

Q-line

Modular Clamping System

Measuring has become a necessity in most branches today, with more and more parts needing to be measured and reported during production.

Saving time and costs are important additional measuring criteria, together with the need for reliable and reproducible measurements.

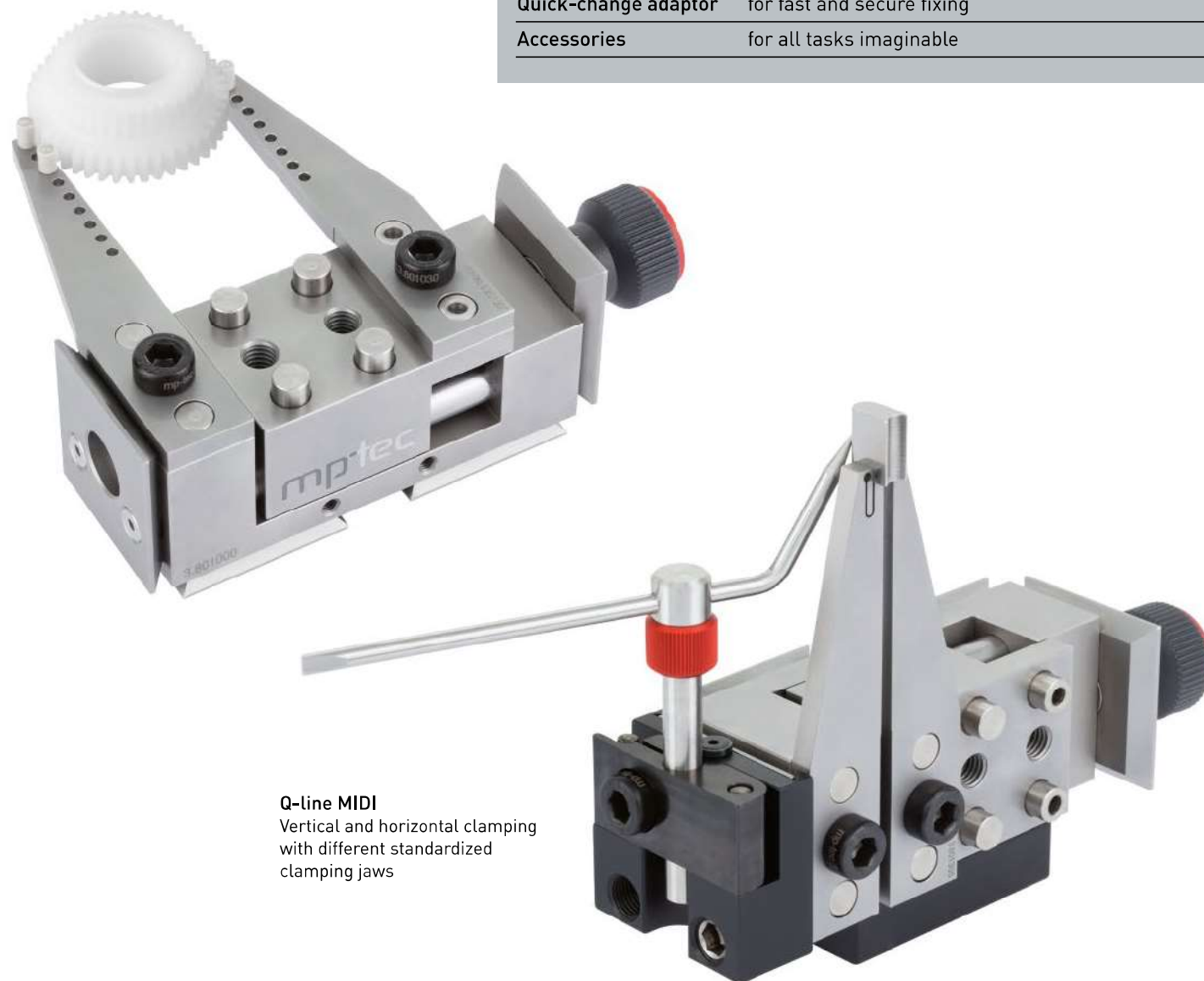
mp-tec has developed Q-line, a modular flexible clamping system to meet the frequently changing and variety of requirements when measuring today.

This is based on the two eccentric vices MINI and MIDI which can be used for single and multiple clamping. The special strength of this very practical system is the high level of flexibility resulting from both the standard and custom-made jaws and the accessories.

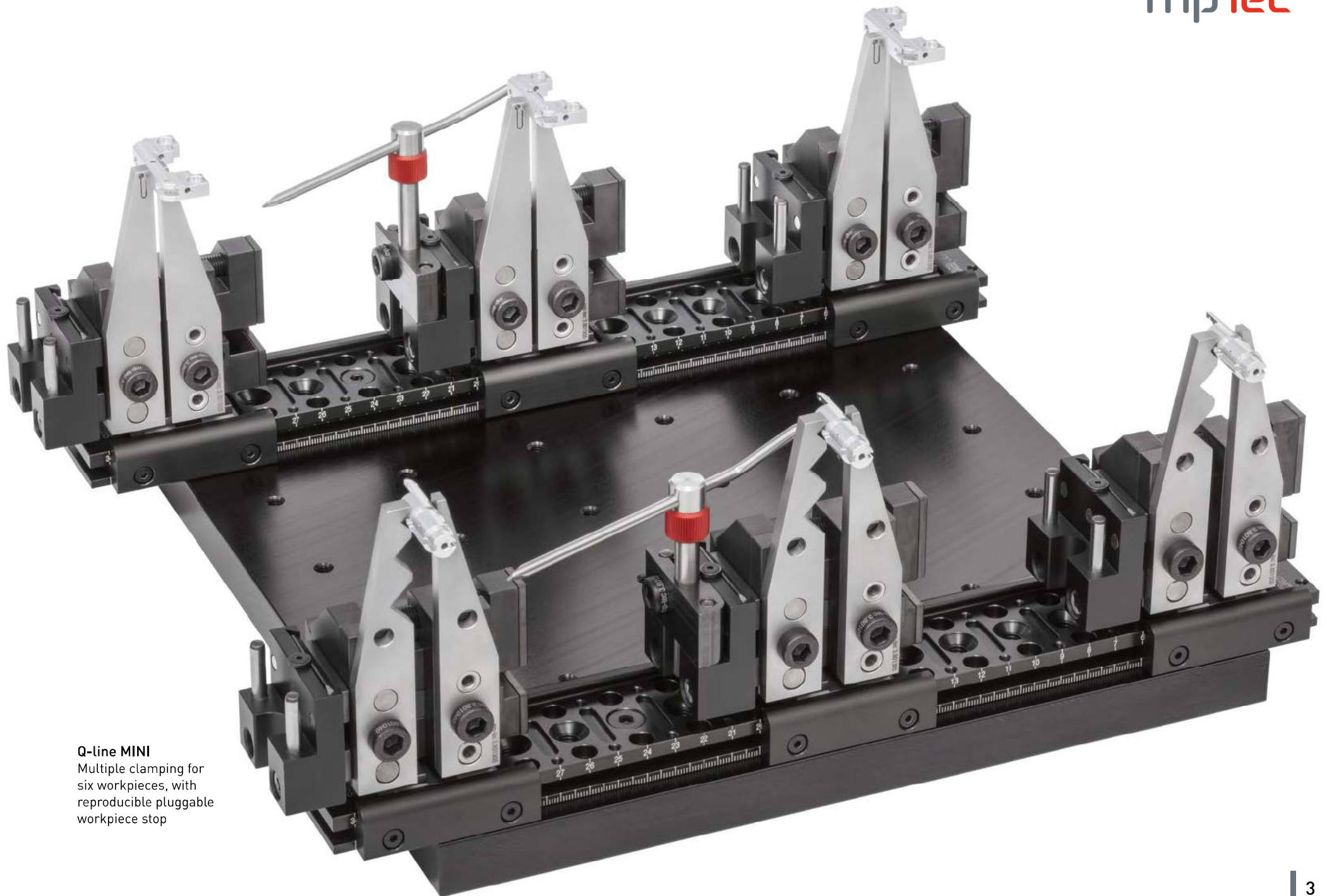
The noticeable time and cost savings are apparent from the start when using this modular clamping system.

Features

Vice models	Q-line MINI and Q-line MIDI
Clamping jaws	standard blanks for custom-made
Clamping jaws holder	two pins Ø 8 mm, plus M8 screw
System rails	various lengths for flexible multiple clamping
Quick-change adaptor	for fast and secure fixing
Accessories	for all tasks imaginable



Q-line MIDI
Vertical and horizontal clamping
with different standardized
clamping jaws



Q-line MINI
Multiple clamping for
six workpieces, with
reproducible pluggable
workpiece stop

Q-line

Eccentric Vice MIDI

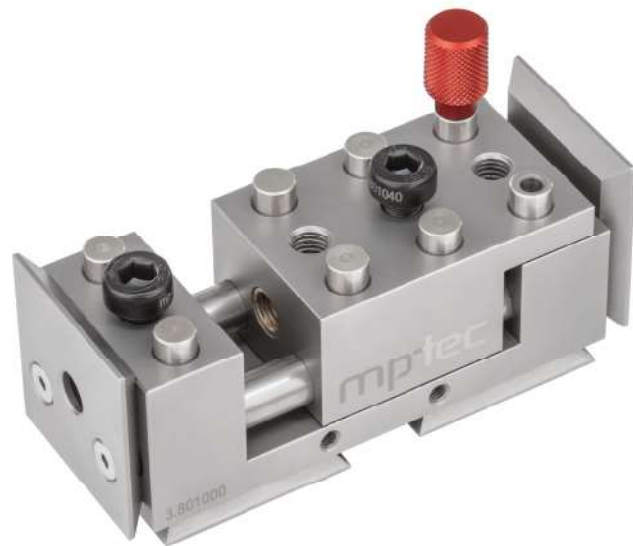
The eccentric vice MIDI is a very flexible and versatile clamp for saving time with single and small series clampings, and which can be used on all current measuring devices.

It has a standardized interface for interchangeable eccentric clamping jaws and three jaw holders offset by 20 mm with a range of 0–60 mm.

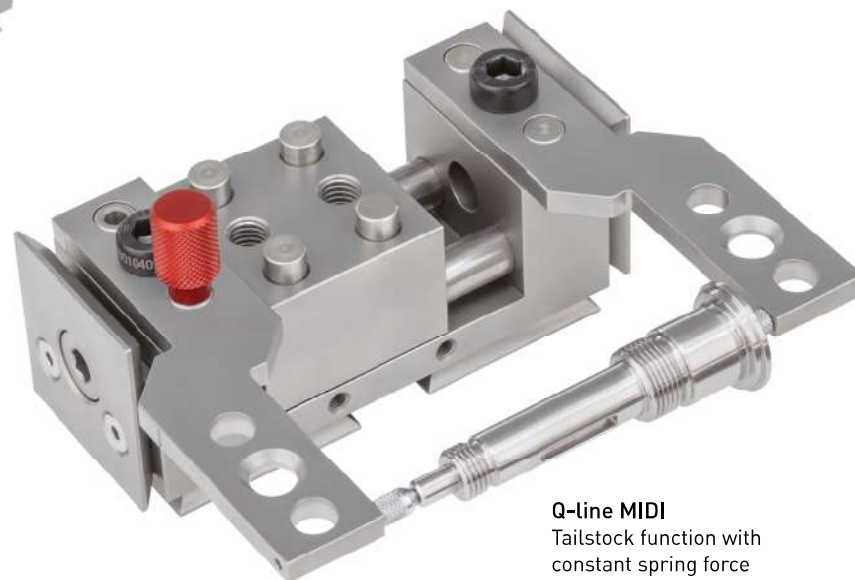
Jaw blanks can be adapted to the requirements of specific parts, and they can be quickly and accurately set up for repeat parts. Special solutions can also be set up cost effectively on a short-term basis.

The clamping force is generated either by a spindle and torque knob or via an exchangeable compression spring, giving a range of constant clamping pressure from fine to strong.

Let's show you the practical operation and the flexibility of the Q-line system on site.



Q-line MIDI
Basic modul
without clamping jaws



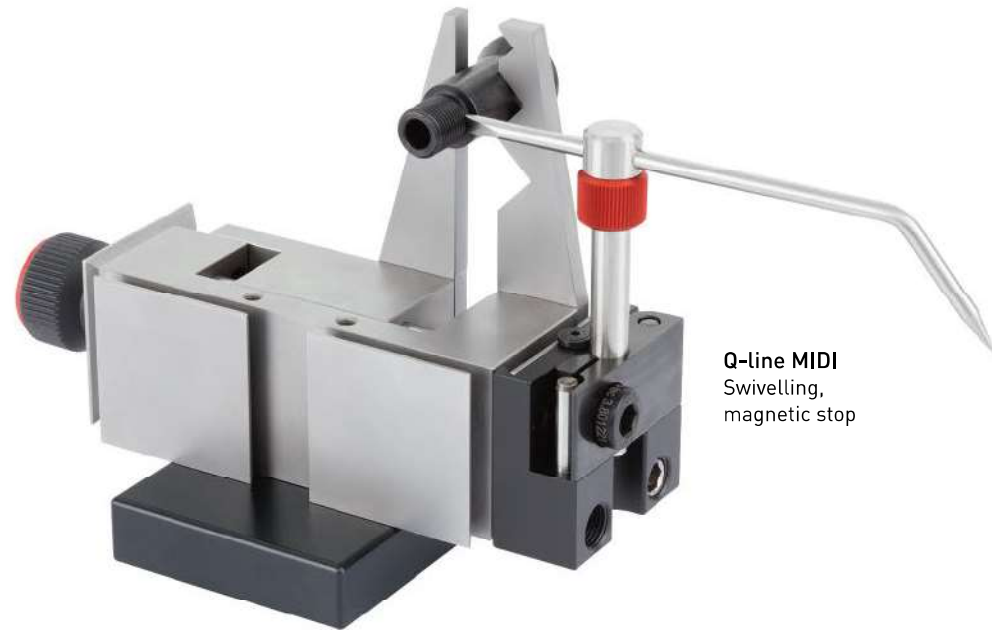
Q-line MIDI
Tailstock function with
constant spring force



Q-line MIDI
Jaw version for free forms,
fixed by PEEK pins

Technical Data

Dimensions (L x W x H)	100 x 40 x 40 mm, grinded on all sides (± 0.015 mm)
Quick-change adaptor	4 x SWA 39, compatible to dk Fixiersysteme
Span width	0...20 mm 20...40 mm 40...60 mm
Torque knob	0.1 – 0.3 Nm, infinitely adjustable
Spring force soft	max. 20 N (optionally interchangeable)
Spring force hard	max. 50 N (optionally interchangeable)
Clamping jaw holder	two pins \varnothing 8 mm, plus M8 screw
Clamping jaw length	100 mm
Clamping jaw thickness	3 5 10 mm
Clamping jaws	various standard versions custom-made



Q-line MIDI
Swivelling,
magnetic stop



Q-line MIDI
Standard vice function,
elevated clamping by long pins



Q-line MIDI
Special clamping jaws for
pressure-sensitive surfaces

Q-line

Eccentric Vice MIDI

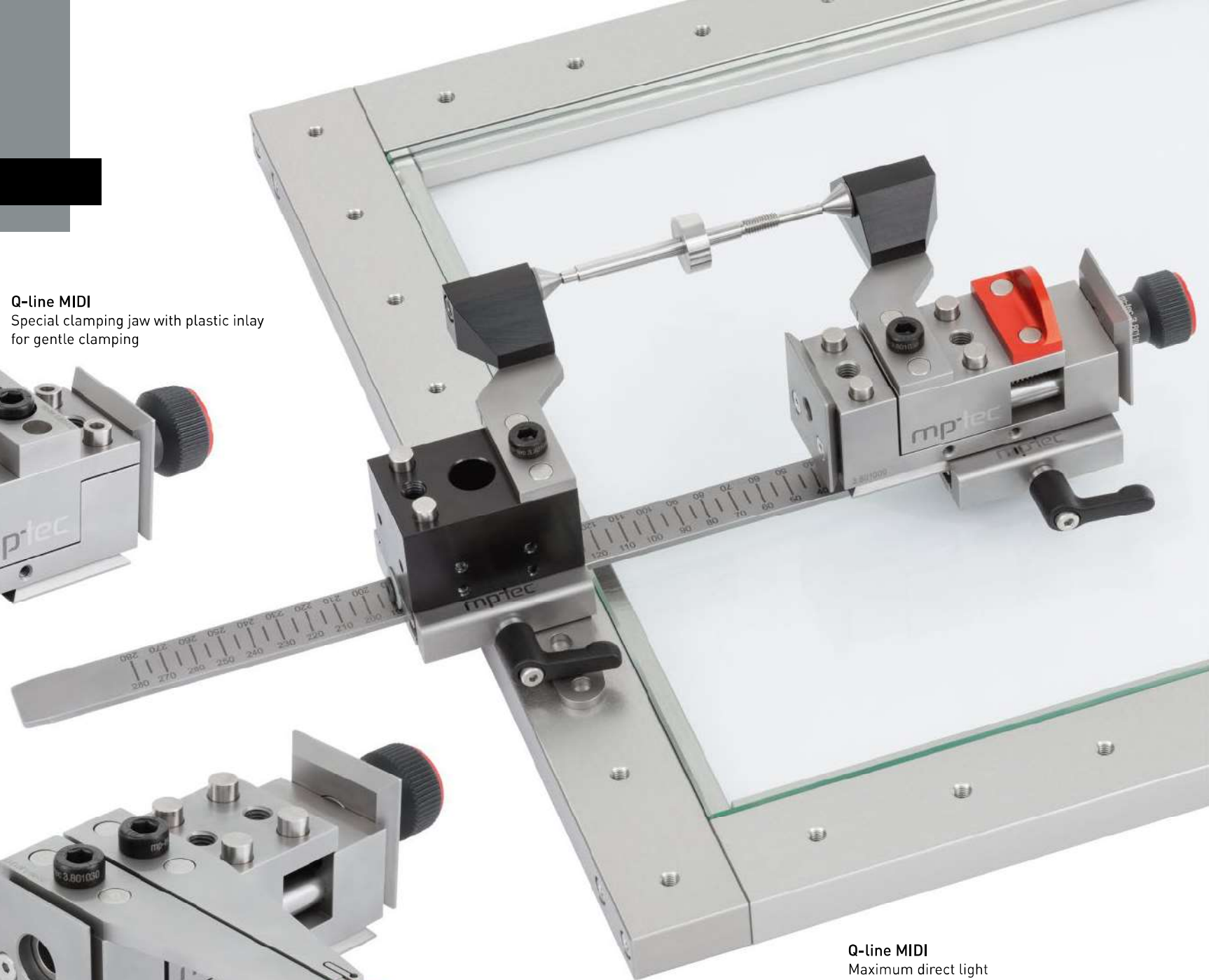
Q-line MIDI
Special clamping jaw with plastic inlay
for gentle clamping



Q-line MIDI
Clamping jaw combination
for thin workpieces

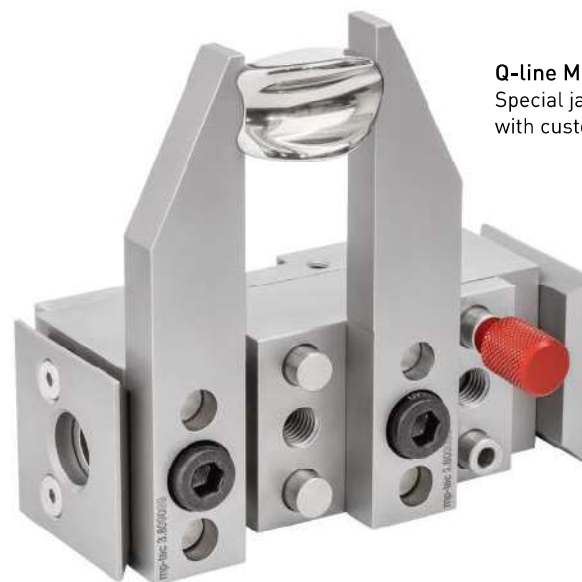


Q-line MIDI
Maximum direct light
for optical measurements





Q-line MIDI
Optimal accessibility for
tactile measurements



Q-line MIDI
Special jaws
with custom fit



Q-line MIDI
User-friendly use on a
system rail with subdivisions

Q-line

Eccentric Vice MINI

The compact design of the eccentric vice model MINI makes it particularly suitable for multiple clamping operations, and it is also ideal as a single clamping element on smaller measuring devices.

It has the same interface for clamping jaws as the Q-line MIDI.

A clear advantage also of the MINI is that jaw blanks can be individualized for parts, making completely custom-made jaws easy to realize.

Repeat parts can be quickly and clearly positioned. The flexible, defined positioning always guarantees optimal measuring.

Q-line optimally combines a standard system with special solutions.

We would be very pleased to demonstrate the convincing Q-line system to you.



Q-line MINI
Various configurations



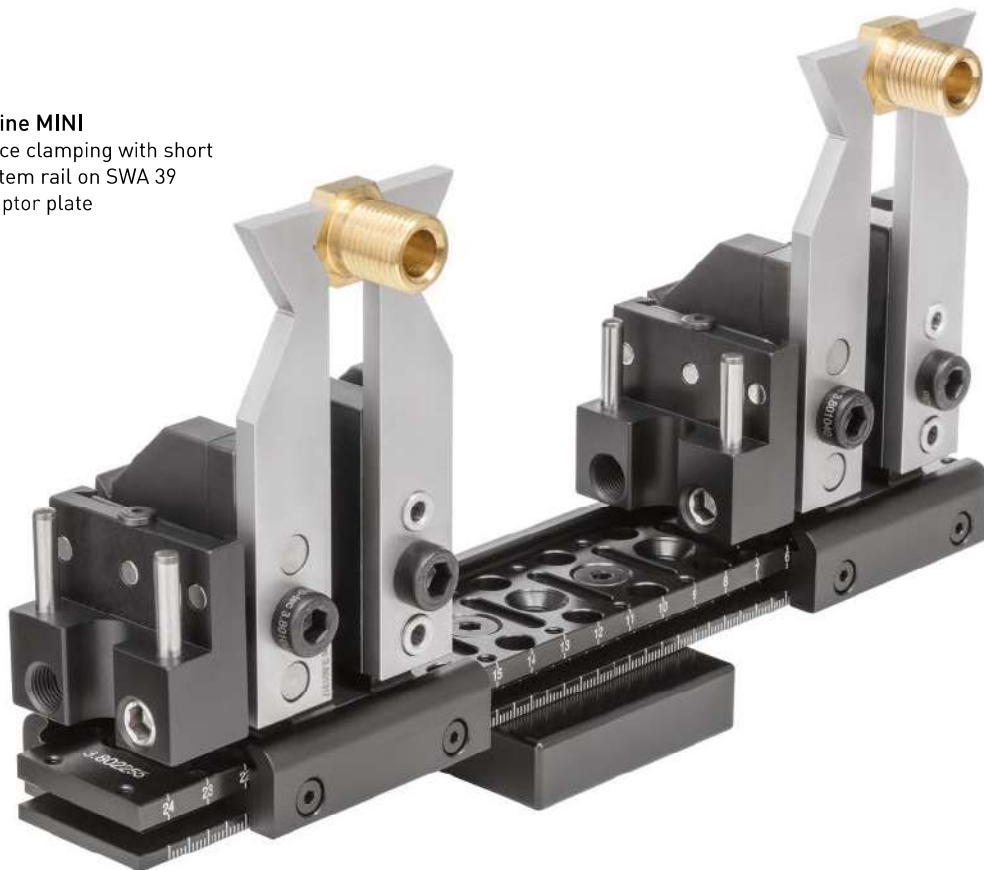
Q-line MINI
Single clamping base,
lockable in 90 degree increments

Technical Data

Dimensions (L x W x H)	60 x 55 x 40 mm
Quick-change adaptor	2 x SWA 39, compatible to dk Fixiersysteme
Span width	0...20 mm
Torque knob	0.1 – 0.3 Nm, infinitely adjustable
Spring force soft	max. 20 N (optionally interchangeable)
Spring force hard	max. 50 N (optionally interchangeable)
Clamping jaw holder	two pins Ø 8 mm, plus M8 screw
Clamping jaw length	100 mm
Clamping jaw thickness	3 5 10 mm
Clamping jaws	various standard versions custom-made

Q-line MINI

Twice clamping with short system rail on SWA 39 adaptor plate



Q-line MINI

Setup sequences from empty vise to reproducibly positioned workpiece

Q-line

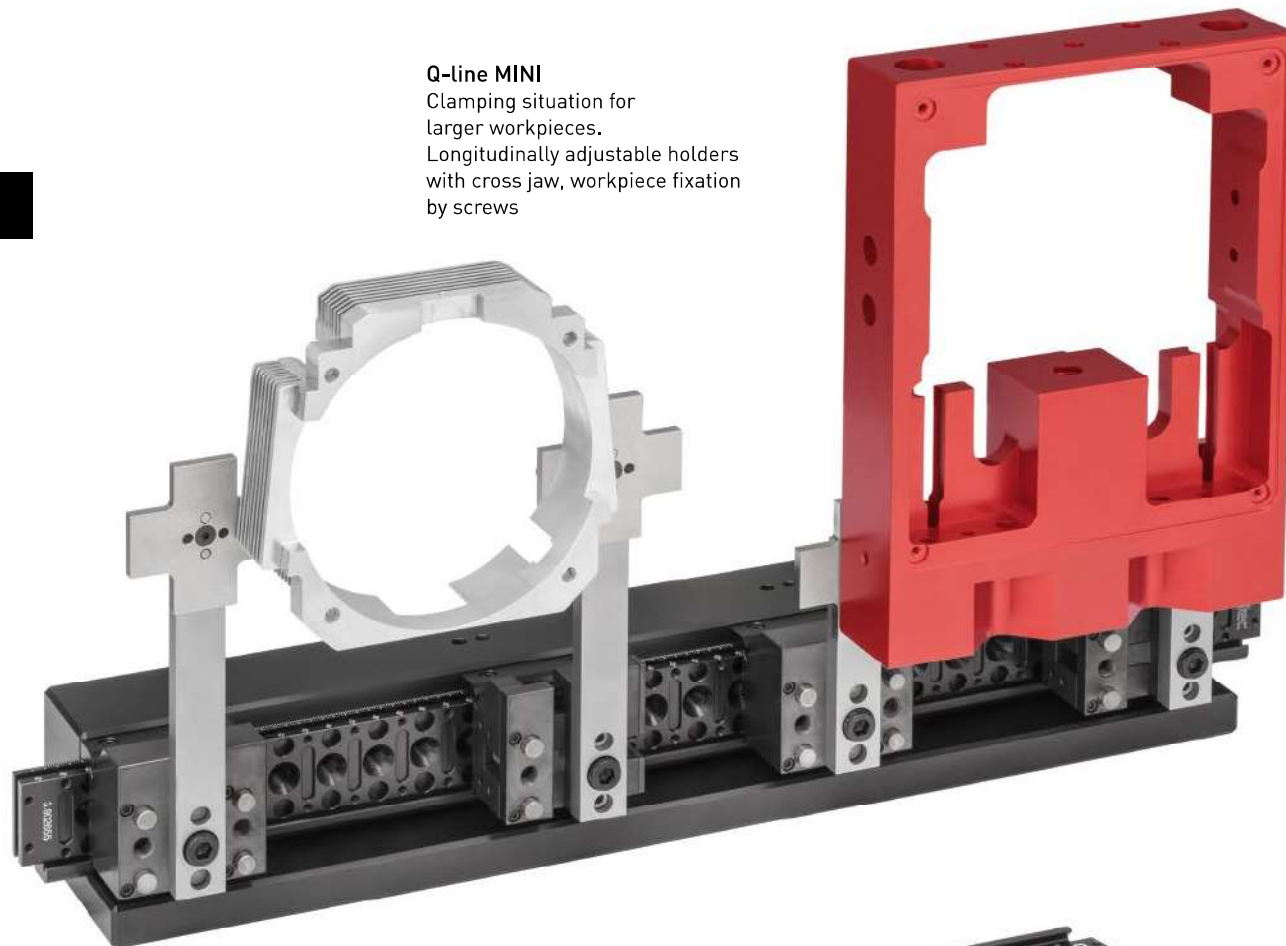
Eccentric Vice MINI

Q-line MINI
With prism jaws
for cylindrical
workpieces

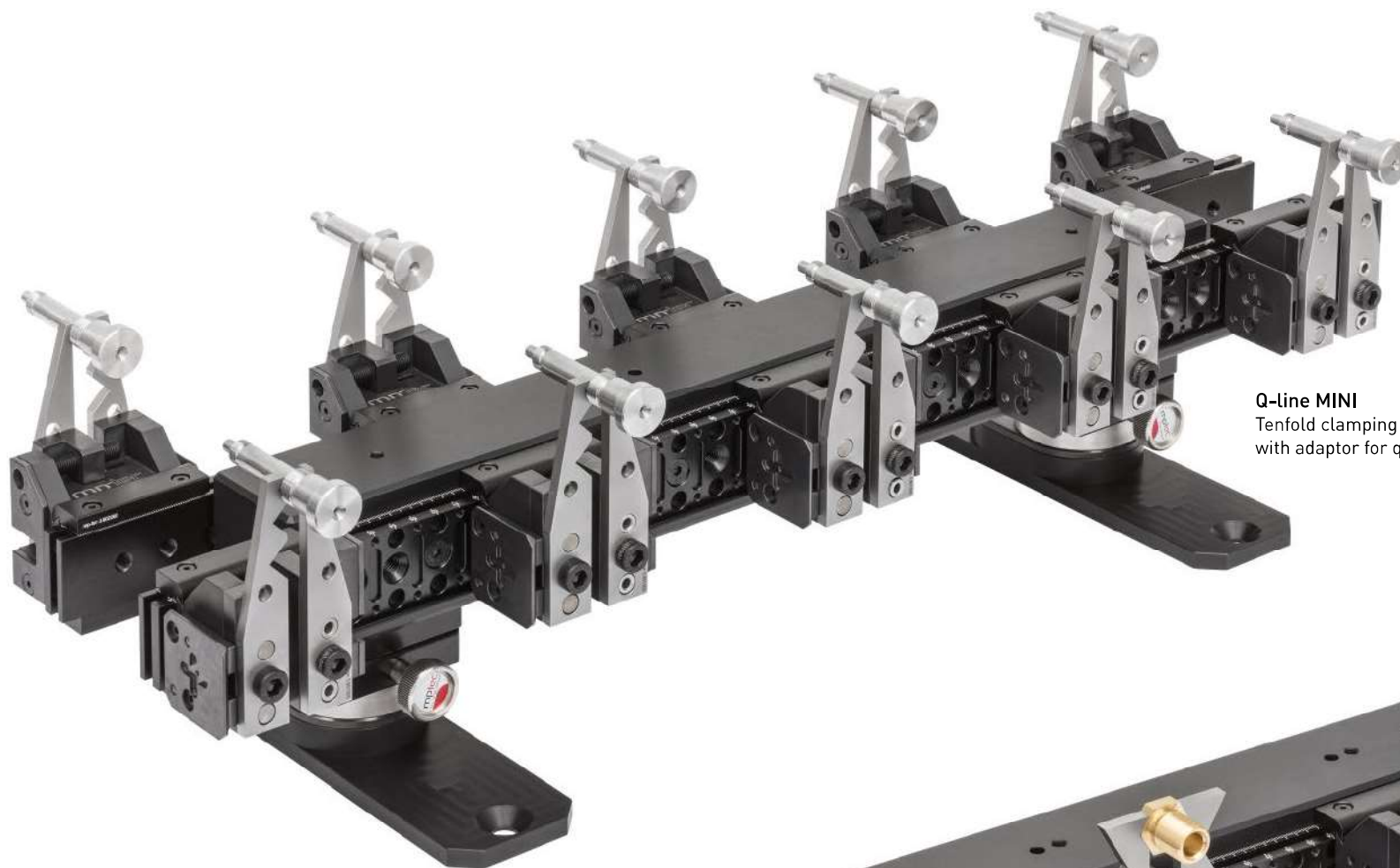


Q-line MINI
Precise, gentle clamping of
parts in the micro range

Q-line MINI
Clamping situation for
larger workpieces.
Longitudinally adjustable holders
with cross jaw, workpiece fixation
by screws



Q-line MINI
Triple clamping,
expandable



Q-line MINI
Tenfold clamping on a bar,
with adaptor for quick change



Q-line MINI
Hexagon clamping with
120 degree prism jaws

Q-line

System Rails

The system rail is the interface between the measuring machine and the clamping element. Individual rails, angles and a wide variety of different combinations can be custom built for multiple clamping.

The eccentric vices Q-line MIDI and MINI can be quickly and reproducibly mounted on the standardized prism interface and can be easily fixed by the practical clamping bars.

The grid allows fixed positioning in 20 mm intervals, and also variable positioning with the aid of the scale.

You can put together a combination to meet your specific requirements, and we are always pleased to arrange to visit and help you create the best combination if you prefer.



Q-line System rails
Short version with
twice clamping on
a single station



Q-line System rails
Standard versions

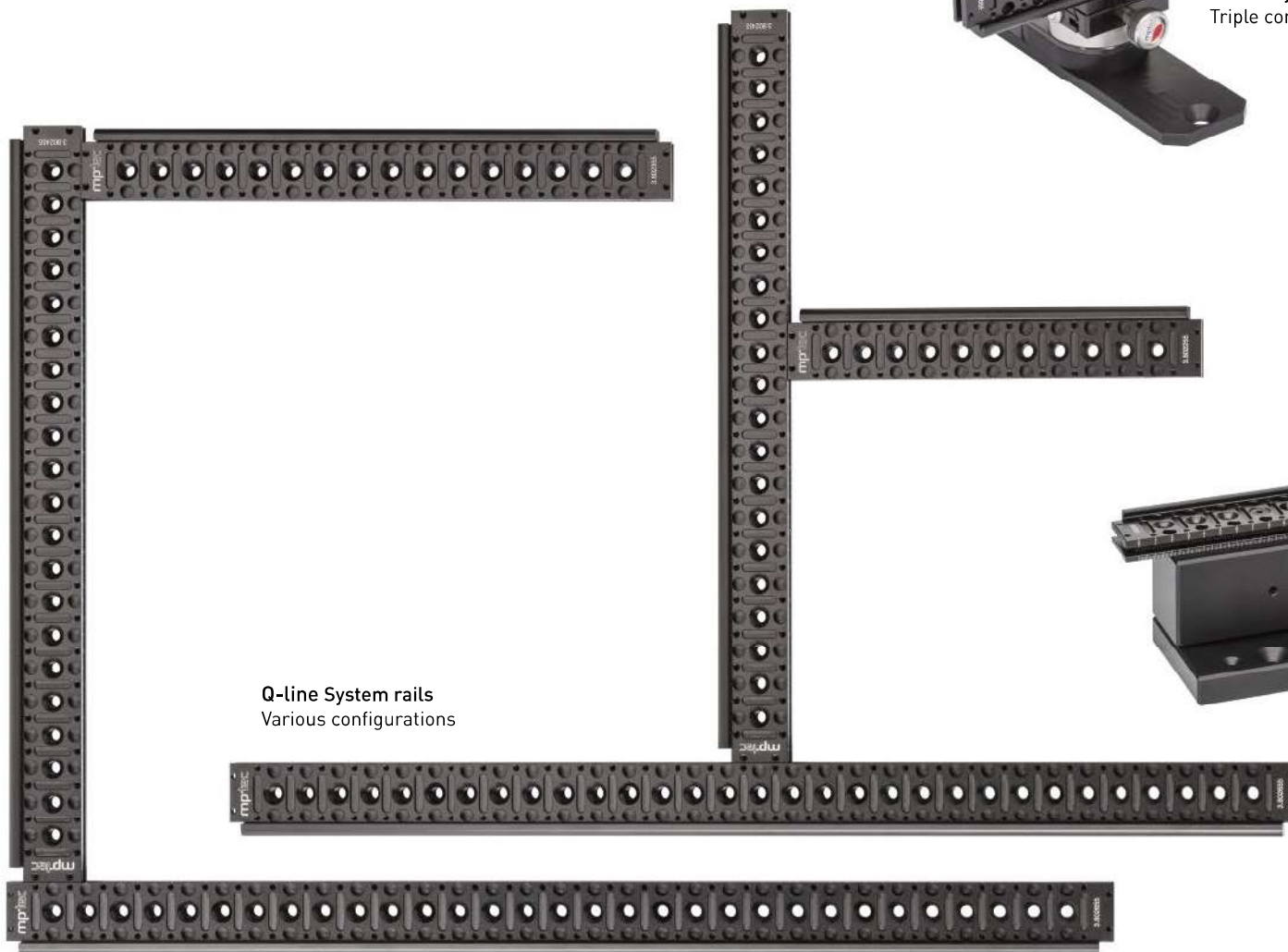
Q-line Clamping bar
Fast and secure fixing

Technical Data

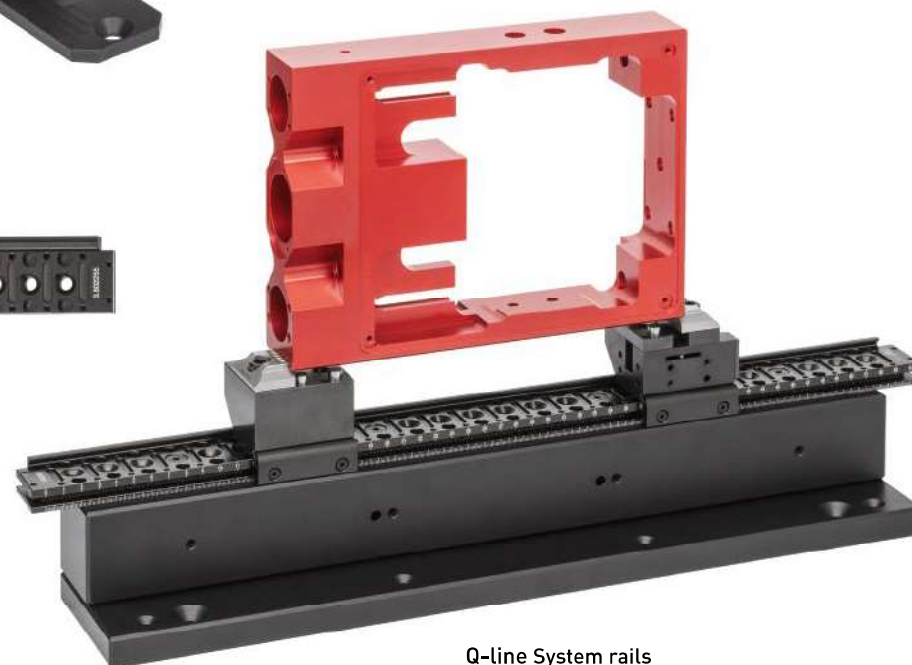
Dimensions (L x W x H)	186 266 346 x 51 x 18 mm
Material	high-strength aluminum, hard anodized
Quick-change adaptor	SWA 39, compatible to dk Fixiersysteme
Linear subdivisions	20 mm
Mounting	via Bride or screwed directly



Q-line System rails
Triple combination on a bar



Q-line System rails
Various configurations



Q-line System rails
Expansion of the vice span width
by separate jaw holders

Q-line

Clamping Jaws | Accessories

The flexibility of the Q-line system results largely from the ingenious clamping jaw principle.

The jaws are arranged eccentrically via a standardized interface and fixed by a conical screw which allows the jaws to be exchanged quickly. The jaws are available in various versions such as straight, prism, stepped or perforated. The standard jaws cover a large part of the clamping applications.

The overriding advantage of the system lies in the simple, cost-effective realization of special solutions: custom-made clamping jaws are manufactured according to your specific requirements from jaw blanks, even completely special designs can be realized, allowing your series to be easily and reproducibly fixed.

Please call us to arrange a demonstration of the Q-line.

Technical Data

Dimensions (L x W x H)	100 x 20 x 3 5 10 mm
Material	1.2397 grinded, hardened approx. 60 HRC
Fixing	two pins Ø 8 mm, plus M8 screw

Q-line Clamping jaws
Standard versions



Q-line Clamping jaws
Tailstock function



Q-line Clamping jaws
Standard vice jaw



Q-line Clamping jaws
Fixing screws long | short



Q-line System case
Protects all parts safely
against dust and damage



Q-line Accessories
Aluminium bar for multiple clamping,
compatible to dk Fixiersysteme



Q-line Accessories
Single clamping, compatible
to dk Fixiersysteme

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High quality products and services with mp-tec quality!

mp-tec ag develops, produces and distributes products for measuring, positioning and clamping and also offers installation services for custom-made product assemblies.

We are the exclusive Swiss distributor of dk Fixiersysteme GmbH & Co KG in the field of clamping technology for measuring machines and our high quality specialized clamping tools designed in-house complete our range of products.

The experience we have gained over many years and the individual customer care we offer to customers on site are among the key competences our company.

Milestones

- 1962 TEKUSA company established by K. Meier in Geroldswil ZH – Industrial tools and accessories
- 1979 Daniel Meier joins company as technician. Development of measuring stand series
- 1986 Company transfers to both sons. TEKUSA AG founded in Dietikon
- 2003 Company splitting and founding of mp-tec ag. Daniel Meier is responsible for the area of measuring stands. Range expanded and introduction of clamping technology for measuring machines. Company moves location to join manufacturing partner Samuel Werder AG in Veltheim.
- 2008 mp-tec ag expands range of services to include installation of custom-made assemblies
- 2014 Company expansion and move to new premises in Veltheim
- 2015 Q-line clamping systems developed

APPLICATION / DISTRIBUTION



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