

Concept: Processing of C&D waste



Processing of C&D

Concept: Mobile, Modular, Electric Plant

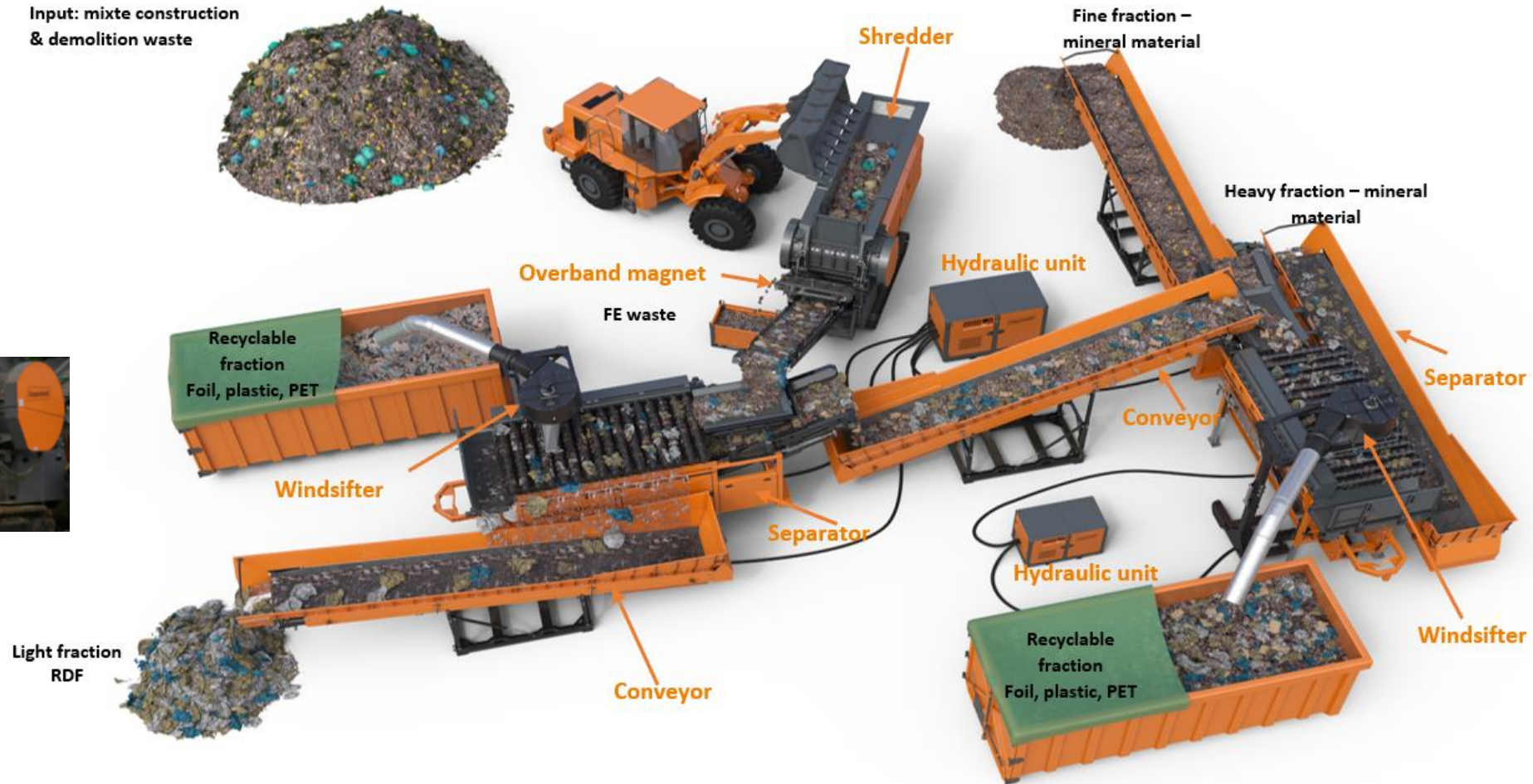
Example of input material

Assumption Material Composition:

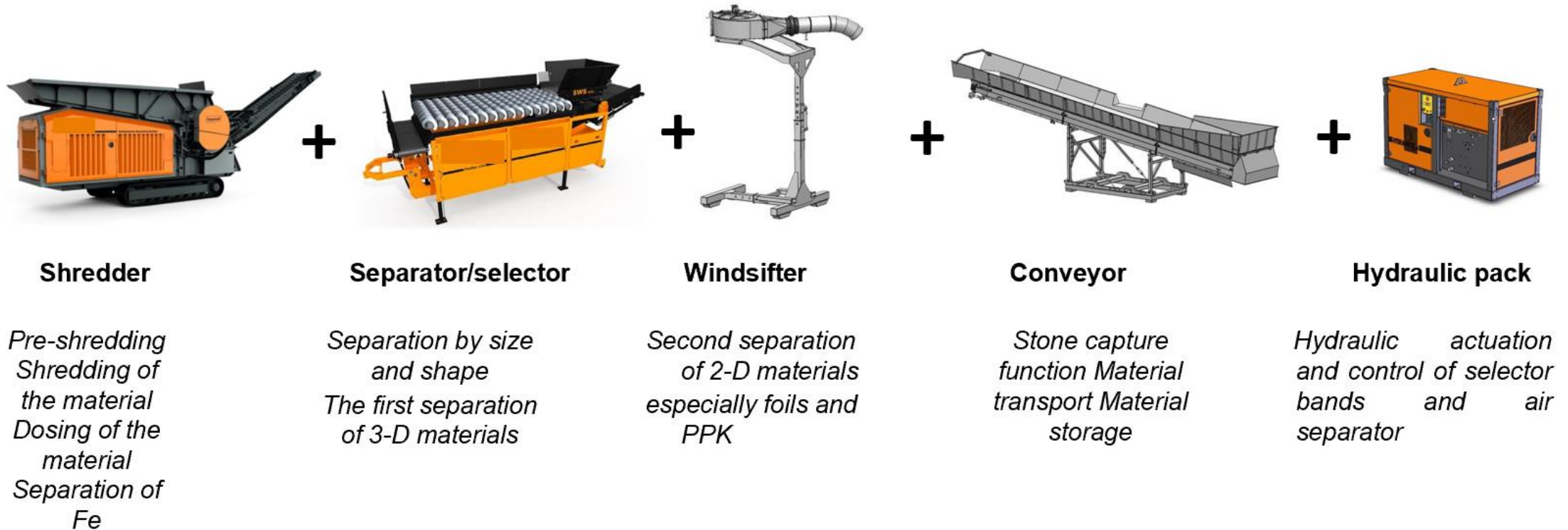
Fraction	Share in volume percent
Heavy:	~ 30 %
- mineralic, stones	
- glass	
- other inert material	
Metalls:	~ 5 %
- FE + NE	
Lights:	~ 60 %
- waste wood	
- hard plastics etc.	
Lightweight materials:	~ 5 %
- foils	
- paper	



Preparation Step 1: Pre-sorting machine set-up (MMPC installation)

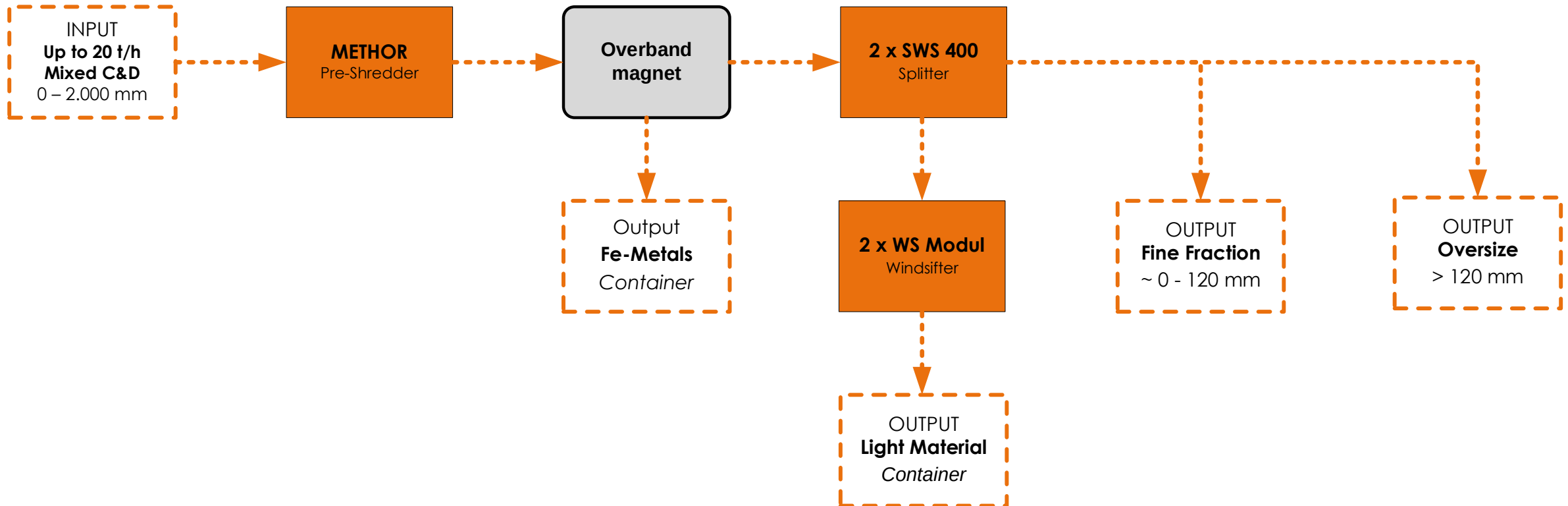


Preparation Step 1 : Overview of the components of the MMPC



Preparation Step 1: Pre-Sorting Flow

With an annual throughput of up to ~ 30.000 tons:



Output - Preparation Step 1

Mixed pre-shredded waste
largely < 300 mm



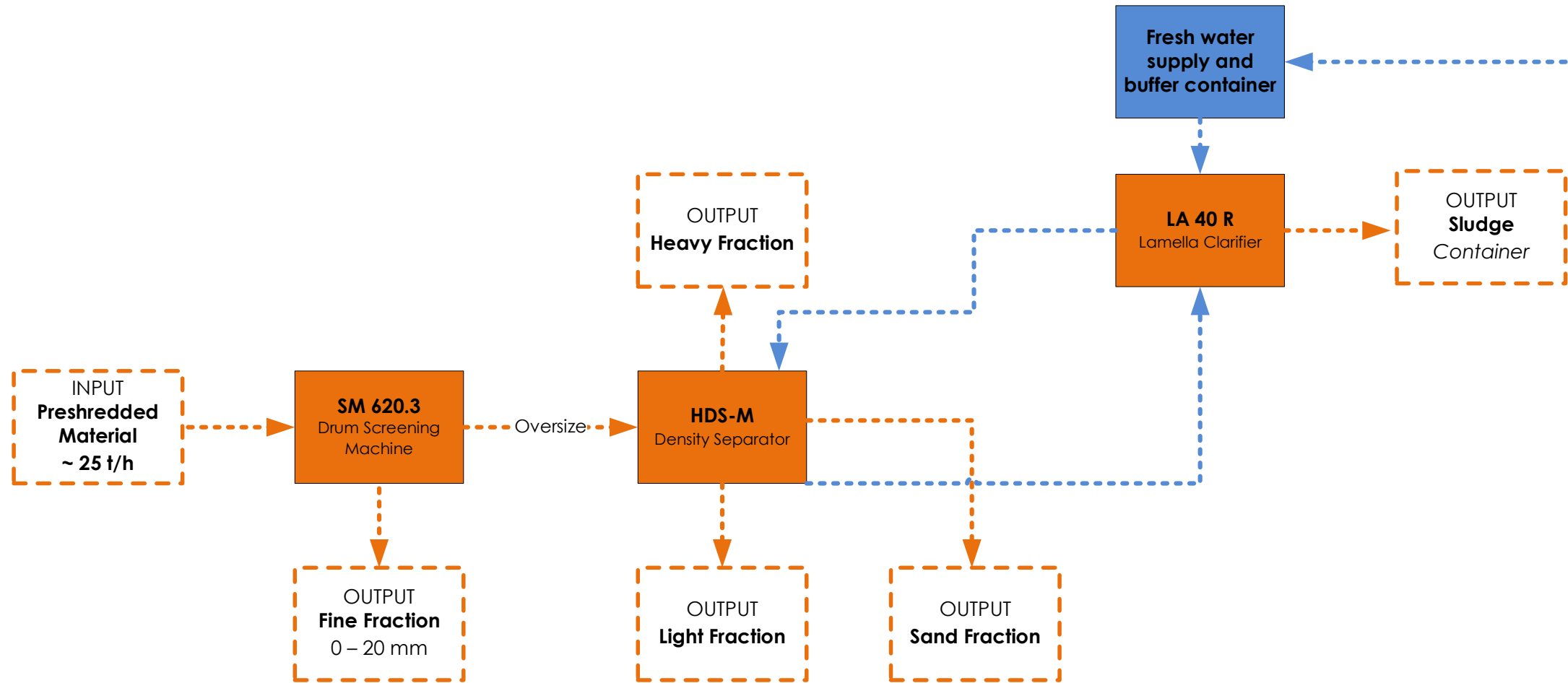
FE-metals
(contaminated)



Light material
(contaminated)



Preparation Step 2: Density Separation flow



Preparation Step 2: Machines in Action



video



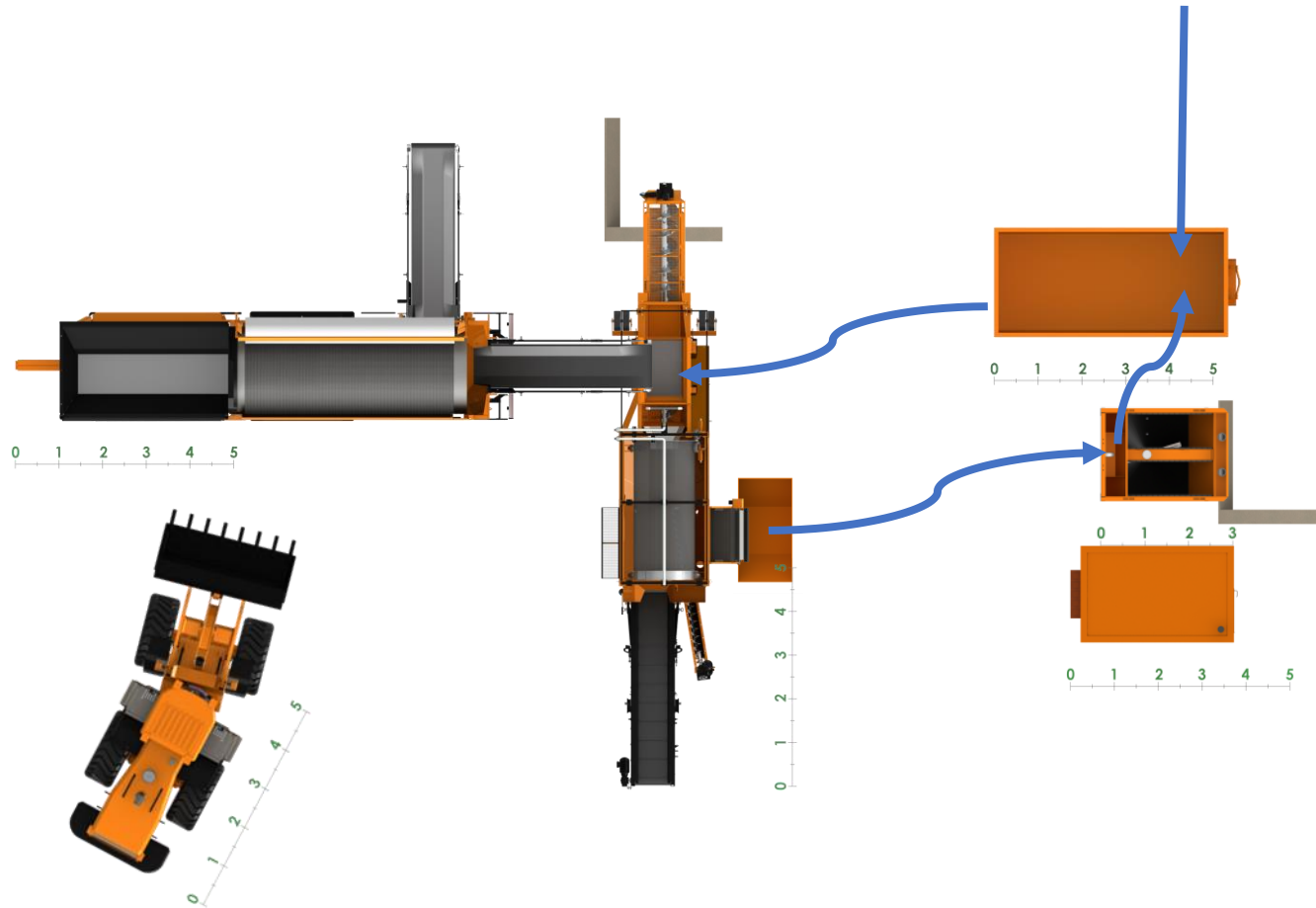
video



Input 01: construction waste and waste wood



Preparation Step 2: Exemple machine set-up



Items:

- SM 620.2 (10^2 up to 20^2 mm²)
- HDS-M
- LA 40 R (Lamella Clarifier)
- Container small 1,3 m³
- Container 10 m³

Optional:

- Flocculant dosing station incl. Container



Output Preparation Step 2: SM 620.3

Fine material < 15 mm



Light material (contaminated)



Output Preparation Step 2: HDS-M

Floatable light material



Output Preparation Step 2: HDS-M

Non-Floatable Heavy material



Budgetary planning

- **STEP 1: PRE-SORTING = approx. 1.55 mil. euro**

- **Equipment included:** MMPC installation

- ✓ 1 x Shredder
- ✓ 2 x Separators
- ✓ 2 x Windsifters
- ✓ 2 x Hydraulic units
- ✓ Conveyors
- ✓ Hoses, connecting cables

- **STEP 2: DENSITY SEPARATION = approx. 1.1 mil. euro**

- **Equipment included:**

- ✓ 1 Drum Screening machine
- ✓ 1 x Density separating machine
- ✓ 1 X Lamella Clarifier
- ✓ 1 x Progressing cavity pump
- ✓ 1 x Submersible waste water pump
- ✓ 1 x Flocculant dosing station
- ✓ Containers, hoses + fittings

- **Total planned budget*: approx. 2.65 mil. euro**

**Note: Equipment ONLY. NOT including: any infrastructure / civil works, metal construction, conveyors, picking station, separation boxes, etc*



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