

Doppstadt

WASTE WOOD RECYCLING

APPLICATIONS



WASTE WOOD RECYCLING

A solution for all wood materials.

Waste wood is residual wood from industry (wood residues from wood-working and processing businesses and wood composites) and used wood (products made of solid wood, manufactured board and wood composites) with

a wood content of more than 50 percent by weight.

Waste wood is usually either used as an energy source via combustion in a power plant or recycled as secondary material

for wood based products. Other uses are for example as mulch base or as structure in composting processes.

RECYCLING POSSIBILITIES FOR WASTE WOOD:

- Shredding » screening » (oversize recirculation)
- Grinding » screening » (oversize recirculation)
- Shredding » grinding » screening » (oversize recirculation)

THIS IS DOPPSTADT

Headquartered in Velbert, Germany, the Doppstadt family firm was founded in 1965. While the company has its origins in developing agricultural machinery, Doppstadt today is a leading, globally active solutions and services provider in all areas of recycling/environmental technology and recyclables extraction.

"Best Solution. Smart Recycling." – With this as our guiding principle, we combine proven processes to create customised end-to-end solutions characterised by innovative processes, optimum efficiency, and maximum cost-effectiveness. Particularly in the areas of water-based separation systems and wet recycling, we impress

our customers by providing flexible systems to tackle every challenge. With locations in Velbert, Wülfrath, Calbe, and Wilsdruff, Germany, we serve customers in more than 40 countries through our own dealer network and offer comprehensive services for every product in Doppstadt's unique portfolio.

At a glance:

- Bulky domestic waste
- Industrial waste wood
- Waste from the woodworking and furniture industry, flooring and panel manufacture
- Wood packaging such as pallets, crates, cable drums
- Building and demolition wood such as timber, chipboard, shuttering, doors, windows, constructional wood, railway sleepers, residual wood from gardening and landscaping
- Waste wood from waste processing plants



RECYCLING OF THE FOUR CATEGORIES OF WASTE WOOD



CATEGORY A I

Wood left in its natural state or only mechanically processed (negligible contamination with non-wood substances)

CATEGORY A II

Glued, painted, coated, varnished or marginally treated wood without organohalogen compounds in the coating and without wood preservatives

CATEGORY A III

Wood with organohalogen compounds in the coating (waste wood treated with paint), without wood preservatives

CATEGORY A IV

Woods heavily contaminated by wood preservatives such as railway sleepers, electricity poles, hop poles, vine poles and other waste wood with chemical pollution



WASTE WOOD PROCESSING THE PROCESS IN SUMMARY

EXAMPLE PROCESS MOBILE

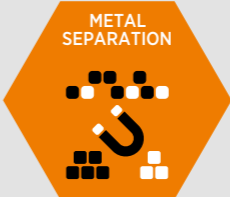
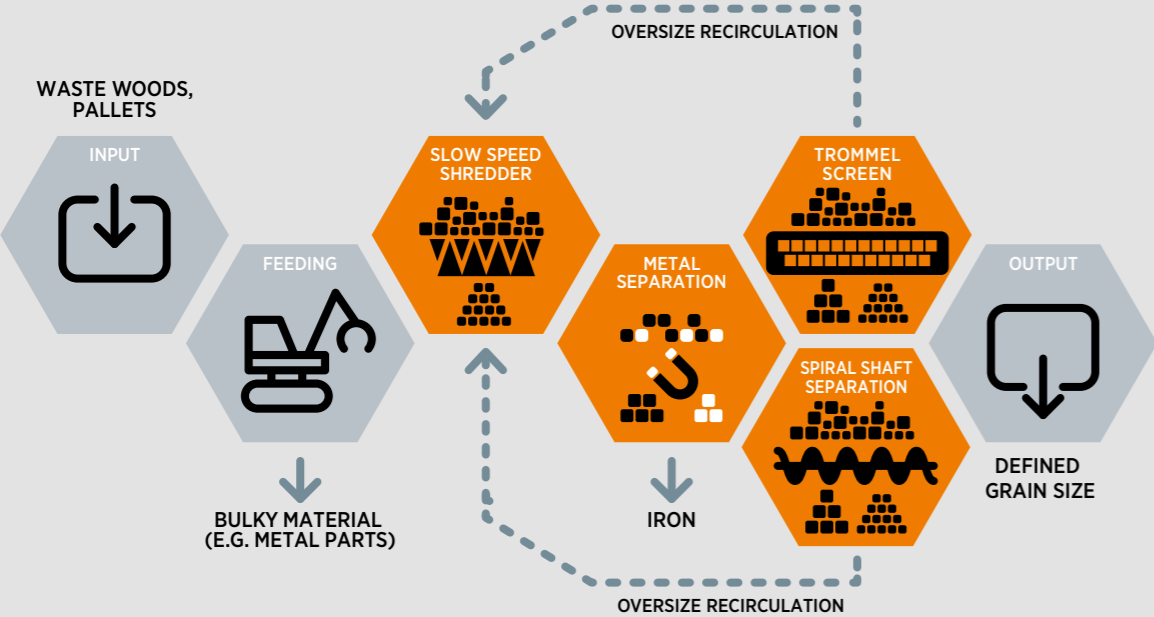


EXAMPLE PROCESS STATIONARY



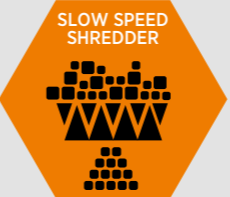
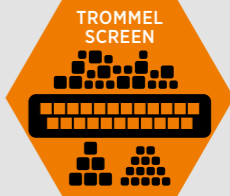
PROCESS DIAGRAM

SHREDDING → SCREENING → OVERSIZE RECIRCULATION



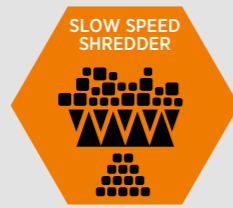
MAGNET
Separation of ferrous metals such as nail scrap, coarse or fine iron scrap by means of an over belt magnet.

SCREENING
The material is processed by a screening drum. Oversize particles are discharged to a conveyor belt and recirculated back into the shredder. As an option, separation can also be performed with a star screen.



SHREDDING
With a wheel loader or grab, the unprocessed waste wood is loaded directly into the hopper. The flexible shredding concept with different tool sets permits precise adjustment to the desired end product.

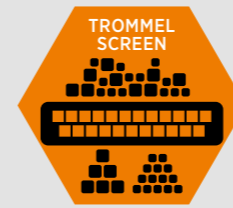
GENERAL VIEW OF MACHINES



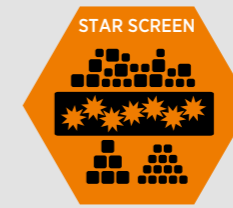
SHREDDING



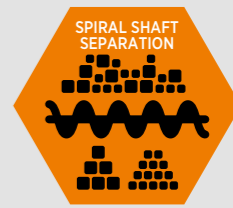
GRINDING



SEPARATION/SCREENING



SEPARATION/SCREENING



SEPARATION/SPIRAL SHAFTS

MOBILE



SLOW SPEED SHREDDER LINE



GRINDER LINE



TROMMEL LINE



FLATFLEX LINE



FLATFLEX LINE / SPLITTER LINE

STATIONARY

METHOR

INVENTHOR

INVENTHOR Type 6
INVENTHOR Type 9

AK

AK 315
AK 565
AK 565 K
AK 565 Plus
AK 640 K
AK 640 SA

518

518 FLEX

SM

SM 518.2
SM 620 Plus
SM 620 K Plus
SM 620 SA Plus
SM 720 SA Plus

SELECTOR

Selector 800.2
+
DST
Star screen deck

SELECTOR

Selector 400
Selector 800.2
+
SWS
Spiral shaft screen deck

DZ

DZ 750
DZ 750 E

CERON

CERON Type 206
CERON Type 256
CERON Type 306
CERON Type 308

DW 2060 E

AK

AK 235 E
AK 440 VE
AK 540 VE
AK 640 VE
AK 640 L VE
NZ 180 VE

SM

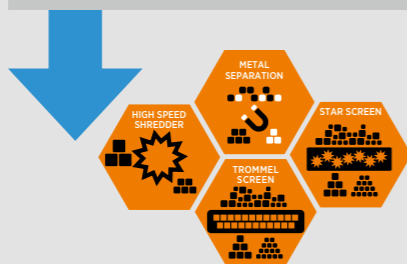
SM 518 A
SM 518 F
SM 620 A

SST

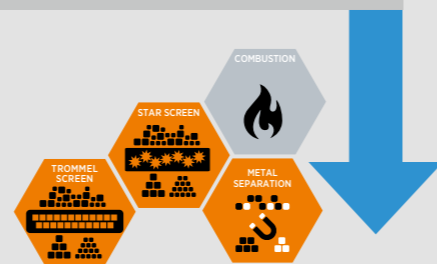
SST 518
SST 720
SST 725
SST 1025
SST 1525

SPLITTER®

Unit 325
Unit 425
Unit 625



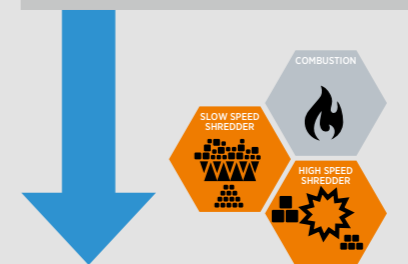
Further processing



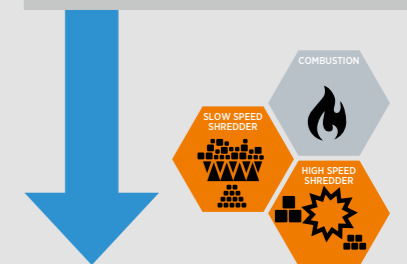
Further processing



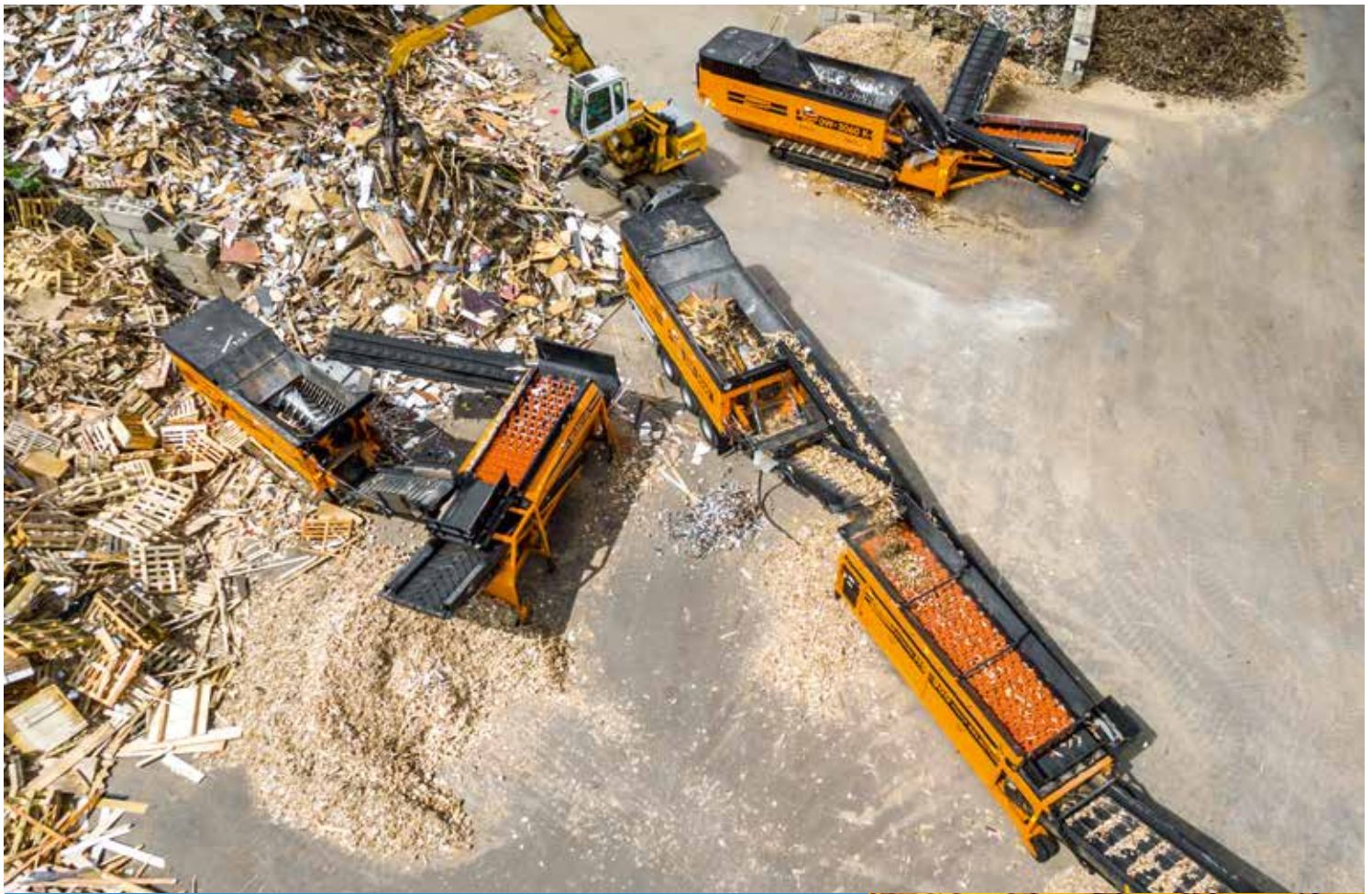
Recirculation



Recirculation



Recirculation



The advantages of waste wood recycling with Doppstadt

- Low proportion of fine particles
- Shredding in combination with screening / separation and recirculation for optimal output quality
- Low treatment costs per tonne due to high throughput rates
- The perfect solution for every application
- Doppstadt service and quality inclusive



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