

## PRIMARY SHREDDERS

Diesel / Electric Type

45 / M5 / 65 / 75 / 85 / 95



# INNOVATIVE SOLUTIONS FROM OLNOVA

Primary shredders are suitable for recycling of waste wood, root stems, green waste, bulky, commercial and domestic waste as well as in the processing of car bodies, tires, aluminum profiles and light metals. Owing to constant improvements tailored to market's demand our equipment is the best solution for various tasks.

## OVERVIEW

- quick set-up
- customizable
- high throughput
- thrifty operation
- low consumption
- extremely durable
- low noise emission
- low dust generation
- user-friendly handling
- long-lasting shredding parts





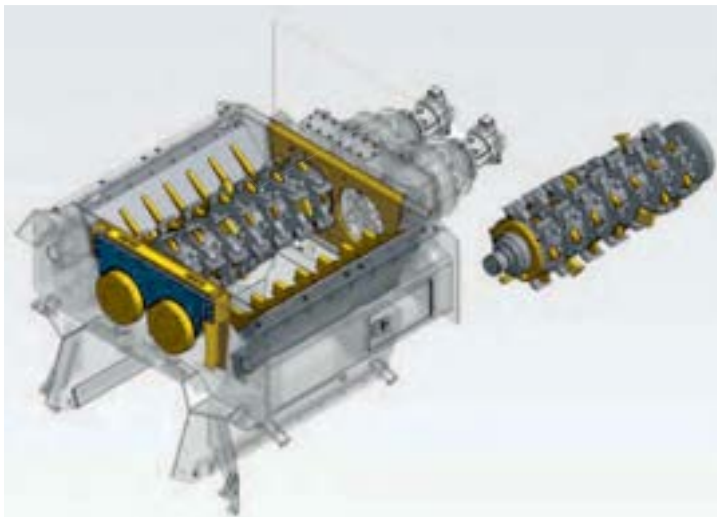
## ***TWIN-SHAFT SHREDDING***

Primary shredders work by utilizing two shafts at once. The shafts drag in material with their interlocking hooks and knives and shred it efficiently. When the hydraulic upper level pressure is reached during the shredding process the shafts start to rotate in reverse automatically.

Depending on the input material and the requirements of the output material, special shaft configurations might be applied.

Mainly, output material size varies between approx. 50 mm and 400 mm.

## ***HIGH PERFORMANCE SHAFTS***



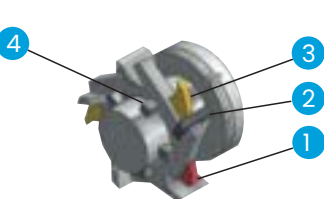
- self-cleaning
- long service time
- no backup pressure required
- automatic reverse mode
- exceptionally good intake performance
- entanglement from wires or longfibered materials is preventable

# DIVERSE SHAFTS

Each shredding task requires individual shafts. Plethora of shredding shafts variations makes it possible to meet individual customer requirements.

## DIVERSE SHAFTS

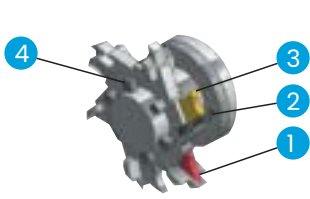
### Option 1



- 1 blunt forward hook
- 2 knife
- 3 forward hook
- 4 blocks

fig. 5-knives with blocks

### Option 2

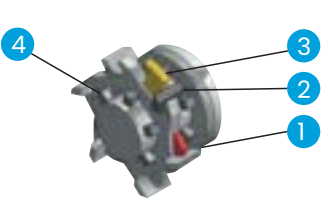


- 1 blunt forward hook
- 2 knife
- 3 forward hook
- 4 blocks

fig. 6-knives with blocks

## WASTE SHAFTS

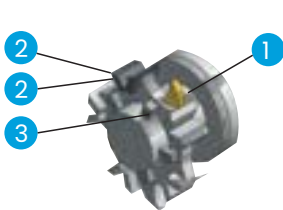
### Option 1



- 1 blunt forward hook
- 2 knife
- 3 combination forward / backward hook
- 4 blocks

fig. 6-knives with blocks

### Option 2



- 1 hook
- 2 knife (v-shaped)
- 3 blocks

fig. 6-knives with blocks, forward-backward

Model 5

75





# HIGH PERFORMANCE SHAFTS

metal

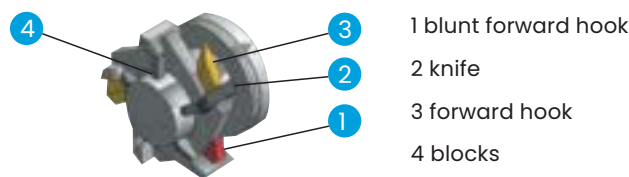
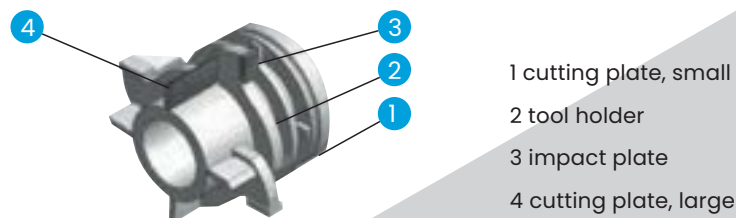


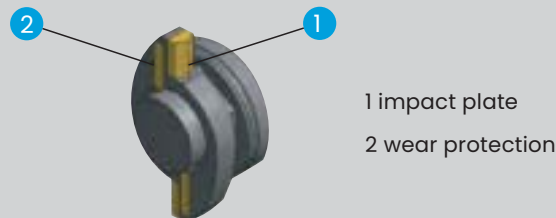
fig. 5-knives with retainers

## SPECIAL SHAFTS

railway sleepers



stones and soils



85

95



# TIMBER SHREDDING EXCELLENCE

Our customers benefit tremendously from our more than two decades experience in recycling branch. We customise specifically every shredder in order to match every task. Correctly equipped and configured equipment grants cost efficient, long-lasting, economical and high output performance.

## AREAS OF APPLICATION

- Pallets
- Root stems
- Stem wood
- Waste wood
- Green waste
- Cable drums
- Railway sleepers
- Demolition wood





# PERFORMANCE DATA\*

Material	45	65	75	85	95
Waste Wood	12 t/h	30 t/h	60 t/h	120 t/h	230 t/h
Pallets	10 t/h	25 t/h	50 t/h	90 t/h	200 t/h
Cable Drums	6 t/h	20 t/h	40 t/h	60 t/h	130 t/h
Railway Sleepers	x	15 t/h	25 t/h	50 t/h	70 t/h
Root Stems	8 t/h	20 t/h	35 t/h	55 t/h	90 t/h
Green Waste	6 t/h	15 t/h	30 t/h	50 t/h	80 t/h

\* The provided performance data is an approximation, no guarantee is given and depends on the corresponding features of the primary shredder, the shaft configuration and the optimal material in-feed.

x Primary shredder is not intended to operate with this material.

# FIRST CLASS WASTE DISPOSAL

Any type of material can be pre-shredded to the required output size if the tools are tuned accordingly.

Our OLNOVA-shredders are used along with incineration plants, in the processing of alternative fuels, as primary shredders at sorting facilities. Twin-shaft shredding makes it possible to obtain output material of suitable properties that can be utilized for further needs

## AREAS OF APPLICATION

- Construction and demolition waste
- Commercial waste
- Industrial waste
- Domestic waste
- Vehicle tires
- Bulky waste
- Paper rolls
- Paper







# PERFORMANCE DATA\*

Material	45	65	75	85	95
Domestic Waste	10 t/h	20 t/h	50 t/h	100 t/h	200 t/h
Industrial Waste	8 t/h	15 t/h	45 t/h	80 t/h	150 t/h
Bulky Waste	8 t/h	15 t/h	30 t/h	50 t/h	110 t/h
C & D Waste	8 t/h	15 t/h	35 t/h	80 t/h	150 t/h
Paper	5 t/h	10 t/h	20 t/h	45 t/h	70 t/h
Paper Rolls	5 t/h	8 t/h	15 t/h	30 t/h	60 t/h
Tyres	5 t/h	8 t/h	20 t/h	30 t/h	50 t/h

\* The provided performance data is an approximation, no guarantee is given and depends on the corresponding features of the primary shredder, the shaft configuration and the optimal material in-feed.



## LEADING IN METAL RECYCLING

We have been able to establish successful length of service in field of scrap processing and especially with the primary shredders 95 series it is possible to efficiently shred bulky scrap metal and car bodies.

Shafts have been constantly advanced and improved to the required needs to fit to up-to date market. Thus, with the help of these special metal shafts it is possible to achieve an optimal output material size.



### AREAS OF APPLICATION

- E-waste
- Car bodies
- White goods
- Aircraft scrap
- Engine blocks
- Aluminum bales
- Light mixed scrap
- Aluminum profiles



# PERFORMANCE DATA\*

Material	45	65	75	85	95
Aluminum	5 t/h	8 t/h	12 t/h	20 t/h	40 t/h
Light mixed scrap	x	7 t/h	10 t/h	18 t/h	25 t/h
Car bodies	x	x	x	10 t/h	25 t/h
White goods	x	7 t/h	10 t/h	20 t/h	35 t/h
Engine blocks	x	x	5 t/h	10 t/h	15 t/h



\* The provided performance data is an approximation, no guarantee is given and depends on the corresponding features of the primary shredder, the shaft configuration and the optimal material in-feed.

x Primary shredder is not intended to operate with this material.



# MODEL 5



## PERFECT MOBILE RECYCLING SOLUTION

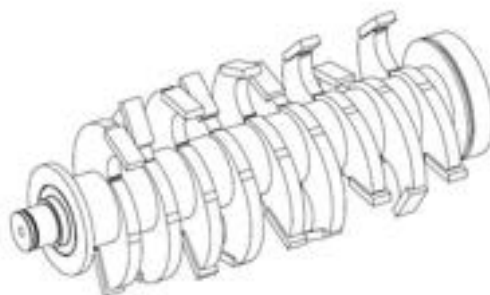
Primary shredder Model 5 is designed for recycling of wood waste, wood pallets, asphalt, concrete. It is built on track suspension and includes Hook Lift which provides a better mobility.

### Advantages

- Cost saving and efficient diesel engines VOLVO – TAD581VE (EU), TAD572VE (US), TAD551VE (ROW)
- Track Suspension & Hook Lift
- Quick shaft replacement system
- Hydraulically controlled side combs
- Hydraulic discharge conveyor
- Reverse shafts mode
- 3 Shredding modes : wood / universal / asynchronous
- Overbelt magnet
- Tilting hopper
- Industry 4.0 – Special module provides remote performance analysis, customer feedback and troubleshooting worldwide

### Areas of Application

- C&D Waste
- Concrete
- Asphalt
- Wood Waste
- Biomass
- Plastic Waste



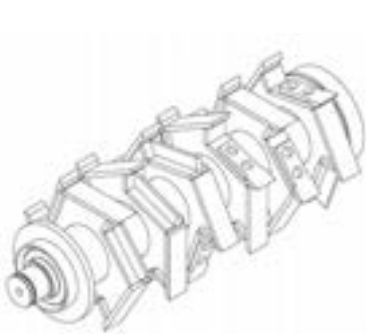
Shafts for Concrete / C&D Waste



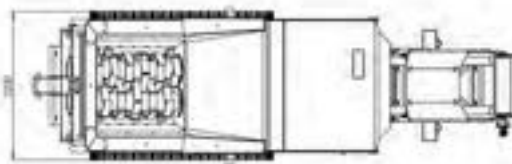
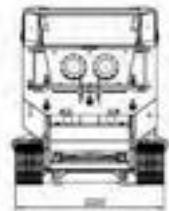
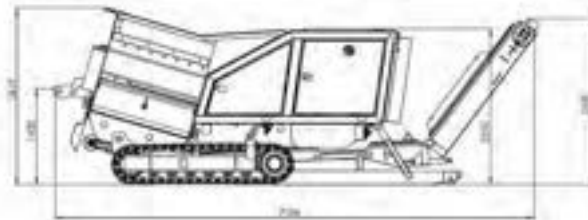


# PERFORMANCE DATA\*

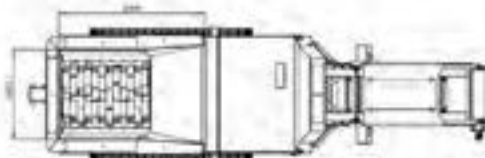
MATERIAL	OUTPUT
C&D Waste	80-100t/h
Concrete	60-80 t/h
Asphalt	60-80 t/h
Wood Waste	10 t/h
Biomass	20 t/h
Plastic Waste	15 t/h



Shafts for Wood / Scrap / Biomass / Plastic Waste



Adjustable Side Combs

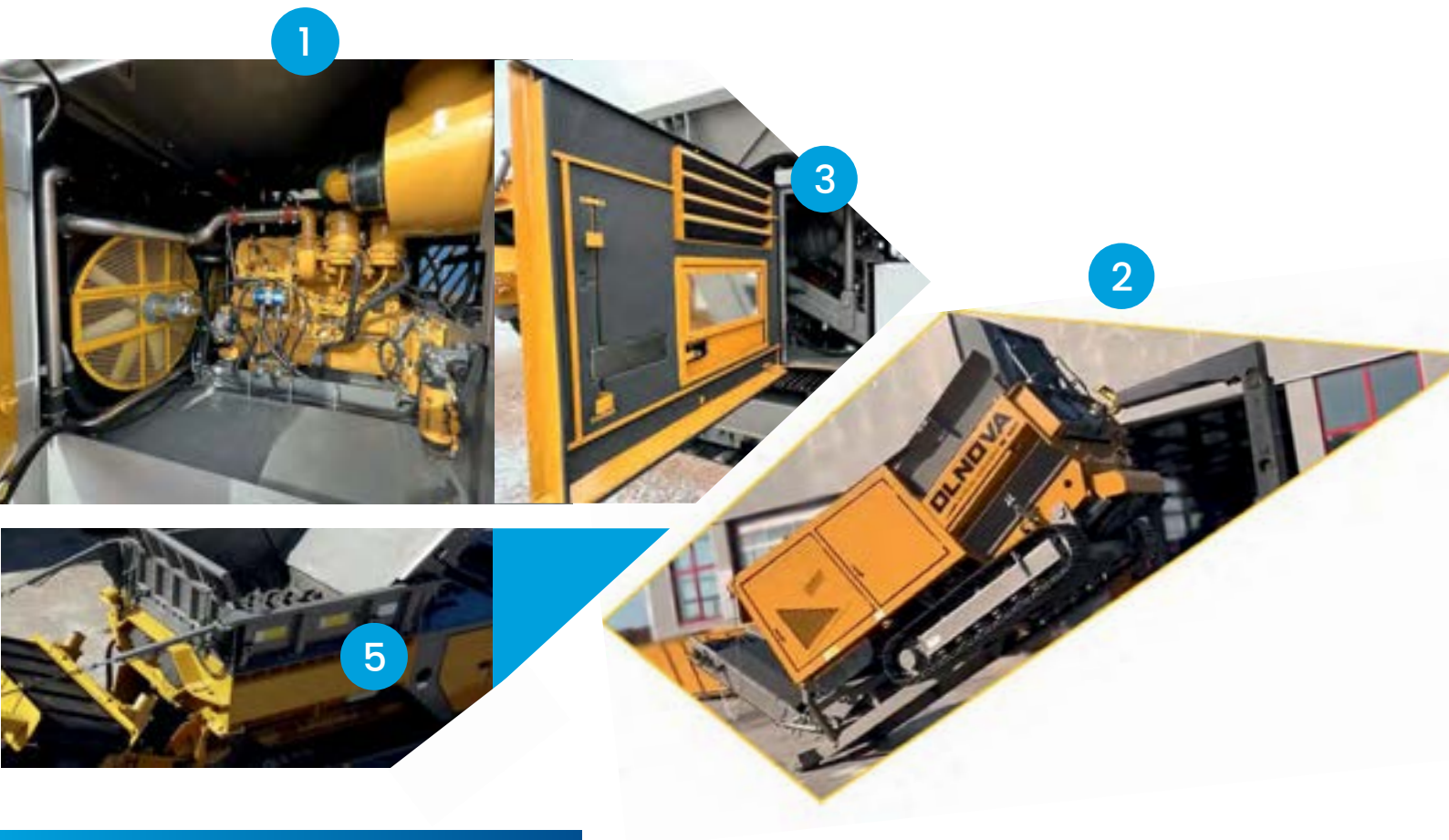


\* The provided performance data is an approximation, no guarantee is given and depends on the corresponding features of the primary shredder, the shaft configuration and the optimal material in-feed.

x Primary shredder is not intended to operate with this material.

# FEATURES

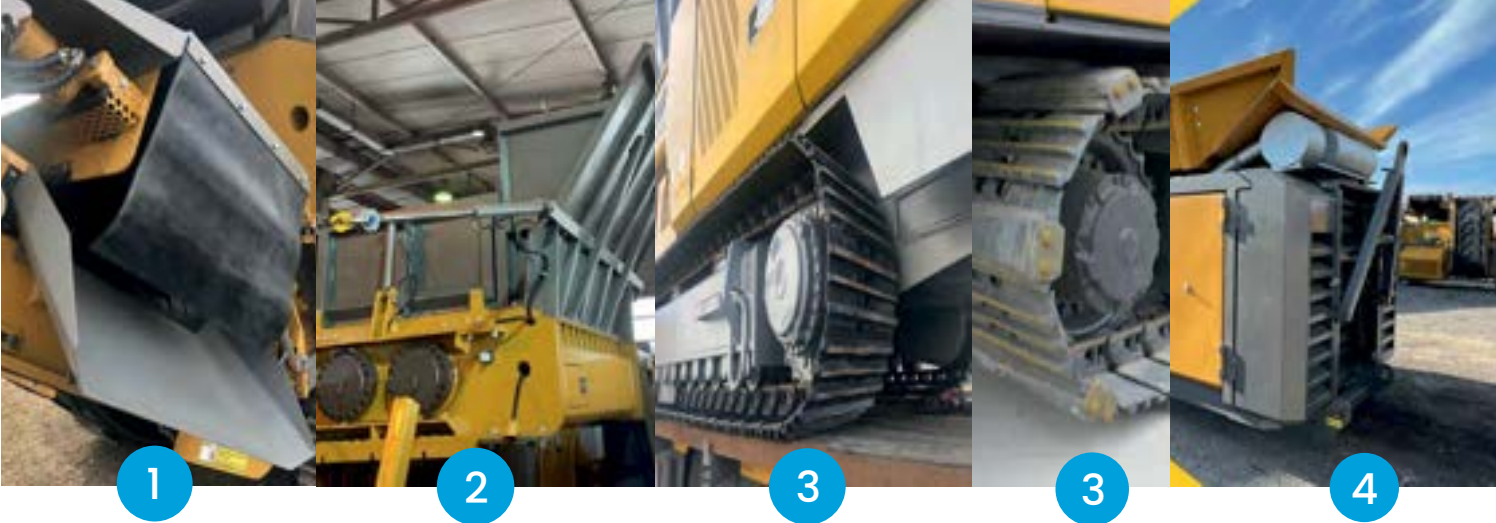
Shredders have an encompassing stock configuration that corresponds to the latest technical standards and ensures high quality. Primary shredders live up to the individual customer requirements.



## Main Features

- 1. Drive**  
electric or diesel engine
- 2. Transportability**  
tracks and hook lift system
- 3. Low noise emission**  
specially developed exhaust system,  
inside door trim with special insulation  
material
- 4. Remote controls**  
with different functions
- 5. Tilting hopper**  
for optimal material feed





## ADDITIONAL FEATURES

Every primary shredder is specifically built for the individual needs and equipped accordingly. Moreover, OLNOVA offers a wide range of options to accomplish the best possible result for both output material size and throughput performance.

5



breaker bar

5



breaker bar with comb

5



breaker bar with basket

### 1. Metal Separation

ferrous metal parts are separated through an over-belt magnet

### 2. Hopper Extension

allows an increased capacity, prevents falling out of the input material

### 3. Track Suspension

mobile on crawler track, optional with track pads

### 4. Drawbar Pull

enables a prompt relocation of the shredder on site

### 5. Breaker Bar

produces a smaller end product

### 6. water sprinkling system

reduces dust generation

### 7. Reversible Fans

efficient for cooling and cleaning

**8. Special Belt Construction** custom discharge conveyors for electric version

### 9. Winter Package

diesel and hydraulic oil preheating

### 10. Custom Paint Job

to match your company colors

### 11. PLC-Controls

in the electric version

6



7



8



9



10



11





45

**Areas of Application\***

waste & mixed wood  
green waste  
pallets  
light domestic/bulky waste

**VERSION D – SEMI – MOBILE****TECHNICAL DATA\*\***

drive	140 HP
discharge height	2,7 at 33°
weight	8 t
fuel capacity	180 l
operational dims.L/W/H	7,3 / 1,9 / 3,4
transp.dims.L/W/H	6,1 / 1,9 / 2,3

**VERSION DK – ON CRAWLER TRACKS****TECHNICAL DATA\*\***

drive	140 HP
discharge height	2,8 at 33°
weight	11 t
fuel capacity	160 l
operational dims.L/W/H	7,3 / 1,7 / 3,6
transp.dims.L/W/H	5,9 / 1,7 / 2,4

**VERSION E – STATIONARY****TECHNICAL DATA\*\***

drive	110 kW
discharge height	2,7 at 33°
weight	8 t
operational dims.L/W/H	8,0 / 1,9 / 3,7

65

**Areas of Application\***

waste & mixed wood  
green waste & root stems  
domestic/bulky waste  
aluminum

**VERSION D – SEMI – MOBILE****TECHNICAL DATA\*\***

drive	275 HP
discharge height	3,2 at 33°
weight	16 t
fuel capacity	500 l
operational dims.L/W/H	9,7 / 2,4 / 4,4
transp.dims.L/W/H	8,0 / 2,4 / 2,6

**VERSION DK – ON CRAWLER TRACKS****TECHNICAL DATA\*\***

drive	275 HP
discharge height	3,3 at 33°
weight	17 t
fuel capacity	500 l
operational dims.L/W/H	9,4 / 2,5 / 4,5
transp.dims.L/W/H	7,7 / 2,5 / 2,7

**VERSION E – STATIONARY****TECHNICAL DATA\*\***

drive	2 x 90 kW
discharge height	3,2 at 33°
weight	16 t
operational dims.L/W/H	9,5 / 2,4 / 4,5

75

**Areas of Application\***

waste & mixed wood  
green waste & root stems  
domestic/industrial/bulky waste  
aluminum & white goods

**VERSION D – SEMI – MOBILE****TECHNICAL DATA\*\***

drive	350 HP
discharge height	4,4 at 33°
weight	18 t
fuel capacity	470 l
operational dims.L/W/H	12,0 / 2,5 / 5,4
transp.dims.L/W/H	8,0 / 2,5 / 2,7

**VERSION DK – ON CRAWLER TRACKS****TECHNICAL DATA\*\***

drive	350 HP
discharge height	4,7 at 33°
weight	19 t
fuel capacity	470 l
operational dims.L/W/H	11,9 / 2,5 / 5,6
transp.dims.L/W/H	8,0 / 2,5 / 2,9

**VERSION E – STATIONARY****TECHNICAL DATA\*\***

drive	2 x 132 kW
discharge height	4,4 at 33°
weight	20 t
operational dims.L/W/H	12,0 / 2,5 / 5,0

85

**Areas of Application\***

waste & mixed wood  
green waste & root stems  
domestic/industrial/bulky waste  
aluminum & white goods

**VERSION D – SEMI – MOBILE****TECHNICAL DATA\*\***

drive	480 HP
discharge height	4,7 at 33°
weight	27 t
fuel capacity	680 l
operational dims.L/W/H	12,8 / 2,5 / 6,0
transp.dims.L/W/H	8,9 / 2,5 / 3,0

**VERSION DK – ON CRAWLER TRACKS****TECHNICAL DATA\*\***

drive	480 HP
discharge height	4,8 at 33°
weight	34 t
fuel capacity	680 l
operational dims.L/W/H	12,8 / 2,6 / 6,0
transp.dims.L/W/H	8,6 / 2,6 / 3,2

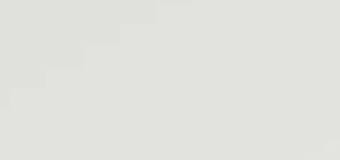
**VERSION E – STATIONARY****TECHNICAL DATA\*\***

drive	2 x 160 kW
discharge height	4,8 at 33°
weight	25 t
operational dims.L/W/H	12,6 / 2,8 / 5,8

95

**Areas of Application\***

Old & Mixed wood  
C&D Waste, Household Waste, Bulky Waste  
Aluminum Profiles & Light Mixed Scrap  
Car Bodies

**VERSION D – SEMI – MOBILE****TECHNICAL DATA\*\***

drive	710 HP
discharge height	4,4 at 33°
weight	43 t
fuel capacity	1.260 l
operational dims.L/W/H	14,6 / 3,0 / 6,5
transp.dims.L/W/H	12,6 / 3,0 / 3,2

**VERSION DK – ON CRAWLER TRACKS****TECHNICAL DATA\*\***

drive	710 HP
discharge height	4,4 at 33°
weight	43 t
fuel capacity	1.260 l
operational dims.L/W/H	14,6 / 3,0 / 6,5
transp.dims.L/W/H	12,6 / 3,0 / 3,2

**VERSION E – STATIONARY****TECHNICAL DATA\*\***

drive	2 x 250 kW
discharge height	4,5 at 33°
weight	36 t
operational dims.L/W/H	14,2 / 3,0 / 6,7

\* referenced data from the possible areas of application

\*\* estimated values, based on equipped options, without guarantee, all dimensions in meters, drawings represent optional equipment



# OLNOVA

RECYCLING TECHNOLOGIES 1997

**WASTE  
INITIATIVES**  
WASTE EQUIPMENT SOLUTIONS



T: 1800 441 100

E: [info@wasteinitiatives.com](mailto:info@wasteinitiatives.com)

W: [wasteinitiatives.com.au](http://wasteinitiatives.com.au)

