

Stationary machines





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Комртесн GmbH

Komptech is a leading international supplier of technology for machines and plants for the mechanical and biological treatment of solid wastes and biomass.

The Komptech product portfolio comprises more than 25 different types of machine, covering the key process stages in a variety of waste treatments – shredding, separation and biological treatment.

Self-contained all-in-one solutions for mastering complex challenges can be created by combining products from our own portfolio with proven components from reputable manufacturers where required.

With project offices in Germany and Austria, Komptech Anlagenbau GmbH assumes overall responsibility for worldwide project management.

Innovative technology and solutions that maximise customer benefit are always our focus.









Technical specifications	500	2200	3400	3400S	5000	5000S	6000S
Motor Asynchronous motor Hydraulic rating: Mechanical rating:	- 1 x 37 kW	1 x 132 kW -	1 x 160 kW 1 x 160 kW	1 x 160 kW 2 x 75 kW	1 x 200 kW -	1 x 200 kW 2 x 110 kW	2 x 160 kW -
Weight (assembled unit)	~ 11,8 t	~ 18,4 t	~ 18,8 t	~ 19,8 t	~ 19,8 t	~ 20,8 t	plant specific (only separated unit possible)
Cutter / drum Length: Diameter: rpm-hydraulic system: rpm-mechanical system:	3000 mm 1050 mm - max. 3 min -1	3000 mm 1050 mm max. 29 min ⁻¹ -	3000 mm 1050 mm max. 29 min ⁻¹ max. 19 min ⁻¹	3000 mm 1050 mm max. 27 min ⁻¹ max. 14 min ⁻¹ Drum drive on pboth sides	3000 mm 1050 mm max. 29 min -1 -	3000 mm 1050 mm max. 29 min ⁻¹ max. 20 min ⁻¹ Drum drive on pboth sides	3000 mm 1050 mm max. 38 min ⁻¹ max. 28 min ⁻¹ Drum drive on pboth sides
Throughput (dependent on material)	to 6 t/h	to 30 t/h	to 45 t/h	to 50 t/h	to 60 t/h	to 80 t/h	to 100 t/h

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The TERMINATOR is a slow-running single-shaft shredder for all types of waste. Robust teeth mounted on the shredding rotor and an opposing counter comb can produce a coarse pre-crushing to a defined shredding size.

The continuous cutting gap adjustment allows tailoring of the particle size produced to suit its subsequent use. A choice of drives is available – either a hydraulic system with optional disconnection from the shredding unit or a mechanical direct-drive with optimum degree of efficiency.

- shredding of the most difficult materials
- rugged design as pre-shredder provides high degree of shredding
- variable particle size by adjusting cutting gap
- hydraulic drive with constant power control and optional separated design or directdrive with optimum degree of efficiency





Technical specifications	3600	5400
Motor Asynchronous motor rating:	1 x 160 kW	1 x 250 kW
		
Material feed		
Type:	electric 2 x 7,5 kW	electric 3 x 7,5 kW
Number of screws:	2	3
Cutter / rotor		
Length:	880 mm	1320 mm
Diameter:	1000 mm	1000 mm
rpm:	93 min -1	93 min -1
Cutter:	2 x 12	3 x 12
Screen basket hole size:	35, 60 mm	35, 60 mm
Weight	~ 10000 kg	~ 13000 kg
Dimensions		
Length:	4250 mm	4250 mm
Width:	2050 mm	2550 mm
Height:	2620 mm	2620 mm
Throughput	to 10 t/h	to 15 t/h

The RASOR is a post-shredder for the generation of refuse derived fuels from pre-treated waste fractions. The continuous material feed, using two or three feed screws, ensures uniform power consumption.

The material is shredded by slow-running cutters in the enclosed shredding unit in a practically dust-free process. The automatic cutting gap adjustment guarantees minimum energy expenditure during the shredding process. Minimal downtime is ensured by tool-free exchange of the counter-cutter, all wearing parts and screen baskets.

- Continual material feed with automatic cutting gap adjustment for uniformly low power consumption
- low rotor rotation speed ensures shredding with low levels of dust and vibration
- Swivelling counter-cutter carrier provides optimal service accessibility
- Exchange of wearing parts without the need for tools means minimal servicing times





CRAMBO Dual-shaft shredder

Technical specifications	3400	5000	6000
Motor Asynchronous motor rating:	1 x 160 kW	1 x 200 kW	2 x 160 kW
Weight (assembled unit)	~ 19,0 t	~ 20,5 t	plant specific (only separated unit possible)
Shredding tools Number of screws: Length: Diameter: rpm: Cutting elements: Screen basket hole size (in mm):	2 2820 mm 610 mm max. 30 min -1 134 80,100, 125, 150, 180, 250, 300	2 2820 mm 610 mm max. 30 min -1 134 80, 100, 125, 150, 180, 250, 300	2 2820 mm 610 mm max. 40 min ⁻¹ 134 80, 100, 125, 150, 180, 250, 300
Throughput (dependent on material)	to 60 t/h	to 85 t/h	to 120 t/h

The CRAMBO dual-shaft shredder shreds all types of wood and green waste to a fixed particle size. Slow speed, high torque rotors with shredding tools minimise the fine particle and noise/dust emissions and build up resistance to contaminants.

The particle size generated is adjustable by simply exchanging screen baskets. A hydraulic drive with load-dependent speed control ensures maximum utilisation of motor performance. Optional disconnection of the shredding unit from the drive simplifies integration into the system.

- high throughputs with general-purpose use
- aggressive feed with 2820 mm long, counter-rotating shredding drums
- variable particle size spectrum with less overlengths and low fine fraction
- quick-change system for screen basket and tools screen basket change in minutes







Technical specifications

Drive	2 x 75 kW electric
Dimensions	
Length: Width: Height: Weight:	6740 mm 2200 mm (without conveyor belt), 6135 mm (with conveyour belt) 3265 mm 13700 kg
Container capacity	15 m³
Mixing unit	4 screws / mechanical drive
Throughput (dependent on material)	to 55 m³/h

Wet organic waste, woody structure material and various aggregates (residue waste and sewage sludge) are treated by the general-purpose MASHMASTER mixing shredder into an output mixture ideal for the rotting process.

Four electrically driven screw shafts keep the material in an intensive mixing motion. Rugged tools on the screws disentangle the material and provide shredding and homogenisation.

- Shredding-mixing-homogenisation in one machine
- accurate definition of the mixing ratio and automation with conveyor belt feed possible with electronic weighing
- prolonged service life by using wear-resistant tools and tray with exchangeable base







Technical specifications	1845	2055
Drive		
Power: System:	15 kW electrical via DRUMGRIP	18,5 kW electrical via DRUMGRIP
Screening drum		
Diameter (exterior): Length (exterior): Screening area:	1800 mm 4500 mm 22,5 m²	2000 mm 5500 mm 30 m²
Machine dimensions (without walkways)		
Length x width x height:	6600 x 2350 x 3250 mm	7600 x 2700 x 3000 mm
Throughput (dependent on material)	to 120 m³/h	to 160 m³/h

With stationary drum screens, a corresponding screening machine is available for every system size. Screens for the mid-performance range boast high operational safety with long servicing intervals.

A welded screw conveyor in the drum ensures reliable material transport. Drive is provided via the proven, patented DRUMGRIP system.

- designed for continual operation: optimal screen drum operating characteristics with reliable cleaning
- simple servicing with easy accessibility to all power units
- options:
 - screen segment drum with segment exchange without dismantling of the drum
 - special drum with anti-dirt strips for screening residual waste
 - three-fraction screening using different screen drum hole sizes







Screening

Technical specifications	2255	2278	2290	2590	25120
Drive					
Power: System:	2 x 9,2 kW Electrically via direct drive	2 x 11 kW Electrically via direct drive	2 x 11 kW Electrically via direct drive	4 x 7,5 kW Electrically via direct drive	4 x 9,2 kW Electrically via direct drive
Screening drum					
Diameter (exterior): Length (exterior): Screening area:	2200 mm 5500 mm 32 m²	2200 mm 7800 mm 48 m²	2200 mm 9000 mm 56,5 m²	2500 mm 9000 mm 61,5 m²	2500 mm 12000 mm 85 m²
Machine dimensions (without walkways)					
Length x width x height:	7600 x 3000 x 3600 mm	9900 x 3000 x 3600 mm	11100 x 3000 x 3600 mm	11100 x 3400 x 4000 mm	14100 x 3400 x 4000 mm
Throughput (dependent on material)	to 170 m³/h	to 200 m³/h	to 210 m³/h	to 220 m³/h	to 230 m³/h

Drum screen systems for higher performance requirments are built for endurance. Directly driven heavy-duty supporting wheels provide quiet drum operation and an optimum degree of efficiency with reduced energy consumption and noise emissions.

Variable machine configuration in terms of sub-structure, servicing accessibility, enclosure and drive simplify tailoring to on-site conditions.

- maintenance-free direct drive minimises energy costs, wear and noise emissions
- variable machine configuration for perfect tailoring to deployment and locality
- options:
 - screen segment drum with segment change without dismantling the drum
 - special drum with anti-dirt strips for screening of residual waste
 - three-fraction screening by using different screen drum hole sizes
 - special carrier drum with exchangeable screening segments







Screening

MULTISTAR 2-SE Star screen machine

Technical specifications				
Power input (dependent on configuration)		4 - 1	6 kW	
Screen segments fine or coarse Length x width:	2	2000 x 600 mm to	12000 x 1250 mm	
Feed hopper (option)		4	30 m ³	
Screen sections (standard)	or or or	Star type 166/12 330/12 340/8 340/8 or according to cu	Separation range 1025 mm 3050 mm 6080 mm 80150 mm Istomer preference	
Throughput (dependent on material)		to 40	0 m³/h	

Star screen technology from Komptech is regarded as one of the most effective separation methods for organic waste. Precise separation selectivity irrespective of material moisture and adjustment of the particle size at the press of a button are particular features of the MULTISTAR star screen.

Its compact design makes the MULTISTAR 2-SE star screen system simple to integrate. Its modular design and options such as chassis type, feed metering container with feed and discharge belts, wind sifting, etc. ensure customer requirements can be met perfectly.

- high throughput with precise selectivity even with moist materials
- simple speed control at the screen deck to change particle size in seconds
- flexibly tailored solutions for specialist customer applications







Screening

MULTISTAR 3-SE Star screen machine

Technical specifications	
Power input (dependent on configuration)	12 - 32 kW
Screen segments Length x width:	Fine 2000 x 600 mm to 12000 x 1250 mm Coarse 2000 x 600 mm to 12000 x 1250 mm
Feed hopper (option)	4 30 m ³
Screen sections (standard)	Star typeSeparation range166/121025 mmor330/123050 mmor340/86080 mmor340/880150 mmor according to customer preference
Throughput (dependent on material)	to 400 m³/h

MULTISTAR star screens are not only amongst the most powerful screening machines, they are also unparalleled in operating efficiency. Compost, bark and biomass is separated extremely reliably and quietly. Stationary MULTISTAR star screen systems leave no customer requirement unaddressed.

With its modular design, the screen decks, feed metering container, wind sifter and stone/magnet separation are tailored perfectly to the job at hand, generating up to four fractions in one operation.

- separation into three or four fractions, wind sifting, metal separation in one compact machine
- 4 30 m³ hopper, wide discharge belts for convenient working
- high throughput with precise selectivity even with moist materials
- simple speed control at the screen deck to change particle size in seconds







FLOWERDISC Disc separator

Technical specifications				
Power input (dependent on configuration)		۷	l - 16 kW	
Screen segments fine or coarse Length x width:		3000 to 120	0 x 1000 mm 00 x 1200 mm	
Screen sections (standard)	or or	Typ FD 40 FD 80 FD 150	Separation range 3050 mm 60100 mm 120250 mm	
Throughput (dependent on material)			to 40 t/h	

The FLOWERDISC from Komptech represents a new technology for the screening of preshredded commercial, bulky and bio-waste, a technology which combines effectively high throughput, selectivity and resistance to contraries.

Material is transported by shafts having rugged steel discs working according to the disc screen principle. Movable jacketed pipes positioned between the discs prevent blockages by contaminants.

- designed for separation of oversized particles from commercial waste, bulky waste, household waste and fresh bio-waste
- high throughput, low energy expenditure
- sturdy design allows smooth, low-wear operation
- modular design for flexible tailoring in stationary systems







HURRIKAN Windsifter

Technical specifications

Drive Power input:	28 kW
Dimensions Length x width x height: Weight:	7250 x 2000 x 4200 mm 3500 kg
Feed Width feed belt:	to 1200 mm
Throughput (dependent on material)	to 40 m³/h

The stationary HURRIKAN high-performance windsifter allows effective cleaning of over-sized screened particles. The unit is extremely compact for a wind sifter and may be integrated easily into a system chain.

The patented "pressure-suction" principle is used to separate lightweight materials with a high degree of selectivity.

- optimal wind sifting using "pressure-suction" principle in conjunction with vibrating feeder
- at high throughput in excess up to more than 90% selectivity by precise adjustment of settings to material properties
- simple integration into new or existing systems



MASHSEPARATOR Solid / liquid-separator

Technical specifications

Drive	1 x 132 kW electric
Mixing unit Container capacity: Mixing equipment:	15 m³ 2 screws / hydrostatic drive
Press Number of press screws: Length of press screws: Compression ratio:	1 (Simplex) or 2 (Duplex) 4300 mm to 1 : 7
Throughput (dependent on material)	Simplex: 6-10 t/h Duplex: 12-20 t/h

The MASHSEPARATOR can separate wet bio-waste into a solid fraction for composting and a liquid fraction for wet fermentation.

Two screw shafts in the mixing container keep the material in an intensive mixing motion. Crushing is performed by one press screw in the separator part on the simplex unit (there are two press screws on duplex unit). Other applications include drainage of organic material leachate during fermentation processes.

- Mixing and crushing in one machine
- different degrees of crushing attainable using various screen baskets
- prolonged service life by using wear-resistant tools and tray with exchangeable base
- corrosion-resistant steel used for all parts coming into contact with material (with exception of the press screw)



BRINI MK Ballistic separator

Technical specifications	MK 41	MK 61	MK 81	MK 101	MK 121
Motor rating	5,5 kW	5,5 kW	2 x 5,5 kW	2 x 5,5 kW	2 x 5,5 kW
Machine dimensions Length 3 fraction machine: Length 4 fraction machine: Width 3 and 4 fraction machine: Height: (machine only) Weight 3 fractions machine: Weight 4 fraction machines:	7475 mm 8675 mm 2400 mm 1930 mm 4200 kg 4700 kg	7475mm 8675mm 3240mm 1930mm 5000kg 5600kg	7475 mm 8675 mm 4480 mm 1930 mm 6000 kg 6700 kg	7475 mm 8675 mm 5366 mm 2010 mm 6800 kg 7500 kg	7475 mm 8675 mm 6220 mm 2010 mm 7900 kg 8700 kg
Screen					
Screen elements: Screen elements L x W 3 fraction machine: Screen elements L x W 4 fraction machine: Screening area 3 fraction machine: Screening area 4 fraction machine:	4 5600 x 422 mm 6800 x 422 mm 9,7 m ² 11,8 m ²	6 5600 x 422 mm 6800 x 422 mm 14,5 m ² 17,6 m ²	8 5600 x 422 mm 6800 x 422 mm 19,2 m ² 23,4 m ²	10 5600 x 422 mm 6800 x 422 mm 24,0 m ² 29,2 m ²	12 5600 x 422 mm 6800 x 422 mm 28,8 m ² 35,0 m ²
Throughput (dependent on material)	to 80 m³/h	to 120 m³/h	to 160 m³/h	to 200 m³/h	to 240 m³/h

BRINI separators are used to separate out usable fractions from waste and potential recyclables. By combining ballistic separation with screening, separation is performed in one operation to give two- or three-dimensional, rolling, cubic, rigid or flat, soft and narrow, or undersized/oversized particles.

With a choice of separation into three of four fractions and light, standard and heavy-duty designs in five sizes, the BRINI separator can be tailored perfectly to the application.

- wide range of applications from municipal waste (household waste, commercial waste) up to potential recyclables and building material waste
- high degree of selectivity with setting of separation limit
- proven, efficient drive design with low power requirement
- rugged design with high service life and low operating costs





Technology for a better environment

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