



# **MIX-ON & TRIT-ON**

INDUSTRIAL MIXERS AND SHREDDERS





## SUMMARY

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**MIX-ON**  
**&**  
**TRIT-ON**





## MIX-ON & TRIT-ON



### COMPOSTING "BLEND PREPARATION"

opening of bags containing organic fraction  
and blending with wood-based binding agents



### COMPOSTING

blending and shredding of market waste,  
green waste, livestock waste and food scraps  
with wood-based binding agents



### ANAEROBIC DIGESTION

pre-treatment

influent preparation for the digester

post-treatment

digestate blending with wood-based binding agents



### HORTICULTURE

blending of soil, topsoil, peats and fertilizers



### SLUDGE TREATMENT

blending with lignocellulosic fractions, dust and minerals



#### ABOUT THE TANK

At the bottom of the tank, 1 mixing shaft, equipped with asymmetric blades and cutting edges, performs the main blending function. Thanks to its replaceable cutting edges, it can also cut&tear coarse parts as well as hard fibres.

At the top of the tank, 2 upper augers push the material downwards and ease up its flow towards the rear of the machine.

A winning configuration in terms of blending quality.  
The infeed material is pushed forward but at the same time also upwards, so to reduce pressure and therefore any "squeezing" effect.  
The result is a soft blend, processed within an extremely short time and with extremely low power-consumption costs.



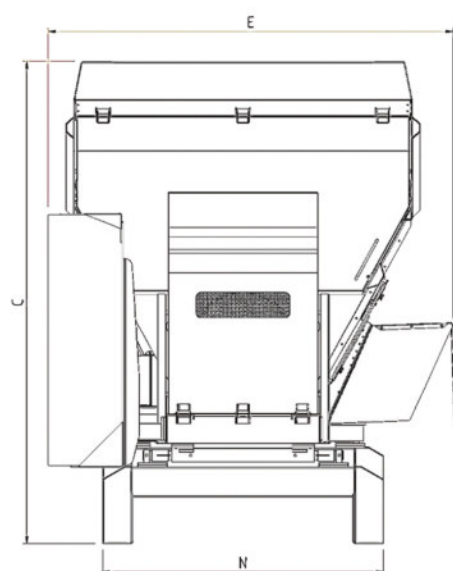
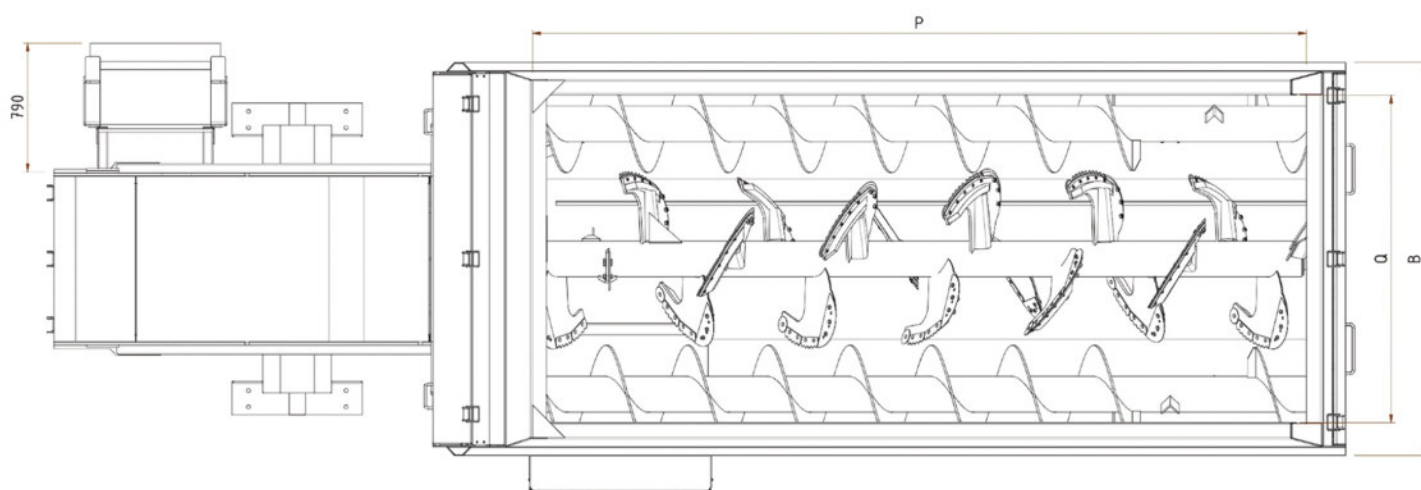
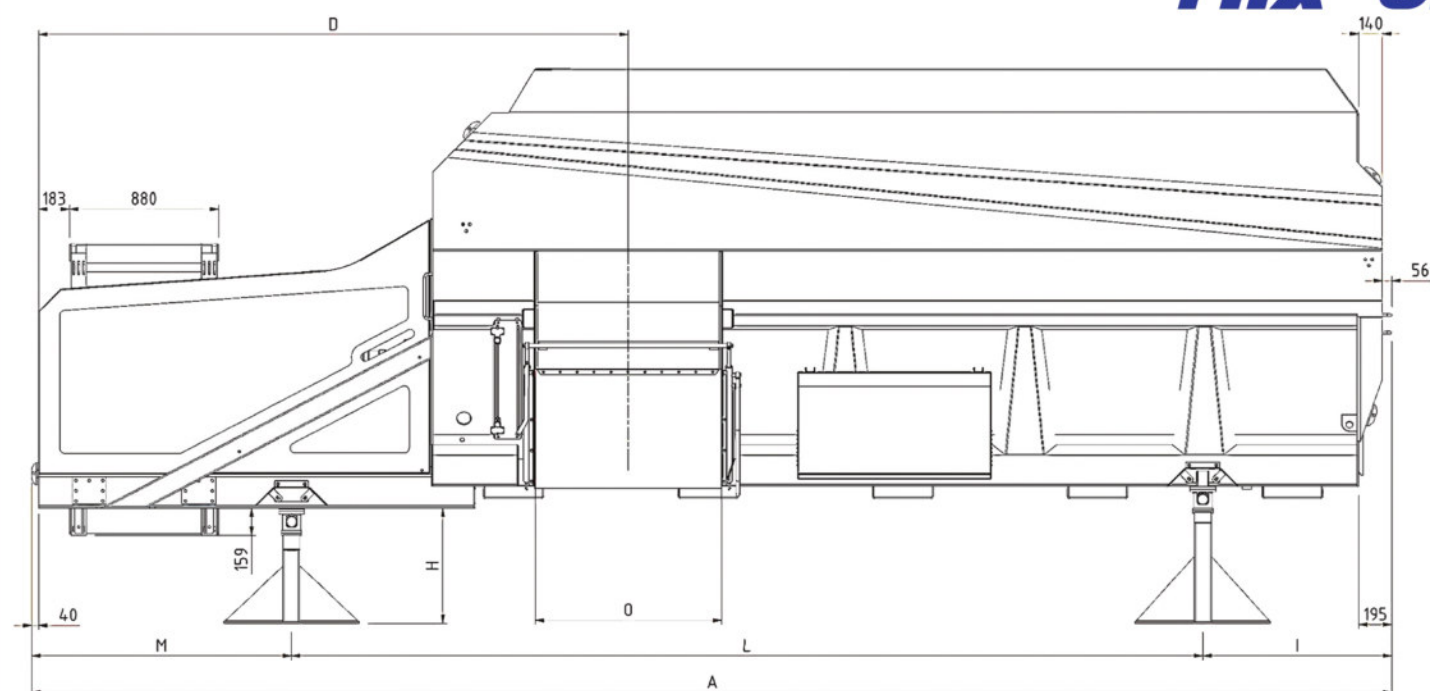


AVAILABLE IN FOUR MODELS, ACCORDING TO THE DIFFERENT VOLUME OF THE MIXING TANK

MIX-ON	159	189	2111	2411
<b>Mixing tank</b>				
Volume (m³)	15	18	21	24
Mixing shaft: diameter (mm)	900	900	1.100	1.100
Upper augers: diameter (mm)	600	600	600	600
<b>Drive</b>				
Type	electric	electric	electric	electric
Power (kW)	1x75	1x90	1x132	1x132
<b>Performance</b>				
Capacity (ton/hour)	20-30	30-40	30-60	40-60
<b>Weight</b>				
Net weight (kg)	app. 9.000	app. 11.000	app. 12.000	app. 13.000

Figures and/or information are subject to technical changes.

Any figure and/or piece of information is purely indicative, images are only meant for illustration purposes and they might include, as well as descriptions, options which are not included in the standard equipment.



#### MIX-ON

159

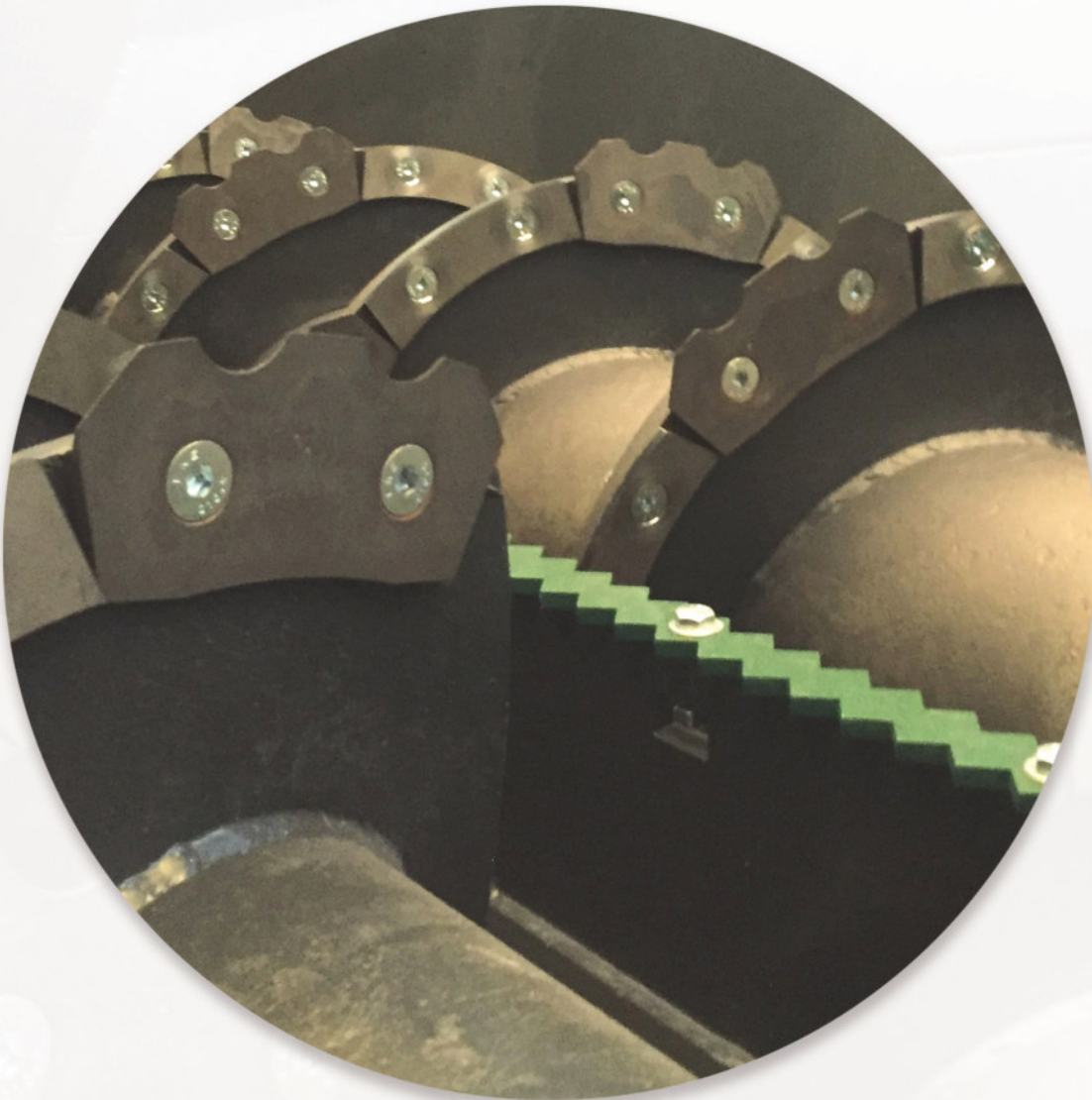
189

2111

2411

#### Dimensions (mm)

Overall length	6.700	7.200	8.030	8.530
Overall width	2.530	2.530	2.750	2.750
Overall height	2.960	2.960	3.270	3.270
Loading length	3.980	4.480	4.750	5.250
Loading width	1.796	1.796	2.006	2.006
Height of the support legs	807	807	807	807



### **ABOUT THE TANK**

**At the bottom of the tank, 2 coiled augers** equipped with cutting blades and in-between wear plates. Number and type of cutting blades are varying depending on the material to be shredded and on the aggressiveness of the process. A central double counter-blade is installed between the 2 augers.

The proper tank size, together with the slow rotation speed of the augers and a batch process, will allow safe working conditions as well as utmost production performances. Material won't be thrown in fact outside the tank, but will remain inside it, until it is discharged on the outfeed conveyor. Furthermore, shredding at a lower rotation speed reduces possible risks of fire. The shredding process can last a few as well as dozens of minutes, depending on the required grain size.





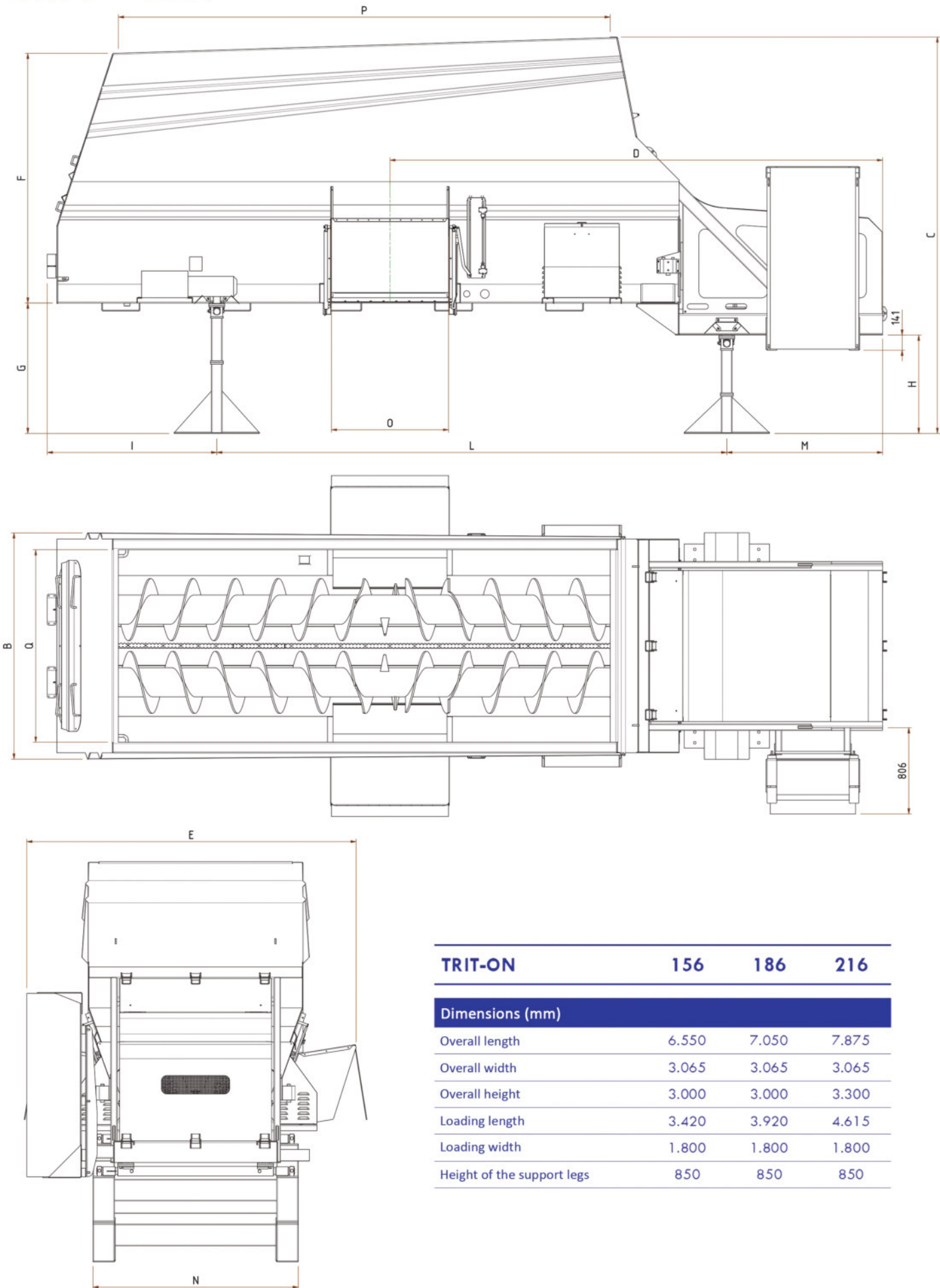
AVAILABLE IN THREE DIFFERENT MODELS, ACCORDING TO THE VOLUME OF THE SHRED&MIXING TANK

TRIT-ON	156	186	216
<b>Shred&amp;Mixing tank</b>			
Volume (m³)	15	18	21
Augers diameter (mm)	600	600	600
<b>Drive</b>			
Type	electric	electric	electric
Power (kW)	2x55	2x75	2x75
<b>Performance</b>			
Capacity (ton/hour)	10-30	15-35	20-40
<b>Weight</b>			
Net weight (kg)	app. 9.000	app. 12.000	app. 13.000

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TRIT-ON	156	186	216
Dimensions (mm)			
Overall length	6.550	7.050	7.875
Overall width	3.065	3.065	3.065
Overall height	3.000	3.000	3.300
Loading length	3.420	3.920	4.615
Loading width	1.800	1.800	1.800
Height of the support legs	850	850	850

### MIX-ON & TRIT-ON



#### MECHANICAL DRIVE

**MIX-ON:** mechanical drive to the mixing shaft through a flexible coupling between motor and gear; drive chain to the upper augers.

**TRIT-ON:** mechanical drive to augers through flexible couplings between motors and gears



#### SIDEWARDS OUTPUT

**MIX-ON:** material output through no. 01 side door (either right or left)

**TRIT-ON:** material output through no. 02 central side doors (right and left)

For both machines:

- opening length of the side door(s): 1.100 mm
- operation of the side door(s): through hydraulic cylinder(s)



#### E-PANEL AND REMOTE CONTROL

no. 01 IP 55 e-panel on board: equipped with PLC as well as with either keypad or touch screen  
No. 01 remote control: to operate the main functions and maximize the effectiveness of working time



#### E-SCALE SYSTEM

no. 04 load-cells: located close to the 4 support legs, they do measure the weight of the material loaded into the Shred&Mixing tank, sending then the information to a bright display installed on the machine





### AUTOMATIC CENTRAL LUBRICATION SYSTEM

multi-output pump with a touch-screen display:  
for proper dosing and distribution of the lubricant  
at regular intervals



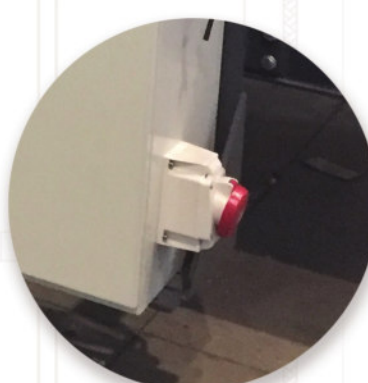
### EXTENDED HOPPER

on 3 or 4 sides, either 500 mm or 1.000 mm high:  
to load the material  
by means of a bridge-crane (big volumes)



### OUTLET CONVEYOR

the shredded and/or mixed material  
can be unloaded on a dedicated conveyor:  
suggested width 1.200 mm, length, inclination  
and type to be defined upon request



### QUICK PLUG FOR THE CONVEYOR

installed on the e-panel  
to connect the outlet conveyor

### FURTHER OPTIONS

- Hardox 450 tank bottom
- customized colour and coating till a 360 µm thickness
- support legs height till 1.500 mm from the ground level
- external communication system: signal exchange with Profibus/Profinet clean contacts



**MIX**



**TRIT**

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