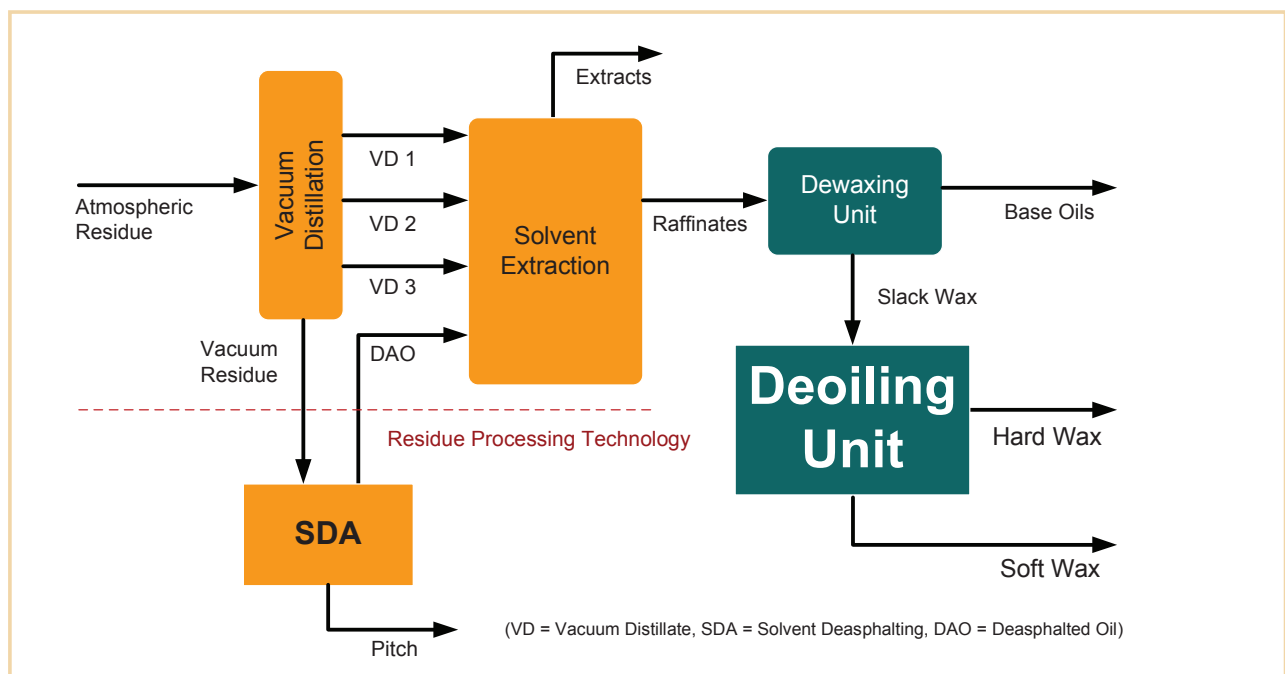


DEWAXING AND DEOILING

Increasingly efficient industrial plants require high-quality lubricants. Hard and soft waxes to be used for the production of food and cosmetics are in great demand.

Due to sophisticated processing technologies (e. g. catalytic cracking) refineries produce less by-products such as aromatics and paraffin/waxes. For this reason lube oil and paraffin producers look for new, more efficient technologies.



Dewaxing and deoiling process as central part of an advanced lube oil refinery

For optimum processing of feeds having different properties, EDL and Sulzer offer dewaxing and deoiling technologies with and without solvent.

The selection of the optimal process guarantees the best possible product quality and the most attractive investment.

Solvent-free process	Solvent process
Typical yield 80 – 95 %	Typical yield 50 – 70 %
No solvent or additives	Solvent required
No filter or separator	Filter or separator needed
Little maintenance needed	More maintenance due to rotating parts
Low energy consumption	Higher energy consumption
Low operating expenditure	Higher operating expenditure
Low capital expenditure	Higher capital expenditure
For light and medium feed	For light to heavy feed

OUR APPROACH TO AN OPTIMIZED TECHNOLOGY: EXPERIENCE, TESTS AND SIMULATION

The tests show the following results:

- Determination of the equilibrium data
- Optimization and determination of process parameters (crystallization temperature, solvent ratio, temperature gradients, ...)
- Determination of lube oil, soft wax and hard wax yield
- Analytical evaluation of the product quality



EDL-Pilot plant for the solvent process



Sulzer-Pilot plant for the solvent-free process

The test results are the basis for process simulation as well as for:

- Thermodynamic process design
- Determination of substance properties for further processing
- Design and dimensioning of a complete dewaxing/deoiling plant incl. required off-sites

EDL and Sulzer offer the most efficient solution - the free selection of the process (with or without solvent) or a combination of both technologies.

Plant modernization and capacity increase are possible without production downtime by combining the processes.



EDL ANLAGENBAU GESELLSCHAFT MBH

Lindenthaler Hauptstrasse 145 | 04158 Leipzig | Germany

Mr. Andreas Liebscher (Head of Sales)

Phone: +49 341 4664-360 | Fax: +49 341 4664-379

E-Mail: andreas.liebscher@edl.poerner.de

www.edl.poerner.de

SULZER CHEMTECH LTD.

Sulzerallee 48 | PO Box 65 | 8404 Winterthur | Switzerland

Mr. Mathias Pfeil (Regional Sales Manager)

Phone: +41 52 262 6845 | Fax: +41 52 262 0060

E-Mail: mathias.pfeil@sulzer.com

www.sulzer.com