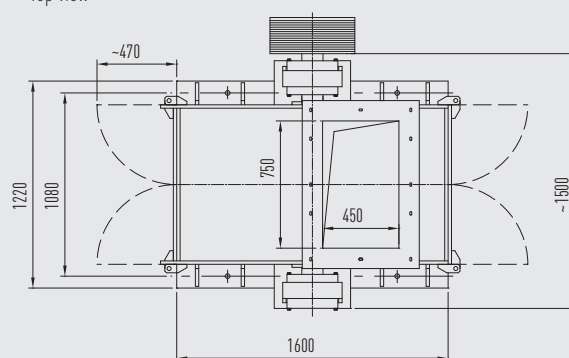
Example

### HR 75/45

Side view



Top view



## DETAILS

		HR 75/45	HR 95/45	HR 105/45	HR 125/45
Infeed opening	mm	750 x 450	950 x 450	1050 x 450	1250 x 450
Rotor diameter	mm	1000	1000	1000	1000
Number of chipping knives	qty	2 - 4	2 - 4	2 - 4	2 - 4
Rotor speed	rpm	450 - 1000	450 - 1000	450 - 1000	450 - 1000
Chipping length	mm	5 - 30 *	5 - 30 *	5 - 30 *	5 - 30 *
Required motor power	kW	110 - 200	110 - 200	110 - 200	160 - 250
Max. capacity	stere/h	45 *	55 *	60 *	75 *
Weight approx.	kgs	4900	5700	6500	8500

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

\* Depending on input material and screen perforation

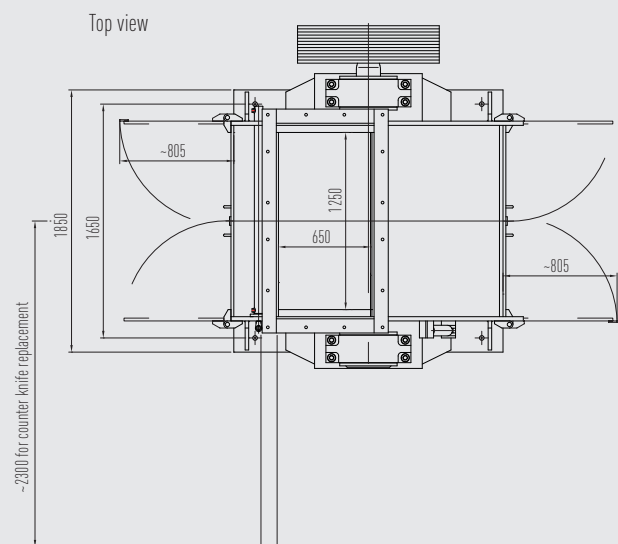
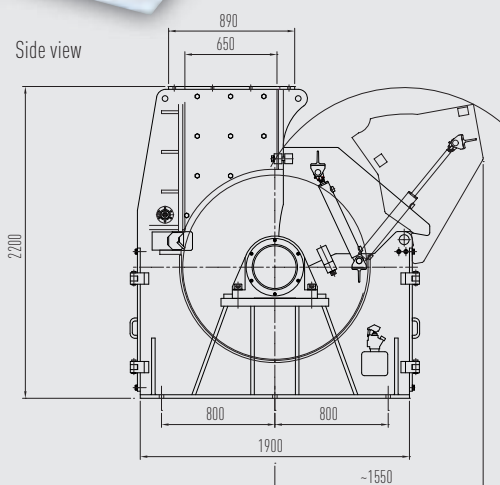
# HR 60



## APPLICATION

For re-shredding waste products previously processed in the timber industry, such as log end pieces, demolition waste, etc. The wood chips produced are used as fuel in heating installations in order to generate process heat.

Example  
HR 125/60



## DETAILS

		HR 125/60
Infeed opening	mm	1250 x 600
Rotor diameter	mm	1300
Number of chipping knives	qty	2 - 4
Rotor speed	rpm	450 - 750
Chipping length	mm	5 - 50 *
Required motor power	kW	160 - 315
Max. capacity	stere/h	90 *
Weight approx.	kgs	11500

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

\* Depending on input material and screen perforation



# IMPACT SYSTEM AND ROTOR SHEARS

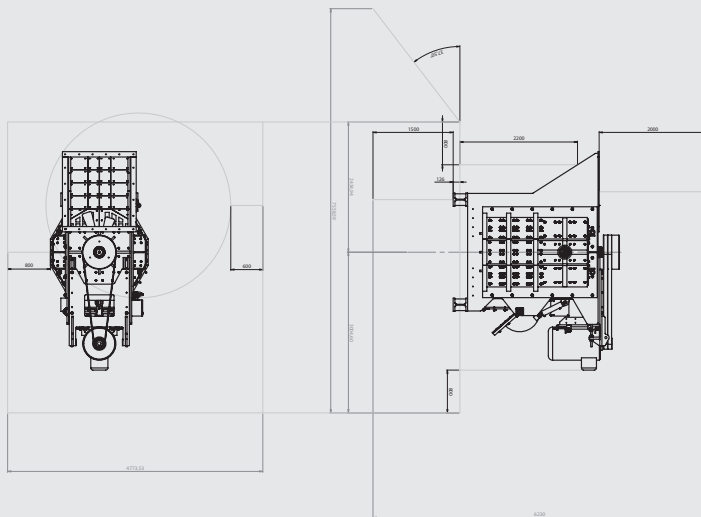




# V-IMPACT

## APPLICATION

Waste Electric and Electronic Equipment of Collection groups 1, 3 and 5,  
Electric motors, Cooling units/White goods, Catalyzer, Composite materials,  
Refuse incineration waste, Slags, Brittle materials, and much more



By flexible mounted crushing tools the input material is accelerated with an enormous impact power (>50 t). It bounces against the Hardox plate protected working chamber of the machine. Compounds are disintegrated, the input material is shredded and perfectly prepared for further processes (screening and sorting).

### The V-IMPACT is unique:

- very robust machine
- all input-material contacting machine parts are made out of wear resistant steel and can be changed easily
- choice of partial size for the output-material can be done by electrical control
- high capacity with more than 20 t/h (depends on bulk density of input material)
- impassable against foreign materials! Even undestroyable materials cannot cause major damages
- increasing of efficiency by using an electronical consumption optimizer (on option) for lower energy costs and rapidly powerdown (in seconds) in case of emergency situation

## DETAILS

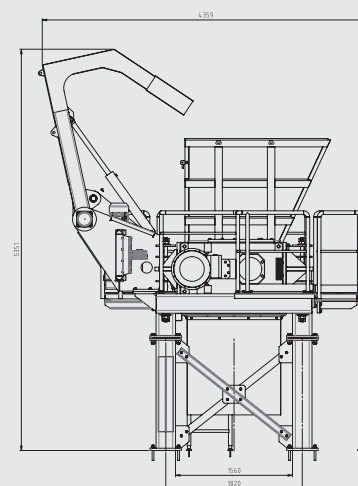
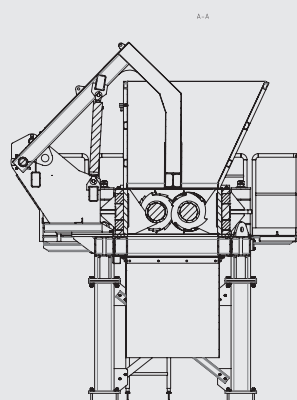
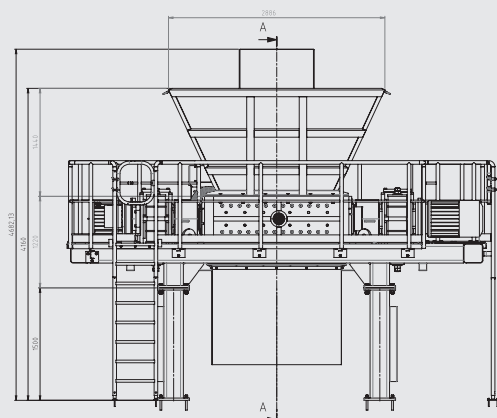
		V-Impact 1600	V-Impact 2200
<b>Dimensions / Weight</b>			
Over all length with platform / stairs	mm	7.600	8.100
Over all width with platform / stairs	mm	4.800	5.000
Over all height with feeding hopper and frame	mm	6.300	6.600
Feeding hopper	mm	1.000 x 900 x 900	1.090 x 980 x 900
Weight	tons	28	34,2
<b>Hammer tools</b>			
Hammer tools (diameter x height)	mm	1.600 x 1.800	2.200 x 2.000
Weight of the rotor	tons	2,5	3,5
Number of hammer tools	qty	2 - 15	2 - 18
<b>Gear unit</b>			
Rotor rotation speed	rpm	0 - 1.200	0 - 800
Electric gear power	kW	110	160
<b>Equipment</b>			
Paint finish (all other RAL-colours on customers request)	RAL 9003 Signal White		
Acoustic booth	Option		

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 03/2013



## APPLICATION

Pre-shredding of: electronic scrap and refrigerators, tires, steel cord and textile cord, EM- and OTR-tires, truck and passenger car tires, air plane tires, domestic waste, industrial waste, paper/corrugated cardboard, balled goods, roll goods, roll core goods, printing, file destruction, hazardous waste, oilfilters, textiles, loose articles, and much more ...

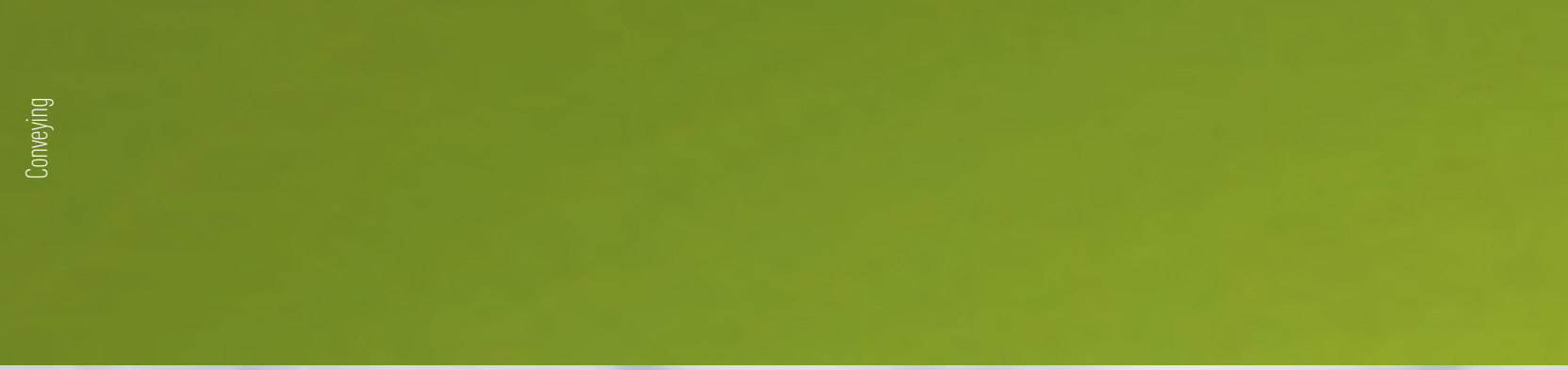


## DETAILS

		VRS 1200	VRS 1500	VRS 1800
<b>Dimensions/Weight</b>				
Over all length	mm	5.220	5.750	7.850
Over all width	mm	3.300	3.550	4.000
Over all height with hopper	mm	3.950	4.160	4.755
Cutting chamber dimension (width x length)	mm	1000 x 1.200	1.200 x 1.515	1.500 x 1.800
Feeding hopper (width x length)	mm	1.650 x 2.500	2.500 x 2.800	2.650 x 2.900
Machine frame (height)	mm	1.500	1.500	1.500
Weight	t	14	21,5	44,5
<b>Cutting chamber</b>				
Cutting disc width	mm	50	58	80
Number of cutting discs	pcs.	24	26	22
Number of strippers	pcs.	24	26	22
<b>Gear unit</b>				
Rotor rotation speed (50 Hz)	rpm	16 - 18	16 - 18	10 - 11
Electric gear power	kw	2 x 55	2 x 90	2 x 160
<b>Equipment</b>				
Feeding hopper		incl.	incl.	incl.
Siemens Control unit		incl.	incl.	incl.
Electronic consumption optimizer/FI		optional	optional	optional
Hydraulic pushin device (11 kw)		optional	optional	optional

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Conveying



# WE LEAD THE WAY

CONVEYING TECHNOLOGY – TAILOR-MADE

## CONTENT

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Vibrating conveyor VR	69

# CONVEYING TECHNOLOGY – TAILOR-MADE



## DRAG CHAIN CONVEYOR KKF

Drag chain conveyors have an endless chain with feed dogs which runs in a closed trough. This makes them suitable for transporting bulk materials. Depending on the design of the feed dogs and trough, material can be conveyed horizontally, on an incline or vertically. Bows can be installed allowing different conveyor sections to be combined.

VECOPLAN drag chain conveyors are available in different sizes and are equipped with one or two chains. Furthermore bulk material can be conveyed in a version with lower run, materials with overlengths can be conveyed in a version with upper run. It can also be used as discharge conveyor after a storing system – for every application the right solution.

### Benefits

- Individual solutions for loading material at any preferred position
- Individual solutions for unload material at any preferred position with the help of slides
- Variable material handling due to Y-chutes
- Dust-proof conveying with closed coverage
- Easy exchange of chain guides, chains, chain wheels and feed dogs
- High accident avoidance due to complete housing of moveable parts
- Long-life special chains for difficult applications
- Intelligent chain lubrication for an increase of the chain operating time



## BELT CONVEYORS VFB

The VECOPLAN belt conveyors are available in two designs - as troughed or flat belt conveyor. Both types have a modular design. They are easy to assemble to suit your requirements and can be subsequently modified and adapted. All belt conveyors feature a particularly hard-wearing (optionally oil-resistant) rubber conveyor belt. In addition to that an adapted belt scraper system for the applied material can be installed. So we assure that our belts are always perfectly adapted to the required application.

### Benefits

- First-class powder-coating
- Easy to maintain due to the design of the belt conveyor
- Option of reversing or moveable belt conveyor
- Optional installation of a belt weigher or overbelt magnetic separator
- Dust-proof design with exhaustion
- Troughed belt conveyor also available as „banana belt conveyor“
- Flat belt conveyor also available with elbows
- Very few wearing parts
- Robust pedestal bearing at tensioning and drive unit



# CONVEYING TECHNOLOGY – TAILOR-MADE

## VECOBELT

The pipe belt conveyor „VecoBelt“ is ideal for conveying bulk materials over long distances either horizontally or on a slight incline. Conveying paths up to 400 m are possible. Furthermore spans can be installed that are up to 72 m self-supporting with suspension ropes fixed on pylons.

The material being transported glides on a cushion of air in a closed steel tube that assures a low-noise and dust-proof conveying of the bulk material. The cushion of air comes from an air flow that is carried at low air pressure below the belt by a fan.

In addition to that there is a low frictional resistance by air bearings below the belt. Due to few moveable parts the VecoBelt is low-wear and low-maintenance. A high conveying capacity with small dimensions and a low power rating

is given. An easy installation on the ground, including the pylons, is possible.

### Benefits

- Low-wear and low-maintenance
- Low wear of belt
- Low-noise
- Low power rating due to cushion of air technology
- Robust pedestal bearing at tensioning and drive unit



## VIBRATING CONVEYOR VR



It is not just the high conveying capacity of our vibrating conveyors (type VR) that makes them so efficient for transporting bulk materials and piece goods. Their low-maintenance continuous operation also makes them a sound long-term investment. Vibrating conveyors are ideal for feeding chippers or as discharge conveyors downstream of storage systems. They also serve to smooth the material flows. They can also conveniently be fitted with a screening zone or a metal-free zone in which a metal detector unit can be installed, and a maximum gradient of 3 degrees is possible.

### Key features of vibrating conveyors

- Eccentric shaft drive
- High conveying capacity
- Low-maintenance, continuous operation
- Quick and easy to clean
- Gentle, steady conveying
- Sturdy construction
- Conveying capacity: between 20 and 150 m<sup>3</sup>/h
- Trough widths between 350 and 1,650 mm

## SCREW CONVEYOR FS



Bulk material reaches its destination well dosed, thoroughly mixed and evenly transported – that is why screw conveyors are particularly suitable for use in cement production plants. But semi-moist and fibrous materials can also be transported – it is all a question of the design. Depending on the application, screw conveyors can have one or more shafts, and can be horizontal or inclined.

### Key features of screw conveyors

- Simple, compact and rugged design
- The material to be conveyed can be loaded at any chosen position
- Sturdy, torsion-resistant steel construction
- Full flight welded to the screw shaft
- Individual choice of materials and wear lining on request
- Long service life, low maintenance
- Single screw delivery rate: 5 to 350 m<sup>3</sup>/h
- Conveying diameter: 250 to 630 mm

# KKF 300-1K-E & KKF 300-1K-E/TS

## APPLICATION

This version of VECOPLAN chain conveyors transports the material in the lower run by means of one outside conveying chain with 11.2 t breaking load. The chain runs on a low-wear chain guide rail that is entirely covered so that no material can get into the chain.

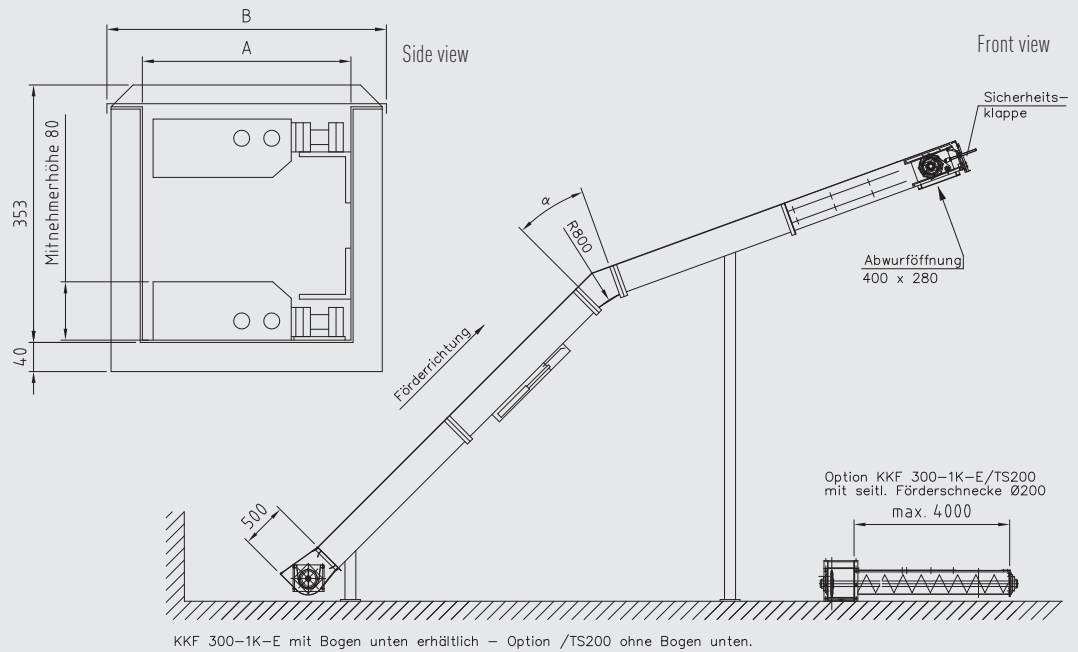
The material can e.g. be removed from a bunker by a laterally mounted screw. Further these conveyors are used e.g. after push & pull rod dischargers with appropriate discharge capacities.

The KKF 300-1K-E is particularly suitable for transporting small quantities of wood chips, wood shavings or sawdust, e.g. as feeding for a boiler plant. By use of upper and lower elbows (mostly upper elbows at "TS") the course of chain conveyors is almost on choice.



Example

KKF 300-1K-E/TS



## DETAILS

		KKF 300-1K-E & KKF 300-1K-E/TS
Width of trough A	mm	286
Total width B	mm	386
Conveying capacity approx.*	m <sup>3</sup> /h	5

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

\* at conveying speed of 24 m/min. and horizontal course

# KKF 400/500/600-1K-U



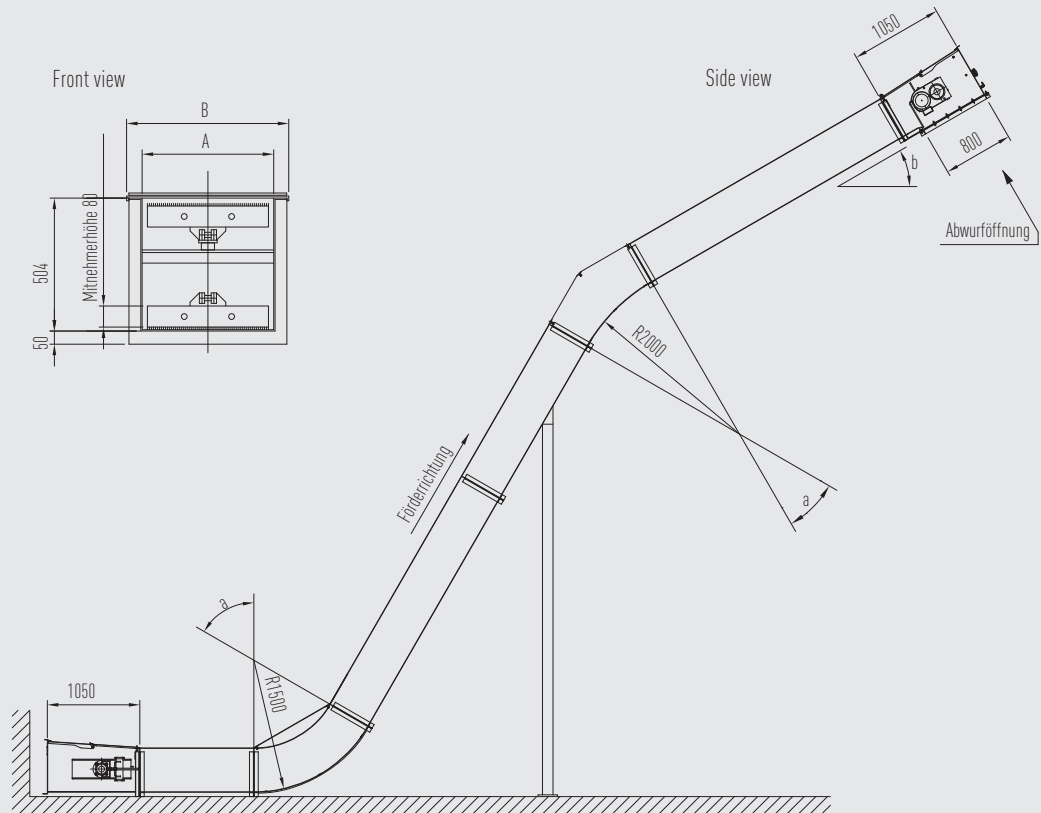
## APPLICATION

This version of Vecoplan-chain conveyors transports the material in the lower run by means of a centered conveying chain with 11.2 t breaking load. The chain runs in the return on a low-wear chain guide rail that is entirely covered in the feeding area so that no material can get into the chain.

By use of upper and lower elbows the course of chain conveyors is almost on choice. Motorical or pneumatical slides allow additional user-defined discharge positions.

Example

### KKF 1K-U



## DETAILS

		KKF 400-1K-U	KKF 500-1K-U	KKF 600-1K-U
Width of trough A	mm	400	500	600
Total width B	mm	530	630	730
Conveying capacity approx.*	m <sup>3</sup> /h	42	53	64

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\* at conveying speed of 24 m/min. and horizontal course

# KKF 400/500-1K-U/TS

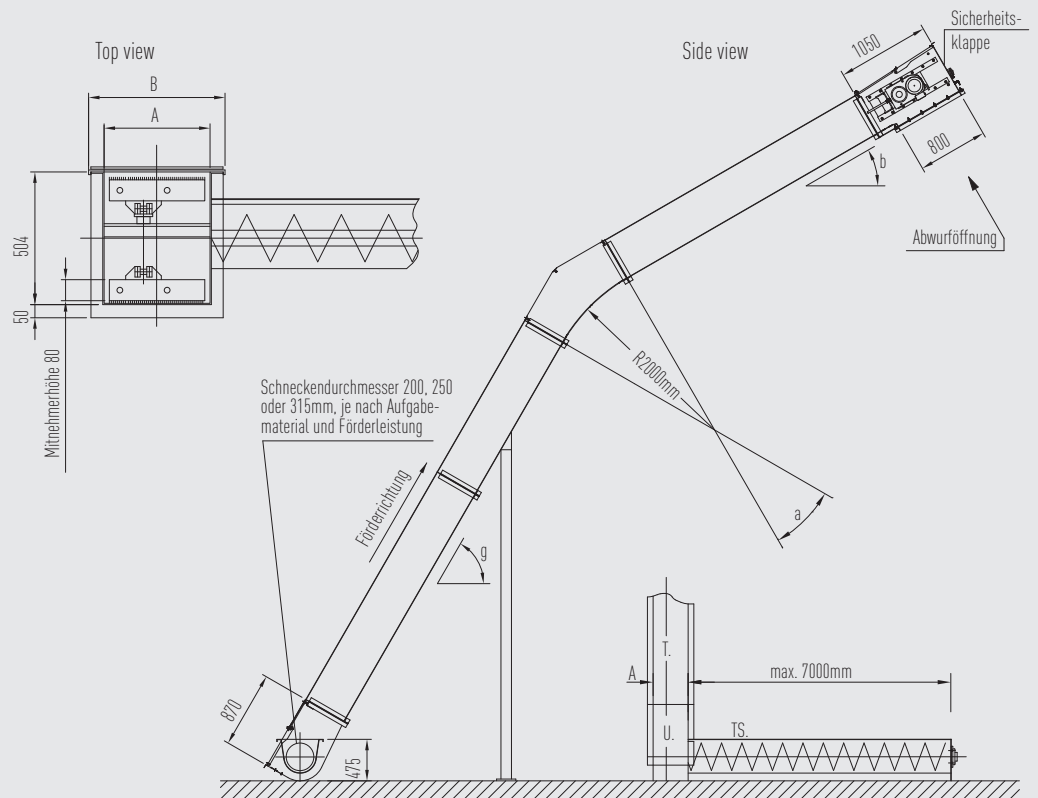
## APPLICATION

This version of Vecoplan-chain conveyors transports the material in the lower run by means of a centered conveying chain with 11.2 t breaking load. The chain runs in the return on a low-wear chain guide rail that is entirely covered in the feeding area so that no material can get into the chain. The material can e.g. be removed from a bunker by a laterally mounted screw. Further these conveyors are used e.g. after push & pull rod dischargers with appropriate discharge capacities.

By use of upper and lower elbows the course of chain conveyors is almost on choice. Motorical or pneumatical slides allow additional user-defined discharge positions.



### Example KKF 1K-U/TS



## DETAILS

		KKF 400-1K-U/TS	KKF 500-1K-U/TS
Width of trough A	mm	400	500
Total width B	mm	805	608
Conveying capacity approx.*	m <sup>3</sup> /h	42	53

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\* at conveying speed of 24 m/min. and horizontal course

# KKF-2K-U (INSIDE CHAIN)



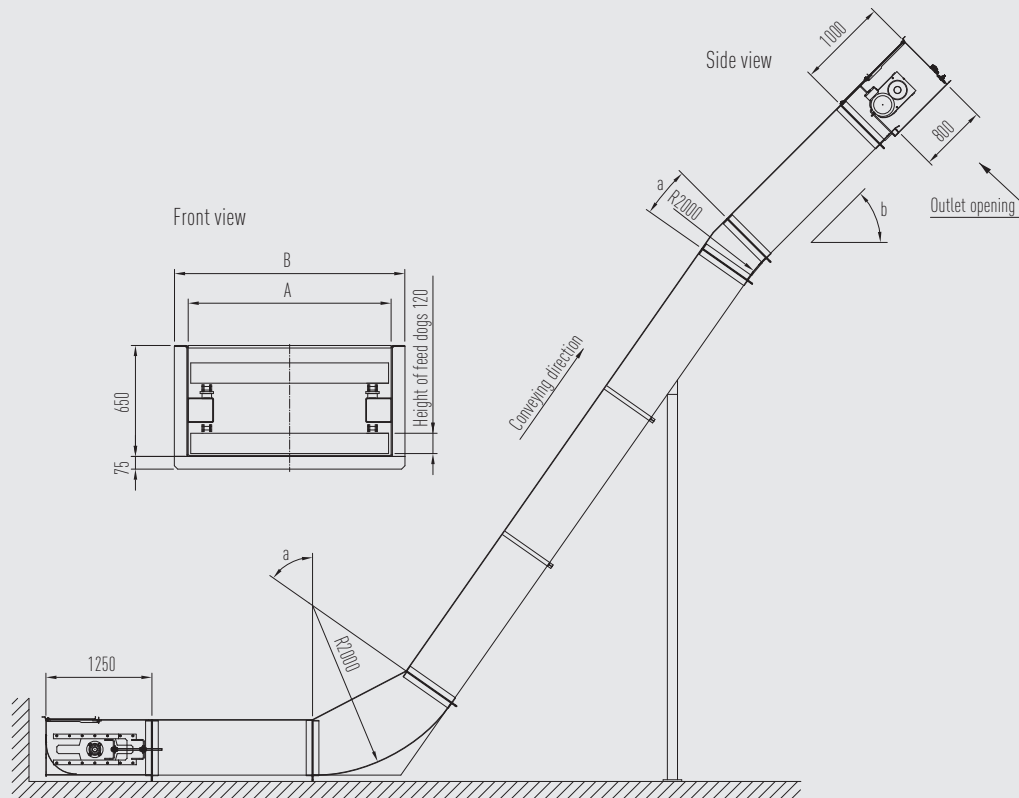
## APPLICATION

Chain conveyors with endless chains with feed dogs in closed troughs are suitable for the transport of bulky material. This version of VECOPLAN chain conveyors transports the material in the lower run by means of two inside conveying chains with 11.2 t breaking load. The chains run in the return on low-wear chain guide rails and are additionally covered in the feeding area so that no material can get into the chain.

By use of upper and lower elbows the course of chain conveyors is almost on choice. Motorical or pneumatical slides allow additional user-defined discharge positions.

Example

KKF 2K-U



## DETAILS

		KKF 800-2K-U	KKF 1000-2K-U	KKF 1200-2K-U
Width of trough A	mm	800	1000	1200
Total width B	mm	930	1130	1330
Conveying capacity approx.*	m <sup>3</sup> /h	130	165	265

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\* at conveying speed of 24 m/min. and horizontal course

# KKF-2K-U (OUTSIDE CHAIN)

## APPLICATION

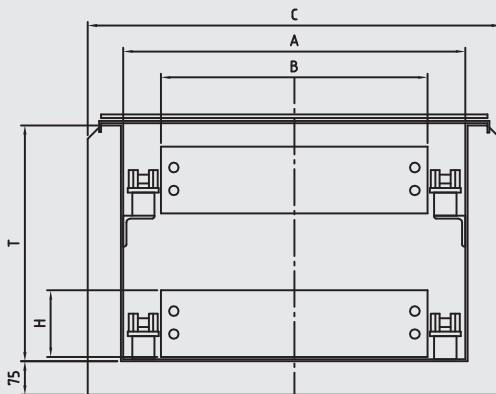
Chain conveyors with endless chains with feed dogs in closed troughs are suitable for the transport of bulky material. This version of VECOPLAN chain conveyors transports the material in the lower run by means of two outside conveying chains and is available in different designs:

- KKF 670/...-2K-U: 11.2 t breaking load
  - KKF 850/...-2K-U: 16 t breaking load
  - KKF 1800-2K-U: 22.4 t breaking load
- (robust and wear-proof design for high conveying capacities)

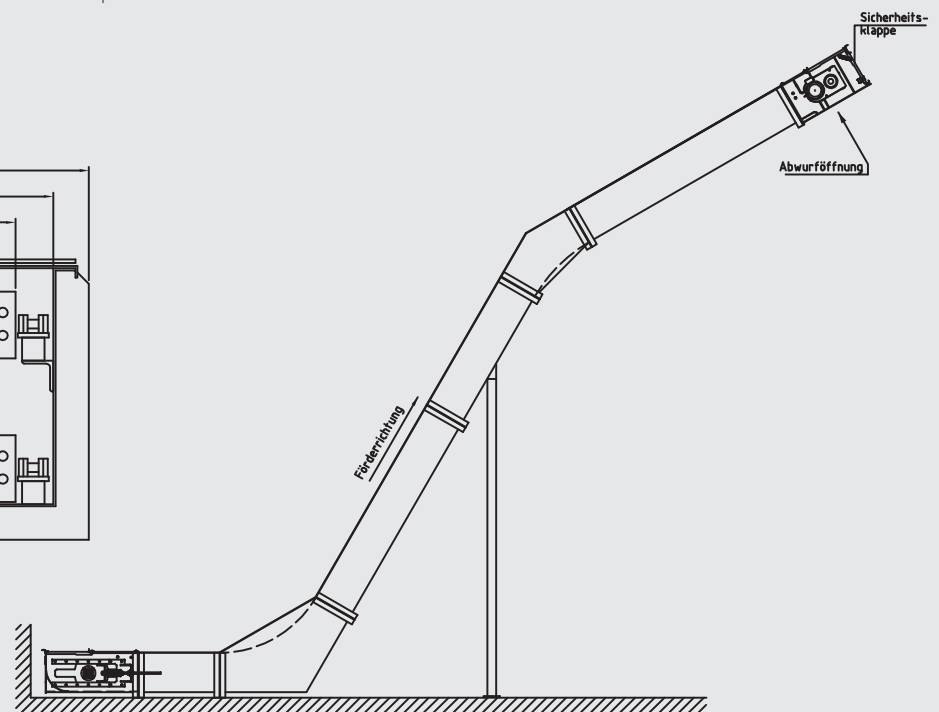
The chains run in the return on low-wear chain guide rails and are additionally covered in the feeding area so that no material can get into the chain. By use of upper and lower elbows the course of chain conveyors is almost on choice. Motorical or pneumatical slides allow additional user-defined discharge positions.



Front view



Side view



## DETAILS

		KKF 670-2K-U	KKF 820-2K-U	KKF 970-2K-U	KKF 1150-2K-U	KKF 850-2K-U	KKF 1050-2K-U	KKF 1250-2K-U	KKF 1450-2K-U	KKF 1800-2K-U
Width of trough A	mm	670	820	970	1150	850	1050	1250	1450	1800
Width of feed dogs B	mm	490	640	790	970	620	820	1020	1220	1540
Total width C	mm	830	980	1130	1310	980	1180	1380	1580	1965
Conveying capacity approx.*	m³/h	106	139	170	215	187	245	303	360	510
Height of feed dogs	mm	150				200				250
Heightened feed dogs	mm					240				300

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

\* at conveying speed of 24 m/min. and horizontal course

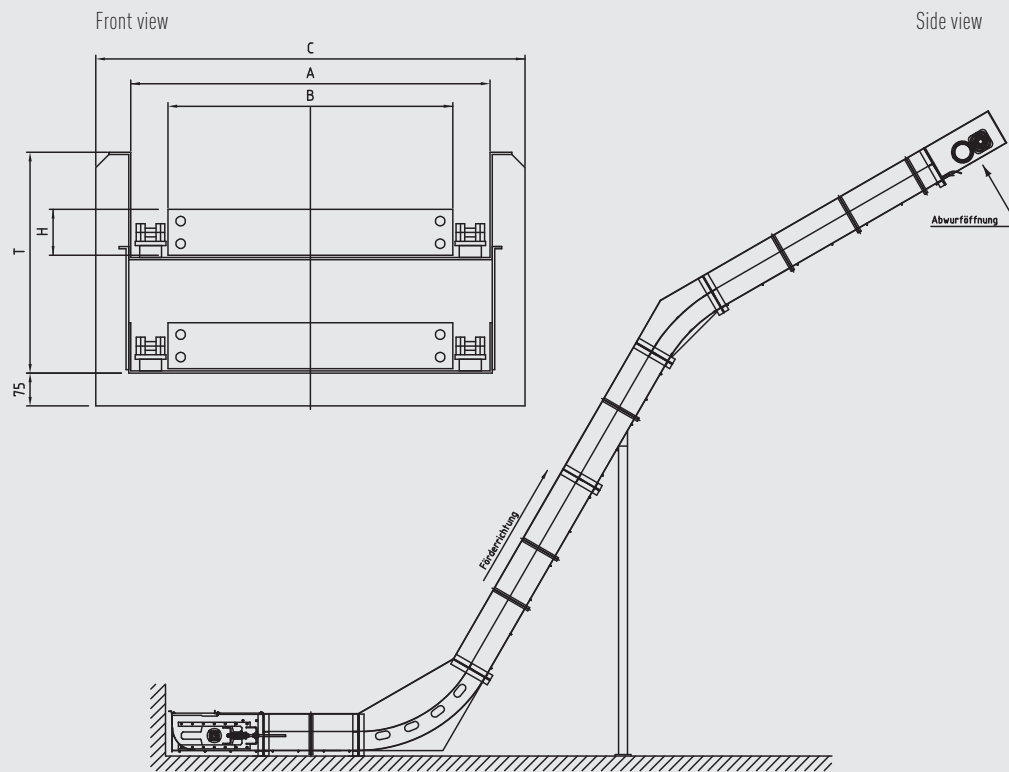
# KKF-2K-0



## APPLICATION

Chain conveyors with endless chains with feed dogs in closed troughs are suitable for the transport of bulky material. This version of Vecoplan-chain conveyors transports the material in the upper run by means of two outside conveying chains with 11.2 or 16 t breaking load.

The chains run on low-wear chain guide rails and are additionally covered in the entire conveying course so that no material can get into the chain. This version of chain conveyors is particularly suitable as a discharge conveyor e.g. after discharge silos like push & pull rod dischargers or loading-/unloading conveyors. By use of upper and lower elbows the course of chain conveyors is almost on choice.



## DETAILS

		KKF 670-2K-0	KKF 820-2K-0	KKF 970-2K-0	KKF 1150-2K-0	KKF 850-2K-0	KKF 1050-2K-0	KKF 1250-2K-0	KKF 1450-2K-0
Width of trough A	mm	670	820	970	1150	850	1050	1250	1450
Width of feed dogs B	mm	490	640	790	970	620	820	1020	1220
Total width C	mm	830	980	1130	1310	980	1180	1380	1580
Conveying capacity approx.*	m <sup>3</sup> /h	74	96	119	151	187	245	303	360
Height of feed dogs	mm	105				200			

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\* at conveying speed of 24 m/min. and horizontal course

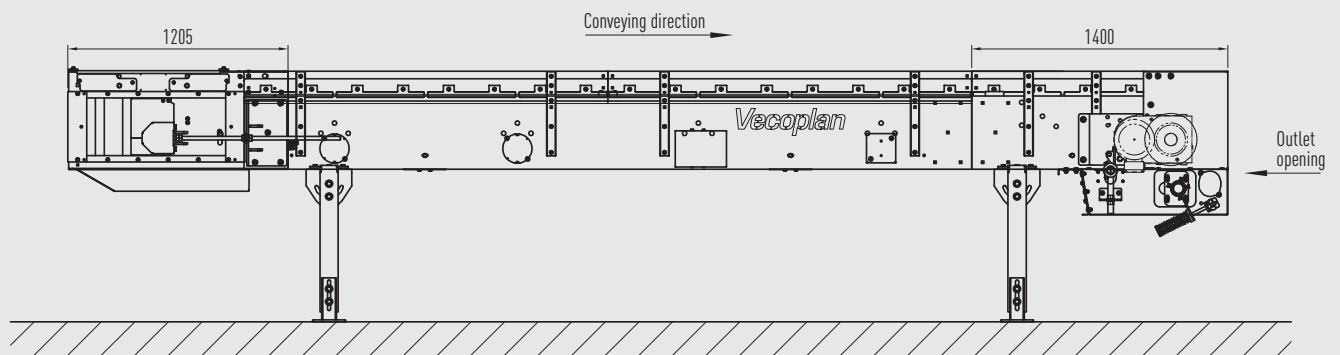
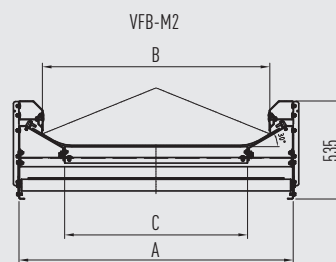
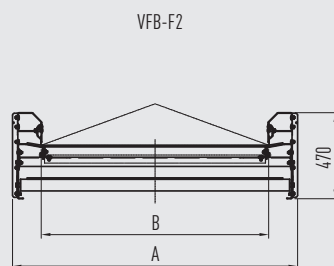


# VFB-F2 & VFB-M2

## APPLICATION

The VFB-F2 and VFB-M2 belt conveyors (M2 with 30-degree lateral trough angle) feature a particularly hard-wearing (optionally oil-resistant) rubber conveyor belt.

With a delivery rate of between 0.2 and 1.6 m<sup>3</sup>/s [F2] or rather 0.8 and 1.8 m<sup>3</sup>/s [M2] and at-attachment points for drum and belt scraper systems and safety devices such as an emergency pull cord and speed monitor, this conveyors are ideal for transporting material to and from shredders, screening machines, etc.



## DETAILS

			VFB 650	VFB 800	VFB 1000	VFB 1200	VFB 1400
Belt width	mm		650	800	1000	1200	1400
Trough width	mm		750	900	1100	1300	1500
Feeding width B	mm		494	644	844	1044	1244
Conveying capacity approx.*	F2	m <sup>3</sup> /h	78	133	230	353	502
	M2		161	265	413	586	786
Trough ground C	M2	mm	250	400	600	800	1000

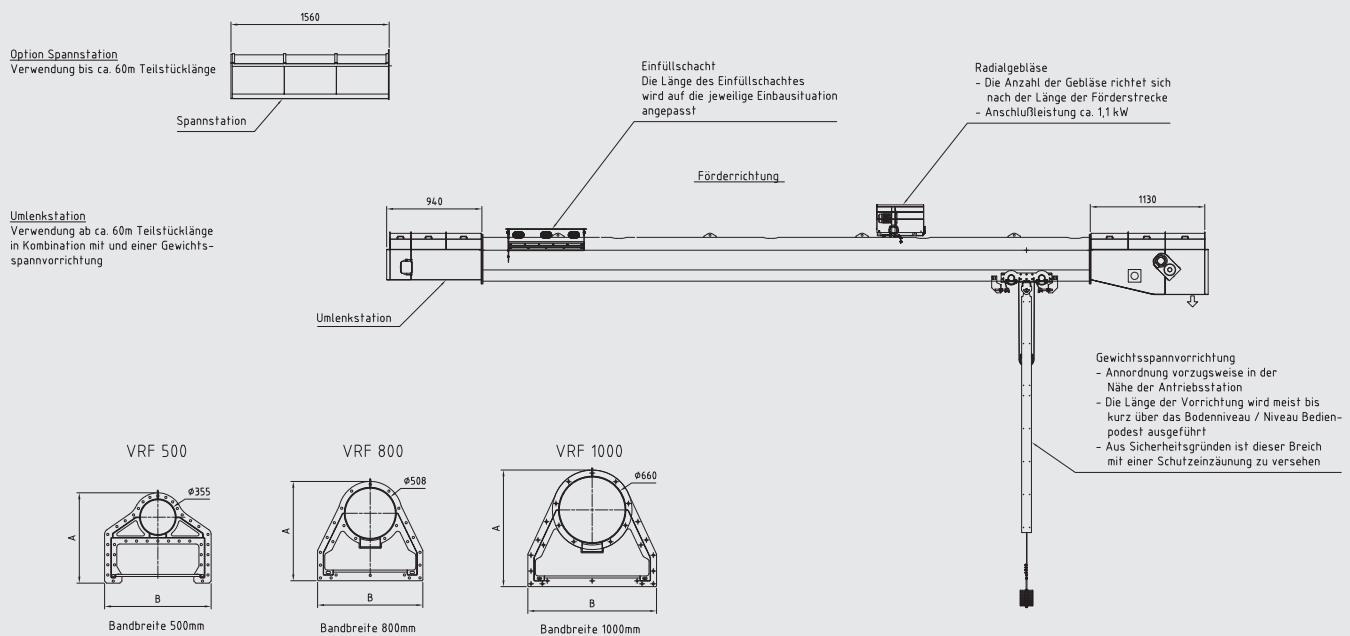
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\* with 0° gradient and conveying speed of 1 m/s. Caution: The conveying volume reduces at increasing belts.



## APPLICATION

Pipe belt conveyors (type: VecoBelt) are ideal for conveying bulk materials over long distances either horizontally or on a slight incline. The material being transported glides on a cushion of air in a closed steel tube.



## DETAILS

		VRF 500	VRF 800	VRF 1000
Belt width	mm	500	800	1000
Permanent weight (incl. belt & rolls)	kg/lfm	220	300	390
Pipe diameter	mm	355	508	660
Conveying capacity	m <sup>3</sup> /h*	360	720	1500
A	mm	890	979	1150
B	mm	1050	1038	1270

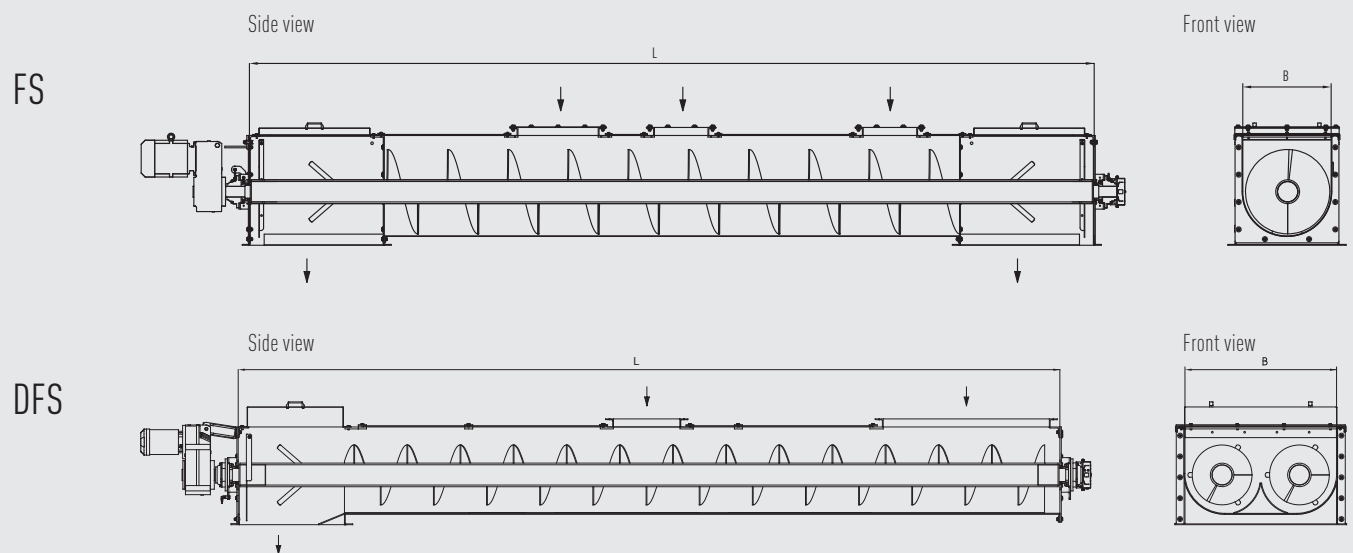
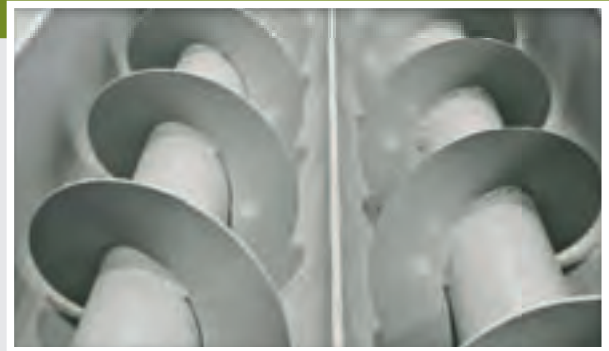
Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

\* at conveying speed of 24 m/min. and horizontal course

# SCREW CONVEYOR FS & DOUBLE SCREW CONVEYOR DFS

## APPLICATION

Screw conveyors (types: FSM, FSS and DFS) are used for dosed and uniform transportation of bulk materials, granular materials, small lumps, and also semi-moist and fibrous materials. Installation can be horizontal or at an incline.



## DETAILS

		FS 250	FS 315	FS 400	FS 500	FS 630	FS 800	FS 1000
Screw diameter	mm	250	315	400	500	630	800	1.000
max. length (L)	mm	7.000	7.000	8.000	9.000	10.000	10.000	10.000
Width of trough (B)	mm	270	340	430	530	660	830	1.030
Conveying capacity max. *	m <sup>3</sup> /h	75	95	150	230	350	500	750

## DETAILS

		DFS 2x250	DFS 2x315	DFS 2x400	DFS 2x500	DFS 2x630
Screw diameter	mm	2x250	2x315	2x400	2x500	2x630
max. length (L)	mm	7.000	7.000	8.000	9.000	10.000
Width of trough (B)	mm	600	690	870	1.070	1.330
Conveying capacity max. *	m <sup>3</sup> /h	135	170	270	410	630

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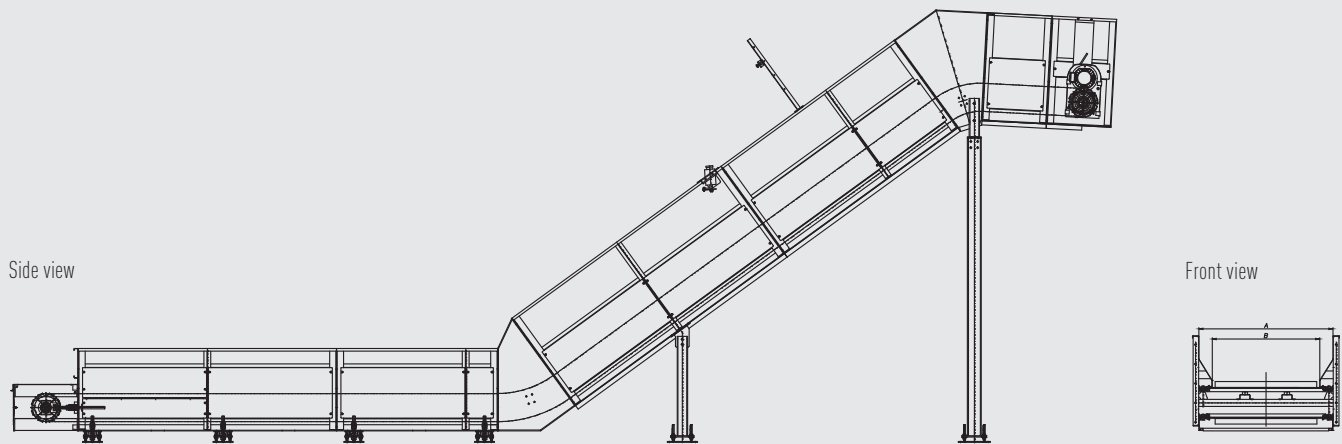
\* depends on material and gradient

# CHAIN BELT CONVEYOR



## APPLICATION

Our chain belt conveyor (type KGF) is designed to receive or feed medium to heavy-weight bulk materials or piece goods, primarily in the paper and recycling industry. A range of models are available and it can be used with a gradient of up to 35 degrees. In addition, a version with several bends is available. Extremely stable: steel carriers are bolted to the rubber belt, while bush conveyor chains provide the necessary traction.



## DETAILS

		KGF 800	KGF 1000	KGF 1200	KGF 1400	KGF 1600	KGF 1800	KGF 2000
Belt width	mm	800	1000	1200	1400	1600	1800	2000
Width of trough top A	mm	950	1150	1350	1550	1750	1950	2150
Width of trough top B	mm	650	850	1050	1250	1450	1650	1850
Conveying capacity approx.	m <sup>3</sup> /h *	180	225	265	310	350	395	435

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

\* depends on material, conveying speed and fill height

# VIBRATING CONVEYOR VR

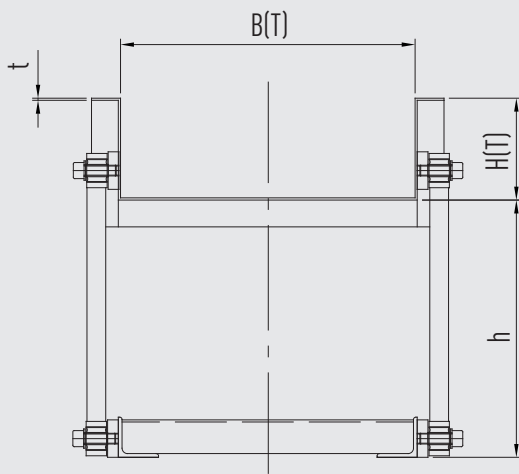
## EINSATZGEBIETE

Horizontal conveying of lumbers and wood waste occurring in characteristic carpenter's and joiner's workshops, as well as plastics and paper. Larger series also available for log wood and trimmings.



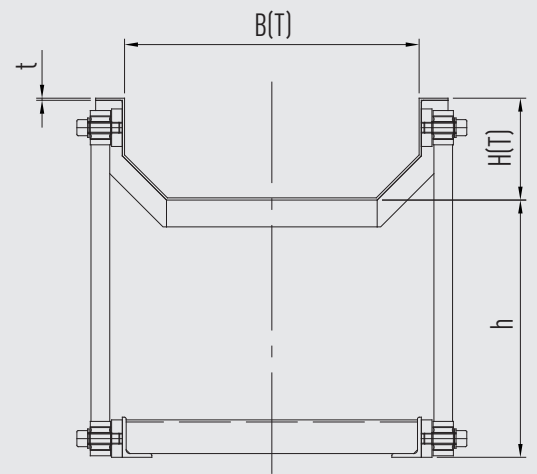
Front view

Standard trough

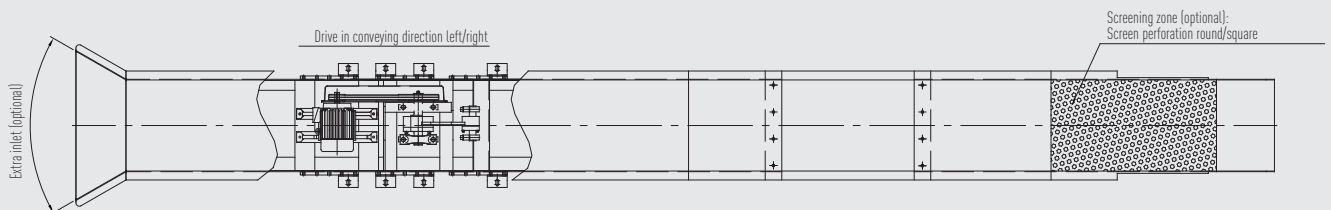
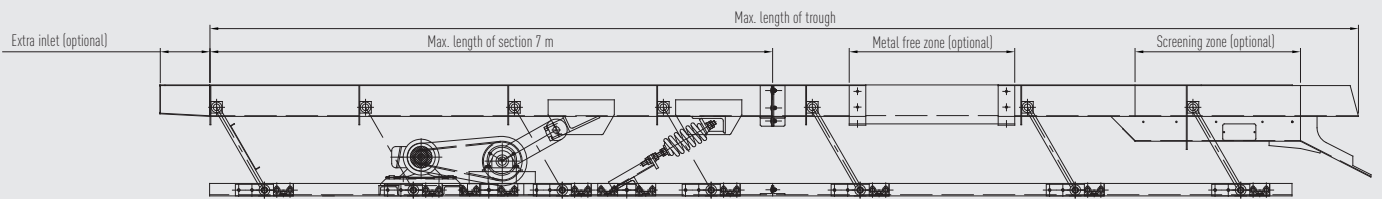


Front view

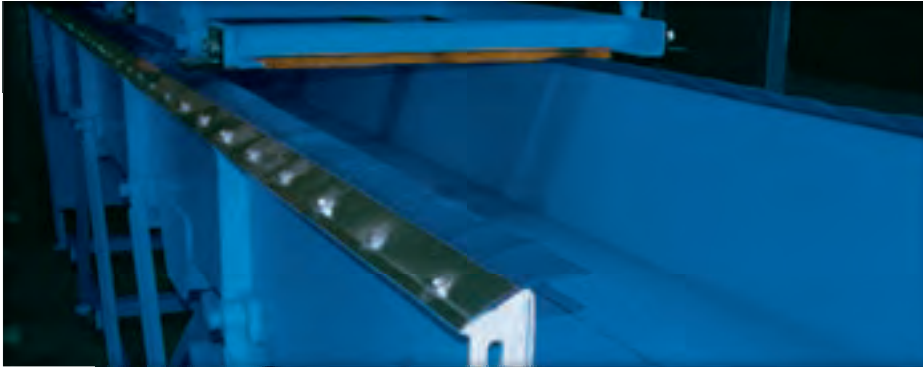
Trapeziform cross section of trough (optional)



Side view



# VIBRATING CONVEYOR VR



## DETAILS

		Series 8	Series 12	Series 15	Series 18	Series 20	Series 25	Series 27	Series 30
Width of trough "B(T)"	mm			450			450		520
		350		550			550		620
		450		650			650		720
		550		750			750		820
		650		850			850		920
		750		950			950		1020
		850"		1050			1050		1120
				1150			1150		1220
		1250			1250		1320	1420	
									1520
									1620
Max. length of trough	mm	28.000							
Height of trough "H(T)"	mm	120	160	190	220	240	260	310	340
Headroom up to bottom plate trough "h"	mm	400	430	480	470	470	490	470	540
Max. motor power	kw	5,5							

## Optional

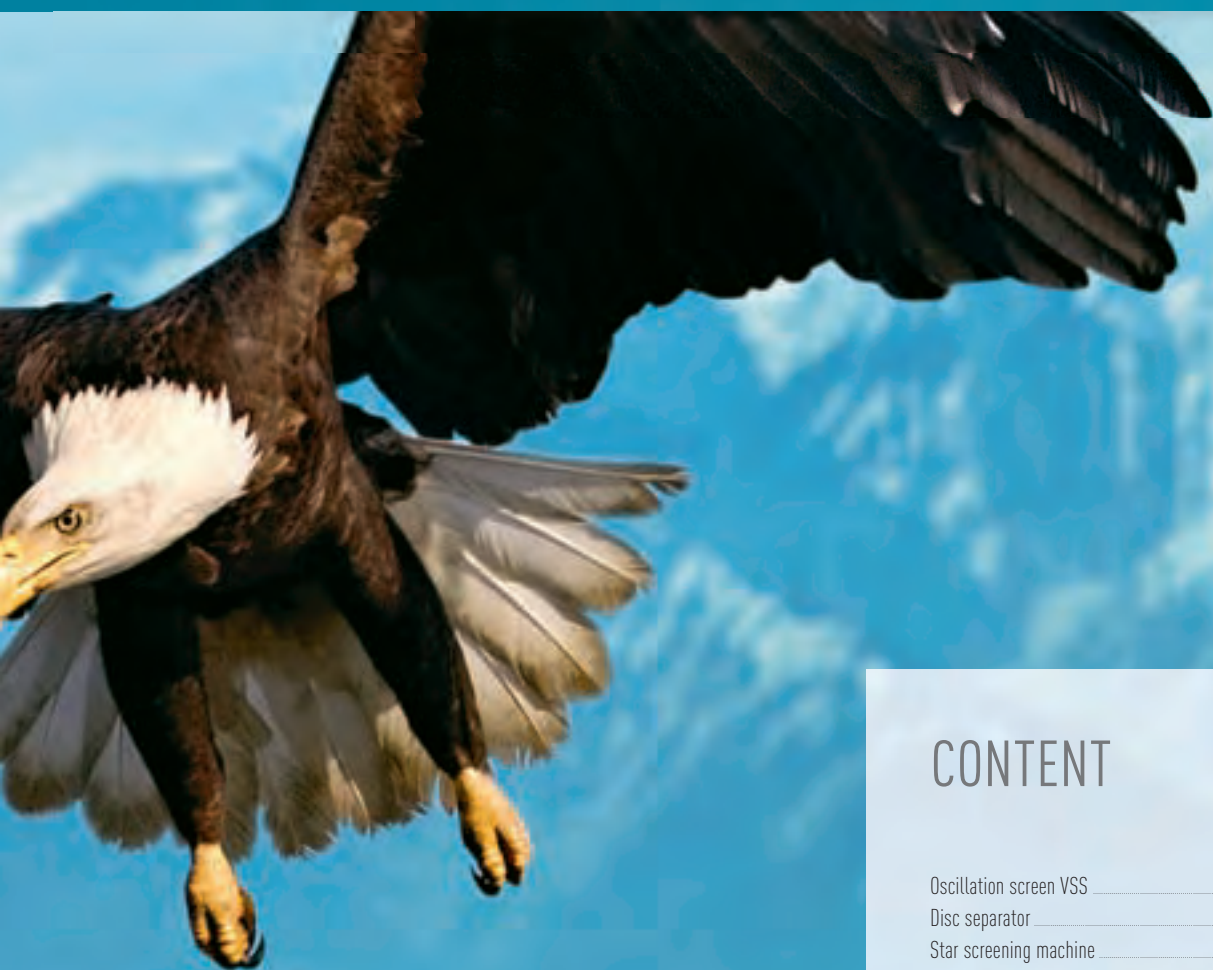
- Trapeziform cross section of trough
- Screening zone (perforation: square/round/stud perforation, fins)
- Metal free zone
- Extra inlet
- Extra outlet
- Trough conveyor inclined
- Trough conveyor sloping
- Operation control
- Mounting parts available (e.g. metal detector, vibrating feeder chute, etc.)

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012



# WE DON'T MISS A THING

GETTING THE MOST OUT OF EVERYTHING



## CONTENT

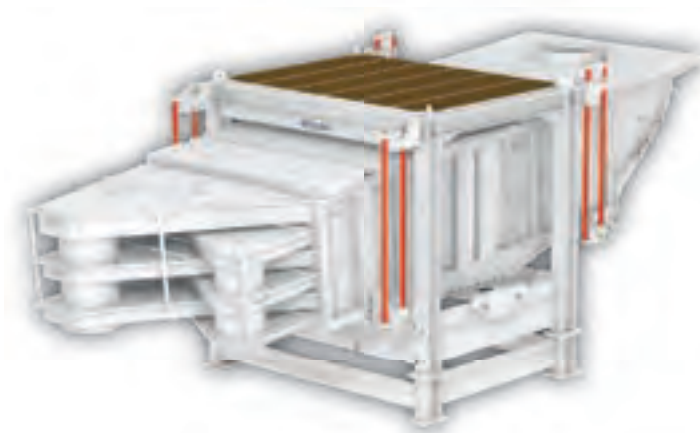
Oscillation screen VSS .....	75
Disc separator .....	76
Star screening machine .....	77
Oversize separator .....	78
Drum screen .....	79



# GETTING THE MOST OUT OF EVERYTHING

## SCREENING MACHINES – POWERFUL SEPARATION OF VARIOUS MATERIALS

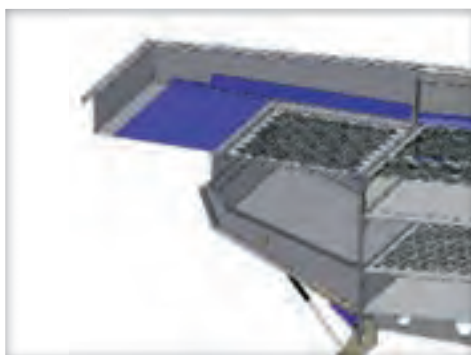
A wide range of technologies for screening assures a powerful separation of waste wood, old wood, domestic and commercial waste, dry stabilate and many more materials. With one product you can separate up to four different fractions. The screening machines are integrated into the conveying process, so you have an effective separation in a short process line. The sorting of rough materials provides a trouble-free process of downstream conveyors and complete plants (e.g. heating plants).



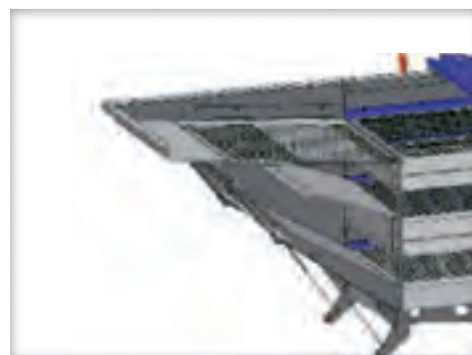
### OSCILLATION SCREEN

Application at saw mills, for high capacities up to 250 m<sup>3</sup>/h.  
Screening of up to 7 fractions.

VSS Oscillation screens are generally the perfect solution for screening sawmill waste such as wood chips, sawdust, wood shavings (animal bedding), bark, alternative fuel (RDF), etc. and particle sizes up to approx. 100 mm (occasional overlengths up to 500 mm) into several fractions and for separating fines and overlengths from wood shavings (for production of animal bedding) or mineral fractions from old wood and for making other quality improvements to materials for recycling or thermal treatment. They essentially consist of circular oscillating screening boxes suspended on rubber mountings in a steel frame.



72 Double-deck



Tripple-deck

#### Options

Increasing of throughput capacity and improvement of the screening results due to application of double- and tripple-deck.

## DISC SEPARATOR

Versatile applicable, for separation of materials such as old wood, comminuted biomass or municipal waste.

The light version of the disc separator is particularly efficient at separating overlenghts from single materials such as dry stabilate (clean fuel for power plants etc. derived from domestic waste), bark, green waste and fresh wood. It can be used for cross cuts of between 50 mm and 300 mm. To prevent jamming, the discs can be flexibly mounted with this version.

The heavy disc separator is highly effective for separating overlenghts from abrasive material (domestic and commercial refuse, old wood). It can be used for cross cuts of between 50 mm and 300 mm. A horizontal belt conveyor ensures optimum direct feed at the level of the screening shafts.

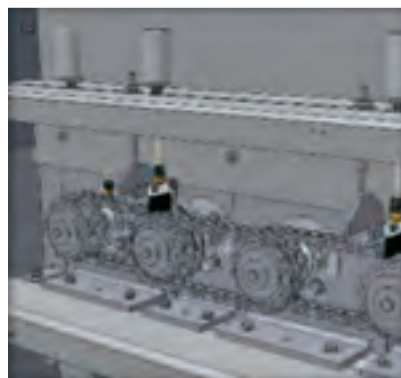
Alternatively, material can also be introduced via a feed hopper in the flow direction. The disc separator consists of a solid sectional steel construction on which the screening shafts, bearings and drive elements are mounted. The separator has a segmental construction – one drive per segment. The number of segments can be adapted to suit your requirements.



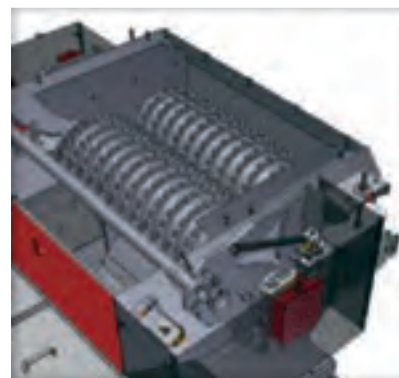
### Options



Flexible bearing of discs

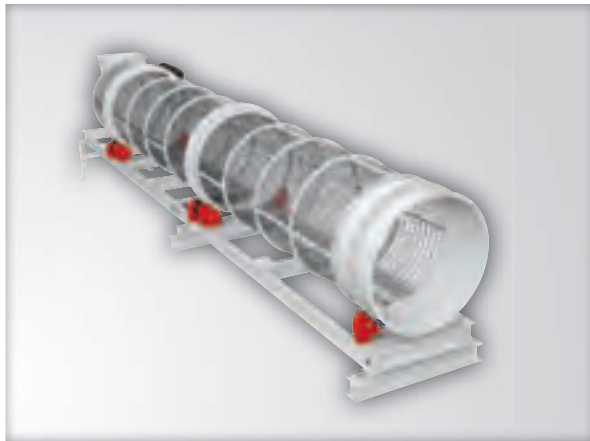


Lubrication of bearings and chains  
(central lubrication optional)



Top on feed hopper - reduces the required screen size and increases the throughput capacity

# GETTING THE MOST OUT OF EVERYTHING



## DRUM SCREEN

The drum screen is primarily used at sawmill and at the processing of compost for a maximum throughput capacity of 100 m<sup>3</sup>/h with a sorting of up to four different fractions. Possible installation above storing silos.

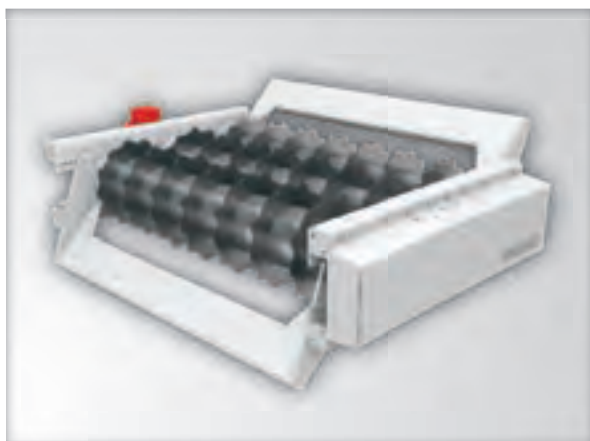
The drum screen is adjustable at incline for the adaption and regulation of flow velocity and screening capacity. The feeding hopper is supported separately. The robust screen drums of grinded steel rings can be adapted to the input materials for up to four fractions. They are easy to change due to screwed half-screens. The drum screen is low-maintenance and has got low-priced wearing parts.



## STAR SCREENING MACHINE

The star screening machine is very efficient at separating all bulk materials – overlengths up to roughly 1.000 mm – and is particularly suitable for screening overlengths in sawmills.

It is constructed from sheet steel and has several in-line horizontal shafts, on which intermeshing screening stars are mounted. The bulk material is transported horizontally by the rotary motion of the shafts and the fines fall through the gap between the shafts and screening stars.



## OVERSIZE SEPARATOR

Application at pre-screening, for the separation of oversized wood. For a trouble-free process of downstream conveyors and heating plants.

The ideal feeding results from a horizontal chipper feeding conveyor, that feeds material on a level with the rolls. Alternatively the feeding in combination with a drag chain conveyor (in direction of flow) is possible. The oversize separator is applied for separating cuts from 80 to 500 mm.

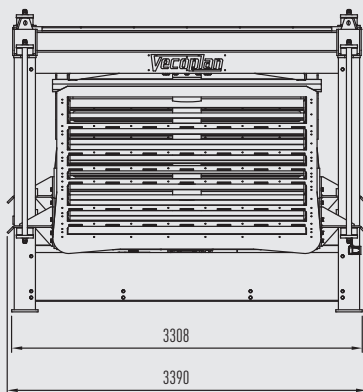
# OSCILLATION SCREEN VSS



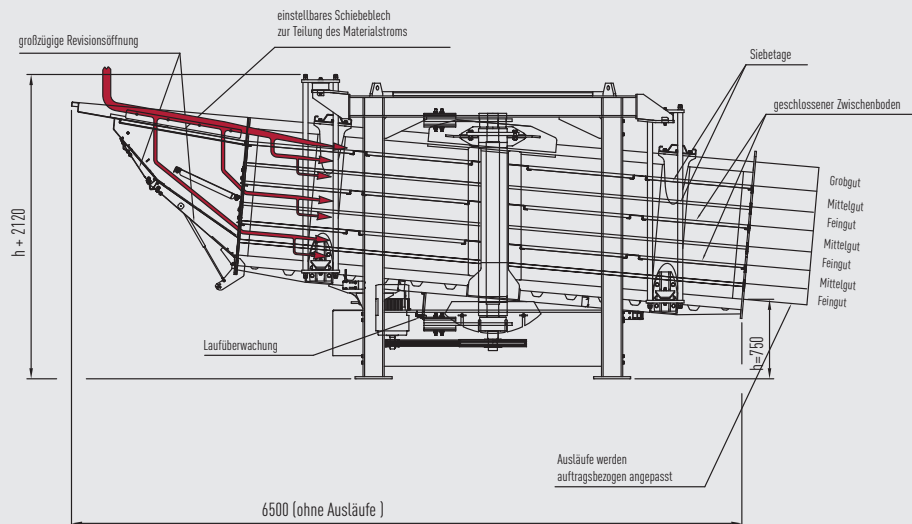
## APPLICATION

Screening of sawmill waste like wood chips, sawdust, wood shavings (animal bedding), bark, chipboard, softwood, plywood waste as well as all kinds of other wood waste.

Front view



Side view



## DETAILS

		VSS
Screen surface each floor	m <sup>2</sup>	1,5 / 3 / 6 / 9
Swinging radius approx.	mm	70-80
Swinging frequency	rpm	190
Screening capacity	m <sup>3</sup> /h	< 250
Motor power	kW	3 - 11
Weight approx.	kg	< 11.000

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

\* Depending on input material and screen perforation

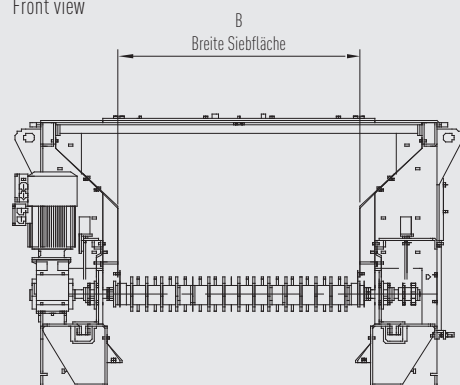
# DISC SEPARATOR

## APPLICATION

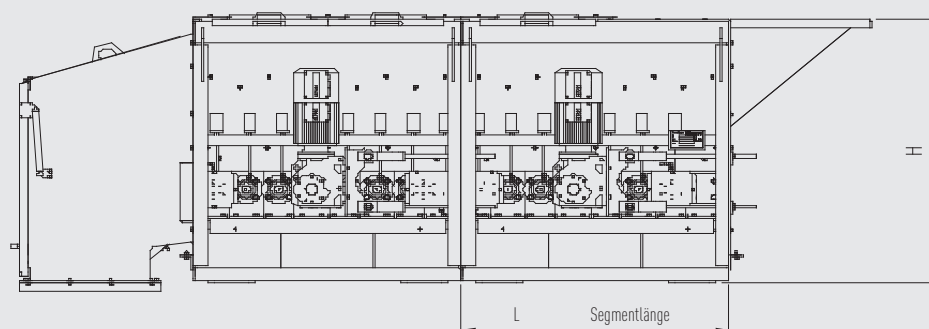
The disc separator is especially suitable for the separation of overlength parts out of sorted material like dry stabilate, bark, green cut, wood, etc. The flexibly mounted discs reduce jamming of the conveying material. Customized length due to segment construction.



Front view



Side view



## DETAILS

		Standard		Heavy design	
length of segment	mm	1.150	1.150	1.600	1.600
Width screening surface	mm	1.000	1.250	1.250	1.600
Height of screen	mm	1.385	1.385	1.350	1.350
Screening capacity	m <sup>3</sup> /h	depends on material, screen size and number of segments			
Cross cut from – to	mm	30 - 500	30 - 500	50 - 300	50 - 300
Motor power per segment	kW	3	3	7,5	7,5

**Optionally:** Central lubrication system for bearing and chain drive

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\* Depending on input material and screen perforation

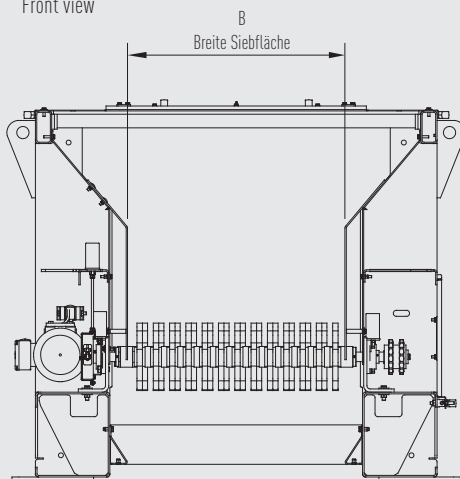
# STAR SCREENING MACHINE



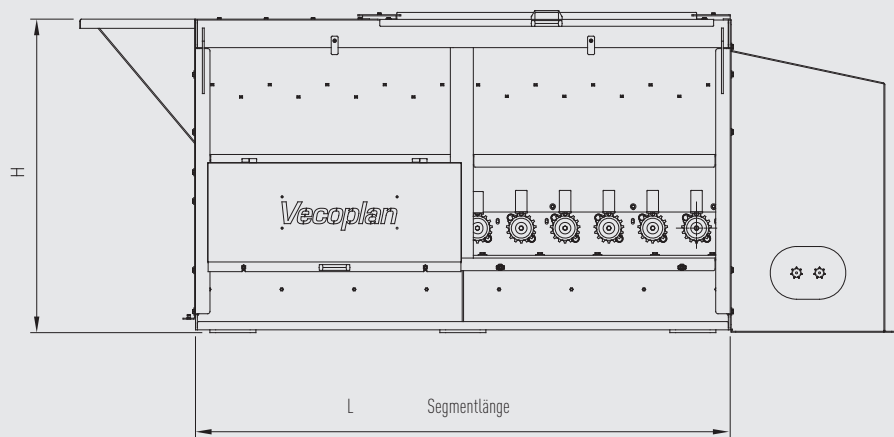
## APPLICATION

The star screening machine is particularly suitable for use in sawmills for screening of overlengths parts. This generally includes screening of overlengths parts out of sawdust, shavings and wood chips.

Front view



Side view



## DETAILS

		Type 600/1500	Type 800/2200	Type 1200/4000
Length screening surface	mm	1.500	2.200	4.000
Width screening surface	mm	600	800	1.200
Height of screen	mm	1.400	1.400	1.400
Screening capacity	m <sup>3</sup> /h	60	120	300
Standard cross cut	mm	50	50	50
Motor power	kW	1 x 3	2 x 3	3 x 3
Weight	kg	1.200	2.000	4.000

**Optionally:** Central lubrication system for bearing and chain drive

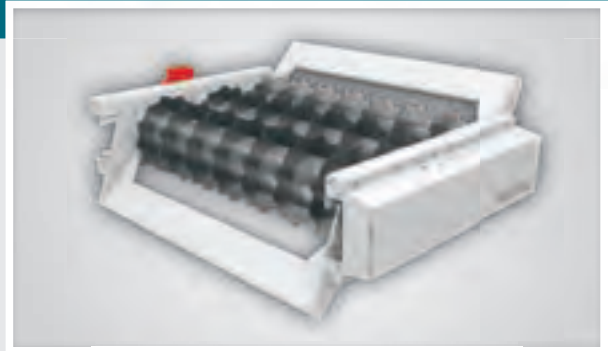
Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

\* Depending on input material and screen perforation

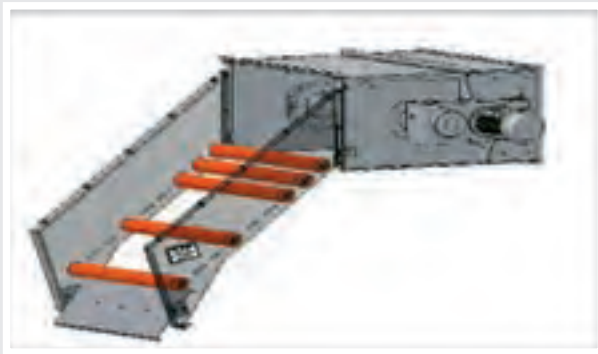
# OVERSIZE SEPARATOR

## APPLICATION

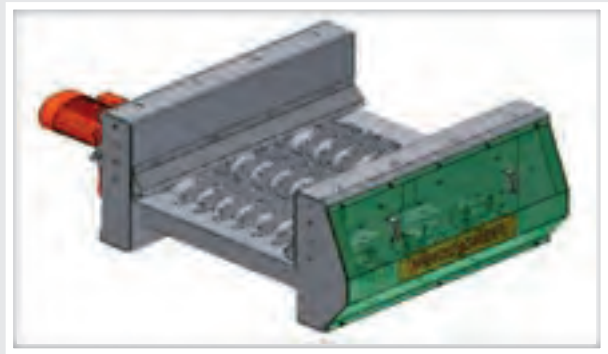
The oversize separator is used for pre-screening of material overlenghts and guarantees a trouble-free processing of the downstream conveyors. It is applied for separating cuts from 80 to 500 mm.



**Type A** – for connection to KKF or belt conveyor



**Type B** – without motor



**Type C** – integrated in a chipper infeed belt conveyor

## DETAILS

		Type A	Type B	Type C
Number of rolls	Stk	min. 3	min. 3	min. 3
Width		adjusted to conveyor		
Screen capacity	m <sup>3</sup> /h	depends on material and screen size		
Screen size from - to	mm	150 - 500	250 - 500	80 - 200
Motor power	kW	2,2 - 4	without	4 - 7,5

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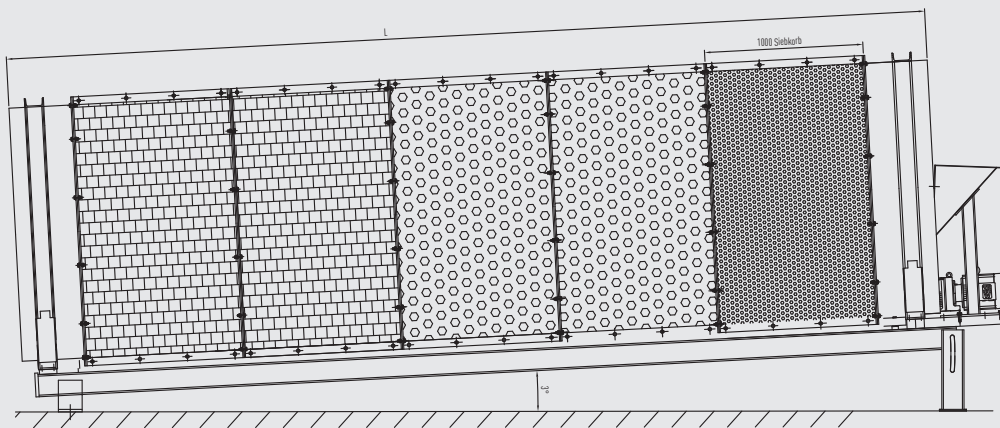
# DRUM SCREEN



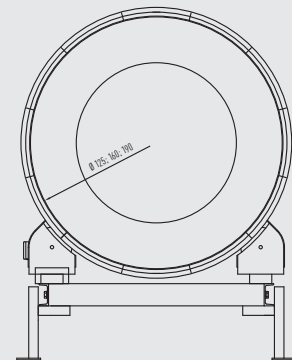
## APPLICATION

The drum screen is primarily used at sawmills and at the processing of compost. Several fractions can be sorted with a max. throughput capacity of 100 m<sup>3</sup>/h.

Side view



Front view



## DETAILS

		VTS 125	VTS 160	VTS 190
Drum diameter	mm	1.250	1.600	1.900
length of segment	mm	1000	1.000	1.000
Screen capacity	m <sup>3</sup> /h	depends on material, screen size and number of segments		
Screen size from - to	mm	5 - 40	5 - 40	5 - 40
Motor power	kW	3	4	5,5

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# CONTENT

Permanent magnetic drum PMT	82
Permanent tubular magnet PRM	83
Overbelt magnetic separator VÜB	84
Non-ferrous metal separator VNES	85
Flat coil	86
Tunnel coil	87

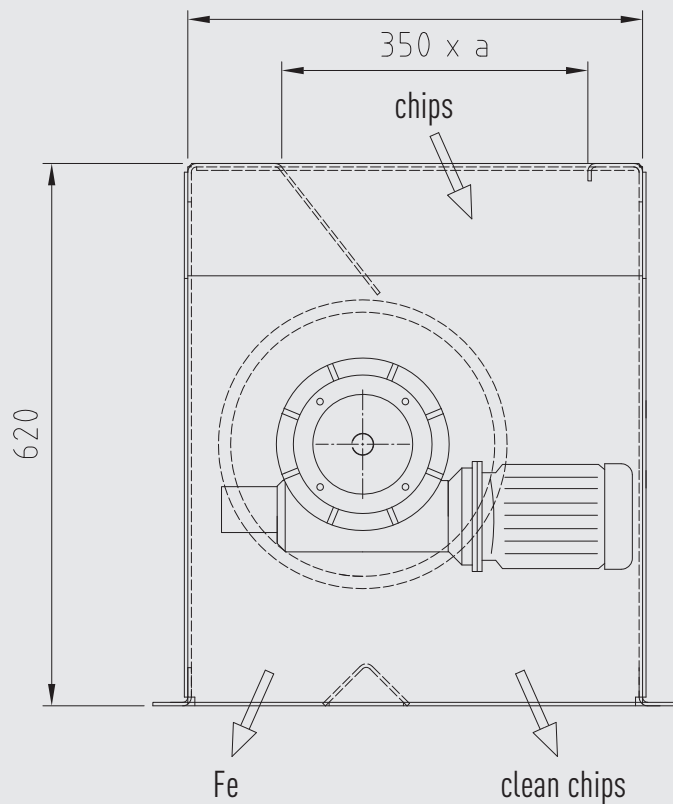
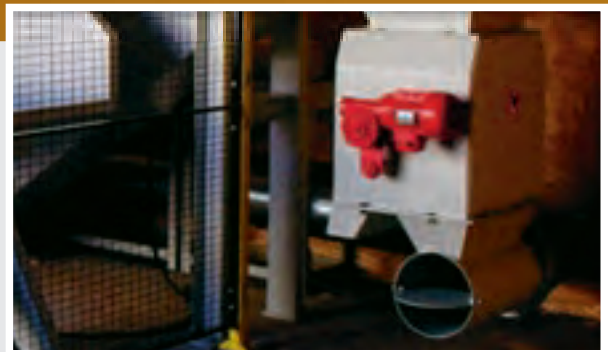
## WE SEPARATE ACCORDING TO YOUR APPLICATION

FOCUSING ON THE ESSENTIAL

# PERMANENT MAGNETIC DRUM PMT

## APPLICATION

Our permanent magnetic drums can be installed downstream of a conveyor, e.g. trough chain conveyor, conveyor belt or vibrating conveyor. They are ideal for separating magnetisable ferrous metal parts from comminuted material.



## DETAILS

		PMT			
Drum diameter	mm	320			
Opening width "a"	mm	375	500	600	800
Motor power	kW	0,37			
Max. capacity approx.	m <sup>3</sup> /h	30	40	45	50

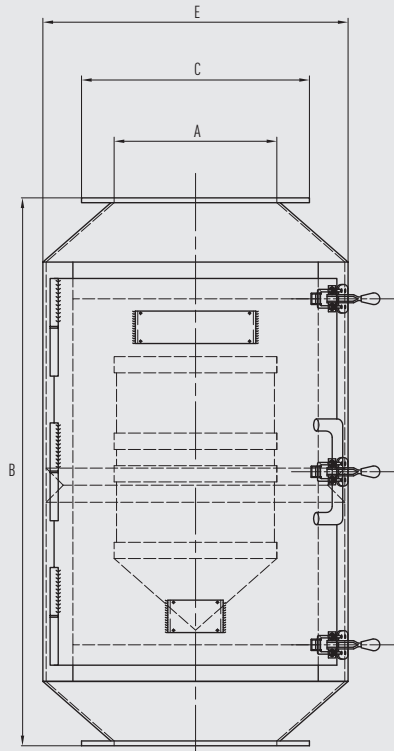
Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012

# PERMANENT TUBULAR MAGNET PRM



## APPLICATION

Our permanent tubular magnet can magically attracts ferrous metals thanks to the integrated permanent magnet that maintains its static magnetic field without having to be energised. And, what's more, it can be installed in the extraction line itself, preferably in the horizontal or rising line, where it quickly and efficiently separates any magnetisable ferrous metal parts that may be present.



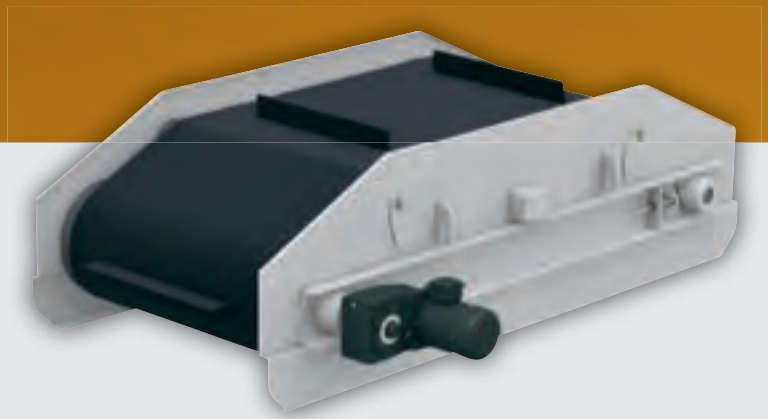
## DETAILS

		PRM							
A	mm	100	150	200	250	300	400	500	
B	mm	550	600	650	750	850	950	1100	
C	mm	180	230	280	330	400	500	600	
E	mm	220	275	345	430	485	620	780	
F	mm	240	310	405	490	550	665	770	
Capacity	t/h*	6	20	50	75	100	150	200	
Weight	kg	25	39	91	127	171	286	480	

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\* Applies to granular / globular products

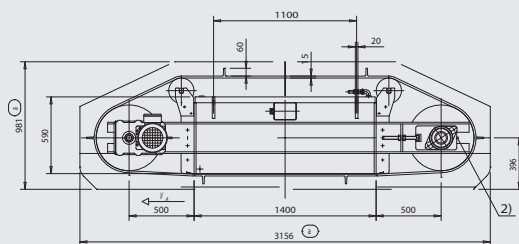
# OVERBELT MAGNETIC SEPARATOR VÜB



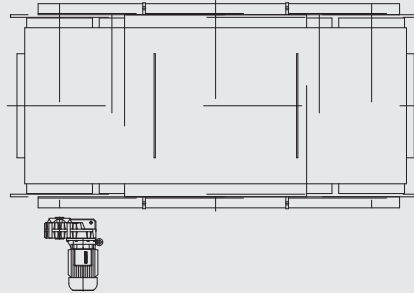
## APPLICATION

For efficient separation of coarse ferrous metal parts, our overbelt magnetic separator can be installed directly in conveying lines, preferably at the transfer point between a belt conveyor or vibrating conveyor and a subsequent conveyor.

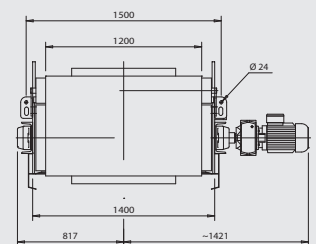
Side view



Top view



Front view

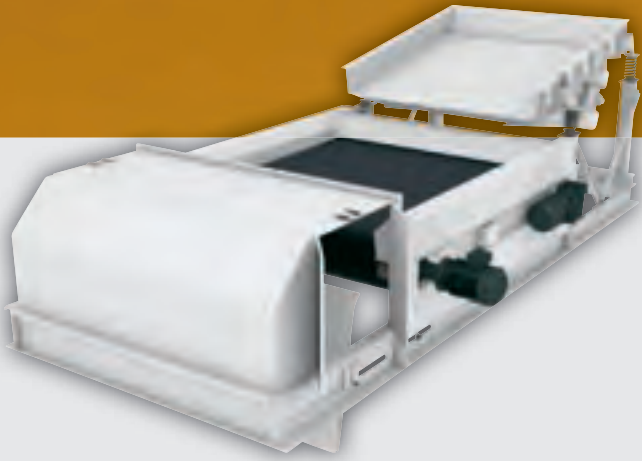


## DETAILS

			VÜB				
			751 J	1001 N	1201 Q	1601 T	2201 V
Dimensions	A	mm	750	1000	1200	1600	2200
	B	mm	470	495	565	605	645
	D	mm	547	551	608	690	730
	E	mm	1952	2384	2584	3286	3886
	J	mm	850	110	1300	1700	2340
	L	mm	1393	1678	1878	2451	3051
Magnet power		kW	2,12	3,34	4,74	7,56	12,77
Motor power		kW	1,5	2,2	2,2	4,0	7,5
Max. width of belt conveyor		mm	800	1000	1200	1600	2200
Weight		kg	1250	1800	3100	5700	10800

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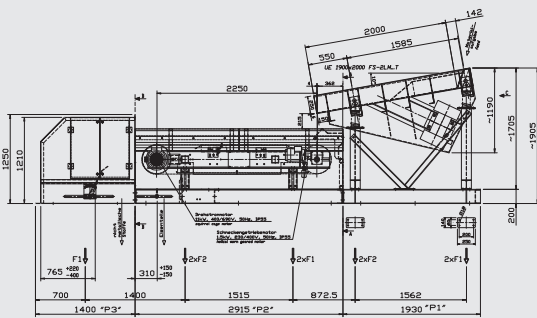
# NON-FERROUS METAL SEPARATOR VNES



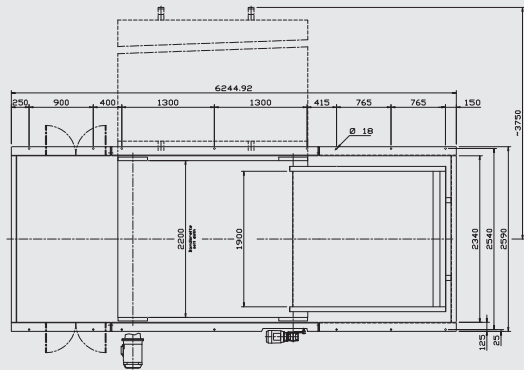
## APPLICATION

The non-ferrous metal separator effortlessly separates non-ferrous metal, such as copper, zinc, bronze and brass, from wood, domestic refuse, plastics, etc. It must, of course, be integrated into the conveying line.

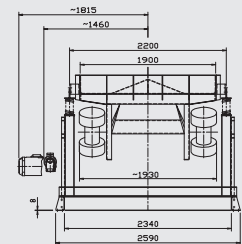
Side view



Top view



Front view



## DETAILS

		VNES			
		INP 400x500	INP 400x1000	INP 400x1500	INP 400x2000
Trough width A	mm	400	900	1400	1900
Magnet width B	mm	500	1000	1500	2000
C	mm	840	1340	1840	2340
D	mm	500	750	1000	1250
E	mm	950	1200	1550	1800
F	mm	1500	2200	3000	3700
Motor power	kW	3	4	7,5	11
Weight	kg	1400	2000	2600	3200

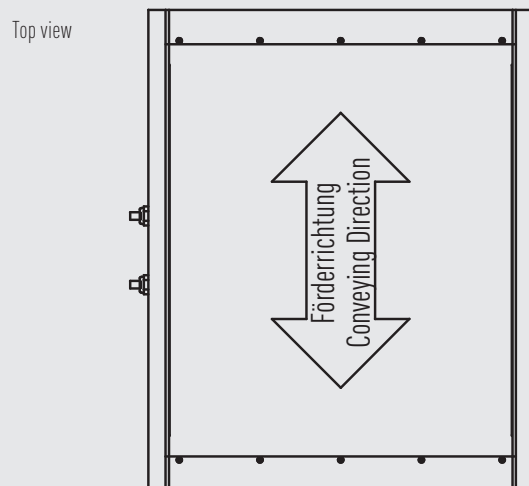
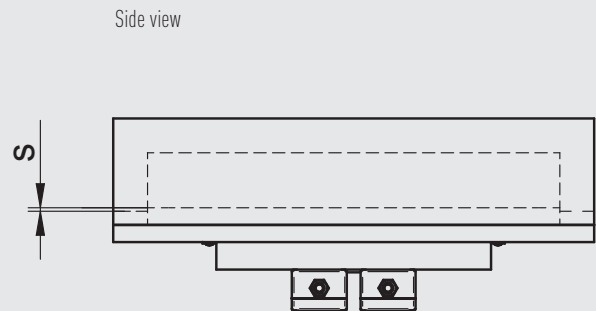
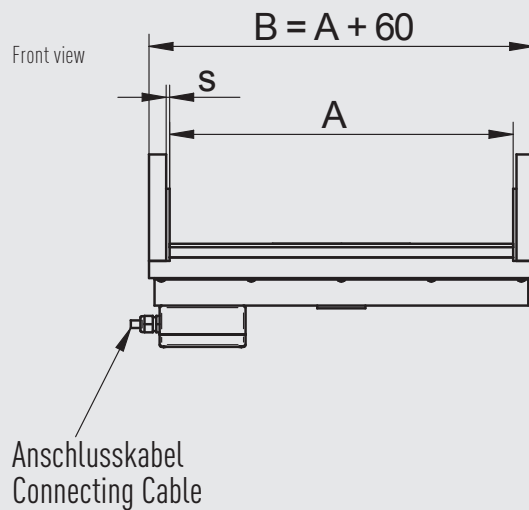
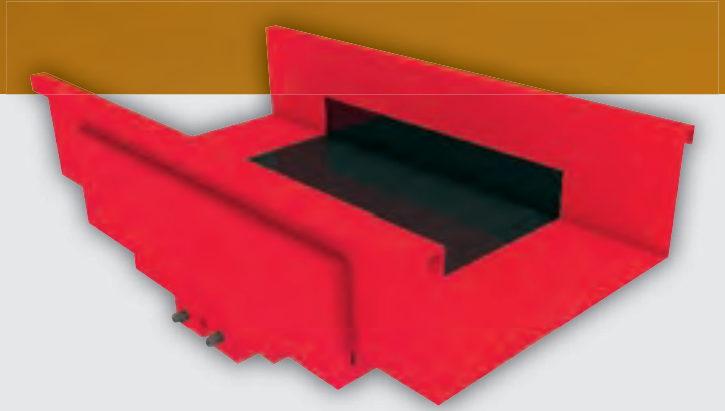
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# FLAT COIL

## APPLICATION

Flat coils are used for chippers (up to series 15) for the detection of ferrous foreign parts. This design is integrated into a conveying trough. There is no need of a metal-free zone (wood trough) as for tunnel coils. The full automatic system control alerts any malfunction at the metal detector (incl. warning light and horn).

Metal detectors serve to protect shredders and other machines by preventing metal from entering in the feedstock. Different versions of metal detectors are available – as detector coils mounted below conveyors, directly integrated in conveyors or as fully enclosed detector coils with inlet dimensions up to 1,000 mm x 2,000 mm.



A = Trough width  
B = Total width  
s = wall thickness

# TUNNEL COIL

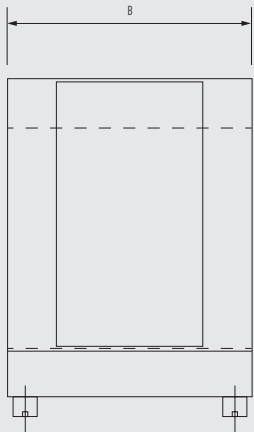


## APPLICATION

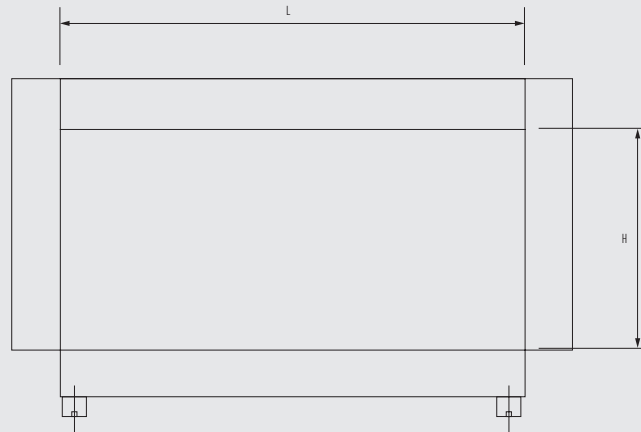
Tunnel coils are used for chippers (over series 15) for the detection of ferrous foreign parts at non- or minimal-conductive materials. This design is built a vibration-reducing construction on supports around a metal-free zone (wood trough) of a conveyor.

Metal detectors serve to protect shredders and other machines by preventing metal from entering in the feedstock. Different versions of metal detectors are available – as detector coils mounted below conveyors, directly integrated in conveyors or as fully enclosed detector coils with inlet dimensions up to 1,000 mm x 2,000 mm.

Front view



Side view

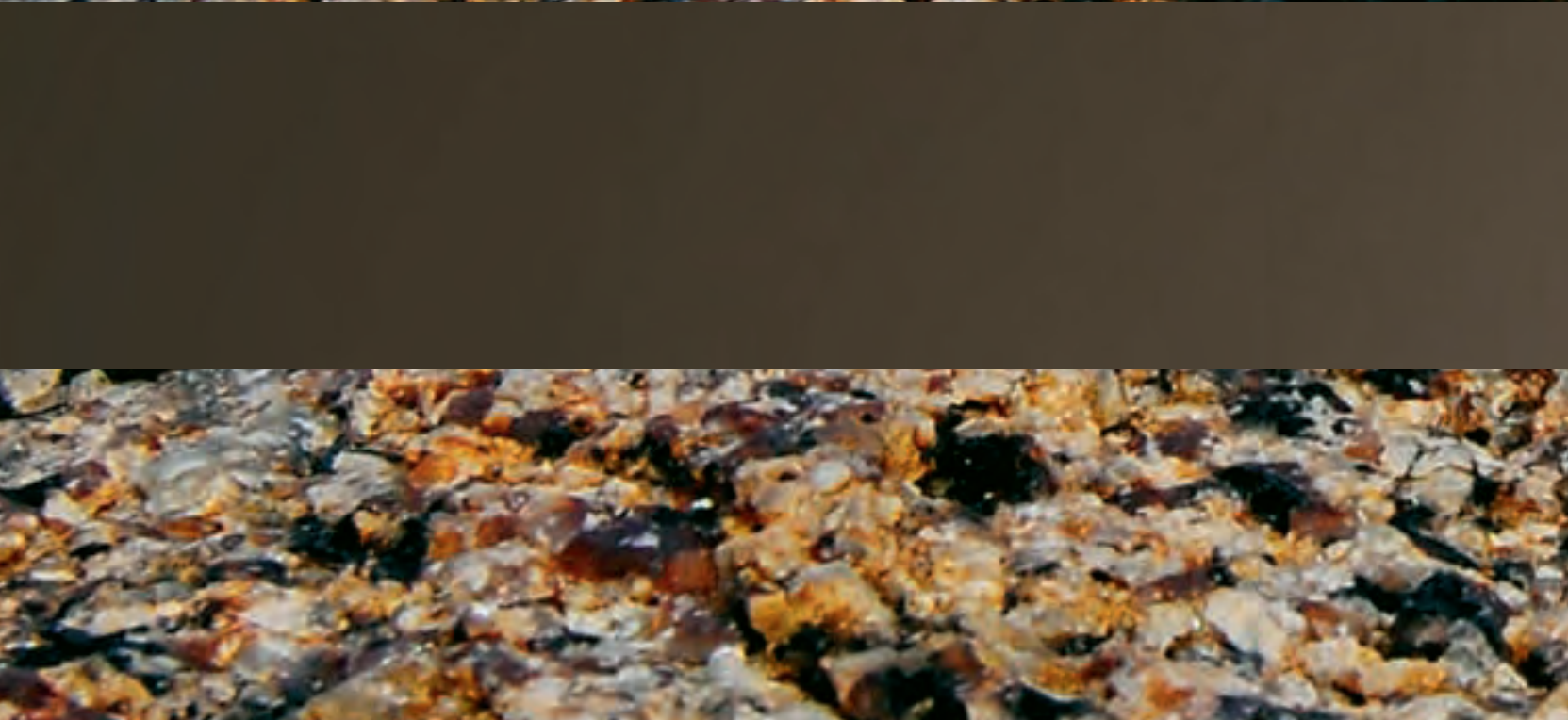


## DETAILS

			ARGUS 3
Opening width	mm		850 - 1650
Opening height	mm		300 - 500
Housing	Width	mm	300
	Height	mm	200
	Depth	mm	260

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012





# CONTENT

Push & pull rod discharger	94
Loading and unloading conveyor BEF	95
Drag chain discharger	96
Type A - S	96
Screw discharger	97
Moveable rod system floor	98
Toploader	99



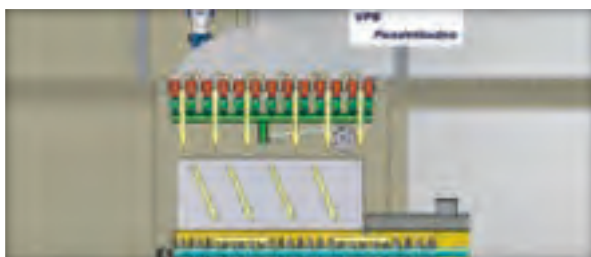
WE PRESERVE YOUR VALUE

STORAGE IS NOT AN ART – IT IS A SCIENCE



# STORAGE IS NOT AN ART – IT IS A SCIENCE

## MOVEABLE ROD SYSTEM FLOOR



The moveable rod system floor provides:

- Accessible, flat and unobstructed installation
- Fully drive-on and walk-on in a motionless condition
- No crushing and shearing points
- Conveying capacity of up to 1,000 m<sup>3</sup>/h
- Robust design and modular construction

## TOPLOADER

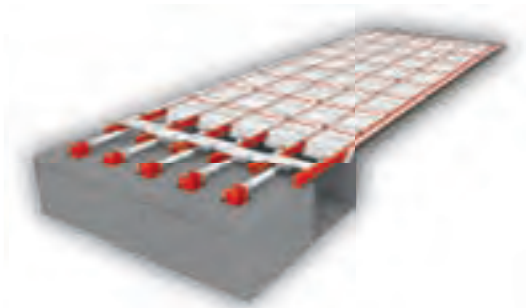


### Benefits

- Easy construction
- Quick installation
- Cost-effective due to low energy consumption
- Low-maintenance
- Exchange of wearing parts without a mobile crane
- Space-saving design for an easy integration into an existing system
- Easy upgrading of the collection silo due to a modular construction (parts of 1m length)
- Adjusted loading speed due to frequency converter
- Flexible connection of downstream systems without a cavity
- Infeed with dump truck or walking floor



## PUSH & PULL ROD DISCHARGER



Our push/pull rod discharger is designed for large storage capacities and discharge rates of up to 300 m<sup>3</sup>/h. It is particularly suitable for continuous feeding of boiler systems.

Different versions of the push/pull rod discharger are available – as a mobile or fixed type and also as a bunker. Force-reduced versions are also available, which allow low-cost concrete construction.

## SCREW DISCHARGER



Our screw discharger has an impressive discharge capacity of between 1 and 400 m<sup>3</sup>/h and consists of several screw shafts in a shared trough construction. One or two discharge openings facilitate optimum dosing of material supplied to the next process. Particle sizes up to 100 mm and bulk densities of between 40 and 400 kg/m<sup>3</sup> can be handled. Container sizes of up to 80 m<sup>3</sup> are possible using screw diameters of between 250 and 800 mm. This is why screw dischargers are particularly suitable for feeding boiler systems, for animal bedding packaging lines and also for feeding and discharge of hammer mills/chippers, drying plants in the pellet manufacturing industry and for alternative fuel (RDF) in the cement industry.

# STORAGE IS NOT AN ART – IT IS A SCIENCE



## LOADING AND UNLOADING CONVEYOR (BEF)



The loading and unloading conveyor consists of a distribution- / discharge conveyor that can be moved up and down on steel wire ropes through rope guides by means of a lifting device. This provides the constant filling and emptying. The required steps are fully automatically initiated and processed by PLC (programmable logic control) through various programs ("Loading" and "Unloading").

### Benefits

- Fully automatic loading and unloading of silo boxes
- Storage unit can be filled and emptied at the same time
- Possibility to move the loading and unloading conveyor on a chassis to other boxes and to fill and empty them as well
- Adaption to nearly every free-flowing material due to adjustable drive



## DRAG CHAIN DISCHARGER



The drag chain discharger is a tried-and-tested discharge device for smaller storage units with a capacity of up to 100 m<sup>3</sup>. It essentially consists of a steel construction with two lateral conveyor chains, between which cross-feed dogs are bolted. The cross-feed dogs move the bulk material on an intermediate floor to the discharge end, where it is transferred in metered amounts to the next conveying device. Particle sizes up to 200 mm and occasional overlengths up to 1000 mm can be handled in conjunction with a large discharge opening and auxiliary devices. Low conveying speeds ensure a long service life and reliable operation.

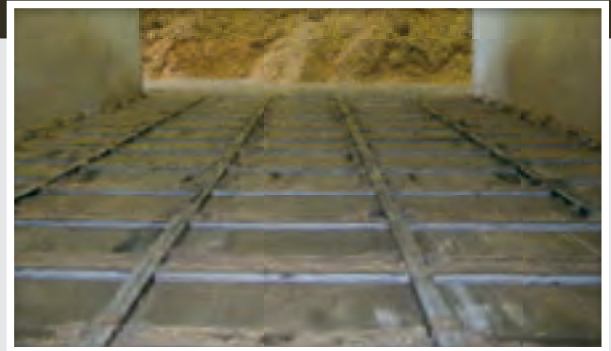
### Benefits

- Different types with outside conveying chains (type A) oder multiple chains (type S)
- Discharging of nearly every material
- High throughput capacity up to 1000 m<sup>3</sup>/h
- Adjustable discharge capacity due to frequency converter
- No problems with material overlengths
- Various extensions by combining several drag chain dischargers side-by-side
- Also available with elbows – low-cost concrete work

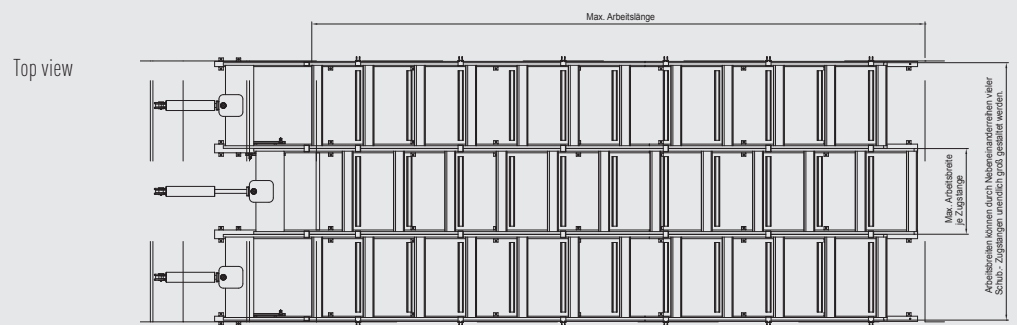
# PUSH & PULL ROD DISCHARGER

## APPLICATION

For the conveyance of free-flowing materials, such as sawdust, shavings and wood chips, etc. The Vecoplan push/pull rod dischargers comprise hydraulically operated push/pull rods that move reciprocally across the floor of the bunker. If an upstream extraction device is activated, a hydraulic system automatically initiates a slow backwards and forwards reciprocal movement of several adjacent push rods. During this process, the special profile of the carriers transports the bulk material into an extraction device located at the end (one side undercuts the bulk material in the direction of the end of the bunker, the other side conveys the bulk material in the direction of the extraction device). Material from the silo is dosed in the required amounts by the discharge conveyor, or the push/pull rods themselves. The hydraulic cylinders of a pull rod discharger are mounted at the discharge point, whereas the hydraulic cylinders of a push rod discharger are mounted in the silo at the rear (opposite the discharge point).



Example type II



## DETAILS

		Type I	Type II	Type IV
Trafficable		-	x	x
Single-bar version		x	-	-
Ladder frame version		-	x	x
max. working length	m	17	17	22
max. working width per pull rod	m	2	2	2
Transmission of cylinder forces into silo base		-	-	x
cylinder type: 140/70/700		x	x	x
cylinder type: 200/90/900		x	x	x
Operating pressure	bar	210	210	210
Motor power	kW	4 - 75	4 - 75	4 - 75
Conveying capacity	m <sup>3</sup> /h	250 *	250 *	250 *

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\* Depending on silo width and hydraulic motor power

# LOADING AND UNLOADING CONVEYOR BEF



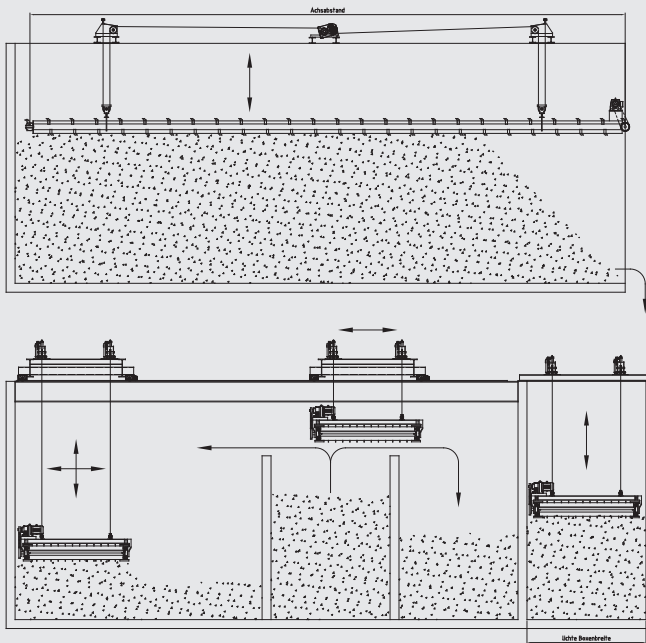
## APPLICATION

Loading-/unloading conveyor are used in silos and storage bunkers containing solids in the size of wood chips. What makes these machines special is that they fill silos as well as empty them. Conventional systems are generally applicable for only one function. The loading-/unloading conveyor consists of a distribution-/discharge conveyor that can be moved up and down on steel wire ropes through rope guides by means of lifting device. This provides the constant filling and emptying.

The required steps are fully automatically initiated and processed by PLC (programmable logic control) through various programs. It is also possible to fill and empty a box simultaneously.

The standard version of a loading-/unloading conveyor works in a storage box. If several boxes are arranged side by side, it is also possible to move the loading-/unloading conveyor on a chasis to the other boxes and to fill and empty them as well. y

Example  
TYPE A-D



Side view

Front view

## DETAILS

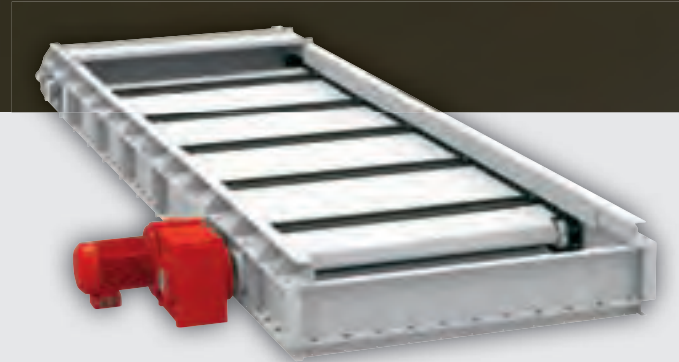
		Type A	Type B	Type C	Type D
Conveying width	mm	1800 / 2100	3100 / 3300 / 3600	4100 / 4500	4500
Clear width of box	mm	2300 / 2600	3600 / 3800 / 4100	4600 / 5000	5000
Max. center distance	mm	30000	30000	30000	30000
Breaking load conveyor chain	to	11,2	11,2	11,2	16
Max. discharge capacity*	m <sup>3</sup> /h	200	300	400	500

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\* at conveying speed of 30 m/min



# DRAG CHAIN DISCHARGER TYPE A - S



## APPLICATION

Drag chain dischargers are storage vessels for almost any kind of flowable materials. The filling of drag chain dischargers can be effected variably – filling is possible by wheel loader, crane or upstream conveyor. The drag chain dischargers can be used as trailer receiving station, too.

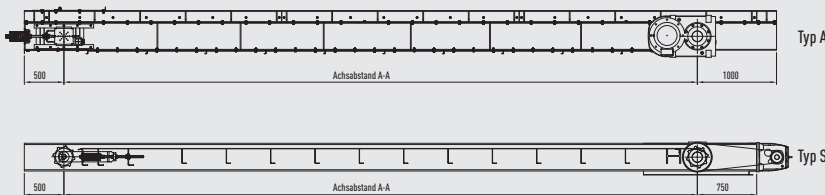
### Type A

Vecoplan drag chain dischargers of type A transport the material by two external conveying chains with 16 tons breaking load. The conveying chains run on low-wear chain guide rails and are completely flush-mount covered in the feeding area, so that no material can get into the chains and so that no material can form bridges between the bunker walls. In order to be more flexible with regard to the conveying path, the drag chain dischargers of type A are also available with lower elbow.

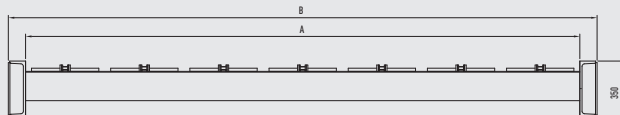
### Type S

Vecoplan drag chain dischargers of type S transport the material by several internal conveying chains with 11.2 tons breaking load. By the closely adjacent conveying chains with single feed dogs it is possible to clear the material with relatively low torque. This design of drag chain dischargers is available in widths up to 4 m and due to the low torque there is only one gear motor required as drive.

Side view



Querschnitt Typ S



Querschnitt Typ A



Standardausführungen:



Gerade Ausführung.  
Einbaulage waagrecht oder  
-bis max 25° ansteigend (Typ A)  
-bis max 10° ansteigend (Typ S)



Ausführung mit Bogen unten.  
Ansteigender Teil 20°.  
Nur erhältlich bei Typ A.

## DETAILS

		Type A 1500	Type A 2000	Type A 2500	Type S 3000	Type S 3500	Type S 4000
Conveying width A	mm	1500	2000	2500	3000	3500	4000
Total width B	mm	1850	2350	2850	3220	3720	4220
No. of chain strands	Stück	2	2	2	6	7	8
Centre distance A-A	mm	2000-20000	2000-20000	2000-20000	2000-20000	2000-20000	2000-20000
Conveying capacity min.-max.	m <sup>3</sup> /h	20-600	30-800	40-1000	20-800	30-900	40-1000

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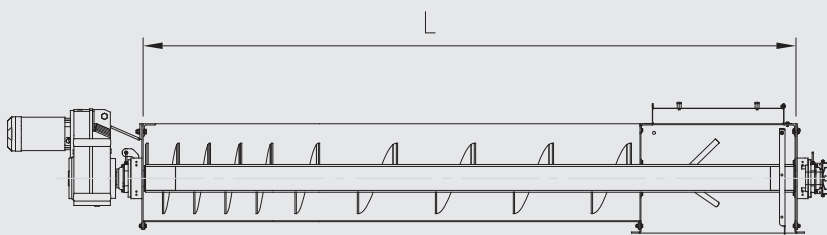
# SCREW DISCHARGER



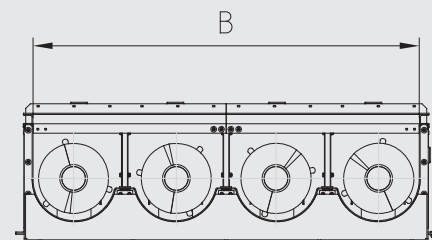
## APPLICATION

Screw dischargers are storing and dosing units, suited for bulk materials. Due to the design of many volutions side by side, the effect of bulking blasting is very good. The dosing of material in a combination with an optional frequency converter is possible. Screw dischargers are used as catch bin, distribution conveyor or dosing silo.

Side view



Front view



## DETAILS

			315	400	500	630	800	
Screw diameter	mm		315	400	500	630	800	
max. length (L)	mm		8.000					
Trough width (B)	3-times	mm	1.155	1.410	1.710	2.100	2.610	
	4-times		1.540	1.880	2.280	2.800	3.480	
	6-times		2.310	2.820	3.420	4.200	5.220	
Conveying capacity max.*	m <sup>3</sup> /h		On enquiry					

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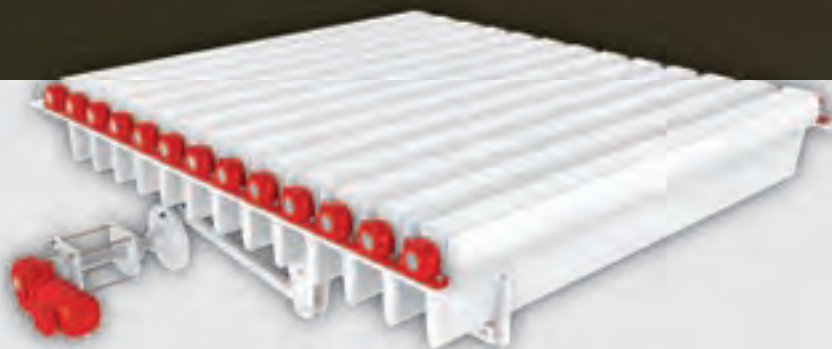
Optional: Monitoring, pedestal bearing, additional infeed and outlet, compression gland, frequency control, ATEX, flap, intermediate storage

\* depends on material and gradient

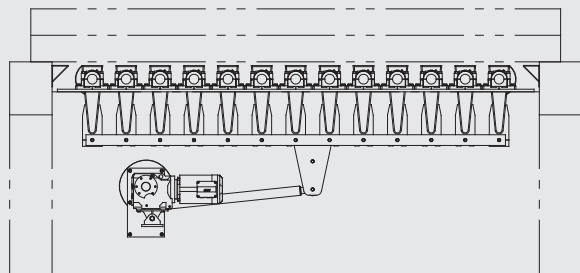
# MOVEABLE ROD SYSTEM FLOOR

## APPLICATION

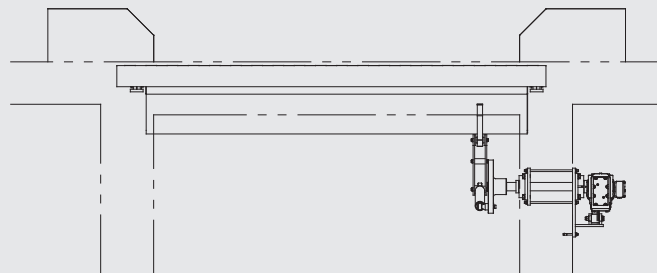
The moveable rod system floor is the proved solution for tipping bulk material. Oscillatingly suspended rods allow an comparatively and especially controllable flow the bulk and free-flowing material (maximum grain size 40 mm) to an unloading station. Due to the pendulum motion of the beams lump material is passed through and dust share is reduced because of the falling height. The moveable rod system floor assures and solves the well-known problems of fixed grids. Hard to walk and pass, low material flow and the risk of glogging - moveable rod system technology makes them a thing to the past.



Side view



Front view



## DETAILS

		Moveable Rod System Floor
Dimensions (without cover)	mm	4.000 x 4.000
Step width (B)	mm	200
Gap width (W)	mm	120
Conveying capacity max.*	m <sup>3</sup> /h	600

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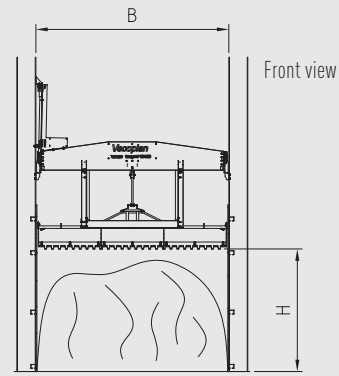
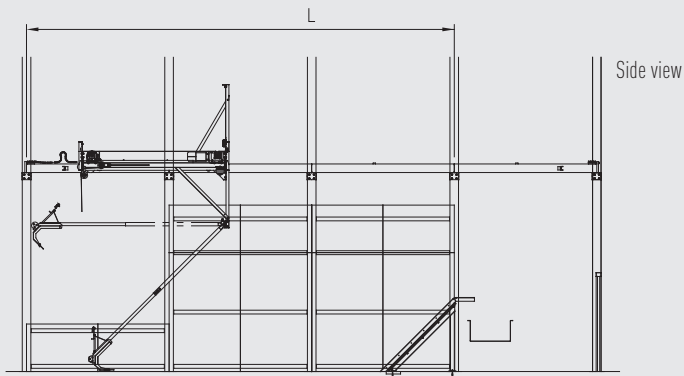
\* depends on material

# TOPLOADER



## APPLICATION

The VECOPLAN Toploader is the economical solution for an automated storing and conveying system for bulk materials like peat, compost, wood chips, fertiliser, fibre, saw dust, bark, RDF or old timber (max. particle size 300 mm). The patented Toploader-system assures a fully automatically box discharge without any operator. One or more boxes are filled from the open side to an even bottom area. The material is discharged by the Toploader, a shovel provided with guide bars and hooked on one side that is mounted on a moveable sleigh. Drive, hoisting device and mechanical components are situated outside of the material, for easy access and maintenance.



### Example calculation:

Length of silo 12 m, width of bucket 4 m, conveying velocity 24 m/min. = 30 m<sup>3</sup>

$$\text{Conveying capacity} = \frac{\text{Conveying velocity}}{\text{Length of silo} \times 2} \times 60 \times \frac{\text{Volume}}{\text{Width of bucket}}$$

$$\text{Conveying capacity} = \frac{24}{12 \times 2} \times 60 \times 0,5$$

## DETAILS

		Toploader 4 x 12 m	Toploader 5 x 12 m	Toploader 6 x 12 m
Width of box (B)	mm	4.000	5.000	6.000
Length of box (L)	mm	12.000 (optional extension every 1m)		
Fill depth (H)	mm	4.000		
Storing volume	m <sup>3</sup>	120 (every m + 10m <sup>3</sup> )	150 (every m + 12,5m <sup>3</sup> )	180 (every m + 15m <sup>3</sup> )

Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 04/2012





## CONTENT

Vibratory dosing feeder QS	104
Vibratory table VT	105

THE EXACT MEASURE  
IS THE KEY

SUPPLYING THE EXACT MEASURE REQUIRES THE RIGHT TECHNOLOGY

# SUPPLYING THE EXACT MEASURE REQUIRES THE RIGHT TECHNOLOGY



## VIBRATORY DOSING FEEDER QS



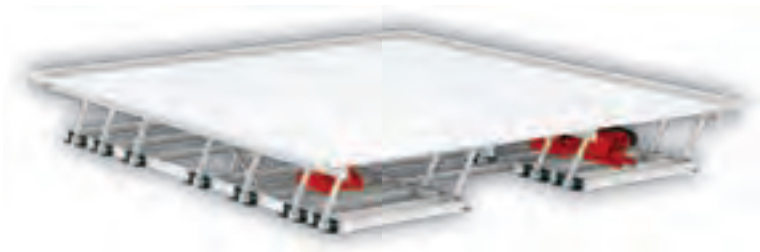
The QS vibratory dosing feeder QS is the ideal intermediate bunker for bark, chips, logs, boards, sawmill waste, old wood, RDF fluff, etc. and is used for the dosing of materials. The maximum length available is 6 m, the maximum drive capacity is 16 KW and the maximum delivery rate is 10 m/min.

### Benefits

- High delivery rate
- Low-maintenance, continuous operation
- Quick and easy to clean
- Gentle, steady conveying
- Sturdy construction



## VIBRATORY TABLE VT



The vibratory table VT is extremely flexible in terms of length, width and height. The adaption to local conditions is without any difficulty. Standard widths are available in 500 mm steps, and in-between sizes are possible using special side sections. Standard height up to top edge: 900 mm. The vibratory table mainly consists of a steel-plate platform, guide bars and one or two eccentric shaft drives.

### Benefits

- Eccentric shaft drive
- Low-maintenance, continuous operation
- Quick and easy to clean
- Gentle, steady conveying
- Easy setting and adjustment for installation of drives with caradn shaft
- Discharge of drive due to adjustable push-pull spring



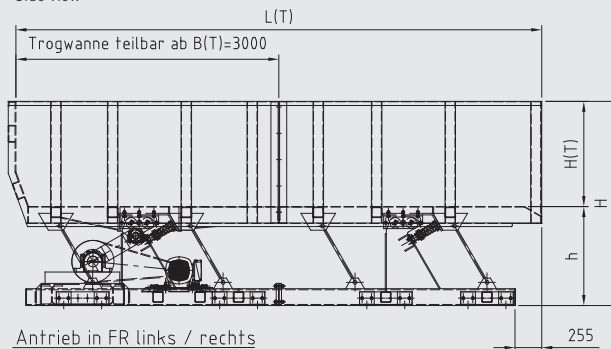
# VIBRATORY DOSING FEEDER QS



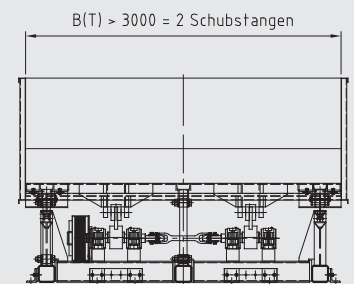
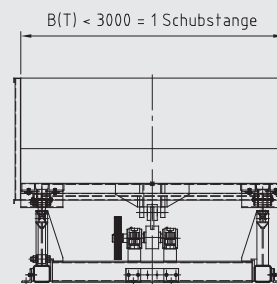
## APPLICATION

The vibratory dosing feeder QS is the ideal intermediate bunker for bark, chips, logs, boards, sawmill waste, old wood, RDF fluff, etc. and is used for the dosing of materials.

Side view



Front view



Wannenboden  $t=4$  mm  
optional:  $t=6$  mm (Hardox)

## DETAILS

		QS 3	QS 4	QS 6	QS 8	QS 10	QS 10	QS 12	QS 12	QS 15	QS 20	QS 30	QS 36
Width B(T)	mm	1000	2000	2000	2000	2000	2500	2000	3000	3000	4000	5000	6000
Length L(T)	mm	3000	2000	3000	4000	5000	4000	6000	4000	5000	5000	6000	6000
Trough weight	kg	1580	1840	2040	1800	2060	1980	2450	2170	2600	3460	4200	4680
Motor power	kW	3	4	5,5	5,5	7,5	7,5	7,5	7,5	11	11	15	15

### Special sizes

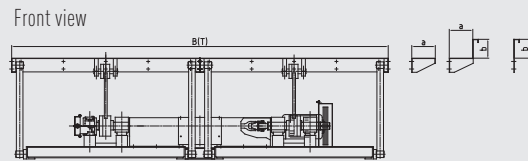
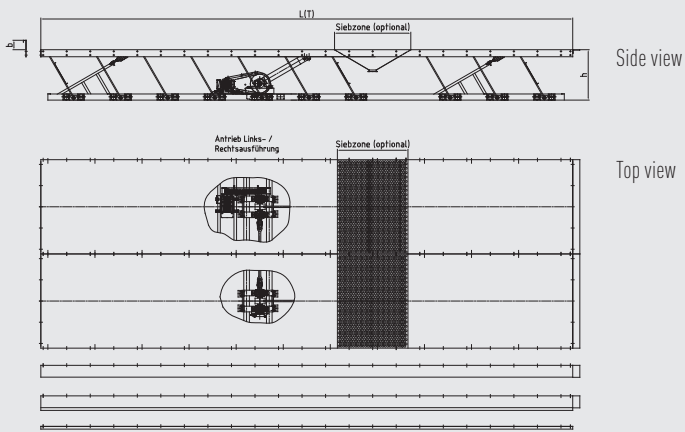
Width B(T)	mm	0-2500		0-2500		3000-4000		3000-7000	
Max. size	m <sup>2</sup>	4		16		6		36	

# VIBRATORY TABLE VT



## APPLICATION

The vibratory table is mostly applied in saw mills for the lateral conveying of slabs and splinters as well as waste wood. It is very flexible in terms of length, width and height. Standard widths are available in 500 mm steps.



## DETAILS

		Vibratory table VT
Width of trough "B(T)"	mm	1500 – 8000 in steps of 500. In-between sizes possible due to special side frames
Length of trough "L(T)"	mm	Customised
Height top edge of table "h"	mm	min. 700 / max. 1600
Motor power	kW	4 / 5,5 / 7,5 / 11 - Left design or right design
<b>Optional</b>		
Screening zone		Perforation: Square, round
Table increasing		
Table decreasing up to 5°		
Monitoring		
Trough enlargement "a"	mm	min 100 / max 250
Trough enlargement with side wall "a x b"	mm	100 - 250 x 100 / 200 / 300
Side wall "b"	mm	100 / 200 / 300
Back wall "b"	mm	100 / 200 / 300

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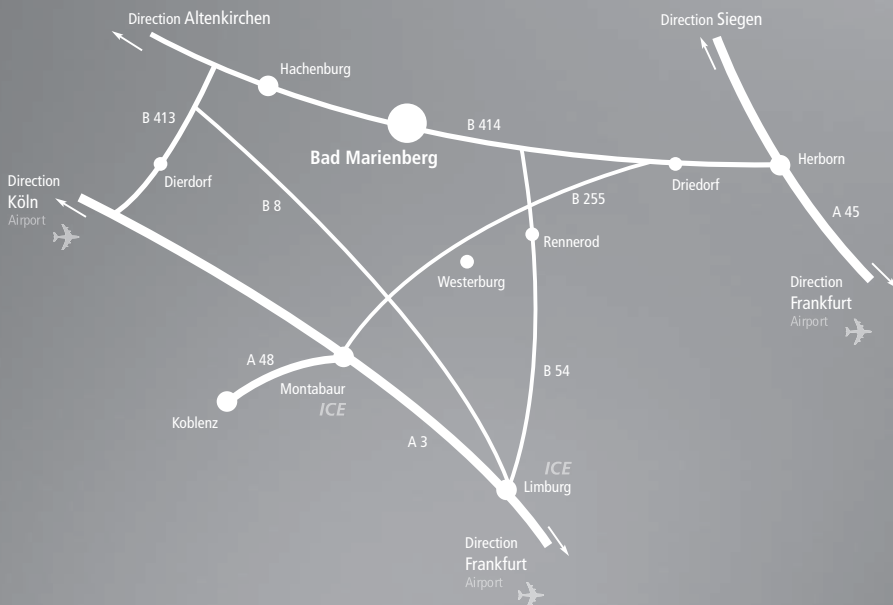
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