

TECHNICAL BROCHURE · EXTRACTORS

Loop-type extractor

Removal of residual oil from seed flakes or cake with an organic solvent (hexane), using a “thin-layer” scheme.


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sizes: EX.200, EX.800, EX.1500

200–1000

t/day by seed

1.5–5.5

kW drive power

Purpose and operating principle

The extractor removes the oil remaining in seed flakes or in the cake using a special organic solvent — hexane. The process produces miscella (an oil–solvent mixture) and meal.

The loop-type extractor is a “thin-layer” extractor — in essence a chain conveyor that moves the material at a constant speed. Its body is a two-level welded steel structure made up of an upper and a lower extractor, joined by the drive housing and the loop.

Material enters the upper extractor through the loading hopper, passes through the upper extractor, the rotary section (loop) and the lower extractor in turn, and leaves the equipment through the discharge hatch of the lower extractor.

EX extractor size range 15

Model	Capacity, t/day	Dimensions H × W × L, mm	Internal cavity volume, m³
EX.20	20	3000 × 1200 × 5000	20
EX.50	50	4500 × 1700 × 8000	25
EX.100	100	5600 × 2000 × 9000	35
EX.200	200	6300 × 2700 × 11100	40
EX.300	300	7150 × 3000 × 13050	56
EX.500	500	7200 × 4000 × 16000	117
EX.800	700	7200 × 4000 × 16000	117
EX.801	700	7210 × 4030 × 16000	117
EX.801-01	700	7320 × 4040 × 18300	126
EX.011	1000	8260 × 4080 × 19371	162
EX.012	1200	8224 × 4080 × 21780	167
EX.015	1500	8210 × 4080 × 21780	165
EX.030	3000	11190 × 5630 × 32102	600
EX.050	5000	15000 × 6000 × 45000	850
EX.060	6000	16000 × 6000 × 52000	1000

Working medium: miscella, hexane vapor, cake. Working pressure (absolute) 0.1014 MPa (1.014 kgf/cm²). Dimensions are maximum.

Drive power and weight of the base models

Model	Drive power, kW	Capacity, t/h (t/day)	Weight, max, kg	Overall dimensions, max, mm
EX.200	1.5...2.2	8.33 (200)	43,500	2700 × 11,100 × 6300
EX.800	5.5	29.2 (700)	52,000	4000 × 16,000 × 7160
EX.1500	5.5	41.67 (1000)	72,000	4000 × 18,200 × 7360



Main benefits

Modern extraction technology

The extractor embodies advanced extraction developments and meets all standard oilseed processing flows.

Automation, minimal staff

Easy control and process automation keep the number of operating staff to a minimum.

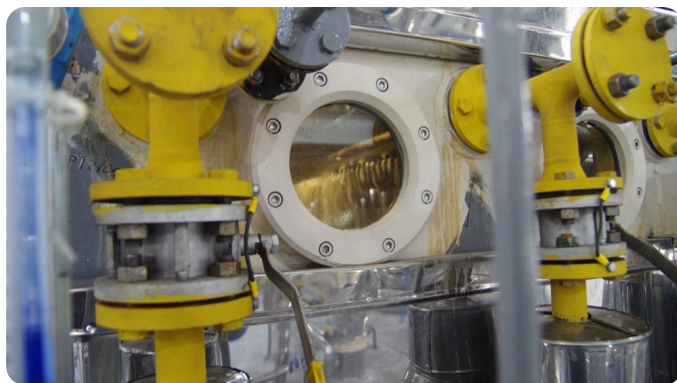
Safety and economy

Reliable operational safety, easy maintenance, low residual oil content and economical hexane consumption.

Flexible raw materials

Sunflower, soybean and rapeseed can be processed all year round, with seasonal switching from one crop to another.

Using one extractor for different oilseeds helps raise the plant's profit: it allows year-round production and flexible response to the competitive oil and fat market.



Need a calculation or a quotation?

Send us your requirements — we will select the model for your raw material and capacity.

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