

Collection and densification factory – CDF ©

Containerized pre-processing unit,
turnkey, developed by
Plastic Odyssey Factories



Divide volume by 5 to cut
transport costs to your client.

What the CDF does



Result

All types of rigid plastics, shredded
and washed, friction-cleaned,
dedusted, **ready for the
transformation processes.**



Key benefits

- **Turnkey, fully integrated solution**
Delivered ready-to-use in a 20-foot container
- **Fast and simple to deploy**
Operational within a few weeks
- **Health, Safety and Environment standards guaranteed**
Closed-loop water treatment, CE/ISO compliance
- **Robust, proven, standard and easy-to-maintain**



Turnkey pre-processing unit

Deploy a high-performance local plastic chain **in just a few weeks.**

CDF "DRY" version

What it does: plastic shredded and dry-washed, friction-cleaned, dedusted, dried, ready to be transported.

Steps:

- Conveying
- Shredding
- Centrifugal separation
- Sieving
- Drying

Price: USD 60,000*

** Excludes installation, transport and customs duties*

CDF "FULL" version

What it does: plastic shredded and water-washed, friction-cleaned, dedusted, dried, ready to be transported.

Steps:

- Conveying
- Shredding
- Water washing
- Spin-drying
- Sieving
- Drying
- Wash water treatment, closed-loop

Price: USD 100,000*

** Excludes installation, transport and customs duties*

Options and customization

- Solar / hybrid version
- Connectivity & remote monitoring
- Additional modules
- Spare parts & tooling
- CE / ISO standards

1-year warranty on all equipment.

Associated support services

- **Feasibility study** (waste, business model, end-markets)

Price: USD 10–15,000*

- **Installation** of the CDF, **training** of the on-site team, **follow-up** for 1 year

Price: USD 20,000*



Contact

Plastic Odyssey Factories
factories@plasticodyssey.org



PLASTIC ODYSSEY
FACTORIES.

CDF © Technical specifications

Specification	Full water-washing version	Dry-washing version
Processing capacity	150 - 250 kg/h	
Power supply	Three-phase 380-400 V Max current 125 A Connection 3 Ph + N + E	Three-phase 380-400 V Max current 100 A Connection 3 Ph + N + E
Installed power	48,5 kW - 92A	33,7 kW - 64A
Power consumption	20 kWh estimated 40 kWh (if all running simultaneously)	13,9 kWh estimated 28 kWh (if all running simultaneously)
Input waste	Rigid PE/PP Flexible PE/PP	Rigid PE/PP Flexible PE/PP
Output materials	Plastic flakes, shredded, water-washed, dried	Plastic flakes, shredded, dry-washed, dried
Overall dimensions (incl. extraction screws, water tank and door openings)	7,0 m x 4,0 m x 3,5 m	7,0 m x 4,0 m x 3,5 m
Container exterior dimensions	6.058 m x 2.438 m x 2.591 m	6.058 m x 2.438 m x 2.591 m
Container interior dimensions	5.898 m x 2.287 m x 2.302 m	5.898 m x 2.287 m x 2.302 m
Interior surface	13.5 m ²	
Empty container weight	2200 kg	
Container + equipment weight (empty)	8700 kg	4700 kg
Number of operators required	2 operators	2 operators