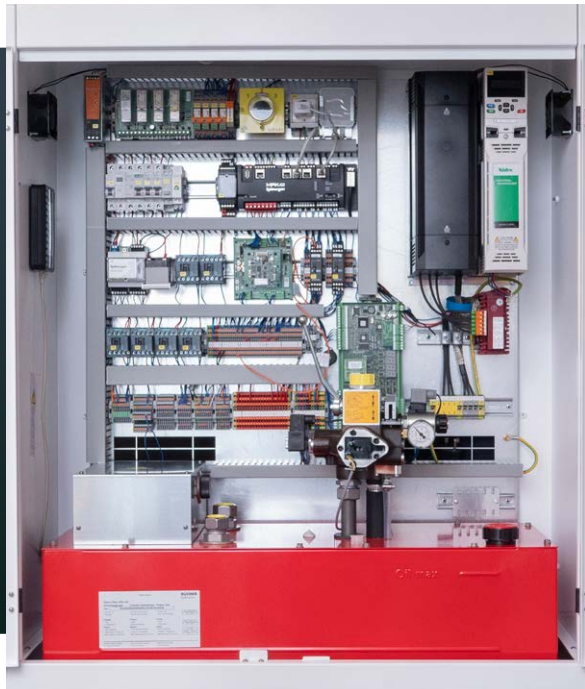


HYDRATEC SMART™

with Kollmorgen Control System



LIFT	
CERT	
ISO 9001	
ISO 14001	

ISO 45001

4558

BS EN ISO 9001:2008
BS EN ISO 14001:2004
BS OHSAS 45001:2018

Supercaps energy-efficient option now available for smart™

Hydratec have partnered with industry leading independent manufacturers to produce the Hydratec **smart™**. This exciting new range of low energy integrated hydraulic modernisation packages has been designed specifically to allow easy system configuration to suit end user requirements. The result is the exceptional Hydratec **smart**, providing lift companies with a perfect EN-81-20 hydraulic modernisation solution. Hydratec are now able to offer the Kollmorgen's advanced MPK411 series controller, providing our customers with another high quality package at a competitive price.



smart
 The standard closed loop drive system with the benefit of a soft start



ecosmart
 The VVVF drive in up direction only with current limited option



ecosmart+
 The VVVF drive for both up and down directions

Each basic system comprises of the power unit, MPK411 controller, associated shaft wiring, Car Top Control & LIMAX 2M series APS shaft encoding system. The system is designed with 'plug and play' wiring to reduce installation times by up to 50%.

Shaft positioning is taken care of by Kollmorgen's APS (LIMAX 2M) Absolute Positioning System, which is a magnetic, positively-guided system using the very latest technology.

Like the rest of the Smart system, it was chosen to be virtually maintenance free.

The system's MPK411 EN81-20 compliant lift controller is also manufactured by Kollmorgen, whilst the high quality iValve drive is from Bucher Hydraulics. Chosen for its ability to self-adjust and optimise the ride, the iValve delivers excellent performance with only minimal input from the installer.

Intelligent electronics within the iValve ensure ride quality is not compromised by heat or load, unlike most mechanical valves on the market. The iValve's intelligent learning also reduces the likelihood of user complaints due to floor levelling and ride quality problems.

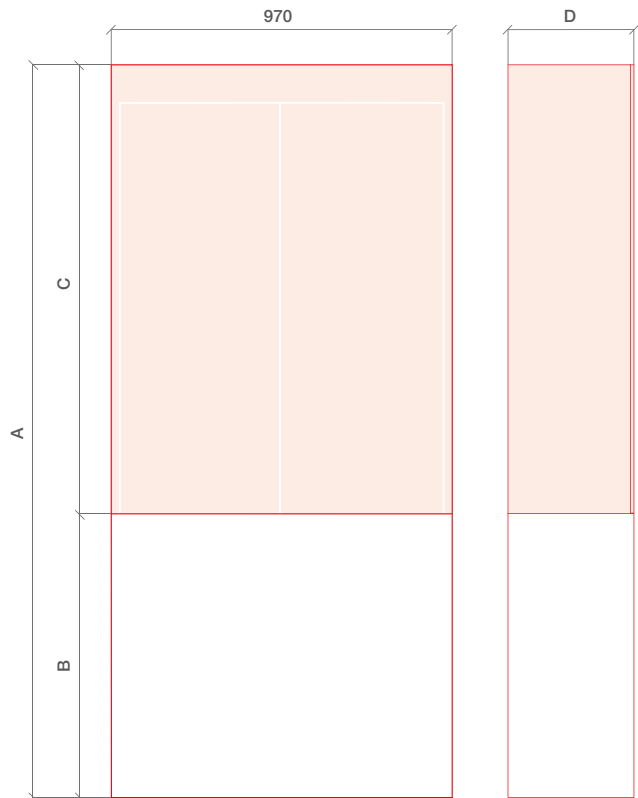
Whilst some valves require the addition of extra pressure switches that clutter up the valve with add-on fittings and adaptors, the iValve does not. Pressure sensing is included within the valve, with extra pressure switching points added via an additional parameter card. All the installer needs to do

is plug in and configure the parameter card with the Hand Terminal provided on all smart systems.

With an integrated A3 solution, the iValve has no need for additional safety valves, which induce pressure drops.

The smart range of modernisation packages uses the same MPK411 series controller, with minor changes to the interface for the different drive systems. This gives clients with multiple sites the opportunity to standardise the system across their portfolio. The same basic valve, be that for a standard or VF drive, allows lift engineers to become familiar with one single product, with the knowledge that spares and technical support are readily available here in the UK.

**smart™
System**



Tanktype	Fill volume [Litre]	Useable oil volume [Litre]	Valve	Dimensions [mm]			
				A	B	C	D
smart 150	154	88	i250	1790	700	1090	465
smart 230	228	146	i250	1790	700	1090	465

¹When using Hydratec's installation service any of the three smart systems can be installed including the decommissioning and removal of the old equipment in just five days, for a typical 2 floor lift, subject to site survey and conditions.

²Terms & Conditions apply please see our website for details.

"Hydratec", the words and roundel "smart", "eco smart" and "eco smart+" are trademarks of Hydratec Lift Services Limited.

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