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Vapour Degreasers

Industrial parts cleaning
with IDO series



Vacuum Distillator

Solvent distillation
with DESTA series



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Ch.Batsch
Verfahrenstechnik GmbH

Parts
cleaning



Before



After

Industrial parts cleaning with IDO 36 & IDO 72

- // Allows decentralized degreasing
- // No permit required
- // Extremely low energy consumption in working mode and in standby mode
- // Low use of stabilizers
- // No hazardous waste generated
- // No routine maintenance required
- // No pumps, only one valve used
- // No heat loss due to pipe systems or pumps
- // Equipment is ready for use after a 20 minutes heat up phase
- // Integrated activated carbon
- // Short cycle times (as low as 2.5 minutes starting from loading)
- // Operated with highly-effective perchloroethylene

Machining processes use substantial volumes of coolant to protect the machinery and materials against premature wear. These processes use oils as well as emulsions. This mix of process consumables can be handled without any problem by our IDO 36 degreaser. Incorporated water is automatically separated and is thus not able to further degrade the cleaning process. Waterspots are avoided by our shower-rinse process (optional). Surface tension is optimized by the intensive use of highly-purified solvent vapor.

Your benefits

Precision cleaning with IDO 36

- // Up to 360 kg/h of throughput
- // Surface cleanliness up to 72 mN/m
- // Cleaning of metal particles $\geq 150 \mu\text{m}$
- // Decentralized and flexible equipment setup
- // Total electrical power rating: 9.5 kW
- // No permit required
- // Only 20 minutes for heat up phase
- // Total PERC content: 40 liters
- // Solvent can be fully recycled by the DESTA unit
- // Upgrade with automated feeder
- // 4-year warranty

“The high vertical integration guarantees quality and gives our customers flexibility”

Use of various basket sizes



Operator safety due to vacuum collection in the gate and activated carbon

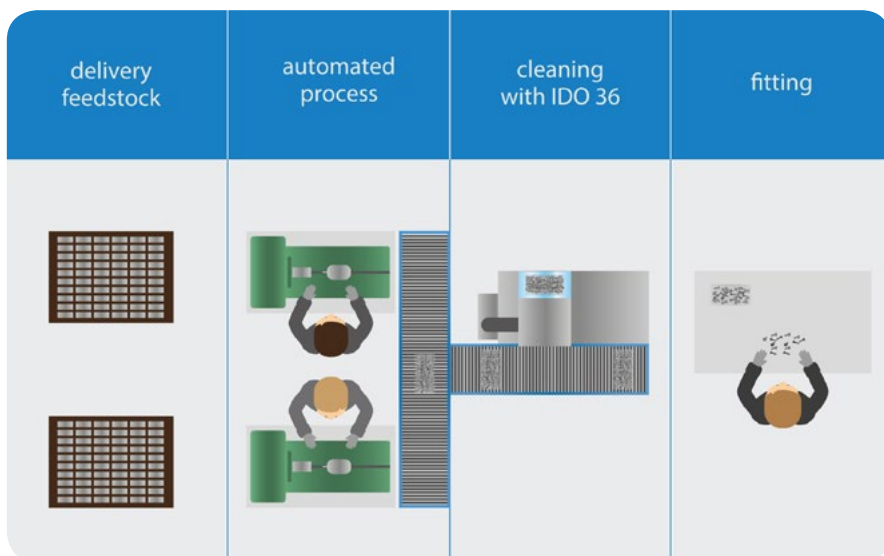
About us

Innovative solutions for cost-effective industrial parts cleaning – this has been the mission of Ch.Batsch Verfahrenstechnik GmbH – now in its second generation. The General Manager, Dipl. Ing. (FH) Christine Batsch grew up in the family business Jürgen Batsch Maschinenbau, collecting experience that resulted in the formation of Ch.Batsch Verfahrenstechnik in 2014. In addition to parts cleaning machines, the company also manufactures distillers for efficient solvent recycling. The company places a top priority on quality “Made in Germany” for manufacturing its equipment, starting with the high vertical integration within the company and by relying on premium components made in Germany.

Customized
to your
needs



Automated
with feeder



“Cleaning result:

72 mN/m of surface tension
with the IDO 36!«

Options and upgrades for IDO 36 & IDO 72:

Preparation for 3-shift operation

- // In combination with the DESTA still, cleaning of e.g.:
 - / 24 trays of light material/hror
 - / 15 trays of heavy material/hr

Automated feeder

- // An unlimited number of baskets can be staged
- // Solvent is filled automatically

Ultra-sonic cleaning

- // Integrated ultra-sonic vibrating rod for loosening tough buildup

Shower-rinse

- // Installation of a shower-rinse with highly-purified PER distillate for removing fine metal particulate

protection from corrosion

- // Equipment for applying cor. inhibitor

Solvent recycling

Solvent distillation with the DESTA vacuum evaporator

Your benefits

- // Maximized surface purity
- // Constant high cleaning performance for the IDO36
- // Reduced solvent acidification
- // Reduced stabilizer consumption
- // Reduced degreaser wear and tear
- // Automated filling and discharging
- // No cleaning required
- // Reduced/eliminated costs for disposal of used oil
- // Oil can be reused in the production process
- // 4-year warranty

The DESTA series is available in the following sizes:

- // DESTA 20 // DESTA 25 // DESTA 255

Compact design:
Tube bundle heat exchangers in the DESTA still

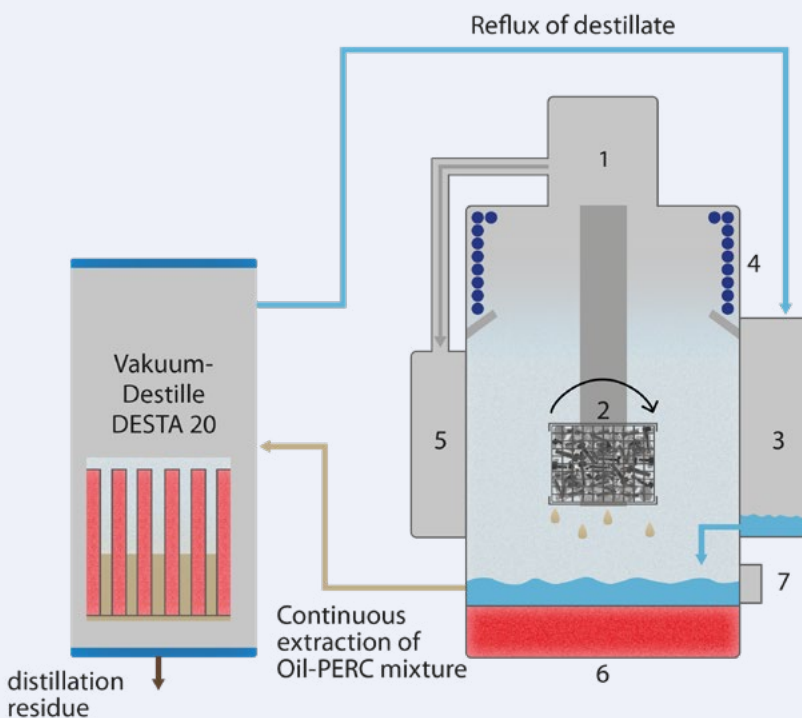


DESTA vacuum distillation system



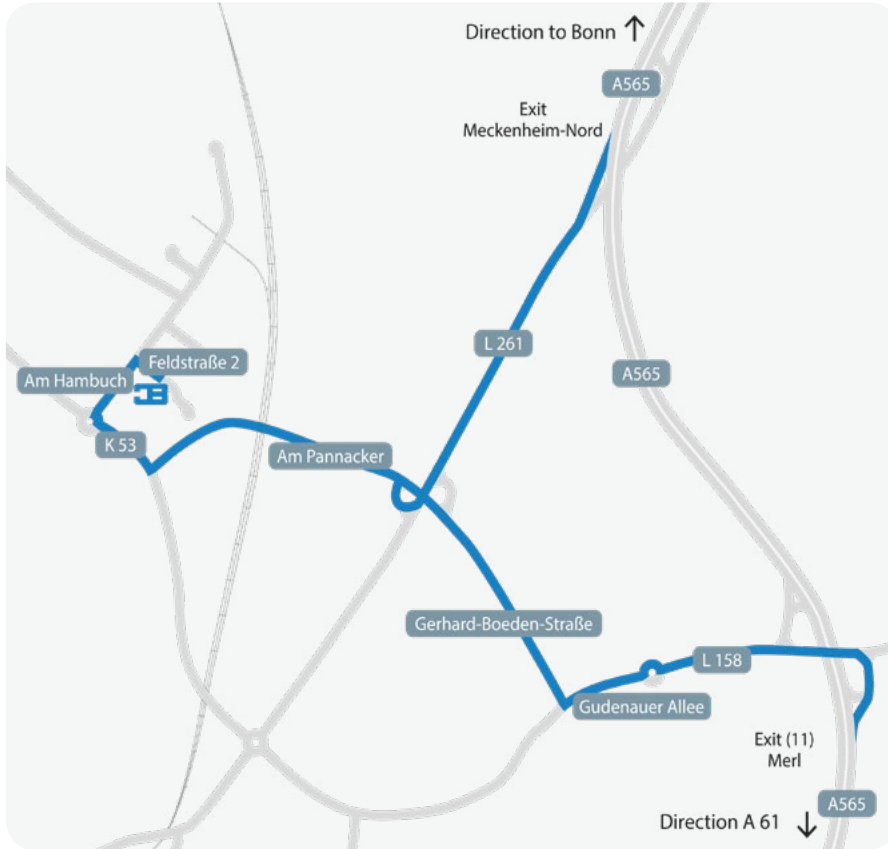
»More than 27 liters of oil extracted per day with less than 1 % of residual solvent in the used oil«

Process diagram shows combination of IDO 36 & DESTA evaporator



- 1: Gate for loading the system
- 2: Basket can be rotated or pivoted and is surrounded by vapor
- 3: Clean PERC is refilled to maintain the fill level
- 4: Freeboard zone for drying process and protection against PERC emission
- 5: Before the gate opens, air is sucked over activated carbon (for safety reasons)
- 6: Indirect vapour heating
- 7: Manhole for swarf removal

How to
find us



batsch-verfahrenstechnik.de

Ch.Batsch Verfahrenstechnik GmbH

Feldstraße 2
53340 Meckenheim
Germany

Tel: +49 2225-5722
Fax: +49 2225-17191
info@batsch-verfahrenstechnik.de
www.batsch-verfahrenstechnik.de



einfach.sauber.
Ch.Batsch
Verfahrenstechnik GmbH