

Self-opener pneumatically or electrically operated Sustainably increased productivity in the testing area

Self-openers are used to automatically open test fixtures independently.

The self-opener is mounted in the test fixture and is pneumatically or electrically operated. A hydraulic brake cylinder serves to reduce the opening speed, especially useful for fixtures customised with high contact forces. The open test fixture must be closed manually.

Self-openers are offered as a functional unit for manual test fixture series MA xxxx. In order to control the self-opener, a MA control box, developed by INGUN, is recommended. The test results can be signalled with a pass/fail LED display, which visibly lights up in the inner chamber of the test fixture. Self-openers are available for single-sided single-stage contacting from the bottom side.

- Automatic, independent opening of manual test fixtures
- Sustainable increase of testing area efficiency due to reduction of non-productive time, especially when installed in assembly or testing cells
- Functional unit for the manual test fixture series MA xxxx
- Manual operation of the manual test fixtures also possible in case of self-opener failure
- Optionally MA control box to control the self-opener
- Optionally pass/fail LED display to signal the test results and light up the inner chamber
- Available for single-sided single-stage contacting from the bottom side

Technical information:

- Contact force single-stage contacting:	up to 2.000 N
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Pneumatically operated self-opener:

- Operating mode:	double-acting ISO actuator
- Max. stroke:	50 mm
- Operating pressure:	0.6 MPa
- Pneumatic connection:	G1/8

Electrically operated self-opener:

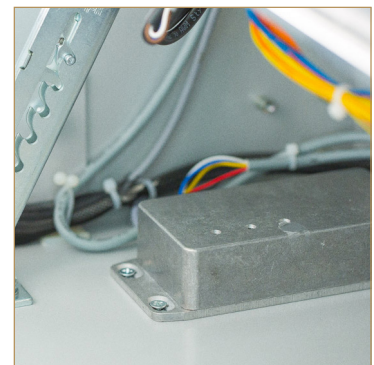
- Operating mode:	double-acting electrical actuator
- Max. stroke:	50 mm
- Operating voltage:	24 VDC
- Electrical connection:	wire



Electrically operated self-opener



Brake cylinder of the electrically operated self-opener



Self-opener control box of the electrically operated self-opener

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Ordering information:

Pneumatically-operated self-opener:

Single-stage contacting

- MA 2109: Part no.: **42701**
 - MA xx11/xx12/xx13/xx13T/xx14: Part no.: **42700**
- Items delivered: self-opener, brake cylinder
 (MA 2109 without brake cylinder)

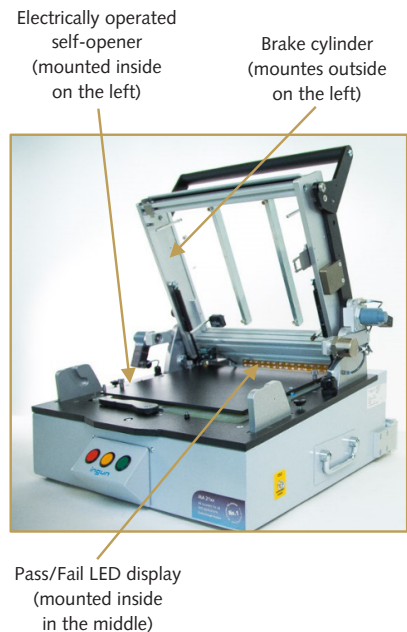
Electrically-operated self-opener:

Single-stage contacting

- MA xx11/xx12/xx13/xx13T/xx14: Part no.: **45220**
- Items delivered: self-opener, brake cylinder, self-opener control box, hinged handles

Recommended accessories:

- MA control box: Part no.: **42703**
- Pass/fail LED display (green/red) suitable for:
 - MA xx09/11: Part no.: **45770**
 - MA xx12: Part no.: **45996**
 - MA xx13: Part no.: **45999**
 - MA xx14: Part no.: **46000**
- Valve assembly (5/2, 24 VDC): Part no.: **42702**



MA 2112/D/H/S-7/Pylon
 (with electrically operated self-opener, brake cylinder, pass/fail LED display and further additional components)

Mounting:

Self-openers for single-stage contacting can be installed by the customer or by INGUN.

Note for usage:

Self-openers are not compatible with all additional components available from INGUN. Please refer to our **compatibility matrix** in the technical handbook: Manual Test Fixtures MA xxxx with ATS Mxxx.

Please contact us for further information.
 Prices and delivery time on request.
 Technical changes possible without prior notification.

Further innovative products can be found on our home-page and in our catalogue. Don't miss our manual test fixture series MA xxxx.

