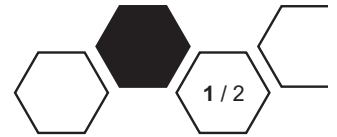


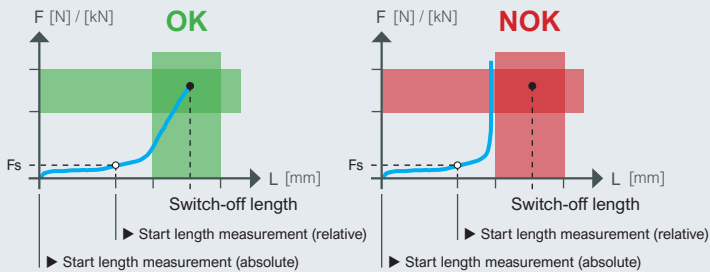
# MultiPro 3G

## Press-in processes and functions



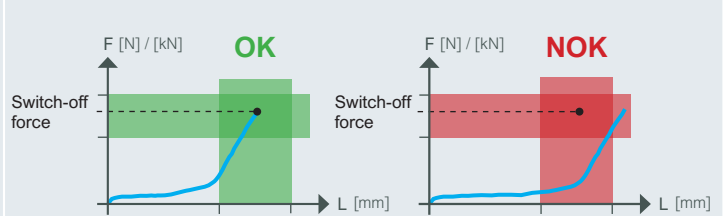
### Move to length

Press-in until switch-off length is reached. Control of force.



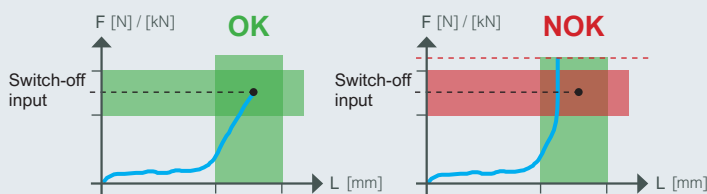
### Move to force

Press-in until switch-off force is reached. Control of length.



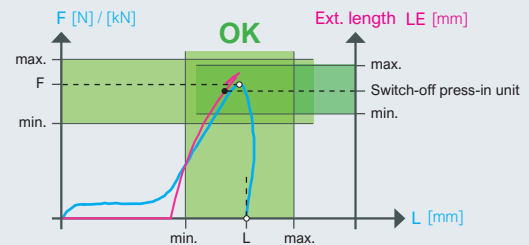
### Move to initiator

Press-in until a signal is active at the defined switch-off input. Control of force and length.



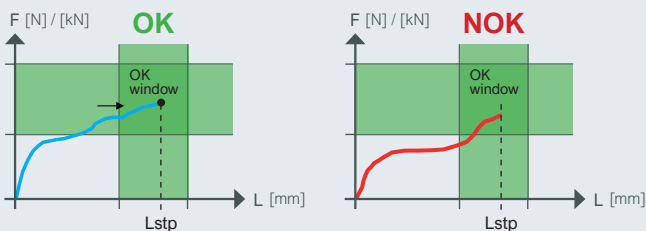
### Move to external length

Press-in until a defined external target position is reached with monitoring of force and length.



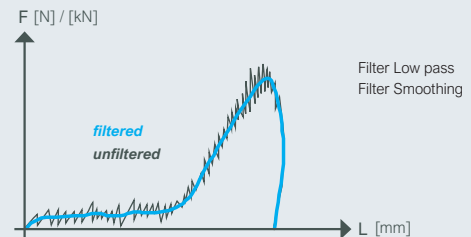
### Force progression in OK window

Monitors the entry of the force/length into the OK window. Entry must be from the left and remain within the OK window in the further procedure.



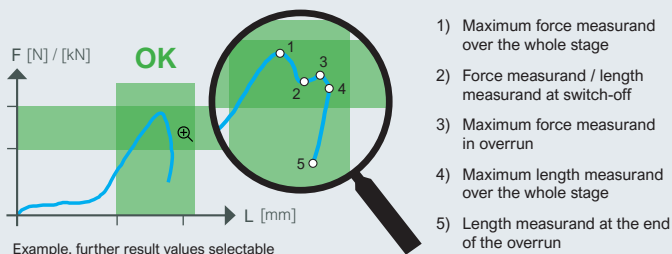
### Filter

With the DSM filter functions it is possible to blend out unwanted interferences of the process sequence.



### Result selection force / length / ext. length

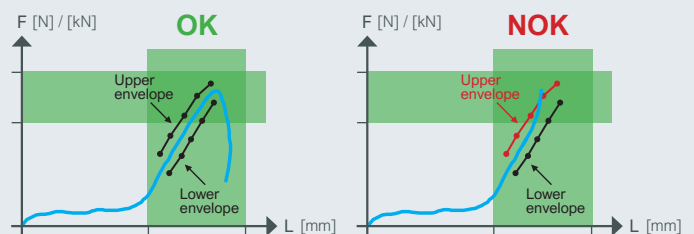
With the result selection you specify the result values for the evaluation of the process. This will evaluate the result relevant to your process.



Example, further result values selectable

### Envelope monitoring

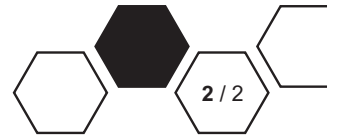
Additional evaluation element for control of the press-in process. The measuring curve may not break the upper and/or lower envelope.



The press-in process is defined with one or more procedures within a program sequence. Additional functions to optimise the assembly operation are easy to integrate.

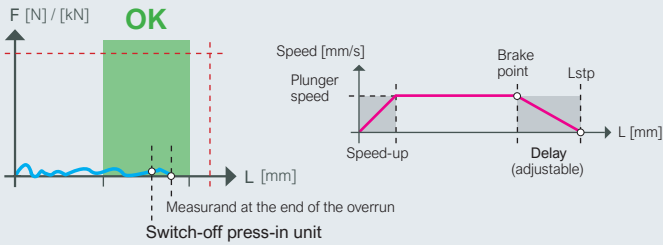
# MultiPro 3G

## Press-in processes and functions



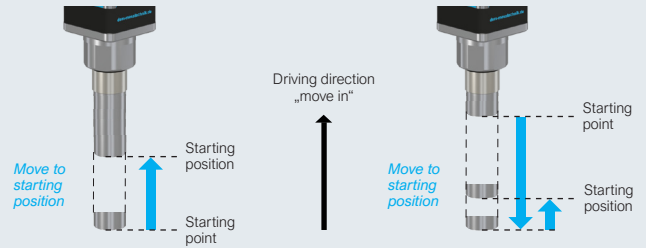
### Move empty

The plunger of the press-in unit is moved without a defined force until it reaches a defined target position (switch-off length).



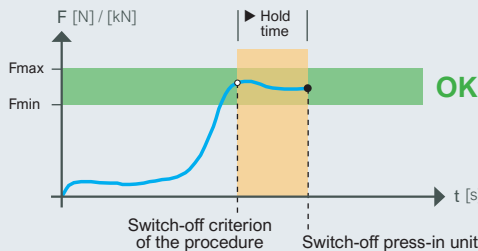
### Move to starting position

Moves the plunger of the press-in unit to the user defined starting position – to avoid long strokes.



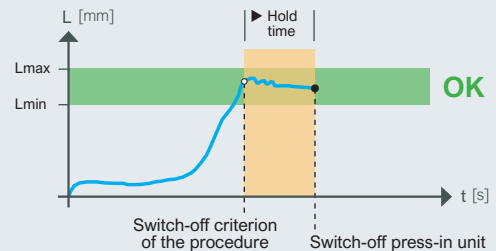
### Hold mode Force

After reaching the switch-off criterion, the force measured at this time is held for a defined period of time.



### Hold mode Position

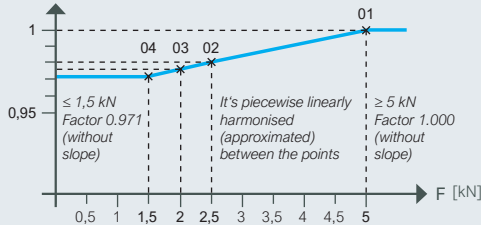
After reaching the switch-off criterion, the position (length) measured at this time is held for a defined period of time.



### Linearisation force

Non-linearities of the characteristic curve between reference value and displayed value are piecewise linearly approximated with the force linearisation.

Calculated factor (FacF)



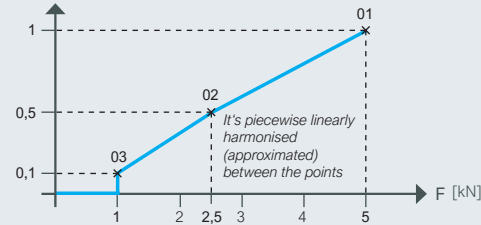
Pos	F [kN]	Factor
01	5.00	1.000
02	2.50	0.980
03	2.00	0.975
04	1.50	0.971
05	-	-

Chart stored in the control system (example values)

### Linearisation length

The physically caused elastic fractions (bending up, setting, etc.) in the assembly process can be compensated with the length linearisation.

Length offset [mm]

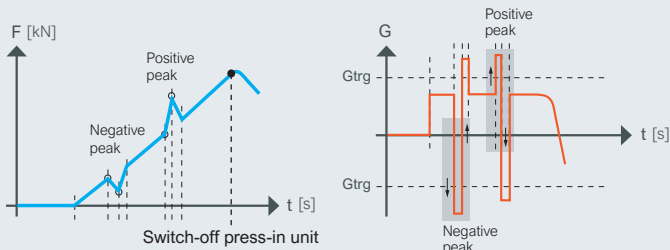


Pos	F [kN]	Loff [mm]
01	5.00	1.00
02	2.50	0.50
03	1.00	0.10
04	-	-
05	-	-

Chart stored in the control system (example values)

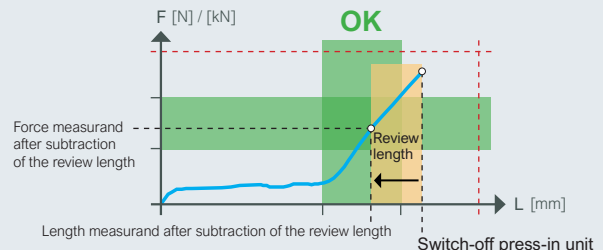
### Gradient detection

Function for detection of a defined gradient – detects positive as well as negative peaks and their quantity.



### Review length

The evaluation of the procedure is done at the position resulting after subtracting the defined review stroke.



The press-in process is defined with one or more procedures within a program sequence. Additional functions to optimise the assembly operation are easy to integrate.