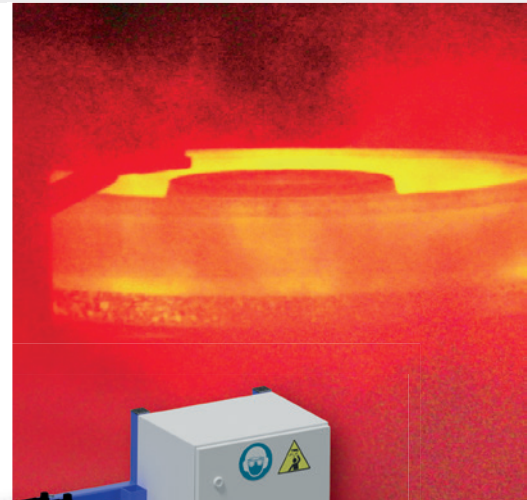
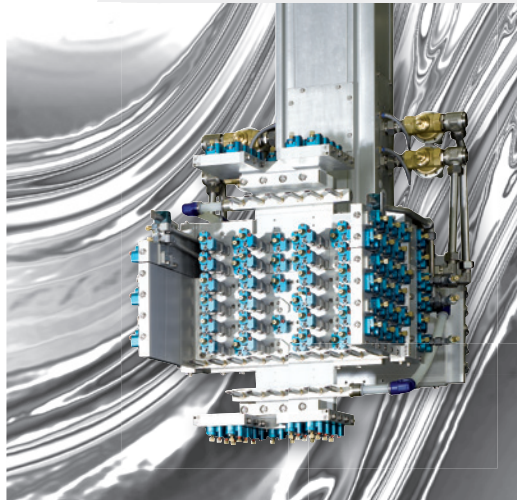


EXCELLENCE IN SPRAYING SOLUTIONS

Always at Your Service - AED



AED 181-080

Lubricant Mixing and
Supply System



www.aed-automation.com

AED AUTOMATION
Excellence in Spraying Solutions

The lubricant mixing and supply system AED 181-080 suits a wide range of high pressure die casting machines and applications.

It combines high robustness, simply handling and maintenance with the requirements for process control and Industry 4.0.



EXCELLENCE IN SPRAYING SOLUTIONS

MAIN FEATURES

- Tank made of plastics, resistant against all commonly used release agents
- Tank system pressure less
- Volume 80 litre
- Contactless level control
- Vertical, multi-speed centrifugal pump made of stainless steel, placed outside the tank
- Agitation of lubricant via bypass
- Water connection for rinsing of the system
- Easy accessibility to all components

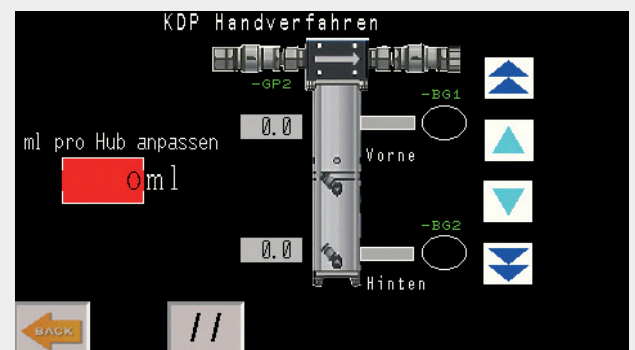
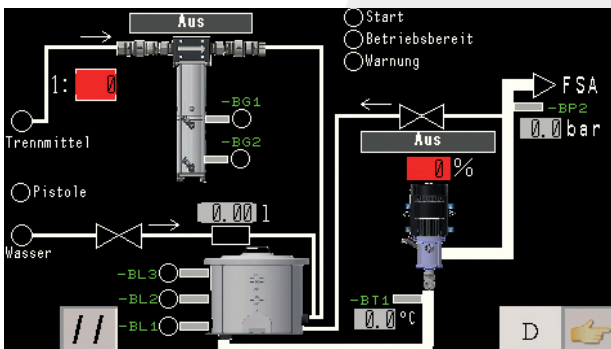
BENEFITS

- Adaptable for all die casting machine sizes
- Easy maintenance
- No heating of the lubricant
- Small tank volume to avoid bacterial contamination
- Compact design
- Process control

INDUSTRY 4.0 COMPATIBILITY

- Control Siemens S7-1200 with Pro-face HMI
- IO Link Master Profinet, IO-Link connection to sensors and actuators
- Plug & play for sensors and actuators
- Status indications / information:
 - Setting of dilution ratio (Mixing pump KDP)
 - Setting of output pressure for lubricant
 - Input pressure of water
 - System status
 - Status of sensors and actuators

INTUITIVE AND SIMPLE PROGRAMMING



TECHNICAL DATA

Design

Feature	Data	
Tank	Tank made of plastics, resistant against aggressive release agents Rounded edges minimise sedimentation	
Pressure	Pressure less mixing tank	
Supply pump	Vertical, multi-speed centrifugal pump made of stainless steel	
Pressure adjustment	Supply pressure setting option	
Level monitoring	Electronic filling level sensor	
Displays	Visual fault display	
Finish	Tank Control cabinet Mounting frame	plastic white RAL 7035 light grey RAL 5005 signal blue

Optional

Warning	Acoustic warning when tank empty
Hand spray gun	Connection for hand spray gun DAG087/DAG090, with start/stop function
Dosatron mixing pump	Proportional dosing system operated without electric power. With mechanical adjustment of dilution ratio
Elados mixing pump	Electrically driven membrane dosing pump. Mechanical adjustment of the dosing stroke, further electric adjustment options to adapt the dilution ratio
KDP mixing pump	Piston dosing pump with end position monitoring
Stainless steel version	All components in contact with lubricant made in stainless steel
Compressed air service unit	Compressed air service unit, incl. filter and oil separator
Forging version	Connection for supply and return line permits a ring line from and to the spraying device. Suitable for media which sediments quickly

Technical Data

Feature	Data
Tank volume	80 l

Technical data control unit

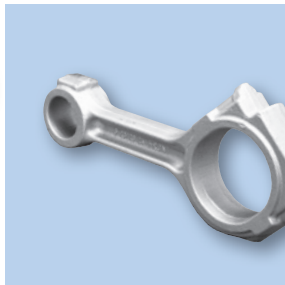
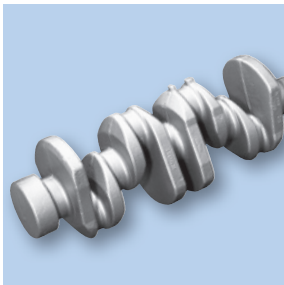
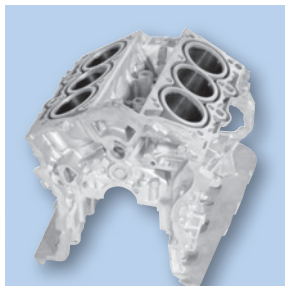
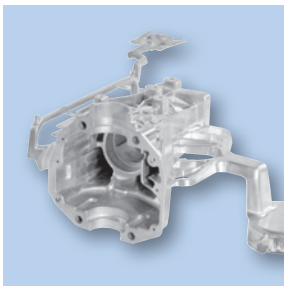
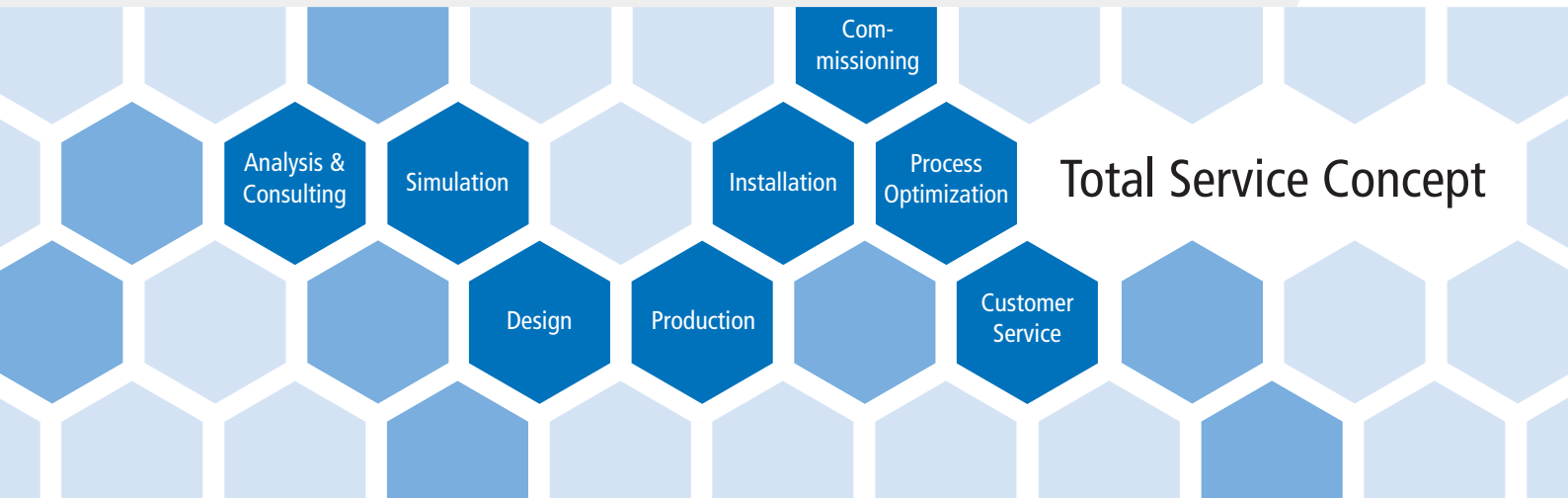
Feature	Data	
Control	S7-1200 with Pro-face HMI	Integrated in AED spray units
Interface	Potential-free interface to master control (spraying system)	Profinetconnection to spray system

Connection data

Feature	Data		
Input water	1 x DIN 2553 G 3/4" D22 NW20, 3 bar		
Input air	1 x DIN 2553 G 1/2" D15 NW 13, 6 bar, acc. to ISO 8573-1, dry & filtered 10 µm		
Outlet lubricant	1 x DIN 2553 G 1 1/2" D42 NW38		
Dilution ratio Dosatron	0,5% - 4%		
Dilution ratio Elados	0,3% - 3%		
Dilution ratio KDP	0,5% - 1,5%		
Supply pumps	CM 3-7	CM 5-7	CM 10-4
Delivery rate (max.)	4.500 l/h at 6 bar	7.500 l/h at 6 bar	15.000 l/h at 6 bar
Connected load	ca. 2,5 kVA	ca. 3 kVA	ca. 5,5 kVA
Mains voltage	3 x 380 –480 V PE +/-10 %		
Mains frequency	50-60 Hz		
Ambient temperature	+5°C to 40°C		

AUTOMATION AND INTEGRATION

AED is spraying automation - but we can do more. When it comes to line automation, AED can also supply and integrate equipment for various automation functions - complete systems from one source.



Always at Your Service - AED

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