



Product Guide

High-Pressure Coolant Systems



Why choose lemca high-pressure coolant systems



Cartridge filters with a large surface area

**LONG
SERVICE LIFE**



Large clean-fluid tank

**SIMPLIFIED
MAINTENANCE**



Sensors for filter cleaning/replacement

**MACHINE STATUS
MONITORING**



Different outlet pressures

**MAXIMUM
FLEXIBILITY**



Maximum energy efficiency

**ENERGY
SAVING**

OPTIONAL

- Inverter for flow rate control and pressure adjustment directly from the lathe *
- Extra Pressure / Flow Kit *
- Cooling systems
- 4/8 solenoid valve group
- Pressure reducers
- Duplex filters
- Reusable metal mesh filters
- No Noise Kit
- Emulsion Kit

ENERGY SAVING PRO *

- Increased energy efficiency and reduced heat generation

STANDARD

ENERGY SAVING MAX *

- Maximum energy efficiency and lower heat generation
- Pressure adjustment from the bar feeder operator panel or directly from the lathe

PREMIUM

** Available only on Blue Line 100*

CLEAR LINE 50

DEGREE OF CONTAMINATION



Available in
SOLO VERSION



tank capacity	50 liters
viscosity	up to 22 cSt
filters	cartridge
pre-filter	-
purity grade at output	60 µm (10 µm, 25 µm)*
high-pressure pump	fixed flow rate
max pressure at outlet	80 bar
max flow rate at outlet	25 L/min
transfer pump	yes

BLUE LINE 100

DEGREE OF CONTAMINATION



Available in
SOLO VERSION



tank capacity	100 liters
viscosity	up to 22 cSt
filters	high-surface area cartridge
pre-filter	180 µm
purity grade at output	30 µm (10 µm)*
high-pressure pump	variable flow rate fixed flow rate (Inverter)*
max pressure at outlet	120 bar (150 bar)*
max flow rate at outlet	25 L/min (33 L/min)*
transfer pump	yes

* Optional



ENERGY SAVING

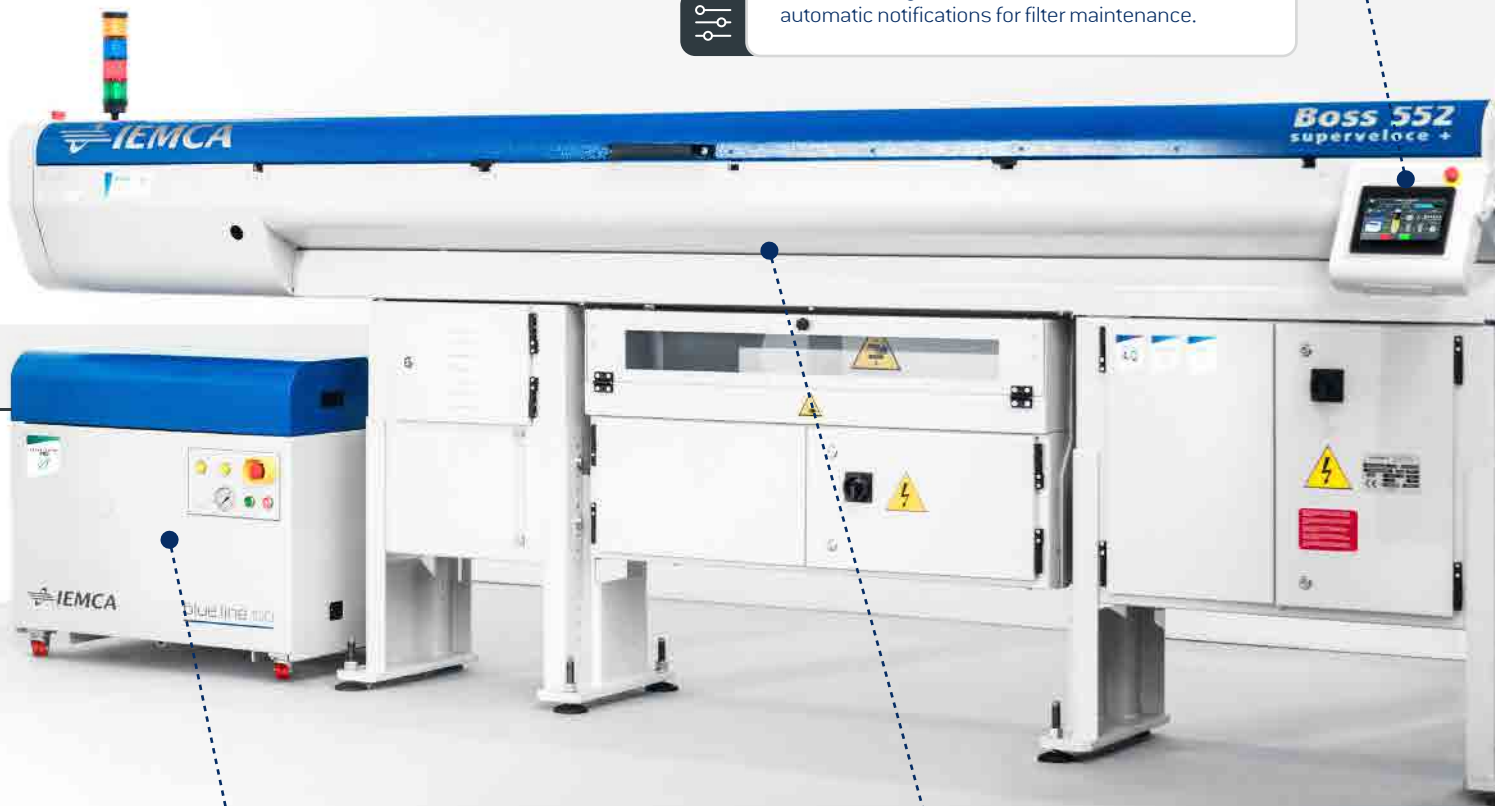


Full integration, centralised control

Iemca **ELITE**, **BOSS** or **SMART** bar feeder and high-pressure coolant system combined in a single **plug & play solution**. Optimised compact layout, neat cable and pipe management, full control from a single operator panel.

A SINGLE OPERATOR PANEL

The bar feeder operator panel includes a dedicated section for the high-pressure coolant unit to monitor status and alarms in real time. An alert system enables timely corrective intervention, with automatic notifications for filter maintenance.



COMPACT DIMENSIONS

Compact design for installation directly under the bar feeder.



OPTIMISED LAYOUT

Cable duct at the back of the bar feeder for neat cable and pipe management in the workshop.



Designed for optimal performance

Every aspect of the lemca high-pressure coolant system has been developed using high-quality components and advanced technologies with one clear goal: **to maximise application productivity by eliminating inefficiencies and machine downtime**, while simplifying every stage of daily operation – from immediate pressurisation to intelligent energy consumption control.



Simple, fast maintenance

Quick filter replacement from the top without contaminating the clean area. The duplex system and intelligent sensors reduce the frequency and complexity of maintenance operations.



Outlet pressure flexibility

Dedicated pressure reducers allow different circuits to operate at different pressures and also support low-pressure washing within the same cycle.



Instant pressure, no waiting

The coolant fluid is immediately available under pressure, with no start-up delays, downtime or energy waste.



Energy only when needed

Thanks to the discharge solenoid valve, the pump operates at low pressure during pauses and instantly returns to full operating pressure, preventing overheating and energy waste.



Active system protection

Minimum- and maximum-pressure sensors, together with temperature sensors, continuously monitor the system to prevent malfunctions, optimise energy consumption and signal non-optimal operating conditions.



Level under control, continuous production

The integrated float switch monitors the coolant level in the lathe tank and prevents dry running or overflow, reducing machine downtime.

The standalone high-pressure solution

SOLO is the lemca high-pressure coolant system independent of the bar feeder, installable on any lathe, machining centre or machine tool.

- Installation on lathes equipped with any brand of bar feeder, or without a bar feeder
- Upgrade of existing applications with lemca bar feeders or older lathes
- Replacement of high-pressure units already in use
- Installation on machining centres and machines that do not work with bars



SOLO



Same performance as integrated systems, with the freedom to install on any machine.



Same technology as the integrated models

Technical features are identical to those of the corresponding integrated models, Clear Line 50 and Blue Line 100.



Full control from dedicated panel

7-inch operator panel with real-time monitoring, operating parameter control and alarm management.



Digital-ready: ready for the connected factory

Connectivity and data exchange with factory systems, for integration into digital production processes.

iemca.com



HEADQUARTERS

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OUR BRANCHES



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BUCCI INDUSTRIES CHINA

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