

Processing of glass isolators & any other type of glass waste

Mobile Modular Waste Recycling Concept



Process target:

-recycling glass isolators or other glass waste

Input material : glass isolators or any other type of glass wastes



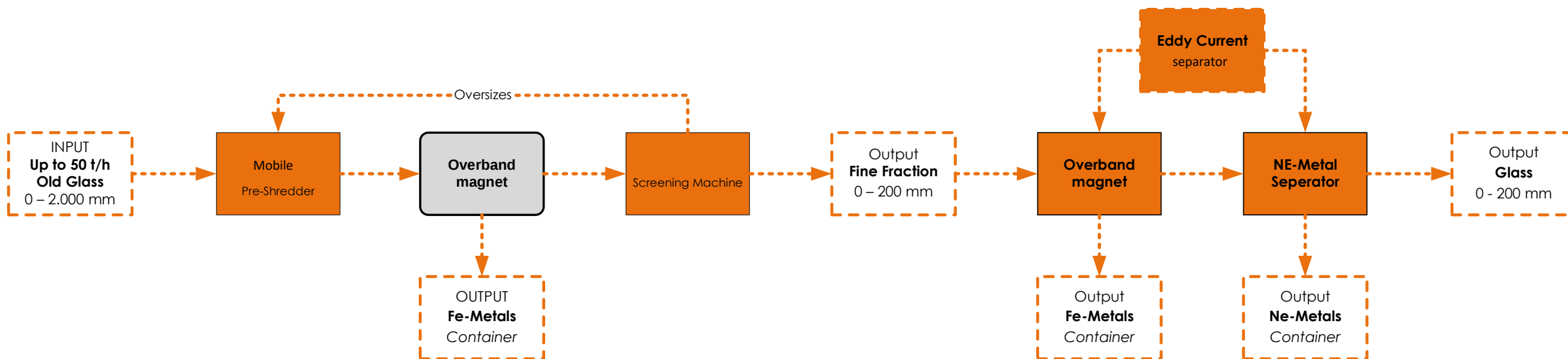
Output material: 0-4 mm & 4- 8 mm recycled glass



Preparation Step 1

– pre-shredding, screening and Fe & NE metal separation

With a throughput of up to ~ 50 tons/h:



Short process description: Preparation Step 1

1. Grab excavator loader:

- Rough pre-sorting and fractionation of the input material
- Recommendation with different tools

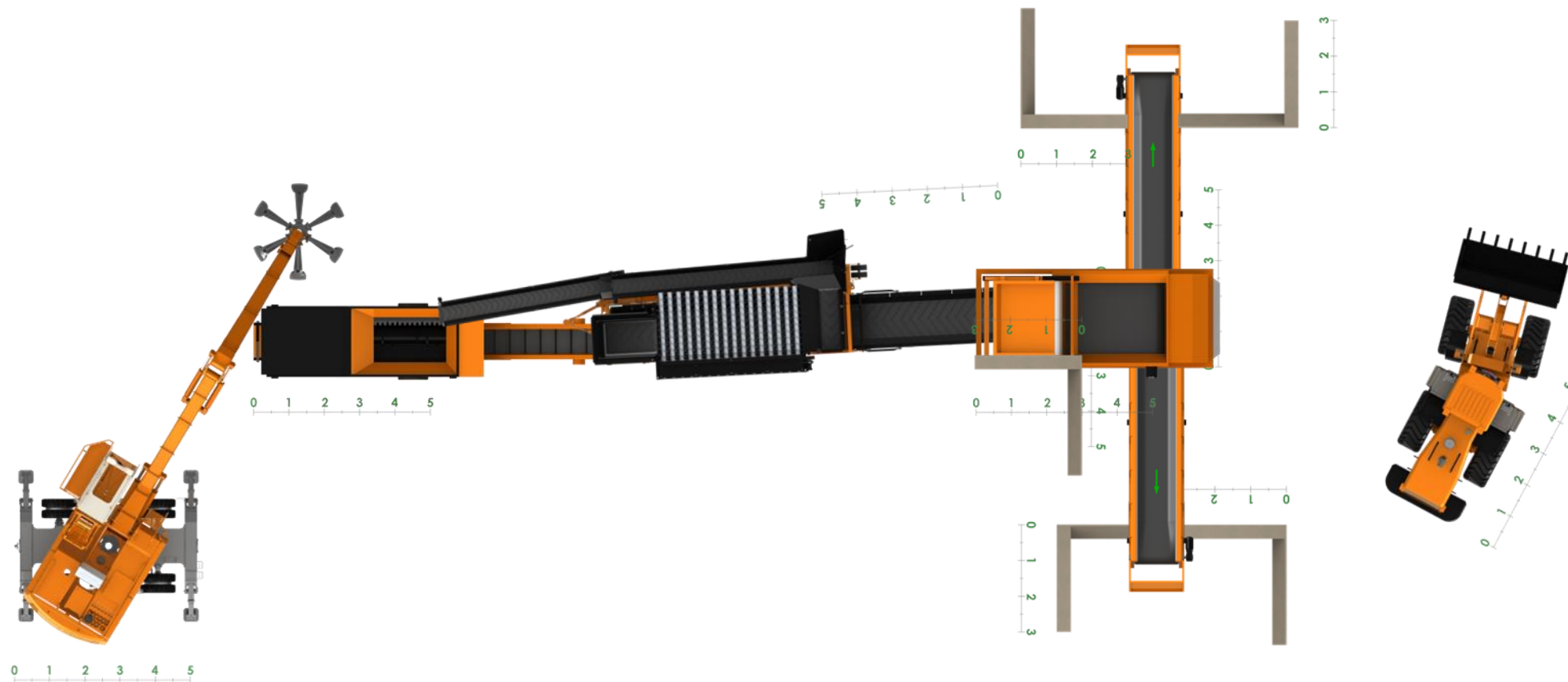
2. Pre-processing:

- Combination of pre-shredder and mobile separator with screening deck
- Pre-shredded output material approx. < 200 mm
- Glass separated from metals as far as possible

3. Metal separation:

- FE metals and non-ferrous metals are largely sorted out
- In the range between 40 and 200 mm

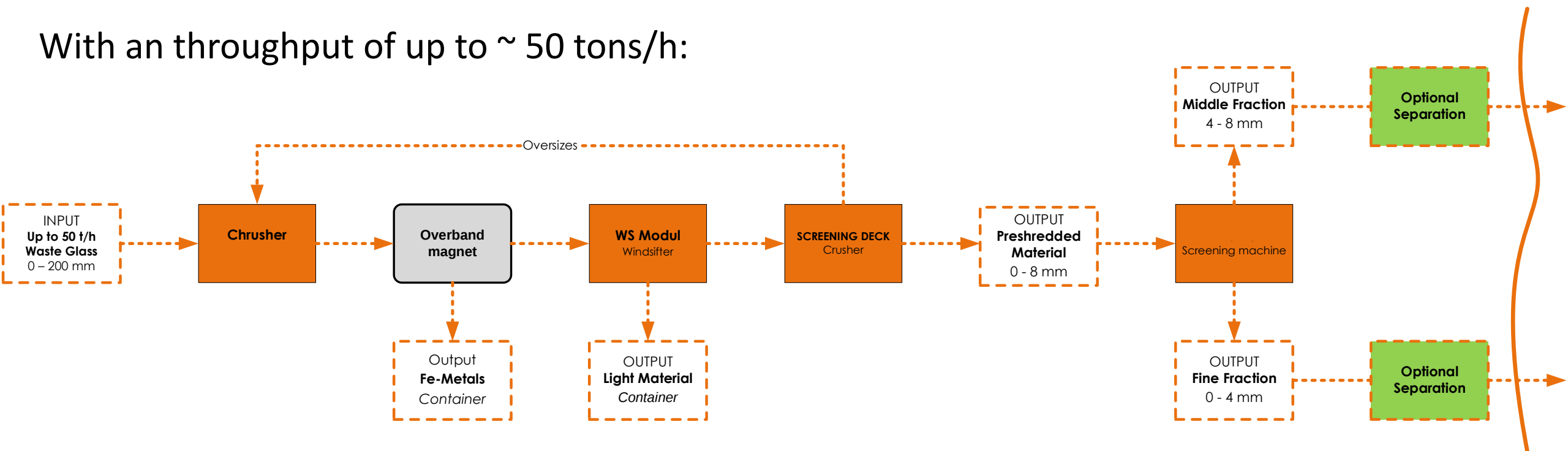
Preparation Step 1: machine set-up



Preparation Step 2.1

– crushing, windsifting & separating

With an throughput of up to ~ 50 tons/h:



Short process description: Preparation Step 2.1

1. Further shredding:

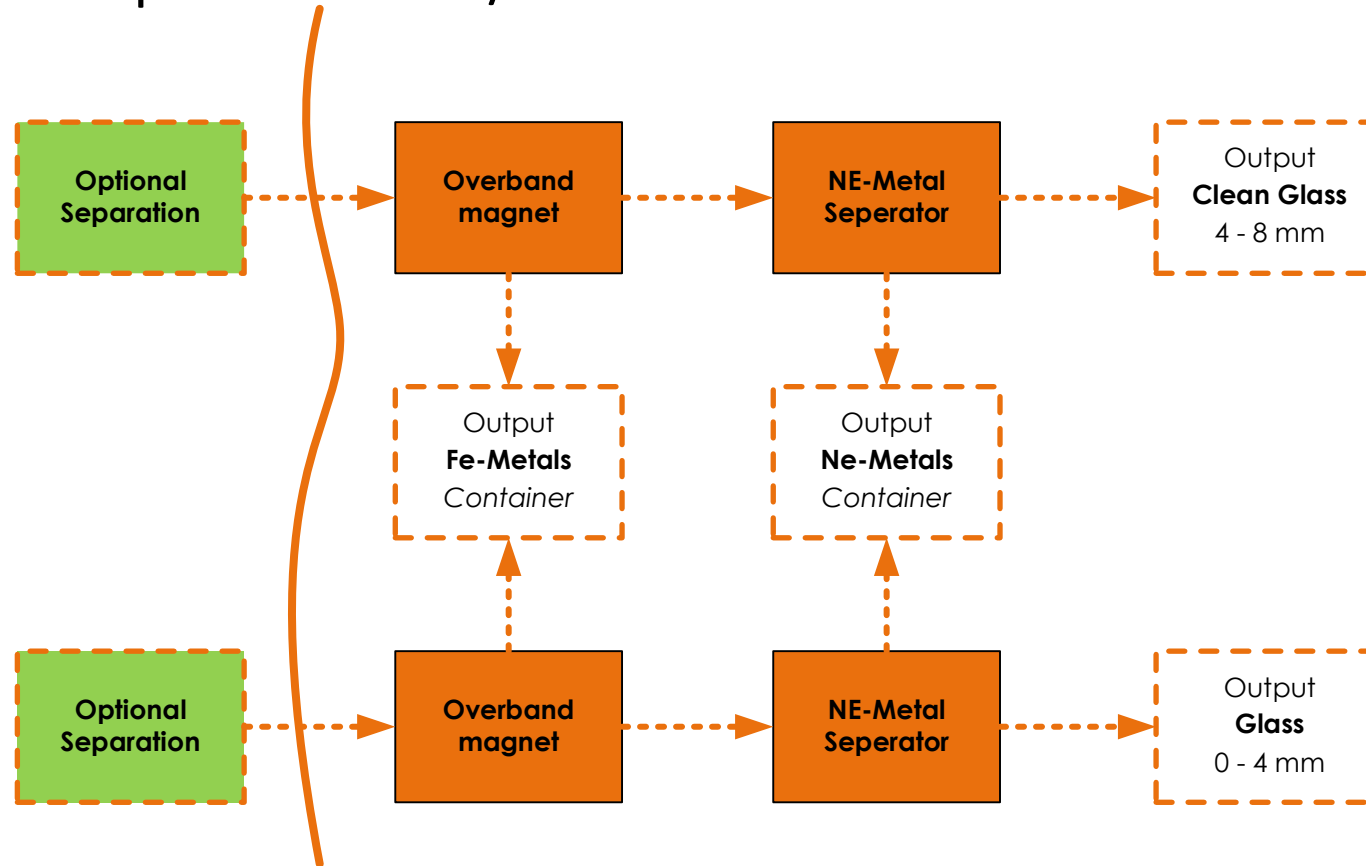
- By means of a crusher-sieve combination including direct return
- Additional FE metal discharge and air sifting for lightweight materials
- Output: < 8 mm

2. Screening for target size:

- Output 1: < 4 mm
- Output 2: 4 – 8 mm

Optional Preparation Step 2.2 – add an Eddy current separator

With a throughput of up to ~ 50 tons/h:



Short process description: Preparation Step 2.2

1. Additional separation of ferrous and non-ferrous metals in the respective fraction

- Very high quality of metals
- Clean glass as output material
- Machines currently only available stationary with electric drive.
Semi-mobile variant possible as a special configuration

2. Clean glass fraction obtained: 4-8 mm and 0-4 mm

Budgetary planning

Step #	Input	Equipment	Type	Process	Output	Price (euro w/o VAT)
1	50 t/h glass waste 0-2000 mm	Mobile Shredder + overband magnet	Mobile, electric	shredding	200 mm	€ 707,000
				Fe magnet	Fe Metal (recyclable)	
	200 mm	Mobile separator with screening deck	Mobile hydraulic	separation	0-200 mm	€ 238,000
2.1	50 t/h glass waste 0-200 mm	Mobile crusher + overband magnet + windsifter module + screening deck	Mobile, diesel	Mobile Fe & NE Metal separator	Mobile electric	€ 312,500
				FE Separation	Fe Metal (recyclable)	
				NE separation	NE Metals (recyclable)	
				Crushing		
	0-8 mm	Mobile double deck screening separator	Mobile, diesel	Fe magnet	Fe Metal (recyclable)	€ 687,500
				windsifting	light fraction 2D (recyclable)	
				separation	0-8 mm	
2.2 (optional)	4-8 mm	Eddy Current separator + overband magnet	Stationary, electric	separation	4-8 mm (recyclable)	€ 182,500
					0-4 mm (recyclable)	
	0-4 mm	Eddy Current separator + overband magnet	Stationary, electric	NE separation	Clean glass (4-8 mm)	€ 362,500
				Fe magnet	Fe Metal (recyclable)	
	0-4 mm	Eddy Current separator + overband magnet	Stationary, electric	NE separation	Clean Glass (0-4 mm)	€ 250,000
				Fe magnet	Fe Metal (recyclable)	

Total planned budget*: approx. 2.74 mil. euro

**Note: EXW Prices. Specified equipment only, NOT including: commissioning & training; any infrastructure / civil works, metal construction, additional conveyors, containers, loaders, etc*

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