

# TECHNICAL DATA SHEET

## QH FLUIDCAST™ DUAL MOBILE DIE LUBRICANT PROPORTIONER

The QH FLUIDCAST™ DUAL is an advanced mobile die lubricant delivery system with two dedicated outputs for conventional water based and MQL lubricants. The system has the flexibility to apply both product types at the same time to different die casting cells.

For conventional lubricants, 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.

The system batch mixes water and neat lubricant components and ensures accurate and repeatable mix composition through continual measurement of added component quantity and 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%.

For MQL die lubricants, the FLUIDCAST™ DUAL can deliver up to 1.7 litres of water based or water free lubricant per minute, with an accuracy of 0.02%.

The system can also be operated in a unique hybrid mode to:

- Deliver high activity release agents to specific locations on the die face when the system is running with conventional lubricants
- Deliver cooling water to hot spots on the die face when the system is running with MQL lubricants

The system is PLC driven with HMI for quick and easy access to all settings and parameters. Data is logged for every shot made and available through the HMI, or can be uploaded or made accessible through networking systems.

### Benefits

- Conventional or micro spray system compatible
- Water based or water free die lubricant mixing
- Logs key system parameters (e.g. flow, pressure) for every shot
- User friendly 7" touch screen
- Unique hybrid modes available for optimized casting performance
- Designed for ease of maintenance – reducing process downtime

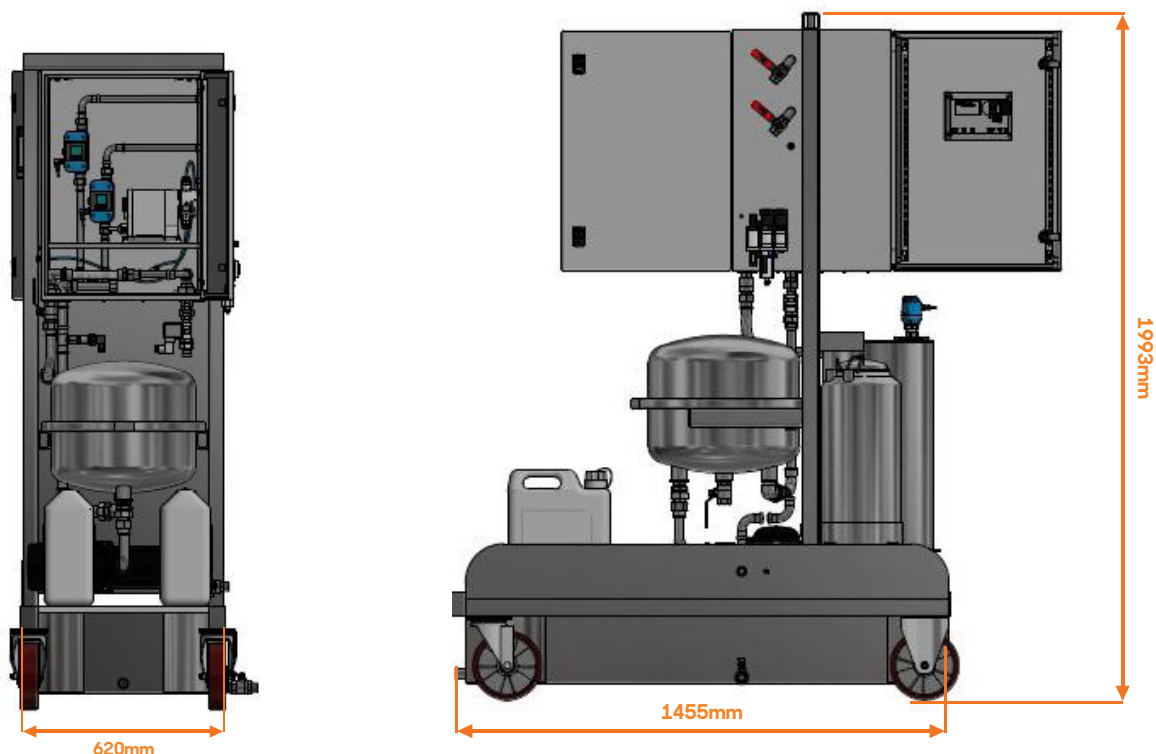
### Properties

PROPERTY	VALUE
Max delivered flow rate (diluted)	30 L/min (7.9 gallons) at 7.5 bar (105 psi)
Continuous flow rate (diluted)	16 L/min (4.2 gallons)
Max MQL flow rate	1.7 L/min (0.45 gallons)
Number of machines supplied	up to 4
HMI interface	Yes
Lubricant suitability	Water based and MQL
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
Hybrid Modes	Yes

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

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