

DTE

Flat bed coolant filter



DTE

Detex is a flat bed coolant filter, using non-woven fabric for eliminating magnetic and non-magnetic particles from neat oil and emulsion.

Filtration degree can be determined by the choice of the fabric, ranging from 10 to 50 micron, granting the highest level of filtration.

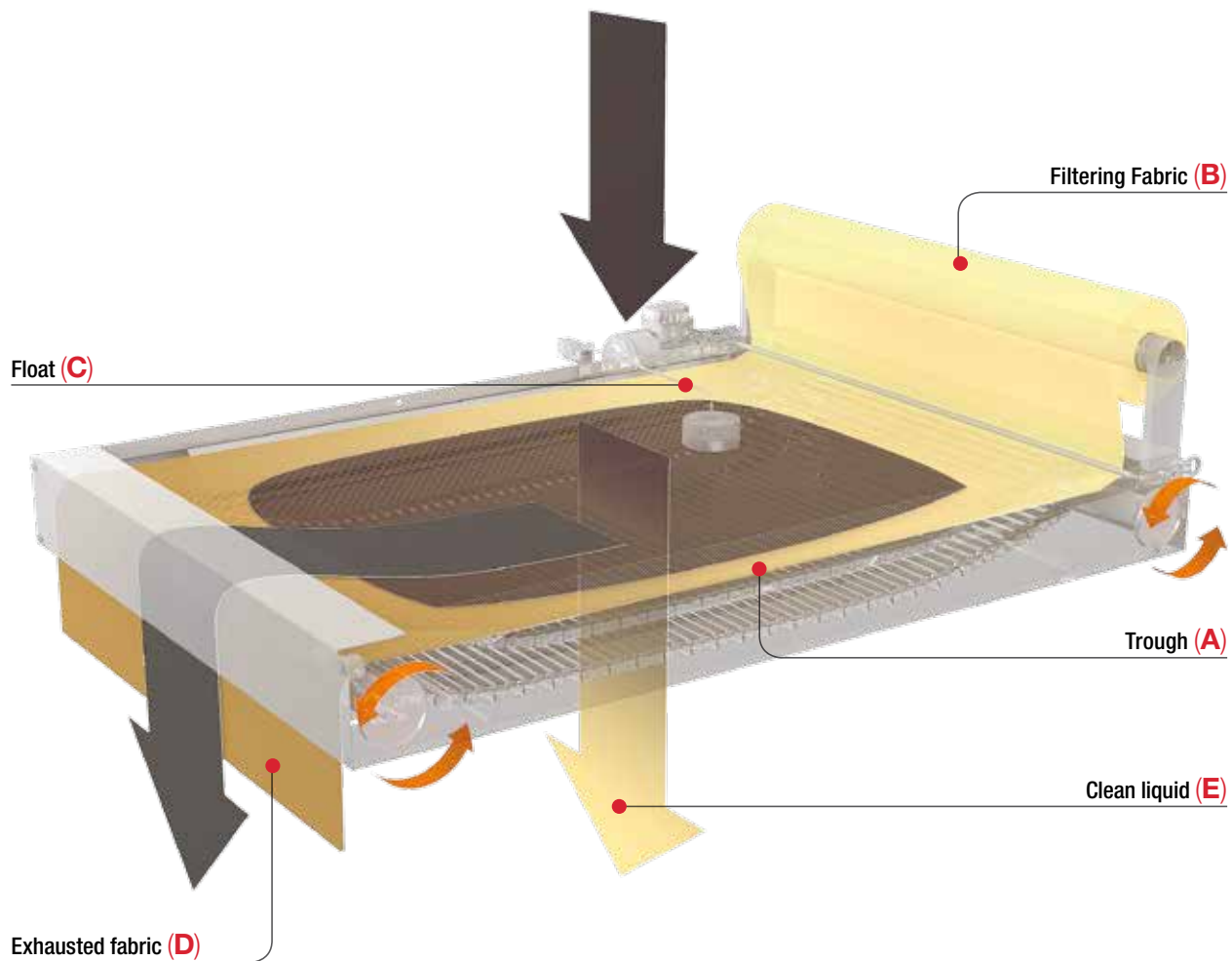
Detex is available in 12 sizes, with a flowrate capacity from 50 to 400 l/min of emulsion and from 25 to 200 l/min of neat oil.



LOSMA guarantees that every single unit is individually tested through strict control procedures. Each unit is issued a test certificate for quality and function.



Working principles



- 1** The dirty coolant falls into the distribution trough (A) and from here onto the filter fabric (B) which retains solid pollutant particles (dust and swarfs) while the filtered oil passes through it.
- 2** The fabric collects progressively the pollutant, until losing its filtering capacity. At this stage the liquid collects on the trough

- and lifts the float (C) and starts an automatic system, which advances the collection tray to change the exhausted fabric with the new one.
- 3** Exhausted fabric (D) is collected in a dedicated tank. The clean liquid is collected the tank below (E), in order to be pumped back to the machine tool.

Plus



AVAILABLE IN STAINLESS STEEL VERSION

Detex is also available in stainless steel version, suitable for filtering water, salty or corrosive liquids used in mechanical machining sector or in pharmaceutical and food industry.



ECONOMICAL

Fabric filtration guarantees a high filtration efficiency with a limited initial investment.



MODULARITY AND VERSATILITY

DTE series offers a wide range of models, facilitating the choice of an appropriate solution for customer's needs avoiding wastes for low-dimensioned systems or, on the contrary, inefficiency for over-dimensioned ones.

Fabric can be changed following customer and machining needs, this guarantees versatility to DTE.

Optional

Skim

Superficial oil skimmer, it allows to lengthen coolant quality and eliminate odors generated by anaerobic bacteria.

DMD

Pre-filtration system with rotating magnetic discs for the separation of magnetic polluting particles from coolant.



Electrical panel

For powering the system, control and command all signals.

Collecting tank

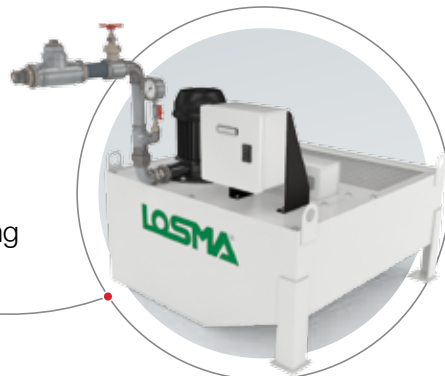
For clean liquid collection, to be sent back to the machine tool.

Pump

For pressure from 0,1 to 100 bar for returning clean liquid.

Transfer tank

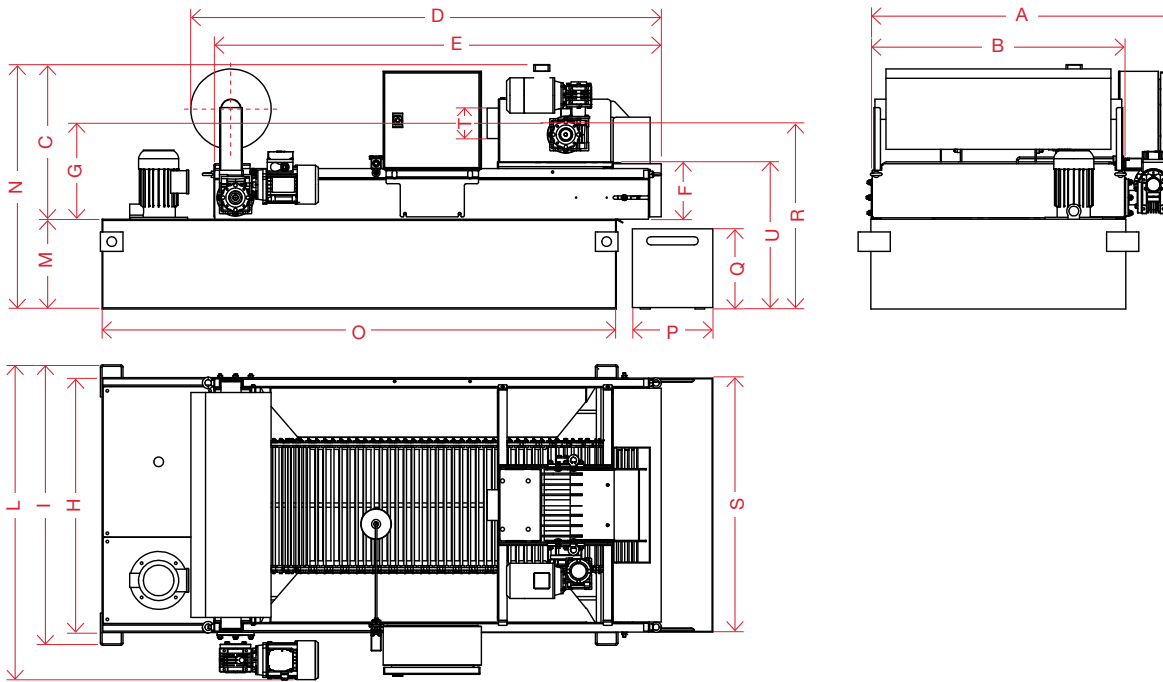
To collect dirty liquid for feeding the filter.



Installations



Technical data



| DTE | Dimensions (mm) | | | | | | | | | | | | | | | | | | |
|-----|-----------------|------|-------|-----------------|------|-----|-----|------|------|------|-----|-----|------|-----|-----|-----|------|----|-----|
| | A | B | C | D (roll 250 mm) | E | F | G | H | I | L | M | N | O | P | Q | R | S | T | U |
| 30 | 630 | 480 | 432 | 815 | 750 | 178 | 298 | 400 | 480 | 630 | 200 | 620 | 825 | 200 | 170 | 500 | 480 | 2" | 378 |
| 50 | 750 | 590 | 481 | 1115 | 1040 | 178 | 298 | 593 | 673 | 780 | 280 | 761 | 1250 | 250 | 250 | 578 | 590 | 3" | 458 |
| 100 | 950 | 790 | 481 | 1465 | 1390 | 178 | 298 | 793 | 873 | 980 | 280 | 761 | 1600 | 250 | 250 | 578 | 790 | 3" | 458 |
| 150 | 1250 | 1090 | 481 | 1665 | 1590 | 178 | 298 | 1093 | 1173 | 1280 | 280 | 761 | 1800 | 250 | 250 | 578 | 1090 | 3" | 458 |
| 200 | 1250 | 1090 | 481 | 2115 | 2040 | 178 | 298 | 1093 | 1173 | 1280 | 280 | 761 | 2250 | 250 | 250 | 578 | 1090 | 3" | 458 |
| 250 | 1250 | 1090 | 481 | 2615 | 2540 | 178 | 298 | 1093 | 1173 | 1280 | 280 | 761 | 2750 | 250 | 250 | 578 | 1090 | 3" | 458 |
| 300 | 1250 | 1090 | 503,5 | 3115 | 3040 | 178 | 298 | 1093 | 1173 | 1280 | 280 | 761 | 3250 | 250 | 250 | 578 | 1090 | 3" | 458 |
| 350 | 1250 | 1090 | 503,5 | 3615 | 3540 | 178 | 298 | 1093 | 1173 | 1280 | 280 | 761 | 3750 | 250 | 250 | 578 | 1090 | 3" | 458 |
| 400 | 1250 | 1090 | 503,5 | 4115 | 4040 | 178 | 298 | 1093 | 1173 | 1280 | 280 | 761 | 4250 | 250 | 250 | 578 | 1090 | 3" | 458 |
| 450 | 1250 | 1090 | 503,5 | 4615 | 4540 | 178 | 298 | 1093 | 1173 | 1280 | 280 | 761 | 4750 | 250 | 250 | 578 | 1090 | 3" | 458 |
| 500 | 1250 | 1090 | 503,5 | 5115 | 5040 | 178 | 298 | 1093 | 1173 | 1280 | 280 | 761 | 5250 | 250 | 250 | 578 | 1090 | 3" | 458 |

| DTE | Tank capacity | Max filtering cap. emulsion* | Max filtering cap. neat oil | Pump pressure | Power | Input tension 230V / 50Hz 260V / 60Hz | Input tension 400V / 50Hz 460V / 60Hz | Weight |
|-----|---------------|------------------------------|-----------------------------|---------------|-------|---------------------------------------|---------------------------------------|--------|
| | l | l/min | l/min | bar | kW | A | A | |
| 30 | 51 | 30 | 15 | 0,2 | 0,28 | 1,75 | 1,04 | 70 |
| 50 | 167 | 50 | 25 | 0,2 | 0,28 | 1,75 | 1,04 | 90 |
| 100 | 287 | 100 | 50 | 0,2 | 0,42 | 1,85 | 1,07 | 135 |
| 150 | 445 | 150 | 75 | 0,2 | 0,52 | 2,45 | 1,39 | 195 |
| 200 | 557 | 200 | 100 | 0,2 | 0,65 | 3,55 | 2,09 | 235 |
| 250 | 656 | 250 | 125 | 0,2 | 0,9 | 4,15 | 2,39 | 275 |
| 300 | 805 | 300 | 150 | 0,2 | 1,27 | 4,15 | 2,39 | 210 |
| 350 | 842 | 350 | 175 | 0,2 | 1,27 | 4,15 | 2,39 | nn |
| 400 | 1050 | 400 | 200 | 0,2 | 1,59 | 5,65 | 3,29 | 380 |
| 450 | 1090 | 450 | 225 | 0,2 | 1,59 | 5,65 | 3,29 | nn |
| 500 | 1215 | 500 | 250 | 0,2 | 1,59 | 5,65 | 3,29 | nn |

* Flow rates data refers to emulsion with a max. oil concentration of 5% or neat oil with a max. viscosity of 20cst at 40°C, and with a filtering media having a weight not over 35g/m². Different characteristics of the coolant to be treated, pollutant typology and its concentration could considerably influence the filtration system's performances. Our Technical Dept. is available for studying the best solution for your requirements.



Health



Savings



Efficiency



Environment



Safety

newtarget



Losma SpA - Via E. Fermi, 16
24035 Curno (BG) - Italia
Cap.Soc. I.V. Euro 500.000,00
Reg. imp. e P.IVA e C.F. 01234590162
R.E.A. 185685



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