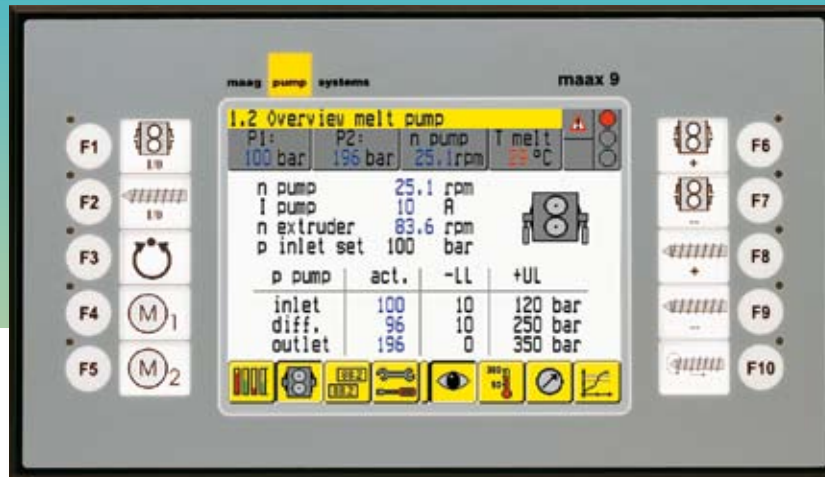


# maax 9



## Features:

- Convenient and safe operation via colour display with touch function and keys
- 10 temperature zones
- Online language changeover

## Benefits:

- Simple and clear operation of the line start and stop procedures
- Increased productivity, previously used operating parameters can be called up easily, long levelling is avoided and the line is quickly made operable during product changeover (cost saving)
- Preparation of various log types used either for current recording or map process and production data in real time (as per ISO-Norm 9000)

## Trouble-free retrofitting

Integrating new components into an existing extrusion or compounding line calls for modifications to the control technology. The coordination of these components poses a huge challenge. The **maax 9** automation system is the ideal solution for integrating melt pumps and screen changers. It simplifies operation, control and adjustment of the operating parameters. Integrated statistical functions and process data storage enable a transparent quality management system. Plant flexibility is also enhanced by the effect of additional features, e.g. on pump inlet pressure over the setpoint value (pump inlet pressure control).

## Method of operation:

- Quick error detection via plain text messages
- Automatic run-up to initial start speed
- Pressure controlled operation from start
- Integrated filter monitoring
- Monitoring and data logging of all required process values (data recording)
- Integrated temperature control of plant components
- Quick and precise control of pump admission pressure

**Technical specifications:**

<b>Analogue inputs 0–10 V:</b>	8
<b>Analogue outputs 0–10 V for drive actuation:</b>	2
<b>Melt pressure measurements:</b>	3
<b>Melt temperature measurement:</b>	1
<b>Types of temperature sensor:</b>	K, J, L, U / 0 V to 10 V
<b>Configurable control circuits:</b>	1 (Pump inlet pressure)
<b>Interfaces:</b>	Ethernet, USB, LPT
<b>Monitor:</b>	¼ VGA, 320 x 240 pixel, touch and 32 colours
<b>Auxiliary power:</b>	24 VDC, –15% to +20%, approx. 3 A
<b>Operating/storage temperature:</b>	0 to +50°C / –20 to +60°C
<b>Formula storage:</b>	internal Flash memory, memory stick
<b>Logs:</b>	alarm, pressure, process data log

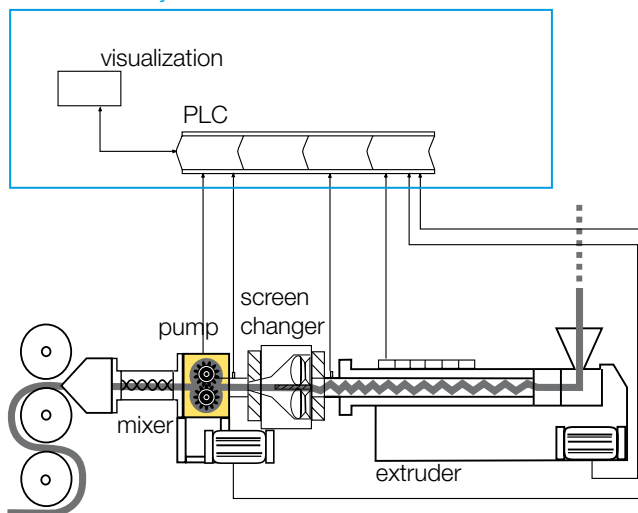
**maax 9 offers you a full service:**

- All electrical equipment incl. the automation system supplied
- Supply and construction of all required mechanical assemblies and parts including connectors, flanges, bases, etc.
- Supply and integration of melt filtration systems
- Installation of electrical and mechanical assemblies
- Process technology optimisation and guidance
- Commissioning incl. operator training
- “Round-the-clock” service with short response times

**maax 9 as a component of expac®**

As a system supplier, Maag Pump System offers complete assemblies for your extrusion plant comprising **extrex®** gear pump, screen changer, **maax 9** and drive unit. As a sum total of the individual parts, the **expac®** system enhances the productivity of your process. The experience garnered by Maag Pump Systems allows all components to be wisely networked, hence achieving an optimised solution and significantly increasing operational reliability. Integrated statistical functions and process data storage enable a transparent quality management system. Plant flexibility is also enhanced by the effect of additional tolerances, e.g. on pump admission pressure over the setpoint value (pump admission pressure control).

**automation system**



**Switzerland**

Maag Pump Systems AG  
 Aspstrasse 12  
 8154 Oberglatt  
 Schweiz  
 Phone +41 44 278 82 00  
 Fax +41 44 278 82 01  
 welcome@maag.com  
 www.maag.com

**Singapore**

Maag Pump Systems Pte Ltd.  
 25 International Business Park  
 04-73 German Center  
 Singapore 609916  
 Phone +65 6562 8720  
 Fax +65 6562 8729  
 MaagSingapore@maag.com  
 www.maag.com

**USA**

Maag Pump Systems Inc.  
 1500 Continental Boulevard  
 Charlotte, NC 28273  
 USA  
 Phone +1 704 716 9000  
 Fax +1 704 716 9001  
 MaagAmericas@maag.com  
 www.maag.com

**France**

Maag Pump Systems SAS  
 111, Rue du 1er Mars 1943  
 69100 Villeurbanne  
 France  
 Phone +33 4 72 68 67 30  
 Fax +33 4 72 68 67 31  
 MaagFrance@maag.com  
 www.maag.com

**Germany**

Maag Pump Systems GmbH  
 August-Kümpers-Strasse 9  
 48493 Wettringen  
 Deutschland  
 Phone +49 2557 92 80 0  
 Fax +49 2557 92 80 20  
 MaagGermany@maag.com  
 www.maag.com

**China**

Maag Pump Systems Shanghai  
 Room 1204A, Silver Tower  
 218 South Xi Zang Road  
 200021 Shanghai, China  
 Phone +86 21 6334 3666  
 Fax +86 21 6334 3336  
 MaagChina@maag.com  
 www.maag.com

**Italy**

Maag Pump Systems S.r.l.  
 Viale Romagna 7  
 20089 Rozzano (MI)  
 Italia  
 Phone +39 02 575 932 1  
 Fax +39 02 575 932 32  
 MaagItaly@maag.com  
 www.maag.com

[www.maag.com](http://www.maag.com)