

**Mechanical quick mould clamping systems
QMC 105 and QMC 106**

Plastics industry





Flexible processes and optimum production times in the plastics industry

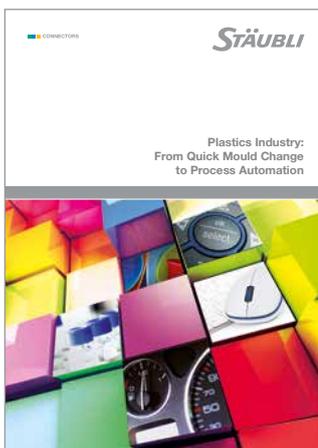
Stäubli has been your partner for system solutions in the plastics industry for more than 50 years. We manufacture fluid and energy connectors, ensure that tools can be changed quickly and develop tailor-made solutions to automate processes. Stäubli high-performance robots also ensure the highest productivity when handling parts and reworking.

Extensive research and development establishes the basis for the efficiency, capability and process reliability of our products. Our innovative solutions to minimise setup times and to

automate production are recognised worldwide, and with support centres on every continent, we can provide you with expertise at your location.

Stäubli quick tool change systems make your production process more flexible and ensure optimum production times. Our systems can also optimise productivity on existing equipment.

See our capabilities for yourself and use our know-how for your specific applications.



Visit our website
www.quick-mould-change.com
and request our overview brochure
detailing our solutions for the
plastics industry.



Tool clamping – a matter of seconds

Tool change times are a significant cost factor. Stäubli quick mould clamping systems enable you to improve productivity, increase flexibility and minimise response times.

Stäubli provides you with the complete range of systems, from mechanical quick mould clamping systems to fully-automatic hydraulic or magnetic rapid clamping systems. You will receive the optimum solution for your requirements, always with the world-renowned quality and security of Stäubli.

Stäubli mechanical rapid clamping systems

Stäubli mechanical rapid clamping systems establish a secure interface between the machine and the tool within seconds.

Simple clamping process

The rapid clamping systems are operated from one side of the machine. A detachable handle on the hand lever is all that is required to clamp the tool safely on the machine.

Safe tool locking device

Thanks to an integrated safety lock, the bayonet lock of the rapid clamping system prevents the tool from becoming loose accidentally.

Highly versatile

For horizontal or vertical machines: Stäubli mechanical rapid clamping systems can be used with a tool weight of up to 2 tonnes, a machine size of 200 tonnes and an operating temperature of 200 °C in virtually any machine environment.

For new and existing machines

Stäubli mechanical rapid clamping systems do not require access to the machine control, or any hydraulic or electrical connections. Therefore, retrofitting an existing system is extremely simple and low-cost. Modification of the tools is restricted to just the centring clamping ring.



QMC 105 Mechanical bayonet clamping system

Functional principle

When closing the injection moulding machine, the centring clamping rings that are mounted on the tool are inserted into the machine face plates centering the tool. Manually actuating the clamping lever clamps the tool securely to the machine.

Application area

This can be used on horizontal and vertical machines with a clamping force of up to 100 tonnes and tools weighing up to 1500 kg.

Secure fastening

During the clamping process, the clamping force that is generated manually is restricted automatically. The hand lever is released after the clamping process. An integrated safety lock prevents the tool from becoming loose accidentally.

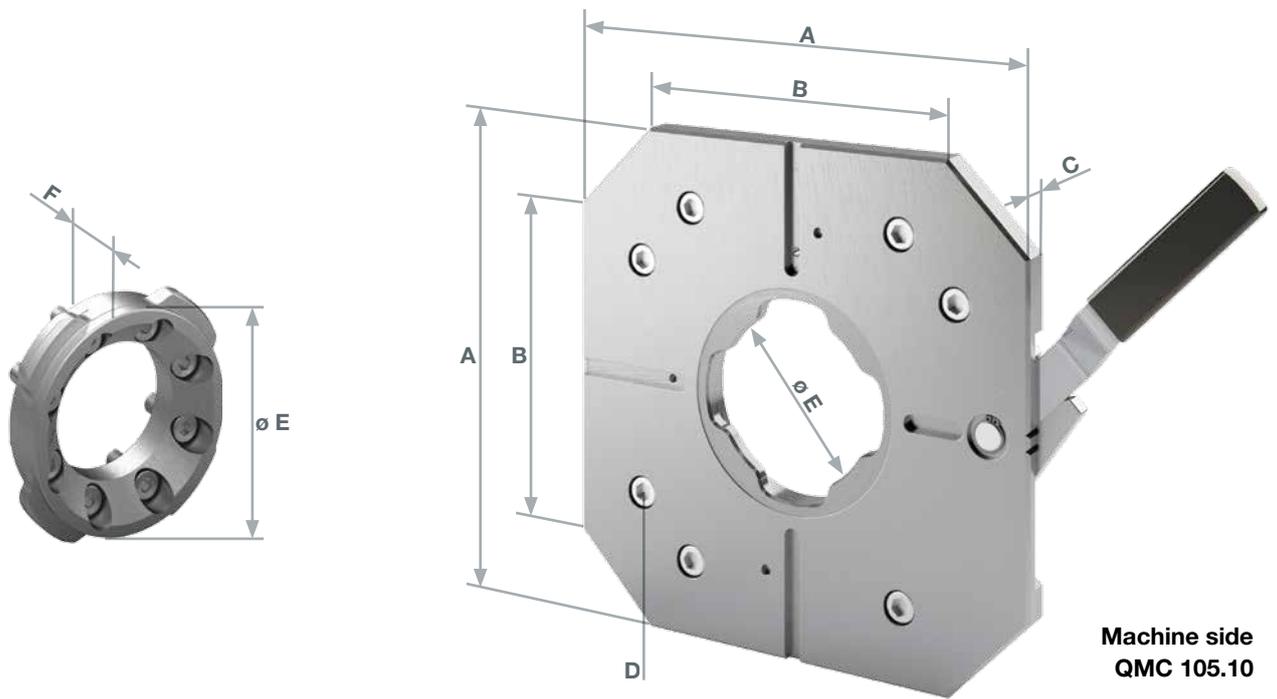
Superior construction

To ensure maximum utilisation of the mould installation height, the QMC 105 clamping system has a thin plate thickness despite the high containment force. The large through hole on the centring clamping ring ensures that central ejection and heated injectors can still be used.

Simple assembly

The QMC 105 bayonet clamping system can also be used easily and cost effectively on existing installations. The clamping plate of the system is screwed to the clamping plate of the machine. An optional assembly template makes installation extremely simple.

On the tool side, the centring clamping rings are simply replaced by QMC 105 centring clamping rings.



Tool side
QMC 105.60

Machine side
QMC 105.10

Technical data

QMC 105		Order numbers		Tool		Dimensions (mm)					
Model	Max. containment force (kN)	Set of tool side centring clamping rings (2 pieces) QMC 105.60	Set of machine side clamping plates (2 pieces) QMC 105.10	Min. size (mm)	Max. weight (kg)	A	B	C	D*	ø E	F
QMC 105.10.01 QMC 105.60.01	25	- K855.898.01	K855.305.01 -	100 x 100	500	200	150	15	M12	60	21
QMC 105.10.02 QMC 105.60.02	100	- K855.898.02	K855.305.05 -	165 x 165	900	300	200	17	M12	100	23
QMC 105.10.03 QMC 105.60.03	100	- K855.898.03	K855.305.06 -	175 x 175	900	320	200	17	M12	110	23
QMC 105.10.04 QMC 105.60.04	120	- K855.984.15	K855.305.27 -	185 x 185	1000	540	320	25	M12	125	33
QMC 105.10.06 QMC 105.60.06	180	- K855.984.15	K855.305.25 -	185 x 185	1500	590	350	25	M16	125	33

* The number of fastening screws varies according the size of the clamping system.
Special holes according to SPI and JIS standards are available on request. Optional assembly template available.



QMC 106 Mechanical bayonet clamping system

Principle Function

Centring clamping rings mounted on the mould tool are, on closure, inserted into locks on the machine face plate. Exact radial alignment of the tool in the machine is ensured by a centring pin.

The mould tool is clamped securely to the machine by manual operation of the lever.

Application suitability

The QMC 106 mechanical bayonet clamping system is suitable for use on horizontal and vertical machines with a clamping force of up to 200 tonnes and tools weighing up to 2000 kg.

Secure fastening

An automatic safety lock prevents the tool from being accidentally unclamped.

After clamping the hand operated lever is released and can be removed.

High flexibility

The EUROMAP/SPI/JIS drilling pattern of the QMC 106 clamping plate on the machine ensures complete flexibility in the production process: Even tools that are not fitted with a Stäubli QMC 106 centring clamping ring can be clamped in the normal way without complications.



Superior construction

The optimal plate thickness of QMC 106 ensures maximum utilisation of the mould installation even with the high containment force.

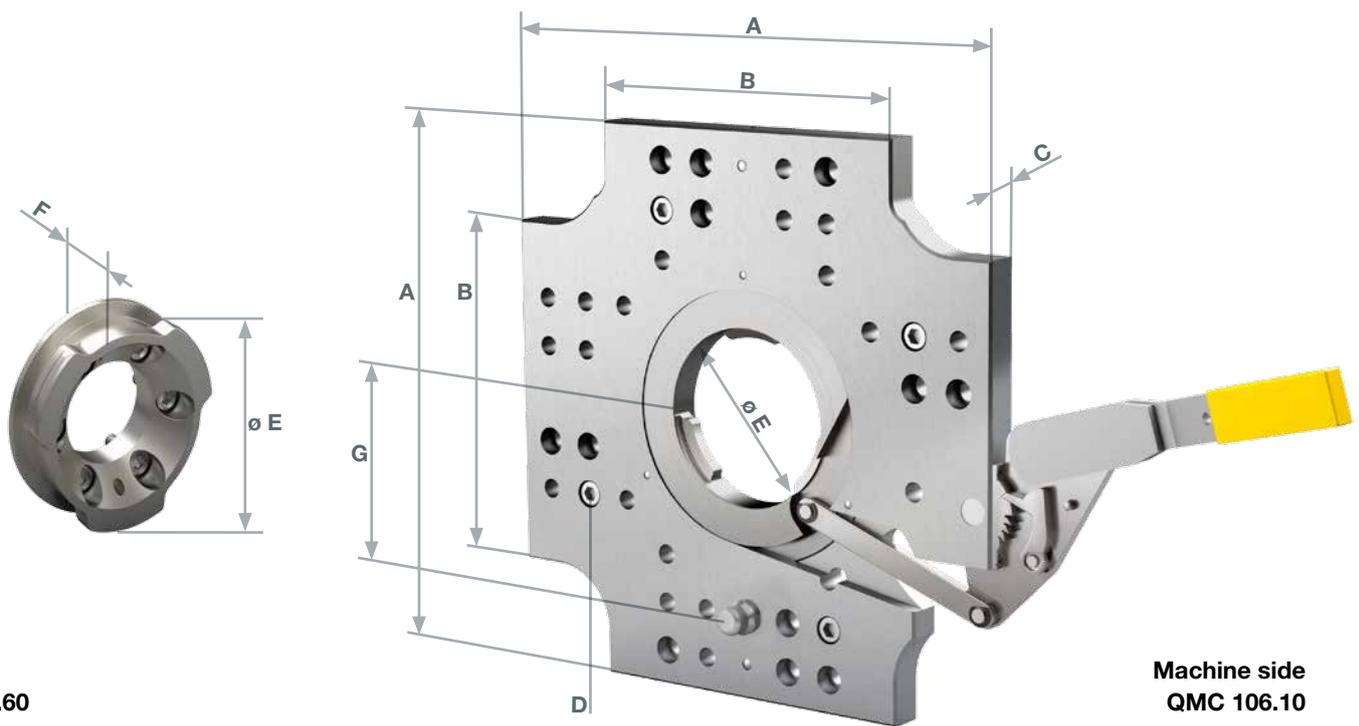
Central ejection and heated injector systems can readily be fitted through the large hole of the centring clamping ring

Simple assembly

Existing installations can easily and cost-effectively employ the QMC 106 bayonet clamping system by screwing the clamping plate of the system to the clamping plate of the machine.

A useful assembly template is available as an option which makes installation extremely simple.

The centring clamping rings on the mould tool are simply replaced by QMC 106 centring clamping rings.



Tool side
QMC 106.60

Machine side
QMC 106.10

Technical data

QMC 106		Order numbers		Tool		Dimensions (mm)						
Model	Max. containment force (kN)	Set of tool side centring clamping rings (2 pieces) QMC 106.60	Set of machine side clamping plates (2 pieces) QMC 106.10	Min. size (mm)	Max. weight (kg)	A	B	C	D*	ø E	F	G
QMC 106.10.02 QMC 106.60.02	100	- K815.451.03	K815.450.50 -	200x200	900	310	210	20	M12	100	27	105
QMC 106.10.031 QMC 106.60.03	100	- K815.451.05	K855.985.12 -	200x200	900	400	250	20	M12	110	27	105
QMC 106.10.041 QMC 106.60.04	120	- K815.451.06	K855.985.09 -	220x220	1000	420	300	25	M12	125	33	140
QMC 106.10.042 QMC 106.60.04	120	- K815.451.06	K855.985.07 -	220x220	1000	600	450	25	M12	125	33	140
QMC 106.10.051 QMC 106.60.05-06	180	- K815.451.07	K855.985.10 -	250x250	1500	600	400	32	M16	125	40	140
QMC 106.10.061 QMC 106.60.05-06	180	- K815.451.07	K855.985.06 -	250x250	1500	750	550	32	M16	125	40	140
QMC 106.10.071 QMC 106.60.07	250	- K815.451.19	K855.985.11 -	300x300	2000	620	400	40	M16	160	49.5	200
QMC 106.10.07 QMC 106.60.07	250	- K815.451.19	K815.450.55 -	300x300	2000	670	430	40	M16	160	49.5	200

* The number of fastening screws varies according to the size of the clamping system.
Special holes according to SPI and JIS standards are available on request. Optional assembly template available.

For contact details: www.staubli.com/connectors/contacts



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Stäubli Faverges - CS 30070 - F - 74210 Faverges - Tel.: +33 4 50 65 67 97 - Fax: +33 4 50 65 60 69 - e-mail: connectors.sales@staubli.com
www.staubli.com

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