MOLA™

CRUSHING, SHREDDING, AND SCREENING EQUIPMENT
FOR WASTE MANAGEMENT, RECYCLING, AND CONSTRUCTION

PRODUCT SHEET



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AND SCREENING EQUIPMENT
FOR WASTE MANAGEMENT, RECYCLING,
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MOBILE PRIMARY SHREDDERS



Mobile shredder **RAPTOR 800**

Throughput: up to 120 t/h.

Construction waste, granular asphalt, brickwork	80–120 t/h
Reinforced concrete	70–100 t/h
Wood waste, roots	20–40 t/h
Municipal solid waste (MSW)	15–20 t/h

RAPTOR 800 features two asynchronous shafts made from high-strength materials, enabling it to process a wide range of waste materials with minimal wear. Its low requirements for feed preparation make it suitable for use in a wide range of conditions with minimal labor input. The shredder's compact dimensions allow transport on a standard three-axle hook-lift truck, or on a low-bed trailer when fitted with crawler tracks.

Output fraction: reinforced concrete 0–80 mm, other materials 0–250 mm (depends on material characteristics and the installed screening or sizing screen).

Diesel engine	220 kW / 299 hp
Output fraction size	0–80 mm*/0–250 mm**
Stationary feed hopper size, mm (L × W)	3246 × 2105
Operating dimensions, mm (L × W × H) (multilift)	10680 × 2185 × 3600
Transport dimensions, mm (L × W × H) (multilift)	6888 × 2185 × 2600

* Depends on the type of loaded material
** Depending on the shaft type (for bulk waste, for reinforced concrete and wood waste)

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RAPTOR 800

Mobile shredder - General specifications

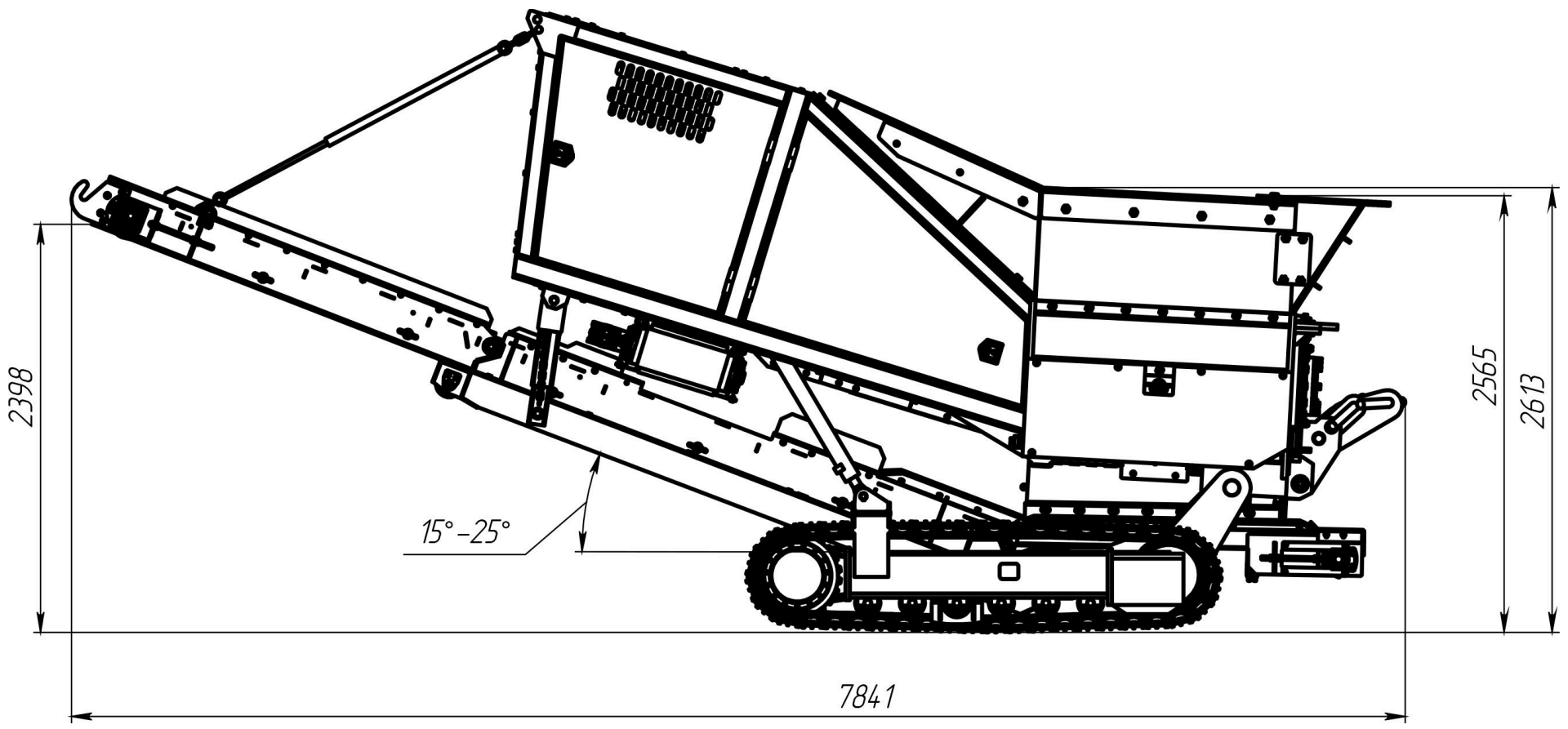
Parameters	RAPTOR 800	Parameters	RAPTOR 800
Loading unit		**Control system**	
Feed hopper type	stationary	Intuitive touch-display control system	available
Dimensions (length × width)	3246 × 2105 mm	8 customizable shredding programs	available
Side wall thickness	16 mm	Light and audible alarms	available
Cutting unit		Service Control System	available
Shaft size (length × diameter)	1484 × 690 mm	Engine temperature monitoring	available
Two-shaft asynchronous system	1. C&D waste 2. Reinforced concrete 3. Wood	Fuel level control	available
Shaft material	structural steel	Oil pressure control	available
Torque for each shaft	75 000 Nm	Oil temperature control	available
Rotation speed	5–30 rpm	Oil level control	available
Number of blades on each shaft	C&D - 24, concrete - 16, wood - 27	Hydraulic overload protection	available
Blade material	Hardox 500/42CrMo	Independent system for shaft management	available
Protection		Schneider Electric controller	available
Engine		Protection class of electrical equipment	IP65
Trade mark	Yuchai	Two-step protection of the electrical circuit and controller	available
Environmental class	Euro 3	Integrated IoT telematics for operating data monitoring	available
Power	220 kW / 299 hp	Electrical wiring in oil-resistant flexible metal conduits	available
Fuel tank capacity / average fuel consumption	200 L / 12 L/h		
Hydraulic system		**Wireless remote control panel**	available
Type	closed with independent circuits		
Capacity	200 L	**Magnetic separator**	available
Pumps/motors	Bosch Rexroth		
Conveyor system		**Crawler tracks**	optional
Crushing and discharging		Track type	Metal
multilayer chevron rubber, oil and gasoline resistant, width	800 mm	Track gauge	2,000 mm
discharge height (on hydraulic cylinders)	2890 mm	Speed	up to 1 km/h
Belt movement sensor	available		
Automatic reverse function	available	**General technical characteristics**	
Rebar damage protection	available	Weight	16 500 kg
Belt control	available		
Cooling and ventilation system		**Mounted compact screen**	optional
Engine and hydraulic system radiators	combined radiator assembly with wide fin spacing and straight fins	Fraction	2
Cooling fan	automatic reversing		
Filter dust sensor	with info display on the operator panel		
Cyclone filter	available		
Industrial coarse filters	available		
Industrial fine filters	available		

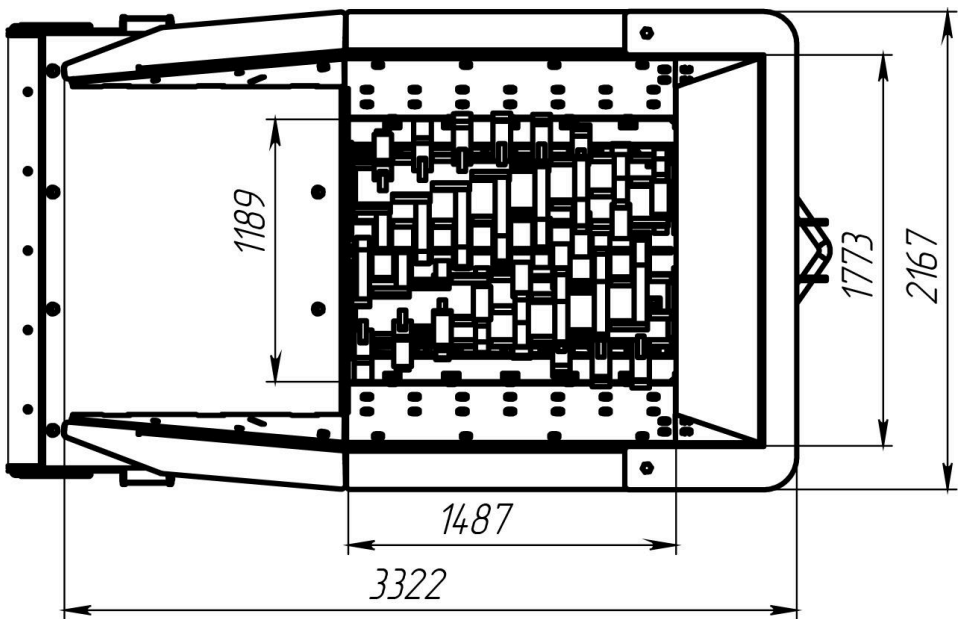
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RAPTOR 800

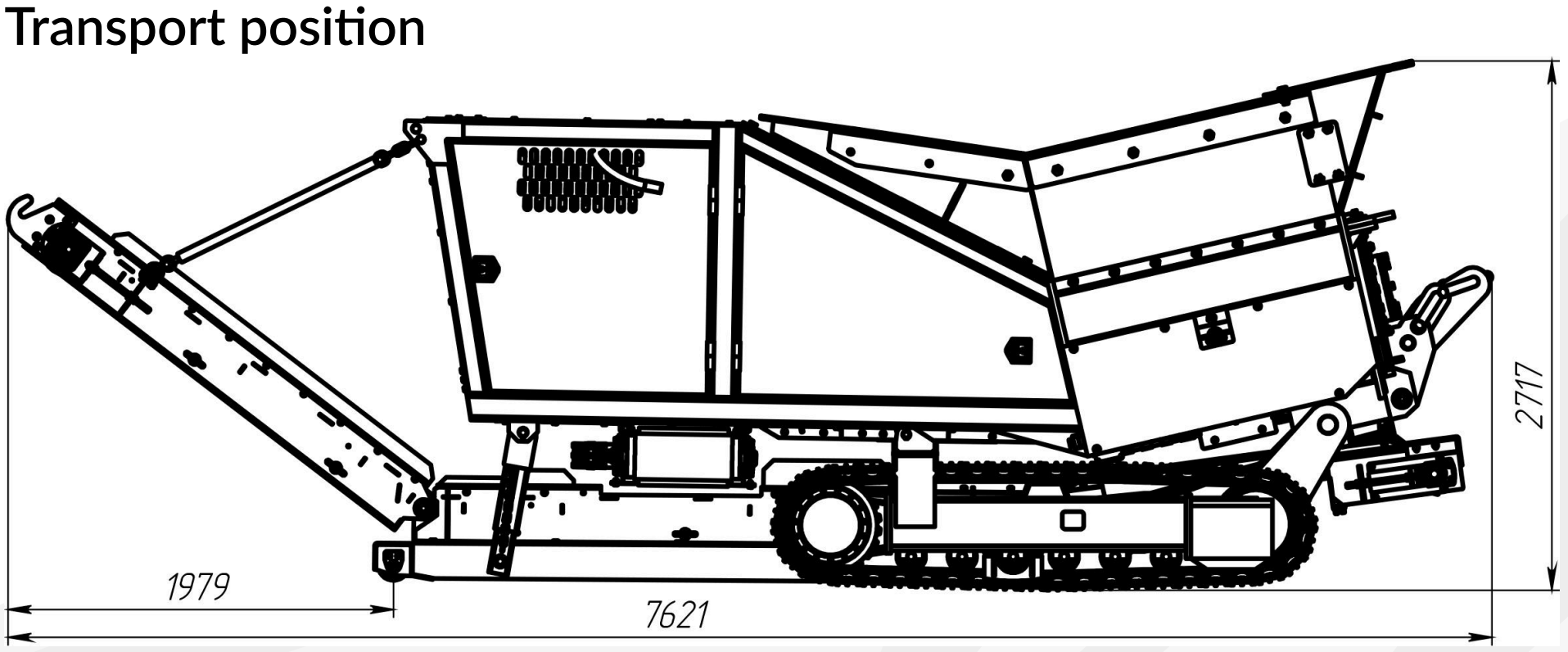
Mobile shredder - tracked version dimensions

Operating position





Transport position



MOBILE PRIMARY SHREDDERS



Mobile shredder **UNIVERSAL 900**

Throughput: up to 200 t/h.

Construction waste, granular asphalt, brickwork	80–200 t/h
Reinforced concrete	70–150 t/h
Wood waste, roots	20–60 t/h
Municipal solid waste (MSW)	15–25 t/h
Output fraction	0–150 mm (depending on material characteristics)

UNIVERSAL 900 features two asynchronous shafts made from high-strength materials, enabling it to process a wide range of waste materials with minimal wear. Its low requirements for feed preparation make it suitable for use in a wide range of conditions with minimal labor input. The shredder's compact dimensions allow it to be transported on a standard three-axle hook-lift truck or on a low-bed trailer when fitted with crawler tracks.





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UNIVERSAL 900

Mobile shredder - General specifications

Parameters		Parameters	
Loading unit		**Control system**	
Feed hopper type	hydraulically operated tipping hopper	Intuitive touch-display control system	available
Dimensions (length × width)	4562 × 2400 mm	8 customizable shredding programs	available
Execution	sides thickness 16 mm	Light and audible alarms	available
Cutting unit		Service Control System	available
Shaft size (length × diameter)	1853 × 660 mm	Engine temperature monitoring	available
Type	two-shaft asynchronous system	Fuel level control	available
Quick-change shaft system	available	Oil pressure control	available
Torque for each shaft	90 000 Nm	Oil temperature control	available
Rotation speed	5–30 rpm	Oil level control	available
Number of knives per shaft	28 pcs	Hydraulic overload protection	available
Knife material	wear-resistant steel	Independent system for shaft management	available
Automatic reverse	available	Schneider Electric controller	available
Engine		Protection class of electrical equipment	IP65
Trade mark	Yuchai	Two-step protection of the electrical circuit and controller	available
Environmental class	Euro 3	Integrated IoT telematics for monitoring the operating data	available
Power	295 kW / 400 hp	Electrical wiring in oil-resistant flexible metal conduits	available
Fuel tank capacity / average fuel consumption	400 L / 16 L/h	**Wireless remote control panel**	available
Hydraulic system		**Climate package: Sub-zero / Hot Climate***	package-dependent*
Type	closed with independent circuits	Fuel heating / High-temperature adaptation	package-dependent
Capacity	400 L	Hydraulic system heating / High-temperature adaptation	package-dependent
Pumps/motors	Bosch Rexroth	Engine heating / High-temperature adaptation	package-dependent
Conveyor system		Electrical cabinet heating / High-temperature adaptation	package-dependent
Crushing and discharging		Operating temperature	-35°C to + 40°C
Multilayer chevron rubber, oil and gasoline resistant, width	1200 mm	**Magnetic separator (optional)**	
Discharge height (on hydraulic cylinders)	1135–3537 mm	Extraction zone depth	up to 250 mm
Belt movement sensor	available	Weight of extracted items	up to 20 kg
Automatic reverse function	available	Lifting and lowering system on hydraulic cylinders	
Rebar damage protection	available	Weight	1250 kg
Belt control	available		
Cooling and ventilation system		**Crawler tracks (optional)**	
Internal combustion engine's and hydraulic system's radiator	radiator core with wide fin spacing and straight fins	Track type	Metal
		Track gauge	1850 mm
Fans	with automatic reverse mode	Ground clearance	295 mm
Filter dust sensor	with info display on the operator panel	Speed	up to 4.9 km/h
Cyclone filter	available	Weight	5700 kg
Industrial coarse filters	available	**General technical characteristics**	
Industrial fine filters	available	Weight of the base model of the multilift	17 500 kg

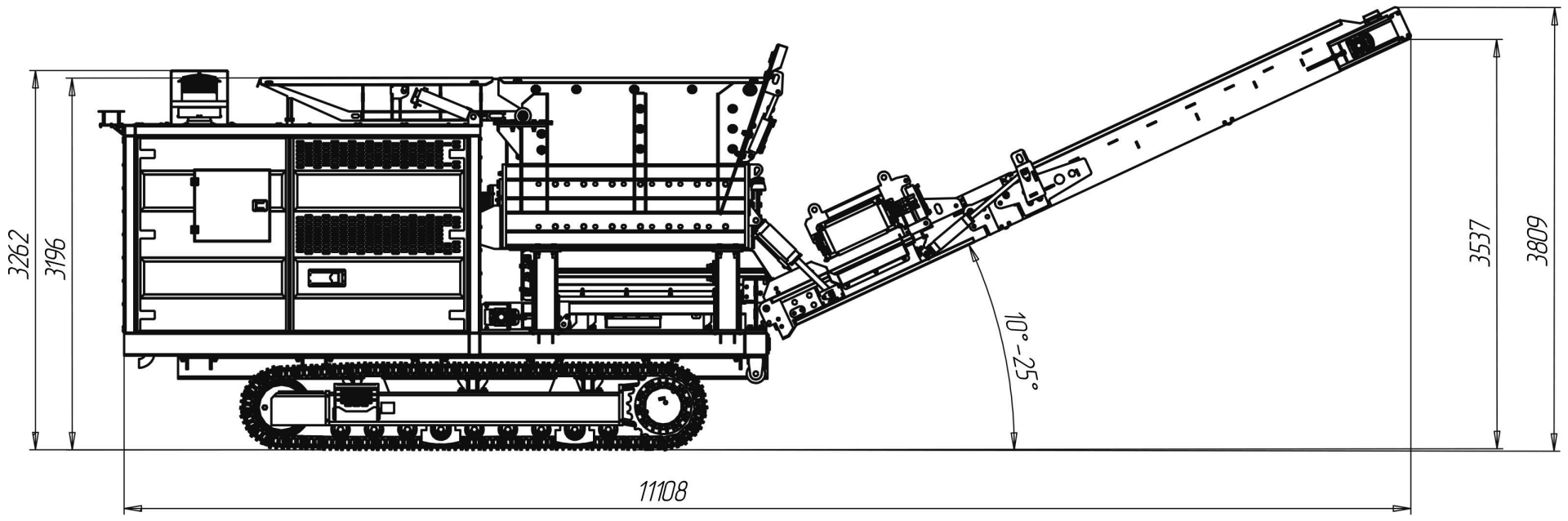
*Hot Climate configuration and specific high-temperature adaptations depend on operating conditions and are subject to technical confirmation.

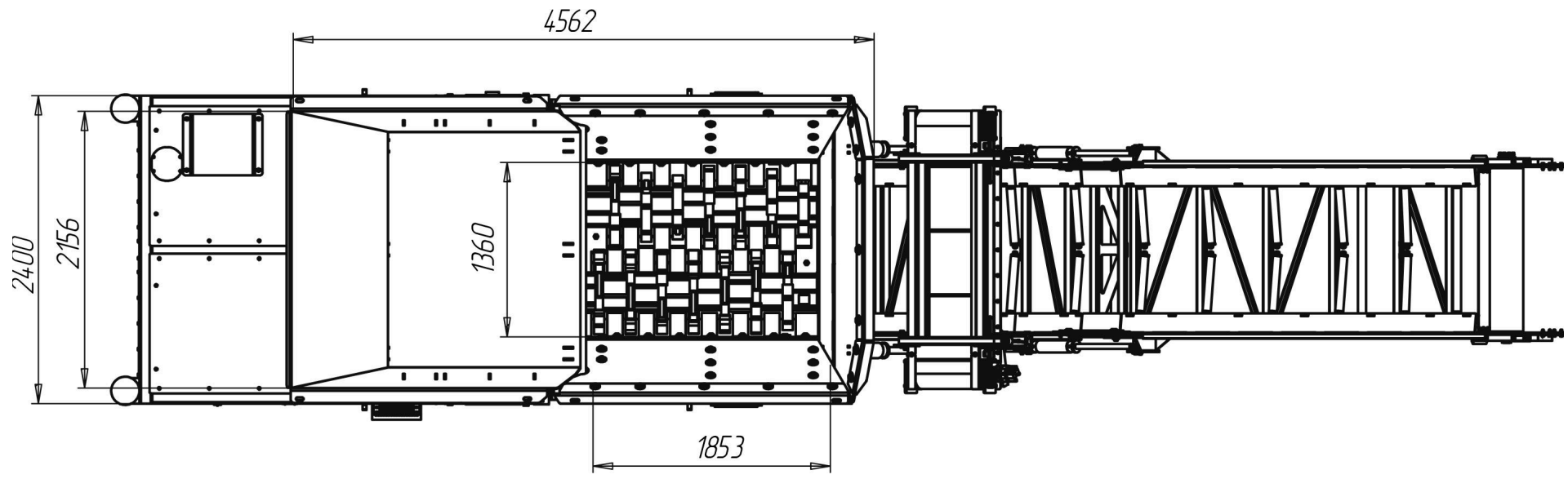
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UNIVERSAL 900

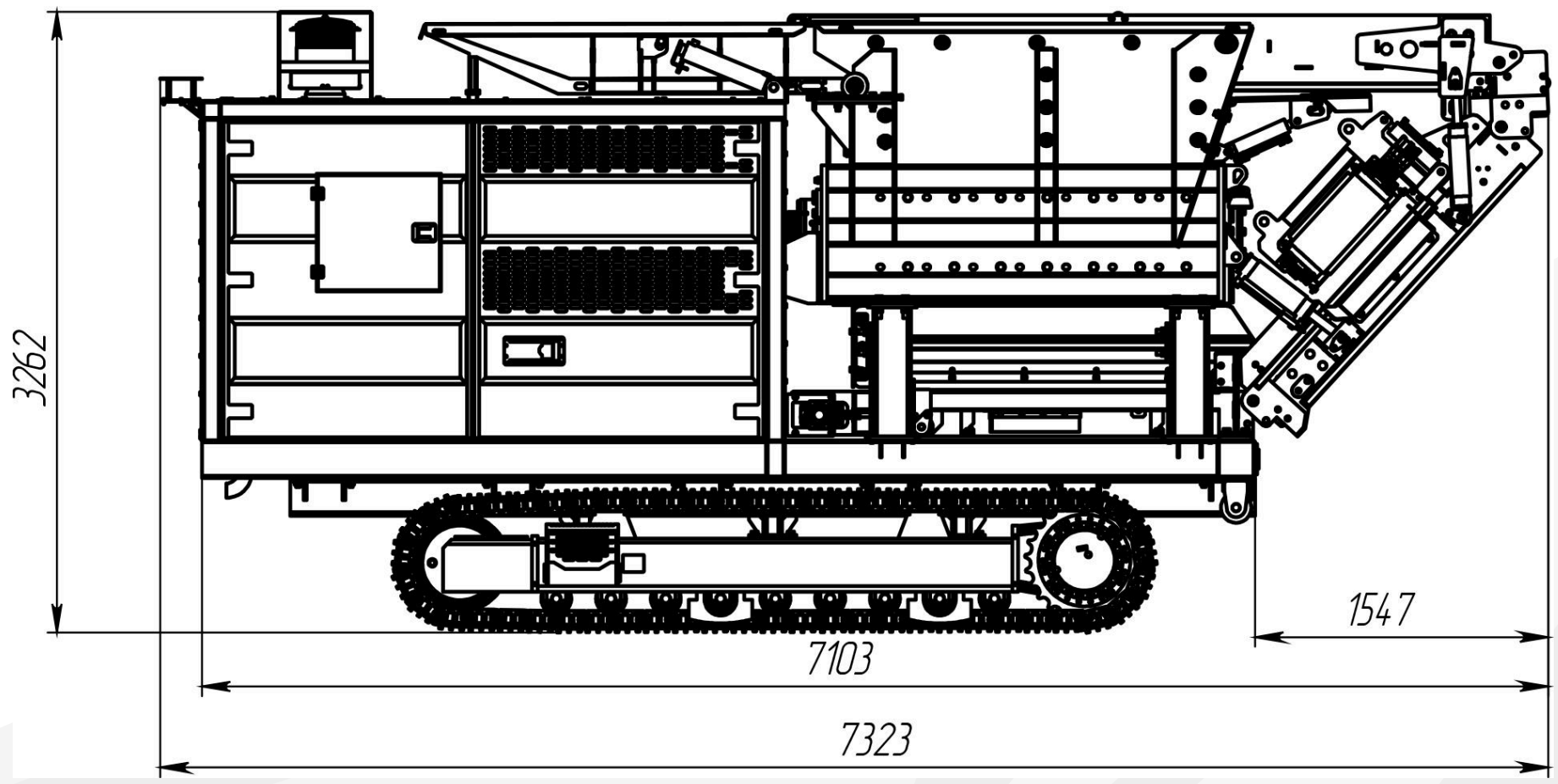
Mobile shredder - tracked version dimensions

Operating position





Transport position

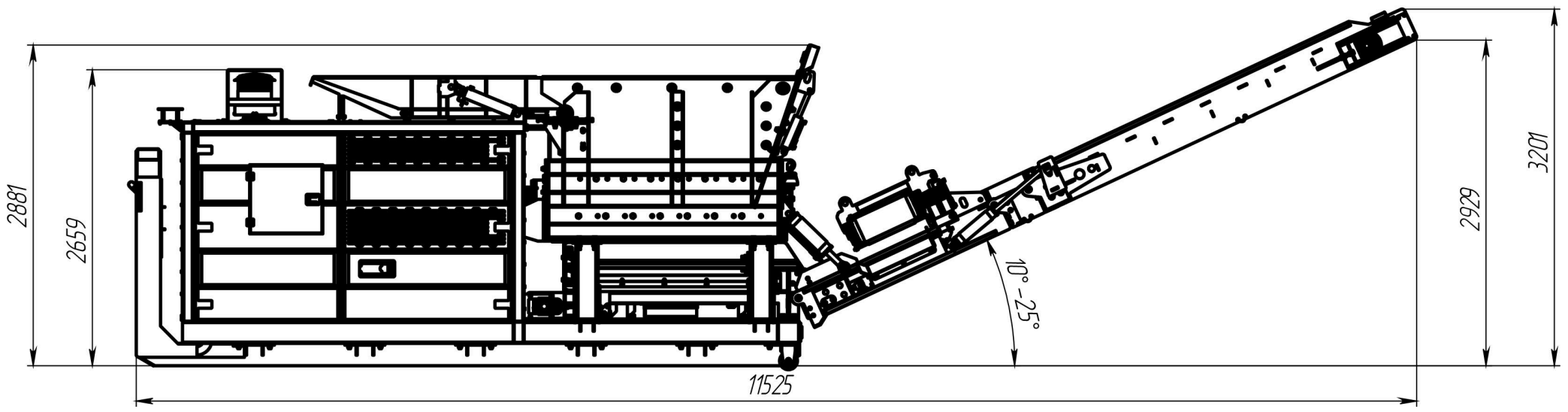


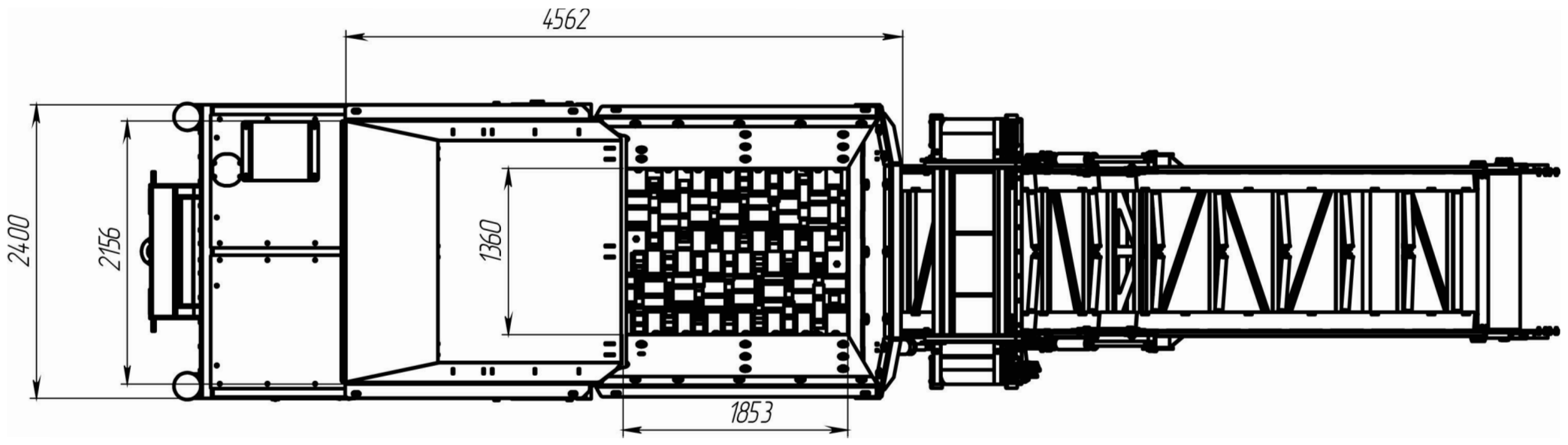
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UNIVERSAL 900

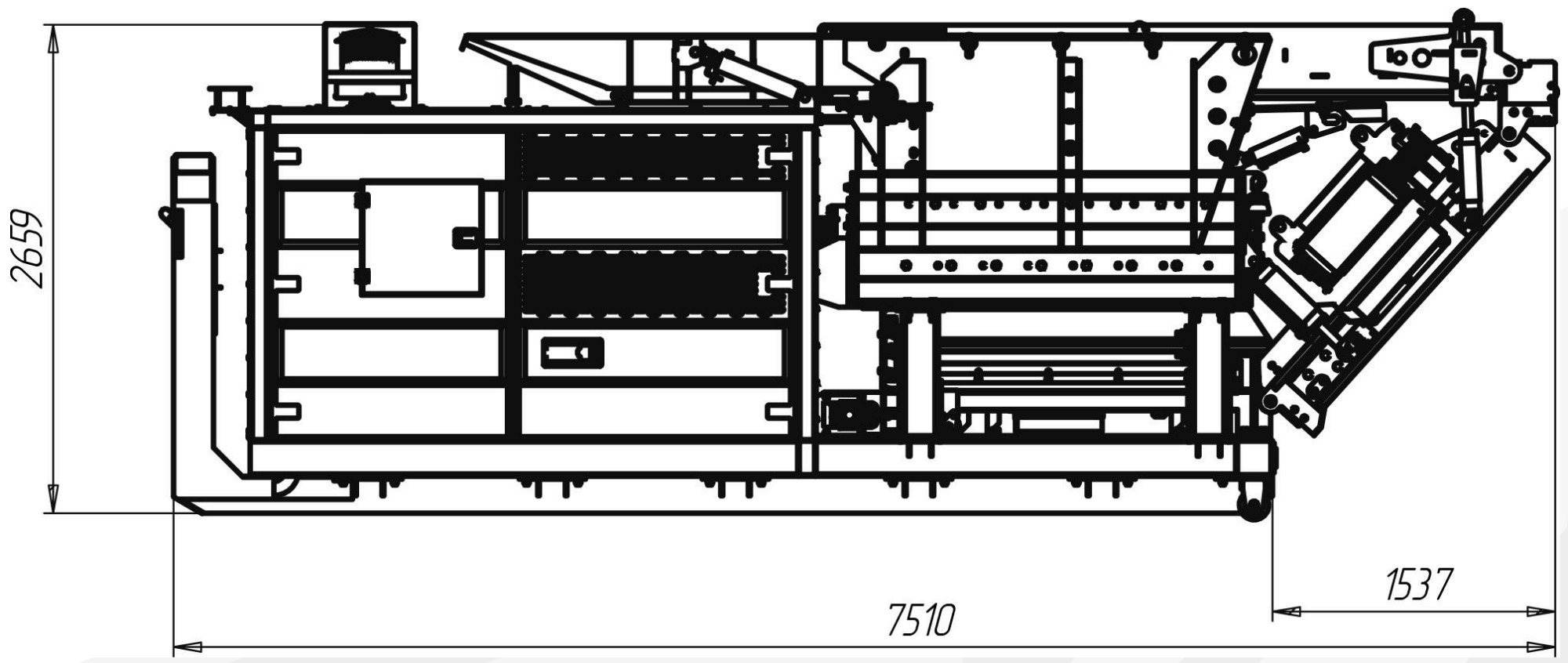
Mobile shredder - MULTILIFT version dimensions

Operating position





Transport position



MOBILE PRIMARY SHREDDERS



Mobile shredder **UNIVERSAL 950**

Throughput: up to 300 t/h.

Construction waste, granular asphalt, brickwork	100–300 t/h
Reinforced concrete	100–200 t/h
Wood waste, roots	20–80 t/h
Municipal solid waste (MSW)	15–40 t/h

UNIVERSAL 950 is equipped with two asynchronous shafts made of high-strength materials, allowing it to process a wide range of waste materials with minimal wear. MOLA shredders can be supplied with climate-specific adaptations according to operating conditions and selected configuration. The shredder's compact dimensions make it easy to transport on a standard three-axle hook-lift truck, or on a low-bed trailer when fitted with crawler tracks.

Output fraction: 0–150 mm.





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UNIVERSAL 950

Mobile shredder - General specifications

Parameters		Parameters	
Loading unit		**Control system**	
Feed hopper type	hydraulically operated tipping hopper	Intuitive touch-display control system	available
Dimensions (length × width)	5052 × 2400 mm	8 customizable shredding programs	available
Sides thickness	16 mm	Service Control System	available
Cutting unit		Engine temperature monitoring	available
Shaft size (length × diameter)	2343 × 660 mm	Fuel level control	available
Type	two-shaft asynchronous system	Oil pressure control	available
Quick-change shaft system	available	Oil temperature control	available
Blade material	Hardox 500 or equivalent	Oil level control	available
Torque for each shaft	140 000 Nm	Hydraulic overload protection	available
Rotation speed	5–30 rpm	Independent system for shaft management	available
Number of blades on each shaft	36	Light and audible alarms	available
Automatic reverse	available	Schneider Electric controller	available
Engine		Protection class of electrical equipment	IP65
Trade mark	Yuchai	Two-step protection of the electrical circuit and controller	available
Environmental class	Euro 3	Integrated IoT telematics for monitoring the operating data	available
Power	412 kW / 559 hp	Electrical wiring in oil-resistant flexible metal conduits	available
Fuel tank capacity / average fuel consumption	400 L / 16 L/h	**Wireless remote control panel**	available
Hydraulic system		**Climate package: Sub-zero / Hot Climate***	package-dependent*
Type	closed with independent circuits	Fuel heating / High-temperature adaptation	package-dependent
Capacity	400 L	Hydraulic system heating / High-temperature adaptation	package-dependent
Pumps/motors	Bosch Rexroth	Engine heating / High-temperature adaptation	package-dependent
Conveyor system		Electrical cabinet heating / High-temperature adaptation	package-dependent
Single conveyor system	available	Operating temperature	-35°C to + 40°C
multilayer chevron rubber, oil and gasoline resistant, width	1200 mm	**Magnetic separator (optional)**	
Discharge height (on hydraulic cylinders)	1135 – 3537 mm	Extraction zone depth	up to 250 mm
Belt movement sensor	available	Weight of extracted items	up to 30 kg
Automatic reverse function	available	Weight	1250 kg
Rebar damage protection	available	**Crawler tracks (optional)**	
Cooling and ventilation system		Track type	Metal
Internal combustion engine's and hydraulic systems radiator	radiator core with wide fin spacing and straight fins	Track gauge	1850 mm
		Ground clearance	346 mm
Fans	with automatic reverse mode	Speed	up to 1 km/h
Filter dust sensor	available	Weight	5700 kg
Industrial coarse filters	available	**General technical specifications**	
Industrial fine filters	available	Weight of the base model multilift	19 500 kg

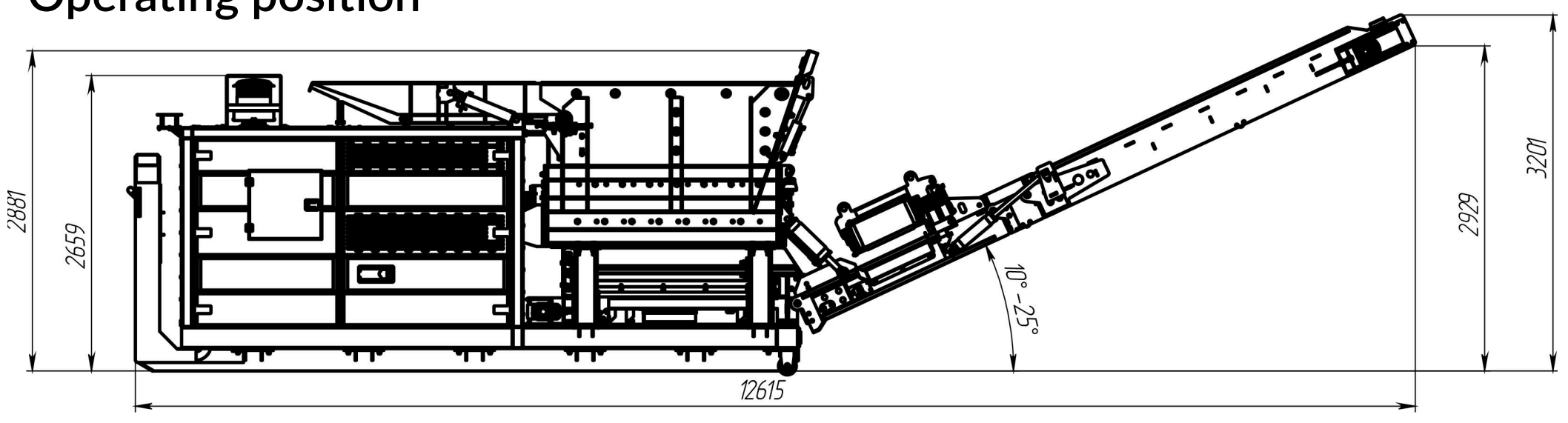
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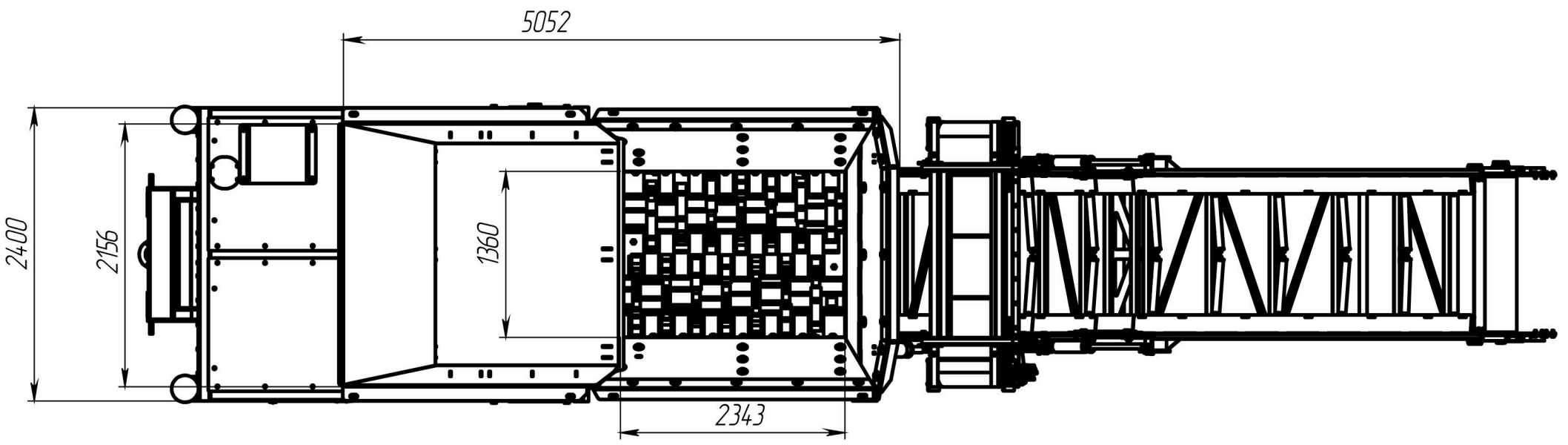
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UNIVERSAL 950

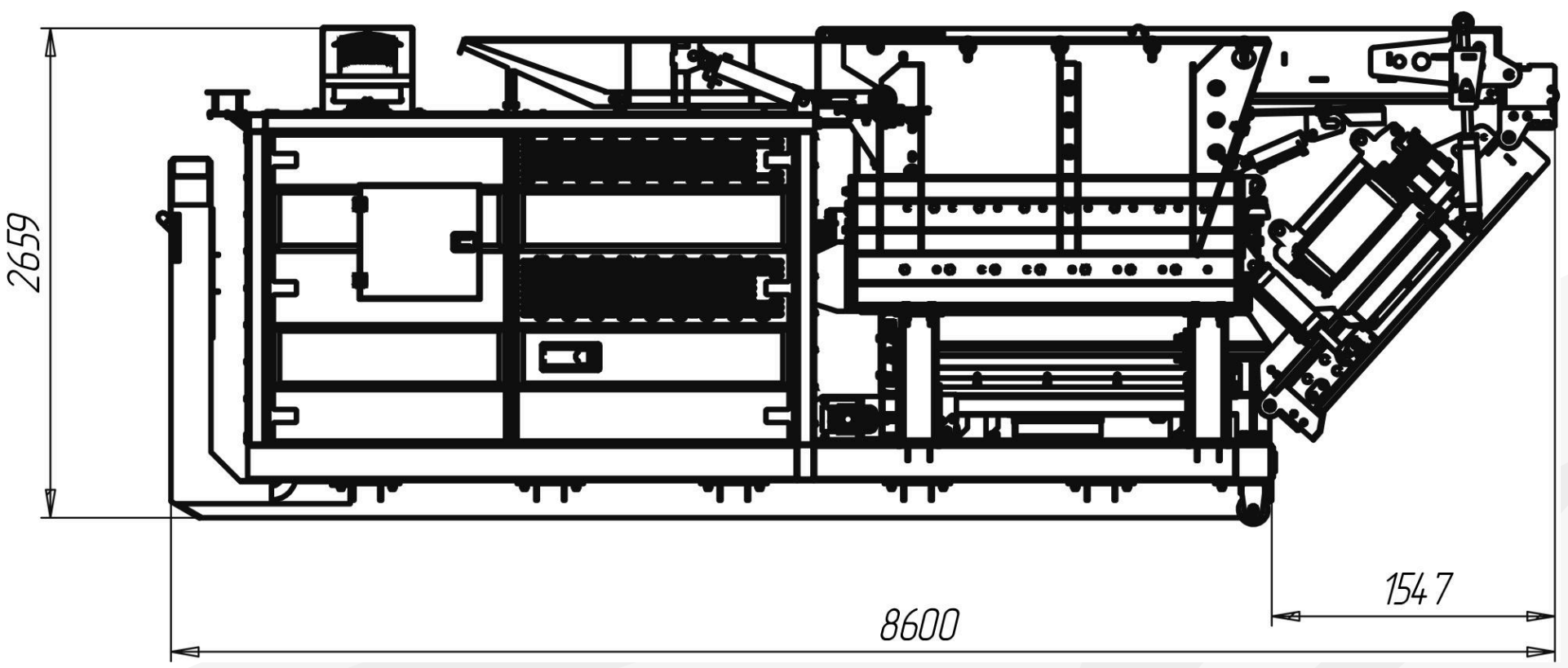
Mobile shredder - MULTILIFT version dimensions

Operating position





Transport position

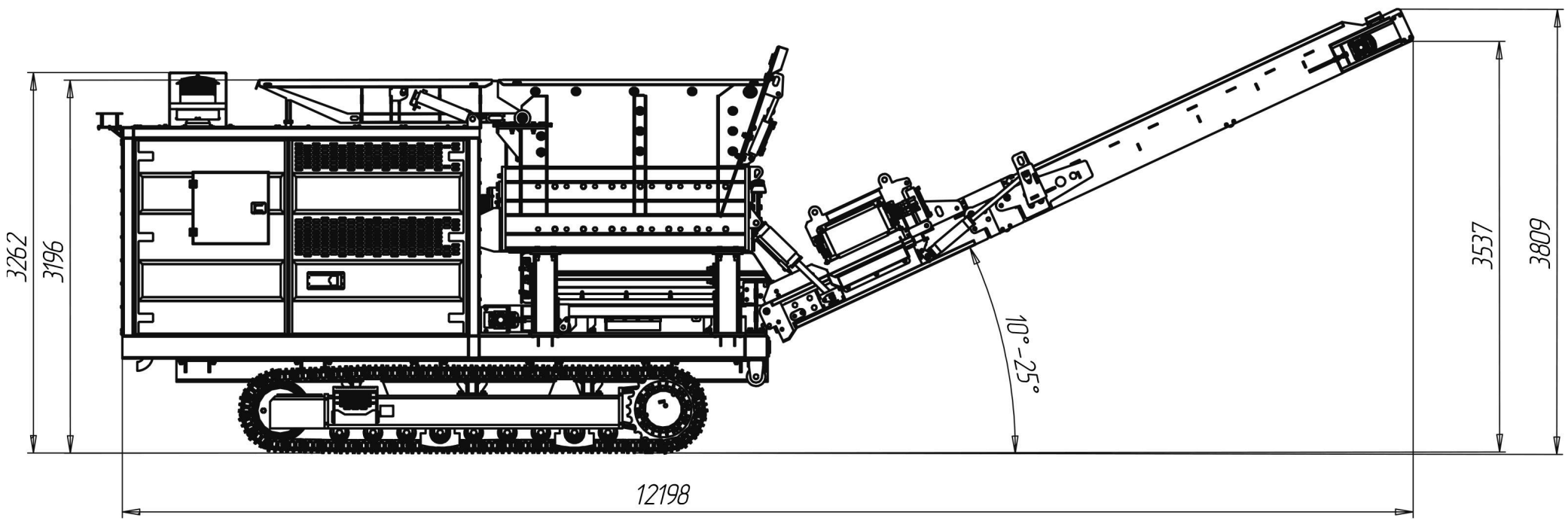


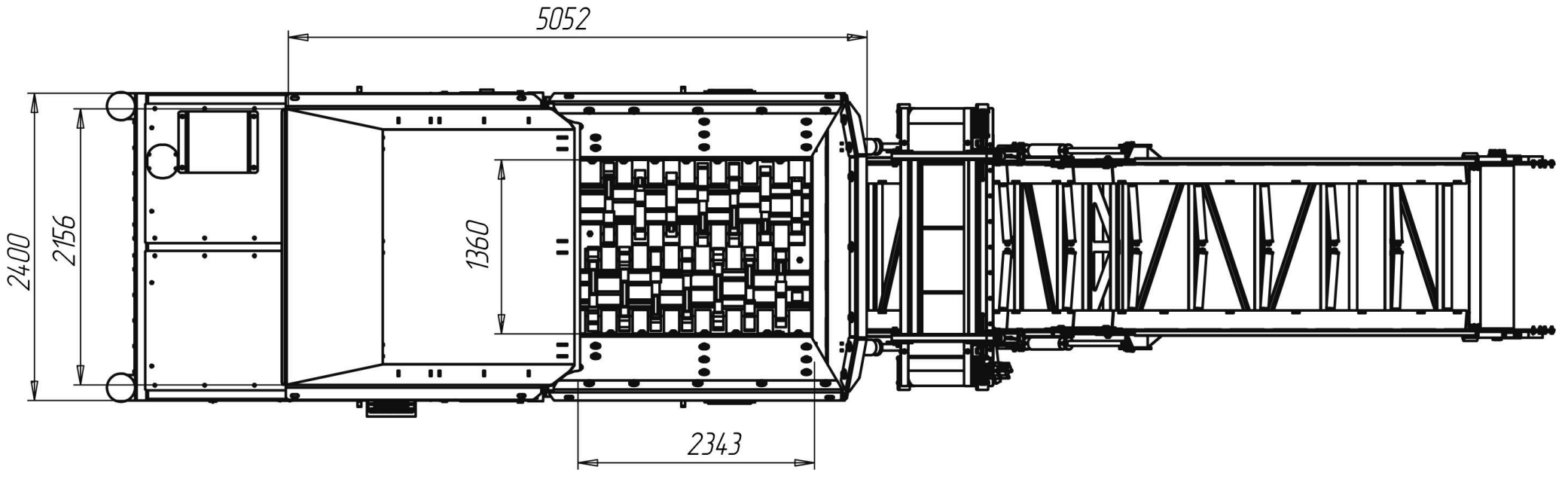
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UNIVERSAL 950

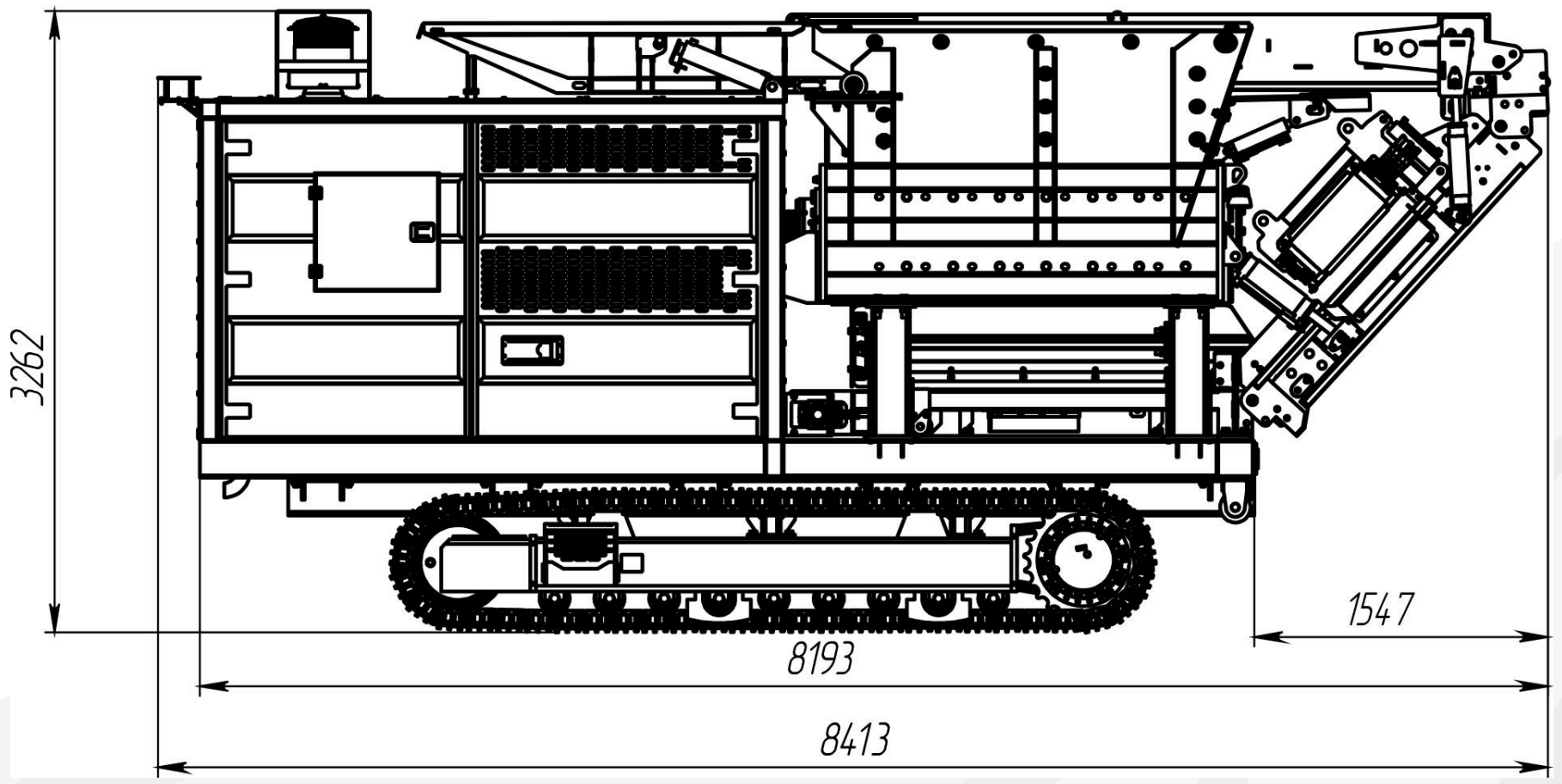
Mobile shredder - tracked version dimensions

Operating position





Transport position



MOBILE JAW CRUSHERS



Mobile jaw crushers MOLATREK

MOLATrek is a high-performance jaw crusher designed for processing reinforced concrete, construction waste, natural rock, and mineral materials. Thanks to its relatively compact dimensions, quick adjustment options, and easy maintenance, MOLATrek is a practical solution for demanding recycling and crushing tasks. The equipment can be connected to an external power supply.

- Euro 3 diesel engines
- Automatic material feeding (ultrasonic sensor in the crushing chamber)
- Intelligent crushing process control (simultaneous acceleration/deceleration of feeder and jaw crusher operation)
- V-belt drive belt monitoring
- Integrated rebar bender
- Reinforced belt (optional)
- Easy access to electrical equipment and control cabinets for operation and maintenance
- PLC control system and color display showing all operating parameters of the equipment
- Advanced automatic crushing control system, common for all medium-class mobile crushers
- Wiring in rubber-coated metal conduits (oil-resistant and impact-resistant)
- Operating temperature: −35°C to +40°C (Sub-zero) / Hot Climate: subject to technical confirmation
- High-efficiency air dedusting system for the engine air intake
- Engine cooling fan with automatic reverse (optional) - allows automatic reverse airflow to clear dust from the radiator
- Magnetic separator (optional)
- High ground clearance
- Air intake mast for ICE and electrical cabinet (cabinet with clean air pressurization)

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MOBILE JAW CRUSHERS

MOLATrek - general specifications

Parameters	MT106
Feed hopper	
Side walls	Hydraulically folding
Size (length × width)	4200 × 2284 mm
Side wall thickness	16 mm
Maximum volume	6 m^3
Feeder	
Bar grizzly	Adjustable (depending on material)
Lining	Replaceable (wear-resistant steel)
Size (length × width)	3800 × 1200 mm
Bar length	1466 mm
Drive	Hydraulic with variable speed
Jaw crusher	
Feed opening	1060 × 700 mm
Maximum feed size	580 mm
Flywheel rotation speed	280 rpm
Drive	Hydraulic (with reverse)
Hydraulically adjustable closed-side setting	70–200 mm, hydraulic
Main conveyor	
Width (monolithic chevron belt)	1000 mm
Length	10000 mm
Drive	Hydraulic
Driving drum	Self-cleaning tail drum
Speed control	available
Fines conveyor	
Width	650 mm
Length	3600 mm
Drive	Hydraulic
Rebar damage protection	included
Belt monitoring	included
Control system	
Intuitive touch-display control system	included
Light and sound alarm	included
Magnetic separator (optional)	
Extraction zone depth	up to 250 mm
Weight of extracted items	up to 30 kg
Hydraulic lifting and lowering system	included
Weight	1250 kg

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MOBILE JAW CRUSHERS

MOLATrek - general specifications

Parameters	MT106
Power unit	
Engine / power	Yuchai, 220 kW
Total electric power	-
Fuel tank	400 L
Engine and hydraulic system radiators	Radiator core with wide fin spacing and straight fins
Fans	Automatic reversing mode
Filter contamination sensor	Output to operator panel
Cyclone filter	included
Industrial coarse & fine filters	included
Hydraulic tank volume	200 L
Service control system	
Engine temperature control	included
Fuel level control	included
Oil pressure control	included
Oil temperature control	included
Oil level control	included
Hydraulic system overload protection	included
Schneider Electric controller	included
Electrical equipment protection class	IP65
Double protection of electronics & controller	included
Integrated IoT telematics for remote monitoring	included
Electrical wiring in oil-resistant flexible metal conduits	included
Wireless remote control	included
Climate package: Sub-zero (standard) / Hot Climate*	package-dependent*
Crawler chassis (std. configuration)	
Track type	Metal
Length	4862 mm
Shoe width	500 mm
Speed	up to 1 km/h
Drive	Hydraulic
General technical specifications	
Transport dimensions (L×W×H) mm	18490 × 3385 × 3800
Working dimensions (L×W×H) mm	20210 × 7795 × 4920
Total weight	40 000 kg
Capacity	180–540 t/h
Maximum climbing angle	14°
Maximum lateral inclination	10°

*Hot Climate configuration and specific high-temperature adaptations depend on operating conditions and are subject to technical confirmation.

TRACKED SCREENS



Mobile screens MOLAScreen

Throughput	up to 600 t/h
Maximum feed size	up to 200 mm, depending on model
Execution	Crawler tracks/Stationary

MOLAScreen tracked screens feature three screening decks and produce up to four finished fractions. They are suitable for quarrying, mining, construction waste processing, and soil screening. The machines are designed for easy on-site operation and efficient transport between job sites. The control system allows operators to adjust screening parameters quickly and easily.

- **Adjustable screen box inclination angle (adapts to material) 18°–30°**
- **Hydraulically folding discharge conveyors**
- **Easy access to all service points**
- **Remote monitoring for maximum optimization of work processes**



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TRACKED SCREENS

MOLAScreen - main specifications

Parameters	MS695F	MS695D
Feed hopper		
Type	Side wall thickness — 16 mm	Side wall thickness — 16 mm
Width	2 370 mm	2 098 mm
Length	3 000 mm	3 745 mm
Screen box		
Screen size	1500 × 6100 mm	1500 × 6100 mm
Motor	Hydraulic	Hydraulic
Feed conveyor		
Width	1 200 mm	1 200 mm
Length	13 500 mm	13 500 mm
Drive	Hydraulic	Hydraulic
Fine fraction conveyor (0-5 mm)		
Width	1 200 mm	1 200 mm
Length	6 800 mm	6 800 mm
Discharge height	4 000 mm	4 000 mm
Drive drum diameter	300 mm	300 mm
Tail drum diameter	250 mm	250 mm
Drive	Hydraulic	Hydraulic
Tracks		
Length	3 840 mm	3 840 mm
Track width	500 mm	500 mm
Drive	Hydraulic (engine / gearbox)	Hydraulic (engine / gearbox)
Control		
Type	Radio remote/ on-machine	Radio remote/ on-machine
Power unit		
Engine	Yuchai	Yuchai
Engine power	147 kW	147 kW
Diesel tank	350 L	350 L
Hydraulic tank	250 L	250 L
Working dimensions		
Length	14 500 mm	19 181 mm
Width	14 020 mm	20 929 mm
Height	6 900 mm	8 359 mm
Standard weight	34 t	35 t

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TRACKED SCREENS

MOLAScreen - main specifications

Parameters	MS695F	MS695D
Fine & medium fraction conveyor (0–20 mm)		
Width	800 mm	800 mm
Length	7 900 mm	8 938 mm
Discharge height	3 925 mm	3 925 mm
Drive drum D	300 mm	300 mm
Driven drum D	250 mm	250 mm
Drive	Hydraulic	Hydraulic
Medium fraction conveyor (20–40 mm)		
Width	800 mm	800 mm
Length	7 500 mm	8 941 mm
Discharge height	3 925 mm	3 925 mm
Drive drum D	300 mm	300 mm
Driven drum D	250 mm	250 mm
Drive	Hydraulic	Hydraulic
Coarse fraction conveyor (>40 mm)		
Width	500 mm	500 mm
Length	6 600 mm	6 600 mm
Discharge height	3 475 mm	3 475 mm
Drive drum D	300 mm	300 mm
Driven drum D	270 mm	270 mm
Drive	Hydraulic	Hydraulic
Transport dimensions		
Length	15 985 mm	15 985 mm
Width	3 200 mm	3 200 mm
Height	3 850 mm	3 850 mm
Standard weight	34 t	35 t
Operating parameters		
Max. output size	depends on the screening media configuration	depends on the screening media configuration
Capacity (up to)	150–300 t/h	150–600 t/h
Travel speed	up to 2 km/h	up to 2 km/h
Max. lateral inclination	14°	14°
Max. climbing angle	10°	10°
Air separator		
Availability	Optional	Optional

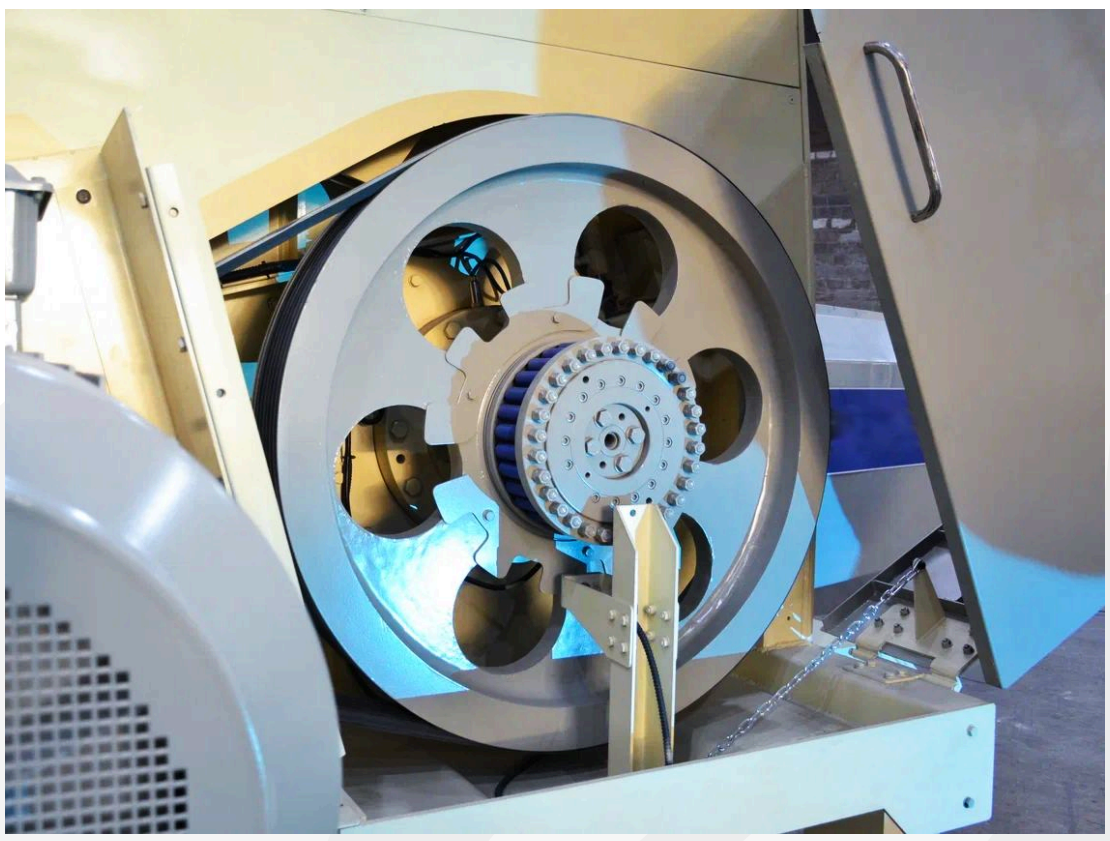
SECONDARY RDF SHREDDERS



Secondary RDF shredders METEOR

METEOR 1800, 2000, and 2800 are single-shaft shredders designed for the secondary size reduction of pre-shredded materials. They are suitable for producing refuse-derived fuel (RDF) and processing plastics and waste wood. The three models differ in drive power, dimensions, and output particle size.

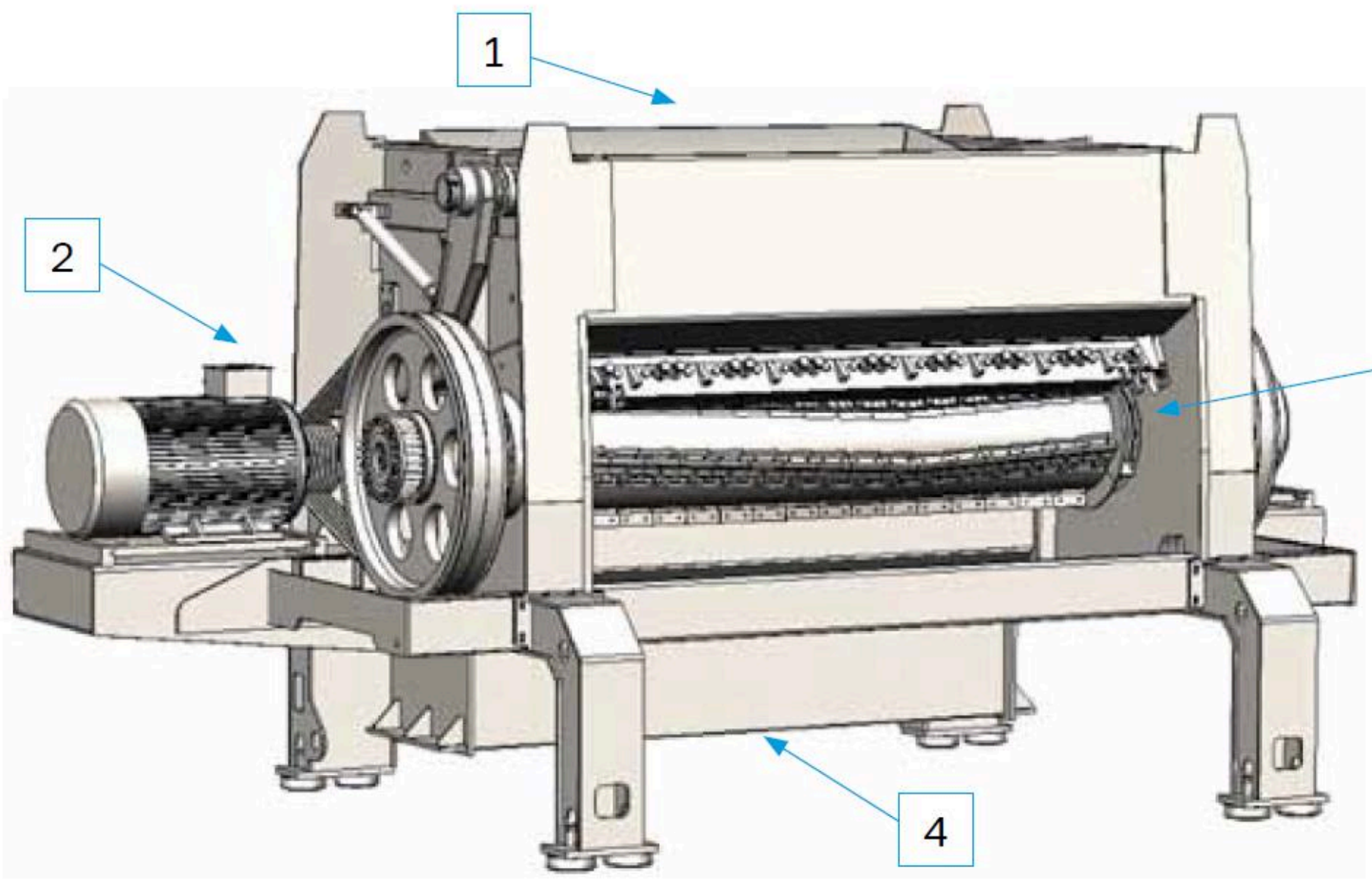




SECONDARY RDF SHREDDERS

RDF - General specifications

Parameters/Models	1800	2000	2800
Dimensions, m (L × W × H)	4.9 × 2.9 × 3.1	5.7 × 2.9 × 3.1	6.4 × 2.9 × 3.1
Feed opening, m (L × W)	2.03 × 1.79	2.13 × 2.03	2.85 × 2.03
Volume of cutting area, m^3	3.3	4.0	5.3
Total weight, t	18.5	22.5	26.0
Length of working (cutting) rotor, m	1.77	2.11	2.80
Rotor rotations per minute	355	355	367
Number of blades on a rotor, pcs.	50	60	80
Number of blades on a counter beam, pcs.	10	12	16
Number of blades on a scraper, pcs.	10	12	16
Number of sieve cassettes (hexagonal/round holes), pcs.	5	6	8
Input material size, mm (depending on material characteristics and screen configuration)	< 400	< 400	< 400
Output particle size, mm (depending on material characteristics and screen configuration)	10–100	10–100	10–100
Number and capacity of motors, kW	1 × 200	2 × 132	2 × 160



1. Loading area (loading device)
2. Drive unit (single-reduction belt gear) with a safety coupling
3. Cutting area with a rotor
4. Unloading area (unloading device)