

The SCS is a high-pressure cooling system from 70 to 135 Bar (1015 to 1958 psi) high performance machining. Compact design, state-of-the-art technology and adaptable to any kind of Machine-Tool.

These high-pressure pumps include an advanced control system and a modular design that can be adapted to any machine-tool and are prepared to work in the most demanding work-shop environment.

Its operation is based on the injection of fine-filtered coolant (oil or Emulsion) at high-pressure through tubes and nozzles prepared to withstand such pressure and directed to the cutting edge of the tool.

SCS pumps can be used in a wide range of materials, machine-tools and applications (turning, milling, drilling, boring or grooving) where high-pressure might be required. Additionally, this is an auxiliary equipment, easy to instal, operate and with minimal maintenance.

This new range of high-pressure pumps includes several improvements based on the experience of hundreds of units installed through the years. All the models can be adapted for Industry 4.0 with remote monitoring, maintenance and software updating.



SCS
High Pressure

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SCS
High Pressure

**High pressure
Cooling Systems**

New range HPC 2019

www.scs-hp.com



ADVANTAGES

OIL / EMULSION

High-pressure coolant systems with precision filtering installed in Machine-Tools with objective and measurable advantages:

- Reduction of machining cycle time.
- Increase of tool life.
- Improvement of surface finishing.
- Improvement of chip control, helping to reduce its size.
- Improvement of the quality and lifetime of the coolant.
- Consequently, a huge increase in productivity.



SCS 500

OIL / EMULSION

Super Compact high-pressure system, that fits under most of bar feeders in the market.

Ideal for small sliding head lathes, drilling and tapping centers or lathes of up to 11 KW of spindle power.

- Pressure: from 70 to 100 Bar (1015 to 1450 psi)
- Flow: from 16 to 20 L/min
- High-pressure outlets: 4 (optional up to 8).
- "Venting" for immediate high-pressure delivery response.
- Filter: bag type 5 µm.
- Tank capacity: 50 L.
- Full color 7" touch-screen / User-friendly HMI (Industry 4.0)



SCS 1500

OIL / EMULSION

High-pressure system with bag filter and high capacity tank. Ideal for almost any kind of machine-tool: sliding head lathes, fix head lathes or machining centers.

- Pressure: from 70 to 135 Bar (1015 to 1960 psi)
- Flow: from 23 to 60 L/min
- High-pressure outlets: 8 (optional up to 16).
- "Venting" for immediate high-pressure delivery response.
- Filter: bag type 25+5 µm.
- Tank capacity: 220 L.
- Full color 7" touch-screen / User-friendly HMI (Industry 4.0)



SCS 1900

EMULSION

Very competitive high-pressure system for emulsion with multi-pocket flag filter and high capacity tank. Ideal for fixed head lathes, vertical and horizontal machining centers of up to 17 KW of spindle motor

- Pressure: 70 Bar (1015 psi)
- Flow: 30 L/min
- High-pressure outlets: 1 or 2.
- "Venting" for immediate high-pressure delivery response.
- Filter: 2 x multi-pocket textile filter of 10 µm / 2 filter lines, each with 2 filters.
- Tank capacity: 250 L.
- Full color 7" touch-screen / User-friendly HMI (Industry 4.0)



SCS 2100 / 2200 / 2300

OIL / EMULSION

High-pressure system for emulsion, with multi-pocket textile filter and available with 1, 2 or 3 pumps. Ideal for fixed head lathes with 1, 2 or 3 turrets, vertical or horizontal machining centers.

- Pressure: 70 Bar (1015 psi)
- Flow: From 25 to 105 L/min
- Number of pumps: 1, 2 or 3.
- High-pressure outlets: from 1 to 6.
- "Venting" for immediate high-pressure delivery response.
- Filter: 2 x multi-pocket textile filter / 2 filter lines, each with 4 filters.
- Optional: Self-cleaning filter Paper band filter.
- Tank capacity: 370 L.
- Full color 7" touch-screen / User-friendly HMI (Industry 4.0)



CHILLER

OIL / EMULSION

External standalone cooling systems to connect to high-pressure pumps or directly to the Machine Tool tank.

High precision chillers, with minimum hysteresis (0.5°C) and bypass valve for optimal on-off cycle.

- Control: Carel with temperature setting and visualization.
- Filter: Spin-on cartridge type.
- Autonomous recirculation pump.
- Cooling capacity: 5, 7, 9 y 11 KW

