

TECHNICAL  
SPECIFICATION



# TSD-280

## Pre-sorting Drum



Feeding / Conveying / Screening / Shredding / Sorting / Separation

## TSD-280 Pre-sorting Drum

Terex Recycling Systems have the ultimate solution for pre-sorting bulky construction and industrial waste with their TSD-280 Pre Sorting Drum Range



Our new range of heavy-duty pre-sorting drums can streamline your operation and dramatically reduce your operating costs. The reduction in downtime will lead to increased production output, which can boost the overall profitability of your recycling plant.

Our unique products can handle raw unsorted C&D and C&I waste – no matter the size. This leaves you with material ideal for mechanical or manual sorting whilst removing only the bulky material, which can either be disposed of, sorted or shredded for reintroduction to your process. Your overall sorting process becomes more consistent and efficient, resulting in higher-quality recyclables and reduced contamination.

Incorporating a TSD-280 pre-sorting drum to your recycling plant simplifies the process and reduces your labour costs. It alone efficiently separates large items from your waste stream and eliminates the need for an extra material handler and operator. Saving on labour expenses but also enhancing operational efficiency. With this revolutionary solution, Terex Recycling Systems are making recycling more efficient and sustainable for everyone.

Available either as a standalone pre-sorting line or integrated into existing and new recycling systems.

### Bunker Feeder:

- Heavy duty bunker feeder 1.8m (5' 11") wide with 900mm (2' 11") high sides

### Screening Drum:

- Heavy duty 4-wheel drive with unique '3D' screening design to avoid blockages and give accurate screening
- Screening Drum available in 6m (19' 8"), 7.5m (24' 7") and 9m (29' 6") lengths

### Oversize Conveyor:

- Heavy duty oversize conveyor 2.0m (6' 7") wide with impact bars



### Support Structure:

- Steel support structure with walkways for maintenance and cleaning access to drive wheels and drum

### Undersize Conveyor:

- Heavy duty undersize conveyor 1.4m (4' 7") wide with impact bars

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## TECHNICAL SPECIFICATION

### Bunker Feeder:

Width (internal):	1.68 m (5' 6")
Width (external):	2.3 m (7' 7")
Length:	6 m (19' 8") horizontal, 14 m (45' 11") inclining 25°
Height for storage:	0.9 m (2' 11")
Feeder speed:	2,7 m/min (at 50 Hz) (> 240 m <sup>3</sup> / hour)
Chain:	FV250 – rolls Ø 60 – welded lips
Drive:	4 kW - 400Vac / 50 Hz
Greasing system:	Automated electrical chain greasing system
Support:	Included to ground
Infeed hopper:	Flat/low for use with an excavator or loading shovel.

### Drum Screen:

Screen:	35 Holes Ø 0.53 m (1' 9"), screen length 5 x 1.25 m (4' 1") Screen panels and buckets are exchangeable
Material screens:	Mild steel 8 mm (0.3"), edges extra armour-welded
Screen area:	55 m <sup>2</sup> (65.8 yd <sup>2</sup> )
Maximum length:	1 m, (For parts to fall through.)
Diameter (screen):	Ø 2.8 m (9' 2")
Diameter (external):	Ø 3.8 m (12' 6"), running surface mechanically grinded
Complete length:	9.27 m (30' 5")
Power:	4 x 11 kW - 400V / 50 Hz, 10-12 rpm, ccw.
Running wheels:	Polyurethane covered, 8 pieces Ø 500 x 240mm.
Support wheel:	1-piece Ø 0.4m (1' 4"), polyurethane covered
Weight of drum:	16,000 kg (35,274lb) - without 3D system

### Capacity

Length	Capacity (tph)
6m (19' 8")	up to 45tph
7.5m (24' 7")	up to 60 tph
9m (29' 6")	up to 90tph

### Oversize Conveyor:

Width:	2 m (6' 7")
Length: app.	5.85 m (19' 2")
Drive:	SEW KA – 1,5 kW – 32 m/min. – 400 V AC 50Hz
Drive pulley:	Ø 0.34m (1' 1") with rubber and screwable axles
Tail pulley:	Ø 0.22m (9"), (convex shaped) and loose/screwable axles
Infeed point:	Impact bars
Rubber belt:	630/4 8+3
Scraper:	Internal
Side plates:	height 0.275 m (11")

### Undersize Conveyor:

Width:	1.4 m (4' 7")
Length:	16 m (52' 6")
Drive:	SEW KA – 4,0 kW – 31 m/min. – 400 V AC 50Hz
Drive drum:	Ø 0.34 m (1' 1") with rubber and screwable axles
Tension drum:	Ø 0.22 m (9"), (convex shaped) and loose/screwable axles
Infeed:	Impact bars
Rubber belt:	630/4 8+3
Scraper:	Internal
Seal:	Backside and dropping point
Side plates:	height 0.275 m (11")

All specifications and technical data subject to change without notification. All options are retrofittable.



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