

PETROSYSTEMS Suministros y Servicios para la Industria

GEA WESTFALIA MECHANICAL SEPARATION SOLUTIONS FOR CRUDE OIL O&G AND ENERGY

Centrifugal Separators & Decanters

CB May 09, 2023



GEA – Centrifugal Separators – Applications



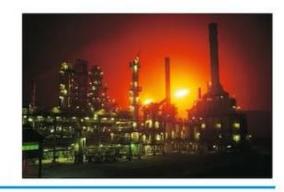


SEPARATORS - OIL & GAS AND ENERGY

Centrifuges for the Oil & Gas Industry







Upstream applications:

On- and offshore installations Oil & gas production

Tank terminals

Drilling

- Brine
- Drain water
- Drilling mud
- Slop water
- Solids control
- Tank cleaning

Production

- Crude oil
- Drain water
- Produced water

Utilities

- Bilgewater
- Fuel oil
- Hydraulic oil
- Lube oil

Oil Management

Downstream applications:

· Crude Oil

Oil refineries

- · Cat fines
- MEG (Mono Ethylene Glycol)
- Slop Oil / Oily Sludge

Gas treatment plants

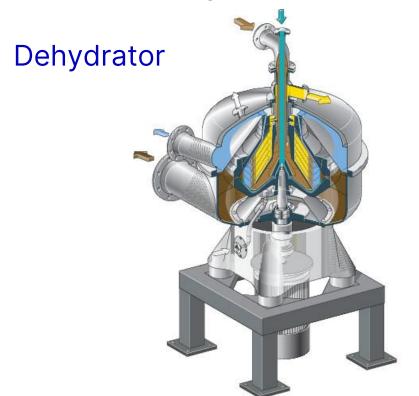
- · Slop Water
- · Tank Bottoms
- Marpol



GEA - Crude Oil Treatment Centrifuges

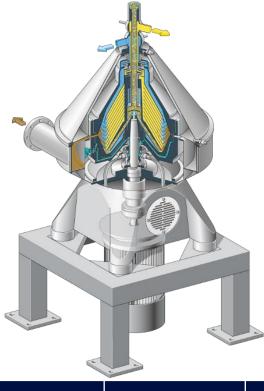


Modular centrifugal process lines for the efficient dehydration and desalting of crude oil



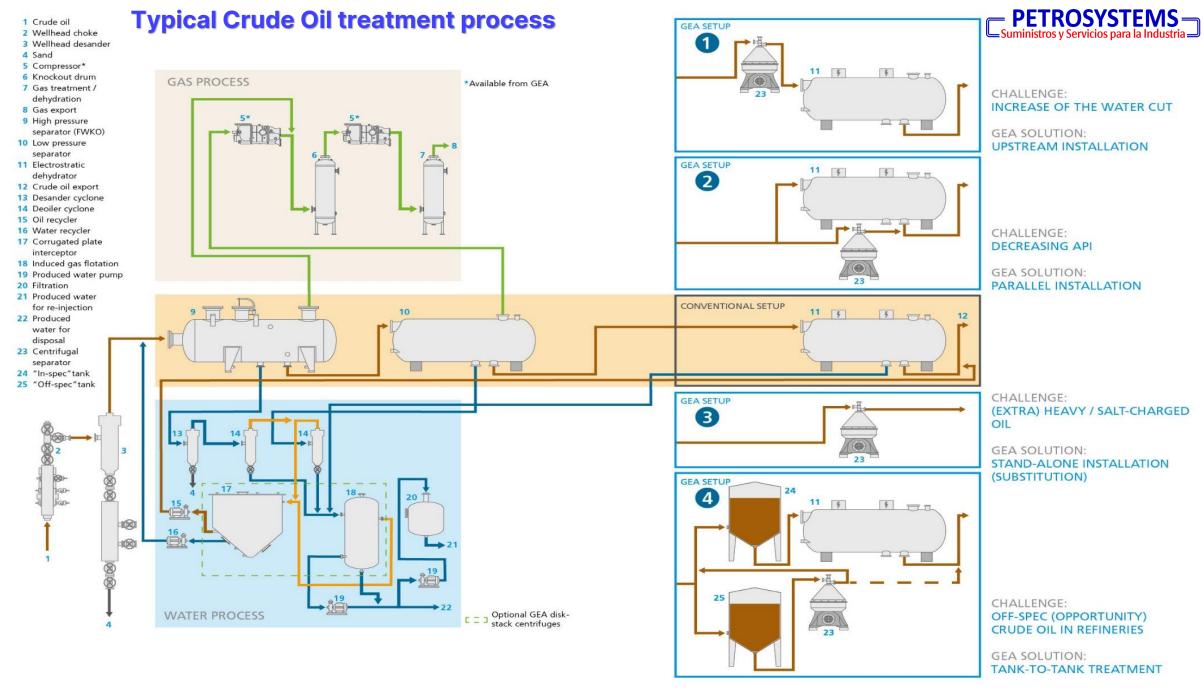
	130	260
Max. capacity	150 m ³ /h 22500 BPD	250 m ³ /h 37300 BPD
Motor Rating	130/200 kW	250 kW





	200	120	80
Max. capacity	100 m ³ /h 15100 BPD	70 m ³ /h 10570 BPD	45 m ³ /h 6800 BPD
Motor Rating	90 kW	75 kW	55 kW

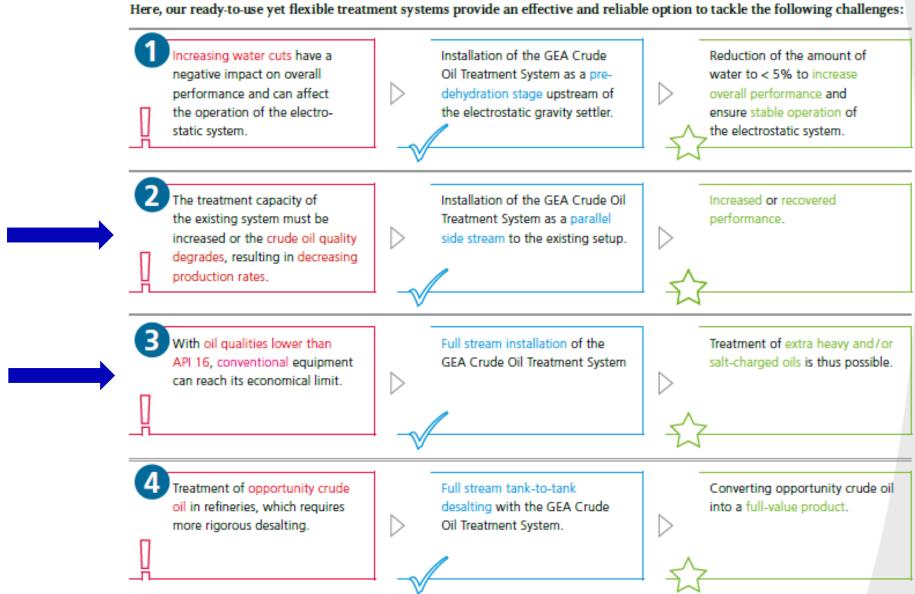






GEA - Crude Oil Treatment Solutions





Crude Oil Challenge & Solution - Low API Grade



Process Solution: Centrifuge Foot-print:66x40ft SAGD* COMPRESSED NITROGEN **OPERATING** HORIZONTAL STEAM BOILERS GENERATOR **AIR SUPPLY** WATER 5 x HEAT 3 x HEAT **EXCHANGERS EXCHANGERS** 95°C 200°F FEED TANK MANIFOLD 3 x 4900 m³/ 31000 bbl. INLET CRUDE OIL FW KO BS&W<0,5% 3 x CRUDE OIL TRANSER PUMP 4 x 4900 m³ 8 x HIGH SPEED WSD 200 DISC-STRACK-SAGD* **CENTRIFUGES** JAREGA MINE V= 48000 bpd CEA * Steam Assisted Gravity Drainage 90KW PRODUCED 122HP 3 x 4900 m³/ SLUDGE D 31000 bbl. MCC PLC 3 X PW TRANSFER PUMP CRUDE OIL TREATMENT BUILDING

