



**FORUS**

Two shaft shredder  
FORUS **FLX 85** - 200 - 250 - 300

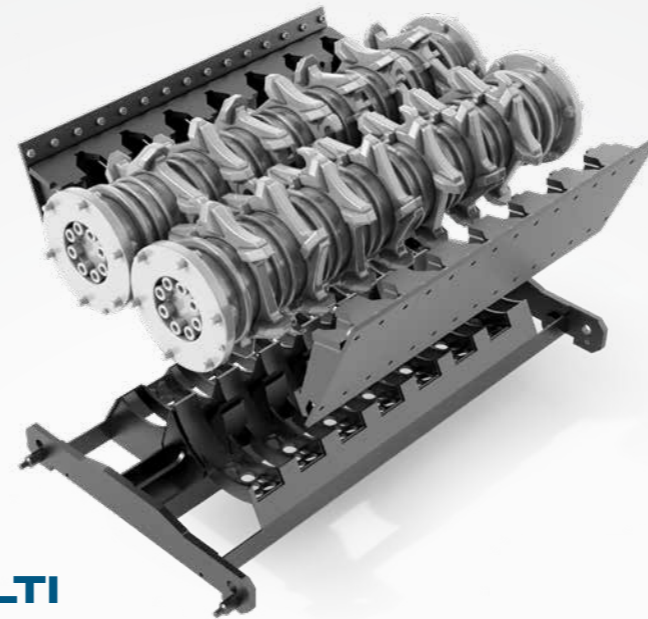
# FORUS **FLX 85** – 200 – 250 – 300 Shaft systems



## CLASSIC

Main application: Green and waste wood as trunks, saw mill residue, bush cut, wood from C&D

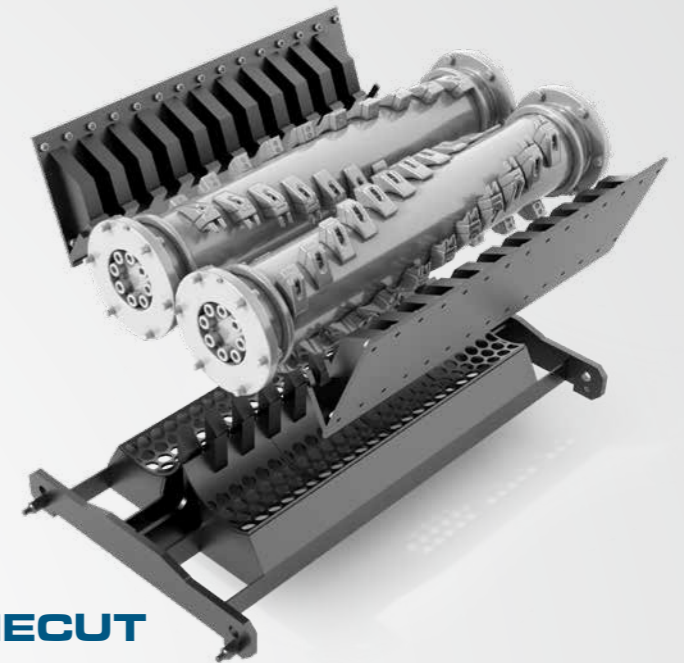
- synchronous shaft drive
- 6 – 14 shredding chambers per shaft length, according to customer requirements
- 3 – 6 knives per perimeter



## MULTI

Main application: Waste treatment and recycling – with focus on winding input as ribbons, textiles, mattress, carpet, foils

- asynchronous shaft drive
- 6 – 10 shredding discs per shaft length, according to customer requirements
- 4 – 8 knives per disc



## FINECUT

Main application: Biomass, bush cut and green waste, fine shredding of plastics as PET and HDPE hollow parts, composites and foils

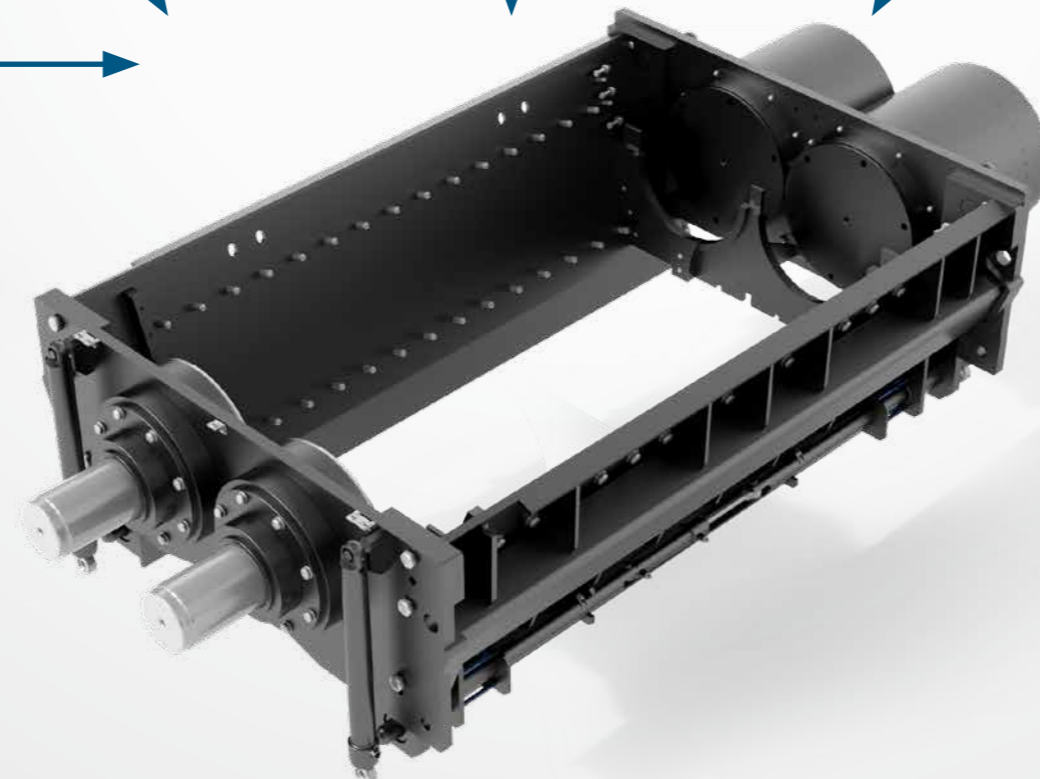
- asynchronous shaft drive
- 6 – 12 shredding tools per shaft length, according to customer requirements
- 3 – 8 knives per perimeter



## UNIVERS

Main application: All input of waste treatment and recycling

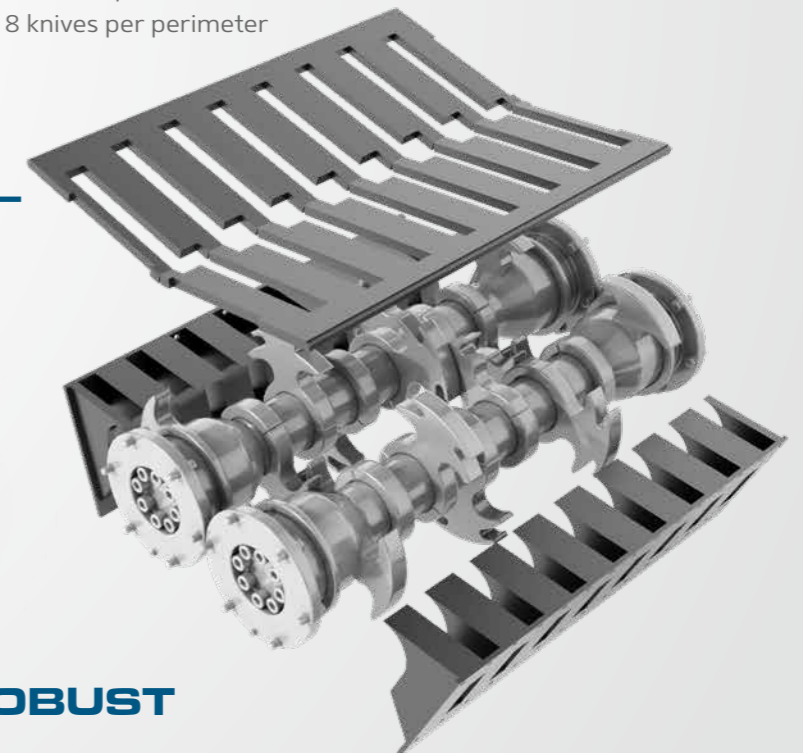
- synchronous shaft drive
- 5 – 12 shredding discs per shaft length, according to customer requirements
- 3 – 10 knives per disc



## ROBUST

Main application: Coarse shredding and disintegration of domestic waste, bulky waste and production waste

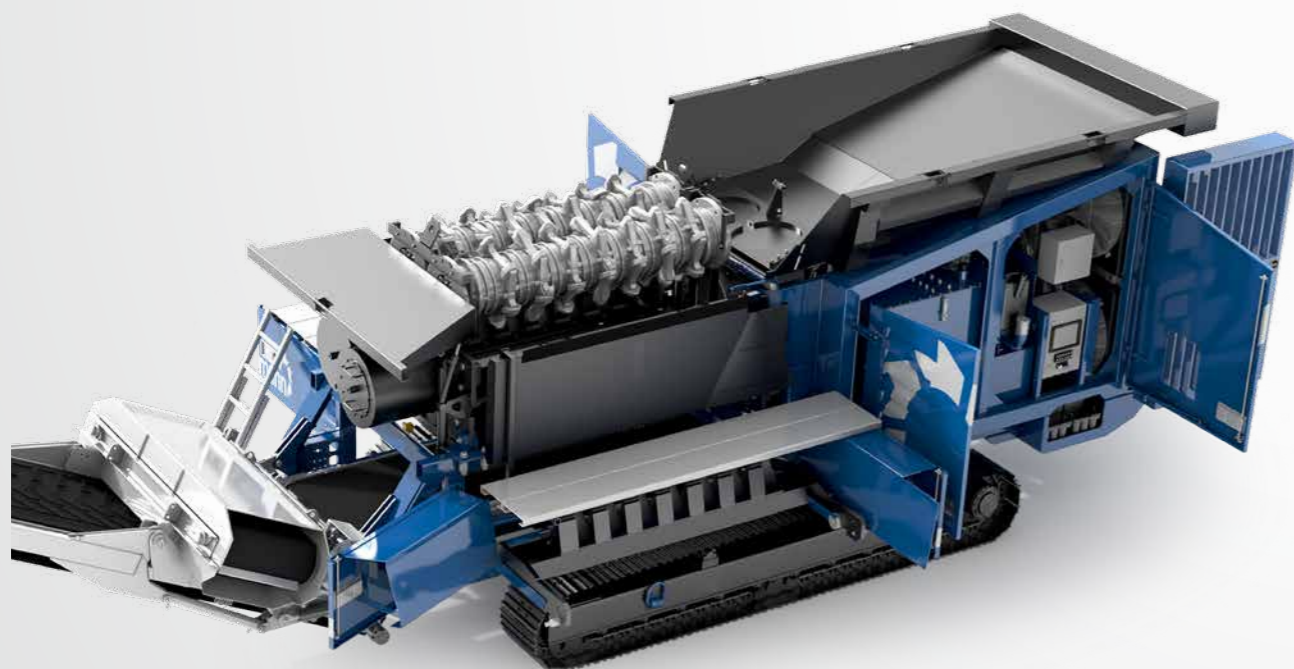
- asynchronous shaft drive
- 4 – 10 shredding tools per shaft length, according to customer requirements
- 2, 4 or 8 tools per perimeter



# Maintenance position



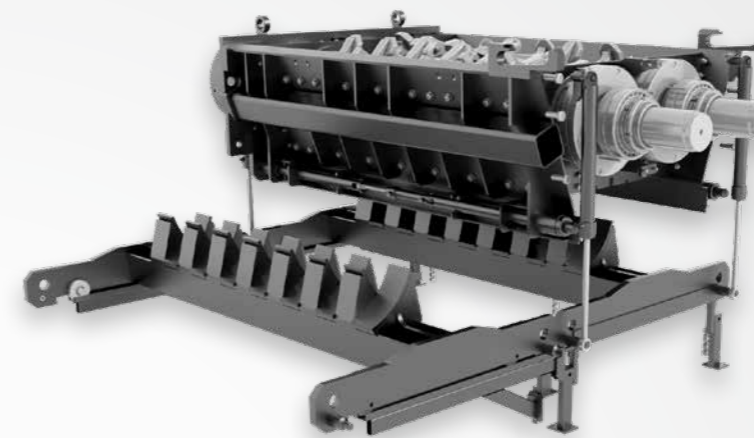
The side walls of the hopper are folded down at the push of a button and the rear wall is hinged backwards, the tilting hopper is moved forward. This allows an optimal accessibility to the shredding unit. The doors under the shredding unit are open and with the pedestal elements provide a stand with a comfortable working height. A second pedestal with a rise is mounted inside the door of the driving unit. This makes the removal of the upper wear plates during maintenance easier. All maintenance items are stored inside the shredder.



The afterbreaker bar is extended under the shredding unit. The shredding shafts are lifted by the changing device for removal and can be lifted by a suspension mechanism. These elements are also stored within the shredder.

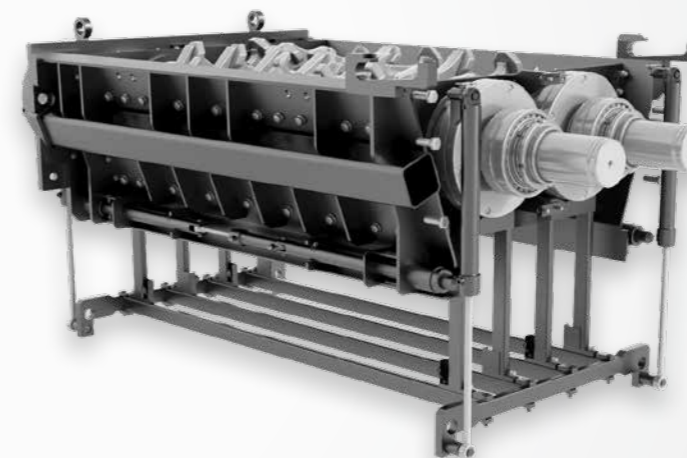
# Shredding shafts exchange

Step 1 - Afterbreaker bar - Lowering and removing



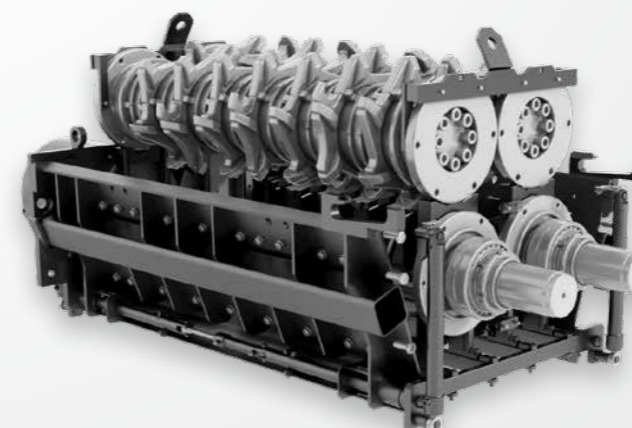
The afterbreaker bar can be unlocked and lowered hydraulically, in this position it can be removed on rails.

Step 2 - The shredding shaft changing device



The changing device can be mounted beyond the shredding unit by plugging. Thereafter, the device can be hydraulically lifted so the shredding shafts safely lie on it. The bolts of the couplings can be removed now.

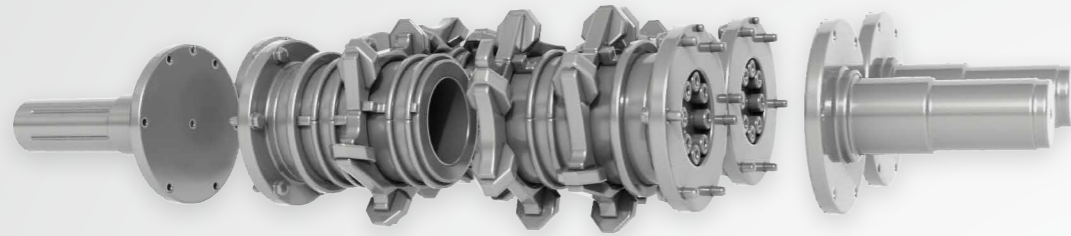
Step 3 - Lifting and removing of the shredding shafts



Subsequently, the shredding shafts can be lifted hydraulically up to the end stop, hydraulically locked and can be removed with the lifting device. The shredding shaft assembly takes place in reverse order.

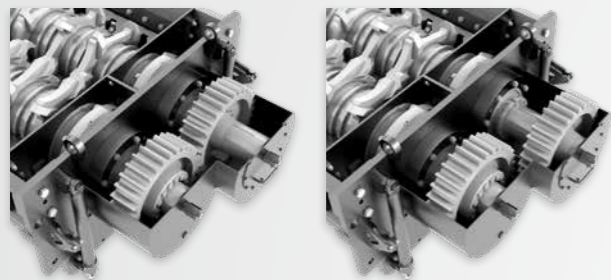
# Highlights and unique selling points of the FORUS **FLX 85** – 200 – 250 – 300

## Shaft coupling



The shafts are equipped with bolted flange couplings for fast and save changing.

## Synchronous gear box



For the first time a synchronous and asynchronous drive of the shafts is possible by switching over in the synchronous gear housing.

## Lifting hopper

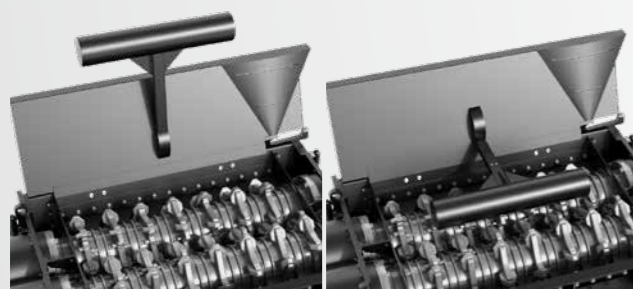


The area of the shaft coupling is automatically released by moving the tilting hopper part and opening of the rear wall of the hopper. The bolts of the shaft couplings are freely accessible after removing of the upper wear plate.

## Hopper rear wall

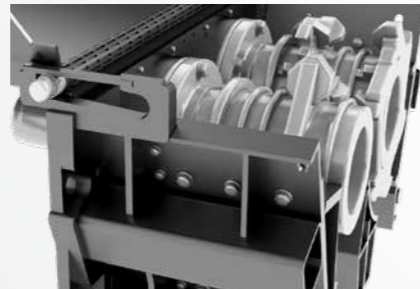


## Pressing device



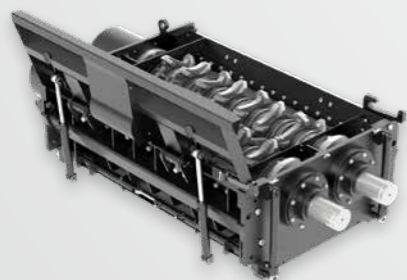
A hydraulic pusher was realized for the supplying of light and bridging input to the shafts at a mobile FORUS shredder for the first time.

## Moving of the hopper



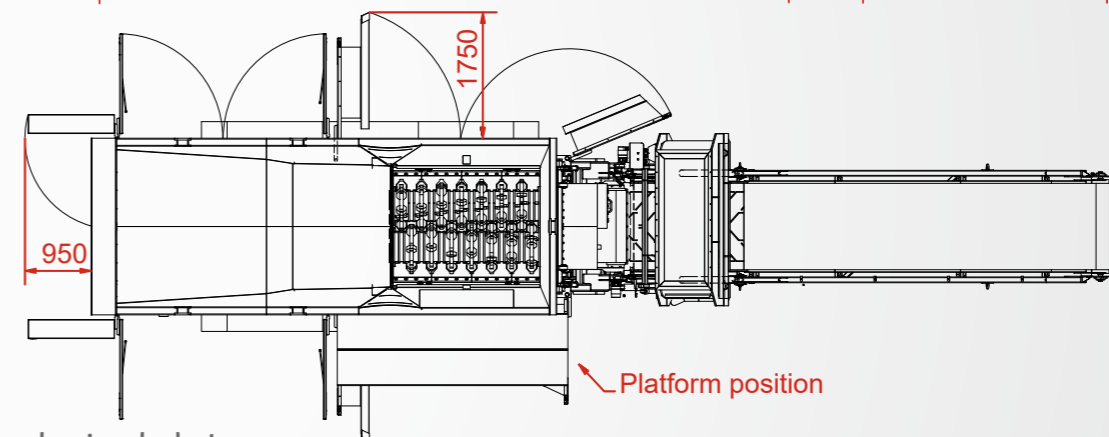
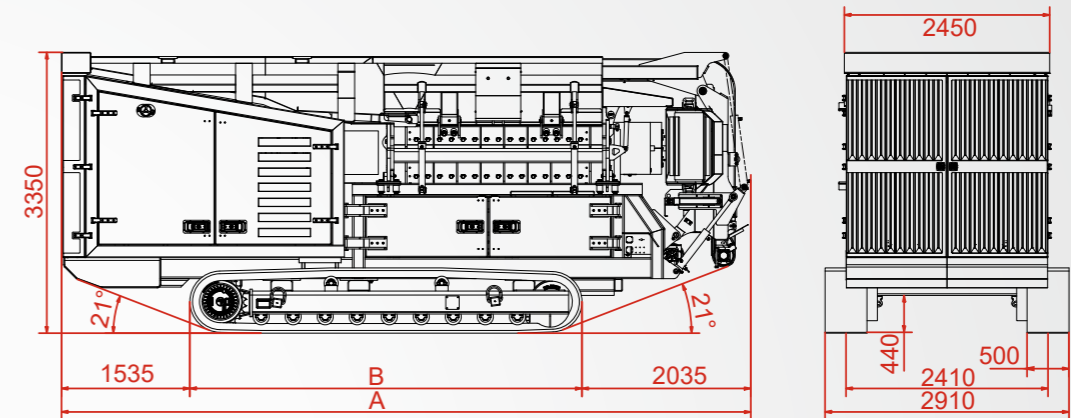
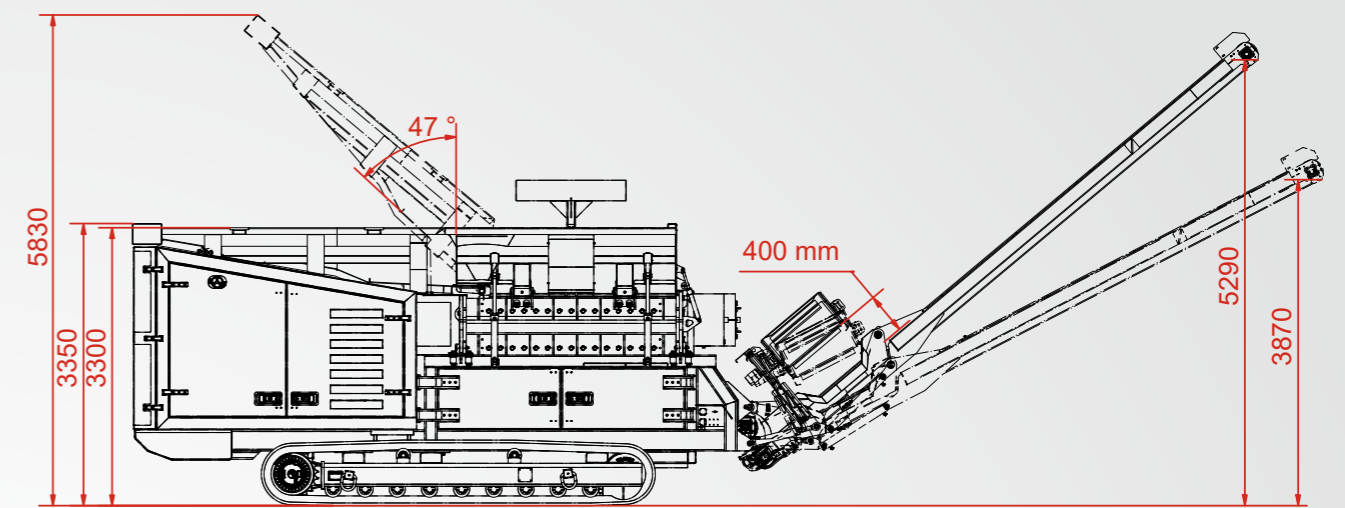
Moving and lifting of the tilting hopper part is done with the same pair of hydraulic cylinders.

## Hopper side wall at the top



Both side walls of the hopper can be folded almost 180°. That realizes a free access to the shafts for maintenance and changing of the shafts. The maintenance platforms at the doors of the shredding unit allow a safe and ergonomically working.

## Hopper side wall down



## Technical data

	FORUS FLX 85 – 200 – 250 – 300
Axle base	570 mm
Flying circle of the tools	850 mm
Shredding shaft speed	8 – 33 rev./min
Drive of the shafts switchable	asynchronous / synchronous
Shredding shaft drive	hydraulically / mechanically
Gear box ratio	i= 101.6
Electric- hydraulic unit	3 kW, 24 V
Conveyor discharge height	up tp 5.5 m (step less)
Conveyor belt speed	0.5 – 3 m/s (step less)
Lifting device for after breaker bar or shredding shafts	Hydraulically liftable/ lowerable
Capacity of the lifting hopper part	3.7 m <sup>3</sup>
Hopper	hydr. lifting, lowering, shifting
Side walls of the hopper	hydraulic lifting, lowering
Rear wall of the hopper	hydraulic lifting, lowering
Hydraulic tank capacity	250 l
Fuel tank capacity	1,000 l

	FLX 85 – 200	FLX 85 – 250	FLX 85 – 300
Working length of the shredding shafts	2 m	2.5 m	3 m
Capacity of the fix hopper part	3.3 m <sup>3</sup>	3.9 m <sup>3</sup>	4.5 m <sup>3</sup>
Weight	34 t	36 t	38 t
Transport length (A)	8.3 m	8.9 m	9.5 m
Length of tracks (B)	4.68 m	5.19 m	5.72 m
Engine power	354 kW	405 kW	455 kW
Max. torque moment	320,000 Nm	360,000 Nm	400,000 Nm

## Options:

- Extension of the hopper walls up to 1 m
- Rubber pads for the truck chain system
- Fog system for dust suppression
- Over belt magnet with neodymium core
- Hydraulic pusher with an angle of 120°
- Hydraulic screw driver for coupling bolts
- OPTIMA high power batteries up to 450 Ah at 24 VDC
- Avoiding collisions by securing the linear movements with radio and telemetry sensors.

# Premium mobile recycling machines from Eggersmann:

**BACKHUS** Windrow Turner



**TEUTON** Universal shredder



**Terra Select** Star Screens



**Terra Select** Trommel Screens



**Terra Select** Windsifters



**Eggersmann** Global After Sales



## Eggersmann

Eggersmann GmbH

HQ | Halle  
Ravenna-Park 2  
33790 Halle (Westf.)  
Germany

sales@f-e.de  
www.f-e.de

Technology Center | Shredding  
Siegfried-Marcus-Straße 37  
17192 Waren (Müritze)  
Germany

Fon +49 3991 1723-0  
Fax +49 3991 1723-33

Eggersmann Service

Rothenschlatt 18  
26203 Wardenburg  
Germany

Tel +49 4407 9133-0  
Fax +49 4407 9133-101

service@f-e.de



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