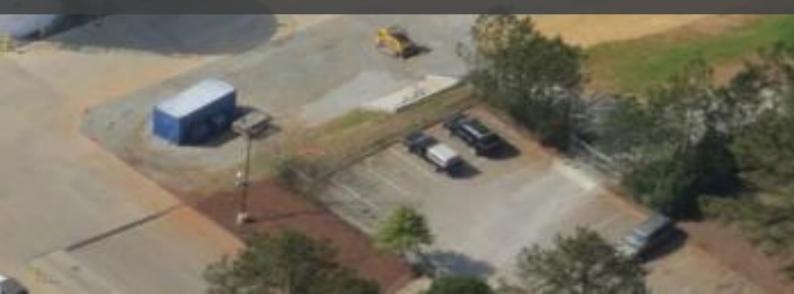


Product News

Systems for Oil processing and recovery

PETROCHEMICAL INDUSTRY



Petrochemical production

Benzine refining

Assignment

Removal of aromatic hydrocarbons from a hexane solution

Solution

Recovery by Liquid-Liquid-Extraction and a 3-step mixer settler and recovery of the extraction medium by Rectification.

Performance and Execution

Feed 3,000 kg/h Operation temperature < 120 °C

Location: ROMANIA









Used oil recovery

Liquid-Liquid Extraction column for Oil recovery

Assignment

Used oil cleaning: Removal of polycyclic aromatic hydrocarbons' PAC's and other pollutions

Performance and Execution

Feed 11,000 kg/h Operation temperature < 100 °C

Location: USA KINGDOM of SAUDI ARABIA

Solution

Recovery by using liquid-liquid extraction technology



Oil processing

Oil Dehydration and the removal of Gas Oil

Assignment

Water and Gasoil separation from used oil. The residue can be reused as base oil after additional process steps.

Performance and Execution

Distillate capacity	1,700	kg/h
Energy consumption kW	1,100	kW
Operation temperature	< 300	°C

Location:

DENMARK

Solution

Oil Dehydration and Gas Oil removal by evaporation technology



Dehydration of used oil from Automotive production process

Assignment

Used oil from an Automotive production process that has about 60% oil with graphite and metal tinder and up to 40% water content, needs to be filtrated and dehydrated. The recovered oil should be reused.

Solution

Recovery of used Oil by evaporation technology





Performance and Execution

Inlet flow	1,500	1
Outlet water flow	600	1
Recovery of Oil	900	1
Viscosity:	< 10,000	сР
Operation temperature:	< 100	°C
Water content in Oil	< 0.05	%

Location: GERMANY



Oil processing

Oil Neutralisation

Assignment

Oil distillates from a coal tar plant becomes neutralized with an NaOH Solution

Performance and Execution

Feed 14,000 kg/h

Location: CHINA

Solution

Neutralisation by Liquid-Liquid extraction technology





Every costumer requirement is a unique task, which has to be solved with customised solutions.

Special solutions for the Oil and Petrochemical Industry

- High quality of recovered solvent and oil solutions
- Low Energy Systems (LES) provided by special techniques
- Transparency and good accessibility
- Cleanable systems
- Modular options for further procedures, handling or customer requirements
- Foam handling without additional non product media

Certificates and Conformities

- CE declaration
- ATEX directive 2014/34/EU
- Specialized company according to the German Federal Water Act
- Qualified for HSE Examination

Our Skills and Background

- Costumer requirement orientated
 - → Customised, no mass product
 - → Adapted stream rates for a clean production flow
 - → Quality of the processed solution
 - → Flexible in solving costumers task
 - → Adapted plant design towards costumers' needs
- Experts in Thermal Process Technology
- High demand for quality of design and on economically and sensibly calculated solutions
- High standard HSE risk assessment HAZOP -
- Transparency in project management, by frequent reports to the customer
- High demand on documentation
- Automation with special knowhow of thermal process'
- Highly qualified personnel

© Copyright 2018

The content and works published in this prospectus are governed by the copyright laws of Germany. Any duplication, processing, distribution or any form of utilisation beyond the scope of copyright law shall require the prior written consent of the author or authors in question.

INDUSTRIES

Pharmaceutical, Biopharma, Food, Cosmetics

Coatings, Pigments, Paint and Dye

Petrochemical Oil processing

Polymer

Chemical

Surface treatment

and more....

EVAPORATION
Natural-/ Forced circulation
Falling-film
Multistage
Thin film
Vapour recompression
Heat pump

CRYSTALLISATION / DRYING Evaporation crystalliser Thin film dryer

RECTIFICATION /
ABSORPTION
Packed column
Scrubber
Absorption column

LIQUID-LIQUID-EXTRACTION Extraction column, agitated Mixer-Settler Multistage reaction column

Customised Solutions



SCHULZ+PARTNER GMBH
CARL-ZEISS-STR. 11
D-79331 TENINGEN
Phone + 49 (0)7641 95 95 700
Fax + 49 (0)7641 95 95 701
INFO@SCHULZPARTNER.COM
WWW.SCHULZPARTNER.COM