

## MultiPro 3G – the control system for tightening and press-in processes

The combination of intuitive user-friendliness and a modular, scalable hardware and software concept created a basis that meets the current and future requirements in assembly 4.0. Flexible in application, because the installed firmware defines the use of the MultiPro 3G as a tightening or press-in system. Furthermore, the MultiPro 3G technology with the innovative scalable functional area enables the individual configuration of the scope of services. With a variety of configuration options, the MultiPro 3G offers a flexible solution for your assembly process, as well as for simple and complex tasks. DSM implements special modifications in a customer oriented and professional manner – a new generated function can be easily integrated into the control system.

Use the MultiPro 3G result selection to evaluate the relevant result for your process.

Space-saving control system with integrated servo controller.

Freely configurable output and input area with the Dynamic Fieldbus from DSM.



**12**  
Status  
LED

**5,7"**  
Touch  
colour  
display

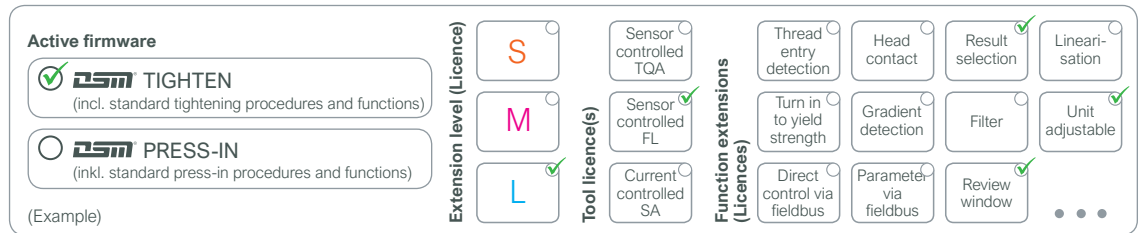
One operating  
and process  
concept in the  
assembly.

**2 GB**  
internal  
memory

**2 GB**  
external  
memory  
(SLC)

The process defines the performance. With four slots the MultiPro 3G offers many possibilities for the installation of different optional modules. Measuring module for additional sensoric, TCP module, Fieldbus modules or the IPC module for the use of OPC UA.

## Firmware



Scalable firmware architecture with licensing model

## Procedures and functions (Standard)

Turn in to torque / Turn in to angle of rotation /  
Turn in to initiator / Turn out to torque /  
Turn out to angle of rotation / Dynamic fieldbus /  
Speed reduction (rpm) / ...

Move to starting position / Move empty / Move to length /  
Move to force / Move to initiator / Force course in  
OK window / Dynamic fieldbus / Envelope monitoring /  
Review length / ...

## Function extensions (Licences)

Turn in to yield strength / Turn in to head contact /  
Turn in to external sensor / Thread entry detection /  
Envelope monitoring / Result selection / Filter /  
Hold mode / Gradient detection / Linearisation / ...

Move to gradient / Move to external sensor /  
Result selection / Filter / Hold mode / Gradient detection /  
Linearisation / Unit adjustable / Review window / ...

## Programming

**255 Programmes:** 1 - 128 = Startable programs, 129 - 255 = Subprograms (for recurring process sequences)  
PG 1 - 16 (Extension level S), PG 1 - 64 (Extension level M), PG 1 - 128 (Extension level L)

Max. **200 lines** (instructions) per program / **max. 3000** program lines total

More than **40 instructions** are available for sequence programming

A selected process forms a tightening stage / press-in stage. Up to **99 steps per program** can be used to create the assembly process. Measured values memory, graphics memory, error memory, statistics memory for each step.

## Display and keyboard

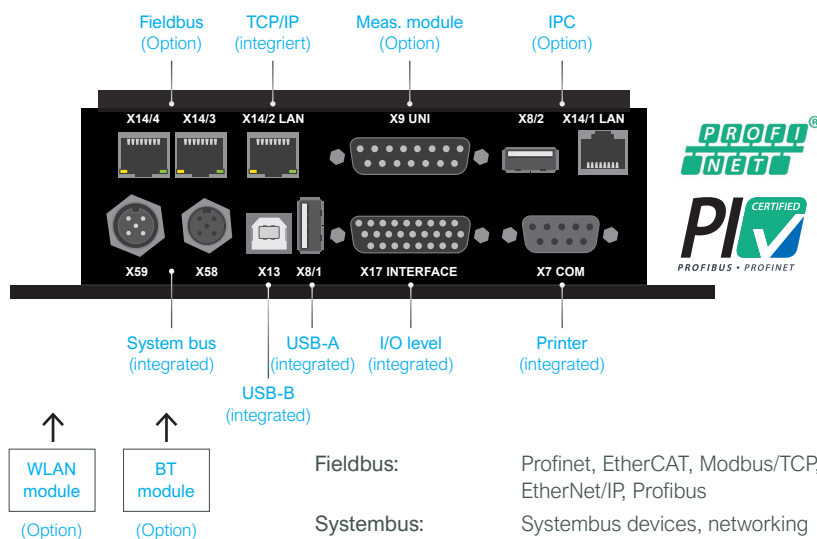
**5,7" Touch colour display** (14,48 cm diagonal), resolution 320 x 240 Pixel, TFT 262k colours, touchscreen: measuring value display, static display, graphics display with full screen mode and zoom function, user interface with intuitive operable icons

**Status LED:** Ready, OK, NOK, Memory A / C, Connection, Network, Fieldbus, Start, CCW / CW rotation, Error

**Function keys:** F1 - F6 for configuration and programming, as alternative for touch operation

**Keyboard:** 15 keys (alphanumeric), 8 navigation keys

## Connections and hardware extensions



## Dimensions and weight

