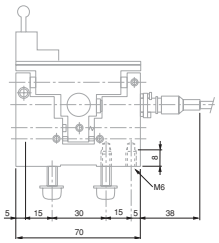
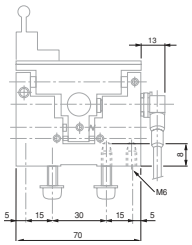


FMS 100-P



FMS 102-P

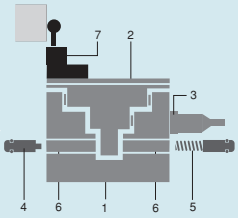
Configuration and Application of TESA FMS Probes

Shown below are the different possibilities for the activation and retraction of the probe insert during measurement cycles.

APPLICATION EXAMPLE A

- Activation of the probe insert in the direction of the part to be inspected using the measuring force produced by the spring set.
- Without retraction of the insert.

Result A
During the placing of a new part to be measured, the measuring insert remains in its contact position thanks to the measuring force produced by the spring set.

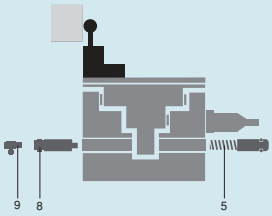


1 Static probe body
2 Mobile probe body
3 Measuring element with fine adjust
4 Adjustable stop
5 Spring set for producing measuring force
6 M6 mounting thread
7 Holder

APPLICATION EXAMPLE B

- Activation of the probe insert in the direction of the part to be measured using the measuring force of the spring set.
- Retraction of the insert by pneumatic pressure through a pneumatic connection.

Result B
During the placing of a new part to be measured, the measuring insert is retracted through activation of pressure via the pneumatic actuator.



5 Spring set for producing measuring force
8 Pneumatique actuator (Part No. 03260440)
9 Connector (Part No. 024388))

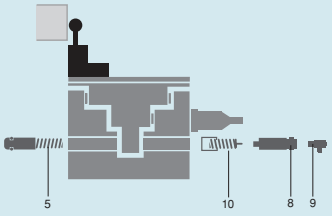
APPLICATION EXAMPLE C

- Activation of the probe insert in the direction of the part to be inspected by pneumatic pressure and the measuring force of the spring set.
- Retraction of the insert by disabling the pneumatic pressure.

ATTENTION !
The force of the spring set (5) must be equal to that of the auxiliary spring element (10).

Result C
During the placing of a new part to be measured, the measuring insert is automatically retracted due to the disabling of the pneumatic pressure. which guarantees about security during the measuring cycle.

This configuration is typically preferred when there is lack of space for connecting a pneumatic actuator (left side of example B).



5 Spring set for producing measuring force
8 Pneumatic actuator (Part No. 03260440)
9 Connector (Part No. 024388)
10 Auxiliary spring element (Part No. 03260445)