

TFS1400H HYDRA

TECHNICAL SPECIFICATION



DESCRIPTION, FS1400 Hydra

Water separator recycling machine that separates light material from heavy material using a water filled tank. The machine has the following features:

- Steel tub water bath supporting a heavy material belt, a light material belt and a feed chute with optional screen box and fines removal conveyor. Approximately 4 cubic metres of water in a full tank. Water level automatically controlled with a $\frac{3}{4}$ " float valve. Two doors situated on the back and two on the side of the tub for access and cleaning.
- Heavy material sinks to the bottom of the tank and is carried out by a submerged conveyor. Rotary brush cleaner located at the head drum of heavies conveyor, driven by belt and pulleys from the head drum shaft.
- Light material brush conveyor removes 'lights' material floating on the surface of the water.
- Auger screw to remove sediment from the bottom of the tank which transfers to a discharge screw at the side of the machine.
- Hardox lined feed chute for material to be fed from an external conveyor.

DIMENSIONS AND WEIGHT (WORKING):

- Length: 8.499m (27' – 9")
- Width: 3.241m (10' – 8")
- Height: 3.940m (12' – 11")
- Weight: 11,600kg (25,573 lbs)
- Feed Height: 3.186m (10' – 5")

HEAVY MATERIAL CONVEYOR:

- Belt width: 1400mm (4' – 7")
- Belt spec: Heavy duty chevron 500/3 5+1.5
- Drive drum dia: 293mm (11.5")
- Tail drum dia: 273mm (11")
- Motor: 7.5kW helical bevel gear motor
- Drive drum maximum speed: 36 rpm
- Stockpile height: 3.639m (11' – 11")

**LIGHT MATERIAL CONVEYOR:**

- Belt width: 1600 (5' – 3")
- Belt length: 4.759m (15' – 7") total length
- Belt spec: Heavy duty plain 500/3 5+1.5
- Drive drum dia: 293mm (11.5")
- Tail drum dia: 219mm (9")
- Idler drum dia: 219mm (9")
- Motor: 3kW helical bevel gear motor
- Drive drum maximum speed: 37 rpm
- Stockpile height: 2.889m (9' – 5")

WATER TANK SCREW:

- Screw type: Single Shaft Screw
- Screw length: 2m (6' – 7")
- Screw dia: 250mm (10")
- Motor: 0.75 kw electric

DISCHARGE SCREW:

- Screw type: Single Shaft Trough Screw
- Screw length: 3.7m (12' – 2")
- Screw dia: 250mm (10")
- Motor: 1.1 kw electric

ELECTRICS:

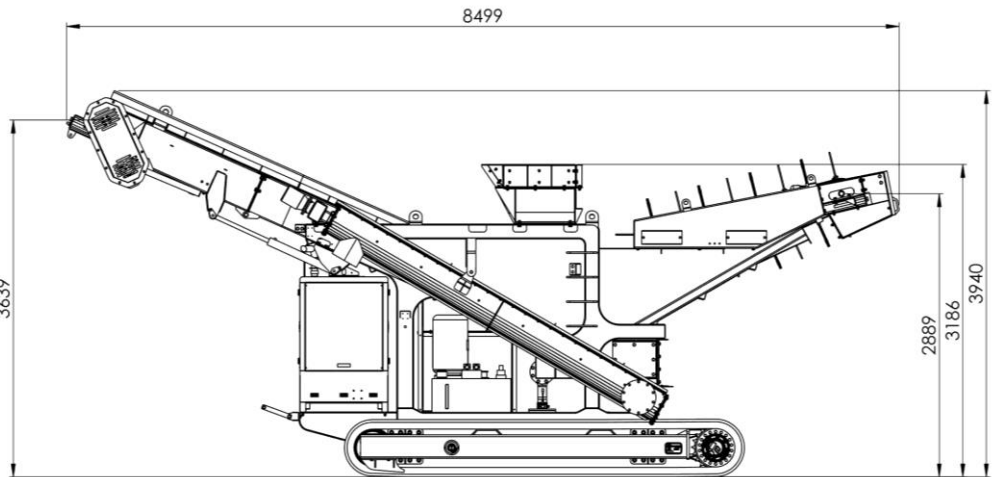
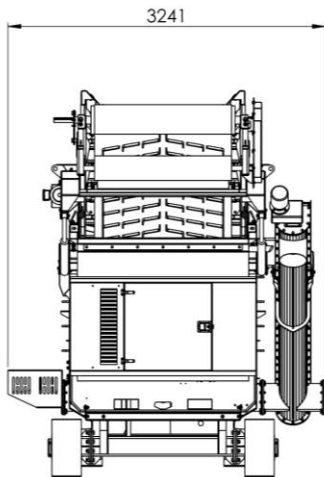
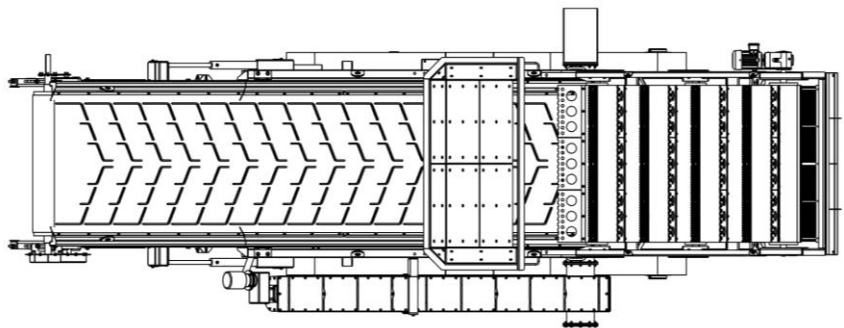
- Emergency stops: 6 off (1 on panel, 1 on generator)
- Chassis cabling: Armored cable
- Start siren: Yes – 10 sec delay

ADDITIONAL & SAFETY FEATURES:

- External adjustment points
- Full safety guarding for nip points
- CE compliant
- Full range of adjustable vacuum heads to suit all applications
- 40kVA onboard generator



GENERAL ASSEMBLY (WORKING):





GENERAL ASSEMBLY (TRANSPORT):

