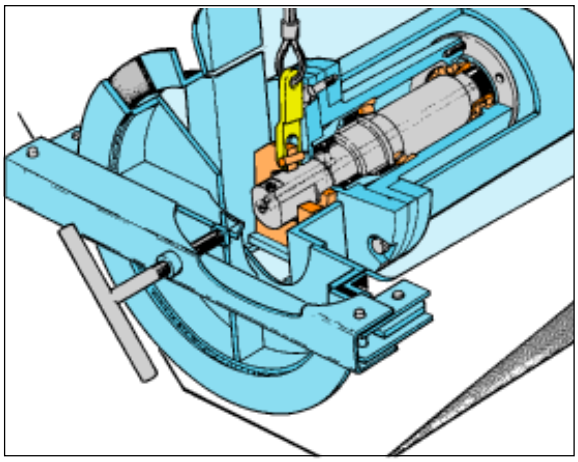
Spiral Dewaterers

Technical Specification

Metso Spiral Dewaterer consists basically of an open trough with arrangements for collection of the products.
The inlet flow is evenly spread out by means of a feed distributor.
Coarse material settles and is continuously removed by means of the transport spiral. The material will be dewatered by drainage in the upper part of the spiral before discharge. The discharge launder for the dewatered material is easily adjusted between two positions, allowing alternative discharge into two separate bins.

Bearings

The submerged bearing assembly is of grease purged type and is lubricated every second week. The lower end bearing pack can be disassembled and replaced without lifting the spiral out of the tank. The upper end of the spiral is provided with lower end bearing pack can be disassembled and replaced without lifting the spiral out of the tank. The upper end of the spiral is provided with a spherical roller bearing in a standard bearing housing.



Lower shaft end bearing assembly

Service platforms

Optional service platforms and stairs can be provided to suit local conditions.

Lamella plate packs

In order to increase the sedimentation area of the tank, the spiral dewaterer can be supplied with lamella plate packs. The plates are arranged in two steel frames, easy to remove if required.

Hydraulic spiral lifting device

If discharge of solids is intermittent whilest the feed is continuous, a hydraulic spiral lifting device can be supplied as an option.

Spiral Dewaterer Model - SD

Metso Spiral Dewaterer Model SD is a robust evolution of the spiral classifier for reliable operations in mill scale handling.

The Spiral Dewaterer with special designed spiral and enlarge pool area is able to handle large flows of effluents, offering a well dewatered mill scale product and a clear overflow (typically 100 ppm).

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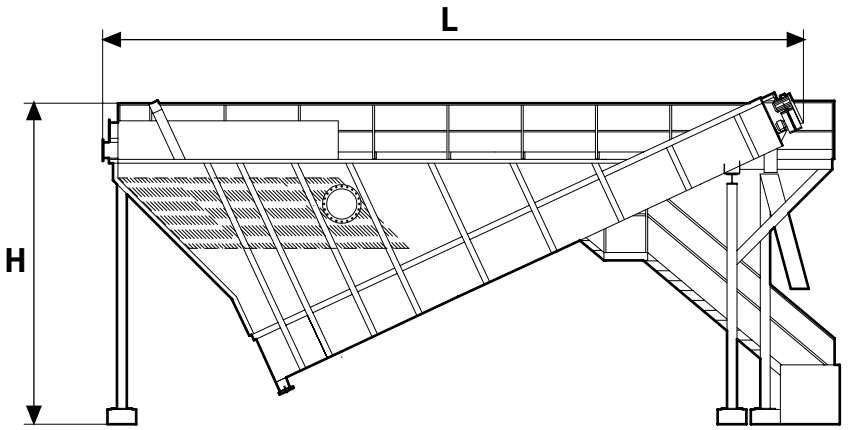
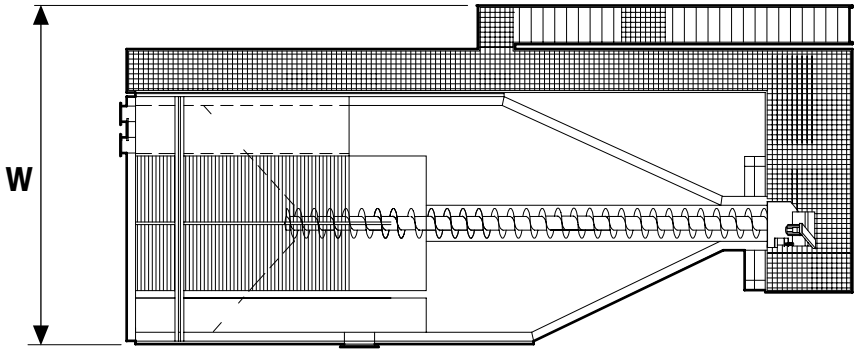
Standard models:

SD Model	Settling area	Tank volume
	m²	m³
SD60-8	8	8
SD60-10	10	12
SD60-20	20	30
SD60-25	25	44
SD60-30	30	70
SD60-38	38	44
SD60-100	100	70

Standard options:
1. Stairs and service platform
2. Oil Skimmer
3. Manual decanter





Model	H mm (inch)	L mm (inch)	W mm (inch)	Power kW/hp	Weight ton (empty)	Tank Volume m³ (ft³)
SD 60-8*	2 815 (111)	7 340 (289)	2 300 (91)	1.5/2	9.0	8 (283)
SD 60-10	3 160 (124)	8 370 (330)	2 300 (91)	1.5/2	9.3	12 (424)
SD 60-20	4 000 (157)	10 600 (417)	3 200 (126)	3/4	12.5	30 (1 059)
SD 60-25	5 350 (211)	11 100 (437)	4 500 (177)	3/4	13.8	44 (1 554)
SD 60-30	6 400 (252)	14 000 (551)	5 000 (197)	4/5	23.0	70 (2 472)
SD 60-38**	5 350 (211)	11 100 (437)	4 500 (177)	3/4	14.4	44 (1 5 54)
SD 60-100**	6 400 (252)	14 000 (551)	5 000 (197)	4/5	24.4	70 (2 473)

*60-8, 60 = spiral dia in cm (24inch) -8 = settling area 8m² (86ft²)
10m² (108ft²), 20m² (216ft²), 25m² (270ft²), 30m² (323ft²), 38m²(409ft²), 100m² (1 080ft²)
** With lamella plates

Technical Specification

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