

TECHNICAL DATA SHEET

QH FLUIDCAST™ MONO MOBILE DIE LUBRICANT PROPORTIONER

The QH FLUIDCAST™ MONO is an advanced mobile die lubricant/water mixing system, with PLC control of dilution and lubricant delivery, incorporating an HMI interface. The system can be connected to up to 4 die casting systems at any one time.

The system is capable of delivering lubricant mixture up to a peak flow rate of 30 litres (7.9 gallons) per minute at 7.5 bar, or a continuous delivery volume of 16 litres (4.2 gallons) per minute. The unit has a 50 litre discharge pressure tank, and a mixing tank holding 30 litres of premixed lubricant.

A PLC controlled predetermined ratio of die lubricant is homogenously mixed via inline technology. The system batch mixes water and neat lubricant components and ensures accurate and repeatable dilution through continual measurement of real time turbidity of the final mix.

The system is designed to accurately measure and control die lubrication application volume to the die face with an accuracy of 0.01%.

The system is PLC driven with HMI for quick and easy access to all settings and parameters. Multiple data points are logged (flow, pressure, dilution) for every shot made and is accessible through the HMI, or can be uploaded or made available through networking systems.

Benefits

- Accurate and repeatable lubricant concentration and delivery
- Logs key system parameters (e.g. flow, pressure) for every shot
- Peak flow rate of 30 litres per minute, with continuous delivery volume of 16 litres per minute
- Up to 4 die casting lines can be supplied at any one time
- User friendly 8" colour touch screen interface
- Designed for ease of maintenance – reducing process downtime

Properties

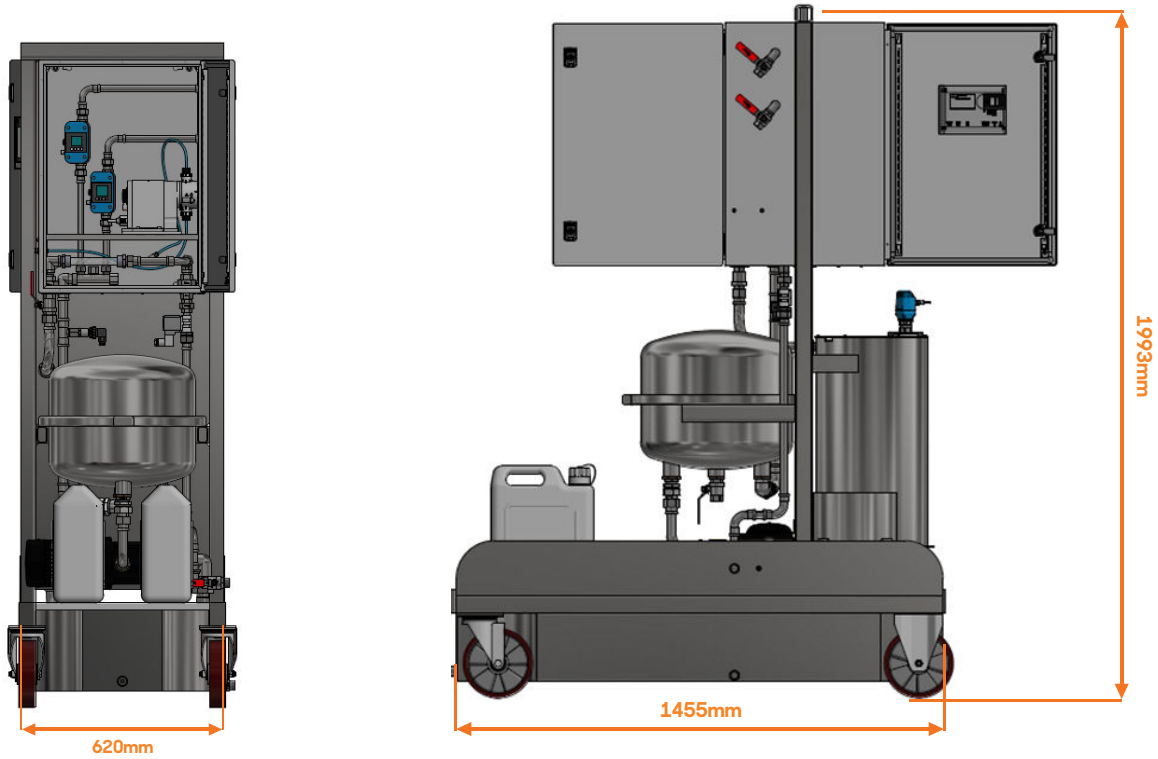
PROPERTY	VALUE
Max delivered flow rate	30 L/min (7.9 gallons) at 7.5 bar (105 psi)
Continuous flow rate	16 L/min (4.2 gallons)
Number of machines supplied	up to 4
HMI interface	Yes
Lubricant suitability	Water based
Dilution ratio range	1:20 to 1:300
Dilution control	Yes, constant monitoring
Delivered flow rate measurement	0.01% accuracy
Delivery line pressure	Yes
Data capture and display	Yes
Interlocked and alarmed	Yes

FLUIDCAST™ MONO is suitable for use with the DIE SLICK® 17, 45, AD, AF, SX and AH series of high performance die lubricants.



QH FLUIDCAST™ MONO

MOBILE DIE LUBRICANT PROPORTIONER



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