

Proline

Sytronix Eco 



Controlling the **power** of water



Shape Process
Automation
SHAPE TECHNOLOGIES GROUP®

Proline Series

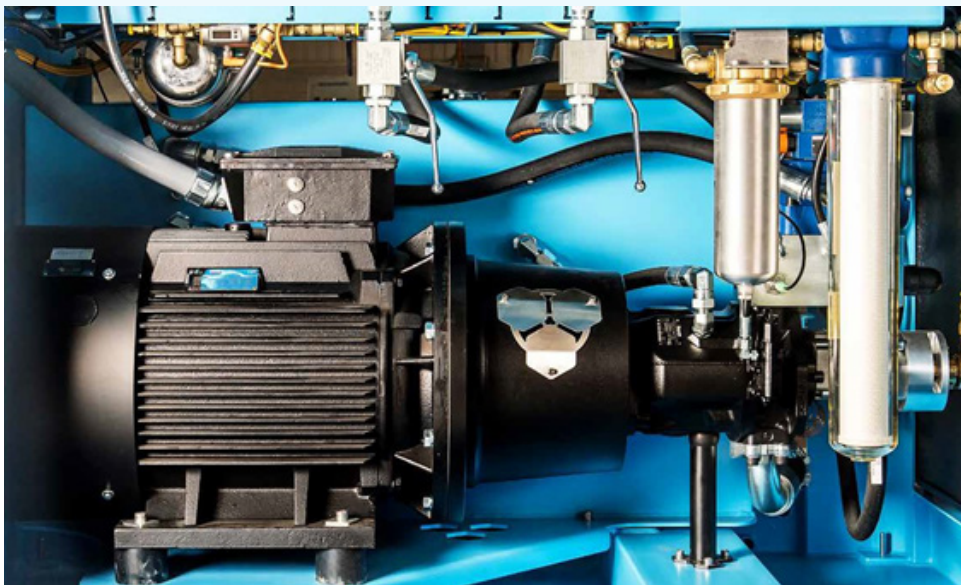
The Proline Series is the result of many years of industry research and development combined with our extensive experience of working with waterjet cutting technology. One of the features is the proven, industrial high-pressure intensifier with Zirconia super polished ceramic plungers.

High pressure pump system

The Proline model includes a series of high pressure pumps ranging from 50 to 100 hp and can be customized with SL IV or SL V intensifier. The Proline Series is based on industry standard components such as Siemens soft start, Siemens PLC, and an operator panel from Siemens. Further, Proline offers complete interchangeability with the KMT product range.

Advantages and features

- Large Accumulator (1.2 liter) insures low pulsations in high pressure system
- Accumulator (2 liter) on the low pressure side reduce the risk of cavitations on the inlet port
- Safety dump valve on the low pressure side
- Long thermal length on the plate cooler, (Reduce water consumption)
- Rexroth electrical motor IE3 standard (IE2- Sytronix), reduce power usage
- Rexroth Hydraulic power package and control valves
- All major components are European standard
- Designed for easy access to all maintenance areas
- Large hydraulic tank access doors for inspection and cleaning
- Pump and all high pressure part designed, manufactured & tested in Sweden



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Proline Sytronix Eco pump

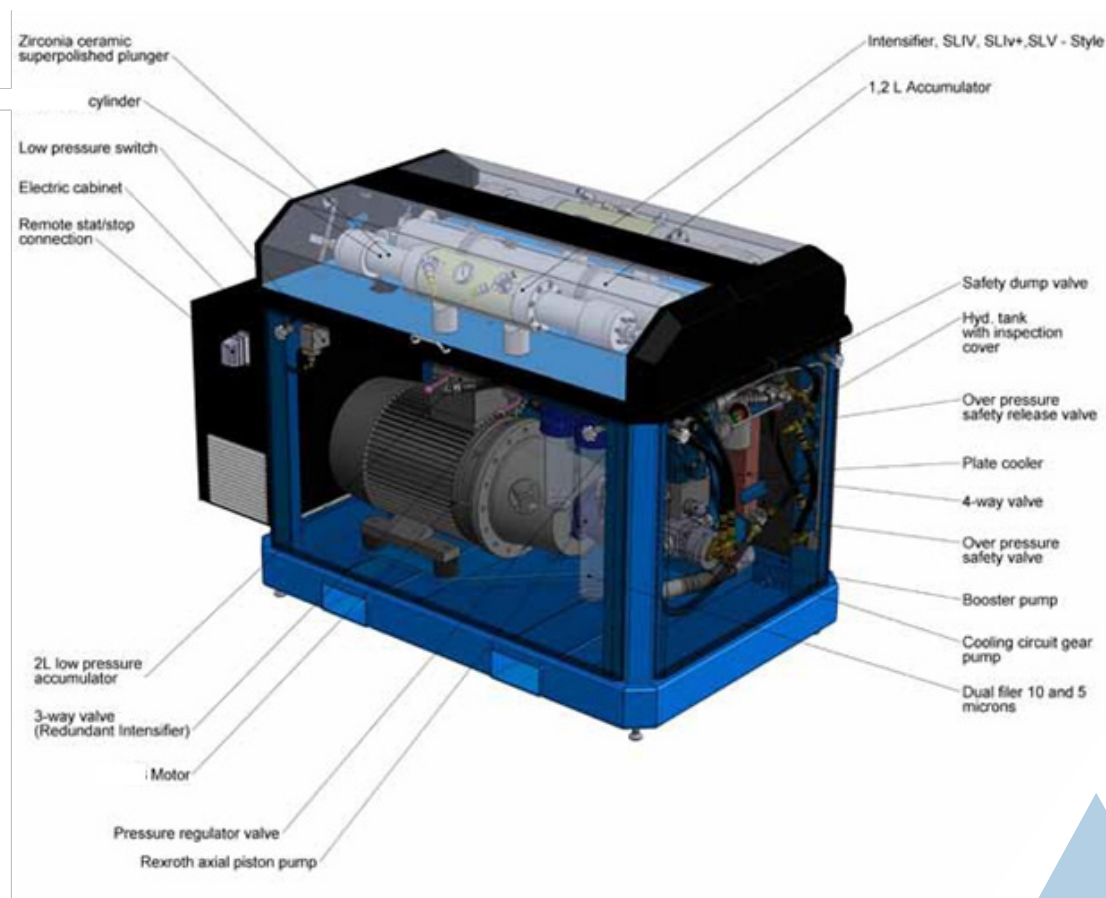
The pump works as a team with the Sytronix drives controlling the variable speed of motors/pump.

The flow and pressure transducer sense flow rate and pressure required and the drive controls the rpm of the motors, in line with the demand of flow and pressure required.

This means the Sytronix regulates the speed and thus the power consumption of the electrical motors in line with demand. The higher the share of variable load the greater the saving potential, thus energy consumption can be reduced by up to 80%.

Advantages and features

- Lower power consumption
- Reduced noise level due to lower rpm
- Lower water cooling consumption
- Less stressed and longer life time due to lower rpm
- Sytronix Eco system designed in close cooperation with Bosch Rexroth
- Multi system control via intelligent Sytronix parallel communication ensures synchronized motor load between pumps
- Operator panel with 7" colour single touch screen.



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Technical specification

	K60c
High-Pressure Pump	
Design pressure (bars)	4 140
Max. operating pressure (bars)	3 800
Flow rate (litres per minute)	4.15
Intensifier cycle rate (cycle/minute)	31
Accumulator (litres)	1.2

Electric System	
Main motor (hp)	60 (45kW)
Motor speed (rpm)	1 500 (at 50 Hz)
Voltage	400 VAC, 3 phase/50Hz
Controls (VDC)	24

	K60c
Orifice capacity at 3 800 bars	
0.12 mm	9
0.17 mm	5
0.25 mm	2
0.28 mm	2
0.35 mm	1
0.38 mm	1

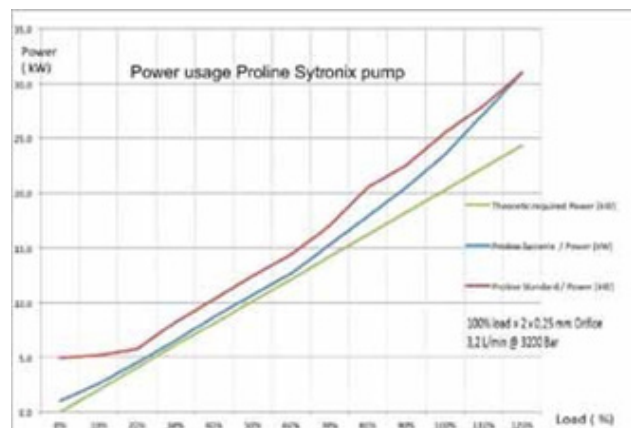
Dimensions	
Height (m)	1.332
Width (m)	1.111
Length (m)	2.040
Weight (kg)	1 190

Full control with PPC

Pump Parallel Control, PPC, is our own control system adapted to control multiple Proline pumps in parallel. The system allows customized pump activity to suit requirement, reducing costs, energy use and wear on parts. This means that costs are further reduced.

Benefits of PPC:

- Cuts the cost of spare parts
- Allows remote monitoring with PPC Remote Panel
- Lower noise level
- Predictive service control



Working with Shape Process Automation

Using solutions from Shape Process Automation guarantees the best overall results.

With our e-commerce solutions and high product availability, Shape Process Automation provide the parts you need within 24 hours from order. Working with us provides a professional and uncomplicated customer supplier relationship ensuring our customers become long-term business partners.

By listening to your needs, we always strive towards exceeding the expectations of you, our customers.

Together we develop our business!



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