

MECHANICAL WEDGE ACTION GRIPS TENSILE TESTS







Lever Action - Handwheel or Front Crank From 5 - 500 kN of load capacity

Wedge-type self-tightening grips, easy to use and applicable to perform **tensile tests** on samples of **rigid materials** (Metals, Plastics, Composites...) incorporated into a Universal Testing Machine

TECHLABSYSTEMS



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Tensile Wedge <u>Grips model MCL-5 (5 kN) (side lever action)</u> Tensile Wedge <u>Grips model MCL-10 (10 kN) (side lever action)</u>

Wedge-type self-tightening grips, easy to use and applicable to perform **tensile tests** on small samples of rigid materials (**Metals, Plastics, Composites...**) incorporated into a Universal Testing Machine



GENERAL INFORMATION

Easy-to-use wedge grips, designed for tensile testing of low-resistance metals and plastics. The wedge grip design ensures clamping on the sample as the force increases and prevents slippage, the initial force is applied by the action of the side lever for loading and unloading the specimens. Jaws with different types of finish on the faces are interchangeable for different types of samples and dimensions.

Wedge Jaws 5 kN "MCL-5"

Suitable for testing small samples

Scope of supply

2 grips are supplied, but only 1 can be ordered

Grips and jaws need to be ordered separately.

MODEL	MCL-5
• Load capacity:	5 kN
• Body:	Steel, manganese phosphate coating
Temperature range:	0°C to +130°C
remperature range.	Further temperature ranges on request
• Weight:	0.9 kg (without jaws)
• Scope of supply:	1 piar (without jaws)

Jaws for MCL-5 Grips: supply of 1 set = 4 jaws

Model	Surface	Clamping surface H x W	Opening	Weight
MCL-5/BP	Jaws serrated (pyramids)	40x10 mm	0 -8 mm	0.15 kg
MCL-5/BV	V-Jaws	Clamping height 40 mm	2 - 8 mm Ø	0.15 kg

Testing 3mm diameter fine wire



BP For multiple applications Pyramids (serrated) 0.8x45 °, hardened steel



BV For all types of round specimens Tooth pitch 0.8 mm, hardened steel





Tensile Wedge Grips model MCL-10 (10 kN) (side lever action)

Universal purpose wedge grips

The grips are supplied in pairs, but can be

be ordered individually.

Grips and jaws have to be ordered separately. Jaws of other dimensions can be requested.

Model	MCL-10
• Load capacity:	10 kN
• Body:	Steel, manganese phosphate coating
	0°C to +130°C (MCL-10)
Temperature range:	0°C to +130°C (MCL-10)
Peso (cada mordaza)	1.36kg (without jaws)
· Weight:	1 Pair od Grips (without jaws)



Jaws for MCL-10 Grips: supply of 1 set = 4 jaws

Model	Surface	Clamping surface HxW	Opening	Weight
MCL-10/BP	Serrated Jaws	30 x 30 mm	0-8 mm	0,43 Kg
MCL-10/BV	V-Jaws	Clampina Heiaht 30 mm	2-8 mm Ø	0.42 Ka



Surface: Black or nickel plated (for the High Temperature range)



MCL-10/BP Serrated Jaws (pyramids)



MCL-10/BV For round samples, minimum 3mm diameter



MCL-10/BG Rubber jaws (For soft materials)



MCL-10/BD Diamond jaws For fine wires



BP: For multiple applications Pyramides (serrated) 1x45°, 58HRC hardened steel



BV: For all kinds of round specimens Tooth pitch 1.2 mm, 58HRC Hardened Steel



Tensile Wedge Grips model MCP-C/10 (10 kN) (center lever action)

Wedge-type self-tightening grips, easy to use and applicable to perform **tensile tests** on small samples of rigid materials (**Metals, Plastics, Composites...**) incorporated into a Universal Testing Machine

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GENERAL INFORMATION

Easy-to-use wedge grips designed for tensile testing of medium strength metals and plastics. The wedge grip design ensures clamping on the sample as the force increases and prevents slippage, the initial force is applied by the action of the central lever for loading and unloading the specimens. Jaws with different types of finish on the faces are interchangeable for different types of samples and dimensions.

Scope of supply

2 grips are supplied, but only 1 can be ordered Grips and Jaws have to be ordered separately

Model	MCP-C/10
Load capacity:	10 kN
Temperature range:	0 °C to +130 °C
Body:	Steel, Manganese Phosphate coated
Weight of each grip:	0,90 Kg (without jaws)

Jaws for Grips MCP/10: The supply of 1 set = 4 jaws

Model	Surface Finish	Clamping surface HxW	Opening	Weight per Pair
MCP-C/10-BP	Serrated Jaws (pyramids)	40 x 34 mm	0 – 8 mm	0,15 Kg
MCP-C/10-BV	V-Jaws	Clamping height40 mm	$2-8 \text{ mm } \emptyset$	0,15 Kg

Consult other jaw finishes



BP - For multiple applications Pyramids (serrated) 1.2 x 45°, hardened steel 58 HRC



BV - For all types of round samples Tooth pitch 1.2 mm, hardened steel 58 HRC









Tensile Wedge Grips model MCP-L/20 (20 kN) (side lever action)

Wedge-type self-tightening grips, easy to use and applicable to perform **tensile tests** on small samples of rigid materials (**Metals, Plastics, Composites...**) incorporated into a Universal Testing Machine

GENERAL INFORMATION

Easy-to-use wedge grips designed for tensile testing of medium strength metals and plastics. The wedge grip design ensures clamping on the sample as the force increases and prevents slippage, the initial force is applied by the action of the central lever for loading and unloading the specimens. Jaws with different types of finish on the faces are interchangeable for different types of samples and dimensions.



Scope of supply

2 grips are supplied, but only 1 can be ordered Grips and Jaws have to be ordered separately

Model	MCP-L/20
Load capacity:	20 kN
Temperature range:	0 °C to +130 °C -70 °C to +280 °C (MCP-L/P-Ni)
Body:	Steel, Manganese Phosphate coated
Weight of each grip:	3,80 Kg (without jaws)

Jaws for Grips MCP-L / 20: the supply of 1 set = 4 jaws

Model	Surface Finish	Clamping surface HxW	Opening	Weight per Pair
MCP-L-BP	Serrated Jaws (pyramids)	50 x 35 mm	0 – 13 mm	0,48 Kg
MCP-L-BP16	Serrated Jaws (pyramids)	50 x 35 mm	4 – 16 mm	0,41 Kg
MCP-L-BV13	V-Jaws	Clamping height 50 mm	3 – 13 mm Ø	0,46 Kg
MCP-L-BV16	V-Jaws	Clamping height 50 mm	$4-15 \text{mm} \emptyset$	0,41 Kg
MCP-L-BV20	V-Jaws	Clamping height 50 mm	10 – 20 mm Ø	0,60 Kg

Consult other jaw finishes



BP - For multiple applications Pyramids (serrated) 1.2 x 45°, hardened steel 58 HRC



BV - For all types of round samples Tooth pitch 1.2 mm, hardened steel 58 HRC







Tensile Wedge Grips model MCP-L/50 (50 kN) (side lever action)

Wedge-type self-tightening grips, easy to use and applicable to perform **tensile tests** on small samples of rigid materials (**Metals, Plastics, Composites...**) incorporated into a Universal Testing Machine

GENERAL INFORMATION

Easy-to-use wedge grips designed for tensile testing of medium strength metals and plastics. The wedge grip design ensures clamping on the sample as the force increases and prevents slippage, the initial force is applied by the action of the central lever for loading and unloading the specimens. Jaws with different types of finish on the faces are interchangeable for different types of samples and dimensions.



Scope of supply

2 grips are supplied, but only 1 can be ordered Grips and Jaws have to be ordered separately

Model	MCP-L50
Load capacity:	20 kN
Temperature range:	0 °C to +130 °C -70 °C to +280 °C (MCP-L/P-Ni)
Body:	Steel, Manganese Phosphate coated
Weight each grip:	6,75 Kg (without jaws)

Jaws for Grips MCP-L /50: the supply of 1 set = 4 jaws

Modelo	Acabado Superficial	Superficie Amarre HxW	Apertura	Peso por Par
MCP-L-BP	Picado pirámide	50 x 35 mm	0 – 13 mm	0,48 Kg
MCP-L-BP16	Picado pirámide	50 x 35 mm	4 – 16 mm	0,41 Kg
MCP-L-BV13	Mandíbulas en V	Altura amarre 50 mm	3 – 13 mm Ø	0,46 Kg
MCP-L-BV16	Mandíbulas en V	Altura amarre 50 mm	4 – 15 mm Ø	0,41 Kg
MCP-L-BV20	Mandíbulas en V	Altura amarre 50 mm	10 – 20 mm Ø	0,60 Kg

Otros acabados de mandíbulas consultar



BP - For multiple applications Pyramids (serrated) 1.2 x 45 $^{\circ}$, hardened steel 58 HRC



BV - For all types of round samples Tooth pitch 1.2 mm, hardened steel 58 HRC







Tensile Wedge Grips model MCV/20 (20 kN) (top wheel action)

Wedge-type self-tightening grips, easy to use and applicable to perform tensile tests on samples of rigid materials of medium resistance (Metals, Plastics, Composites...) incorporated in a Universal Testing Machine



GENERAL INFORMATION

Easy-to-use wedge grips designed for tensile testing of medium strength metals and plastics. The wedge grip design ensures clamping on the specimen as the force increases and prevents slippage, the initial force is applied by the action of the 4-handle handwheel screw for loading and unloading the specimens. Jaws with different types of finish on the faces are interchangeable for different types of samples and dimensions.

Scope of supply:

2 grips are supplied, but only I can be ordered (jaws not included) Jaws have to be ordered separately

Model	MCV-20
Load capacity:	20 kN
Temperature range:	0 °C to +130 °C and -80 °C to +280 °C (MCV/20-Ni)
Body:	Steel, Manganese Phosphate coated
Grip Height min./max.:	189 – 211 mm
Grip width:	162 mm
Weight of each grip:	5,50 Kg (incluidas las mandíbulas)

Jaws for Grips MCV/20: the supply of 1 set = 4 jaws

Model	Surface Finish	Clamping surface HxW	Opening	Weight per Pair
MCV/20-BP10	Serrated pyramids 1,2X45°	52 x 40 mm	0 – 10 mm	0,74 Kg
MCV/20-BP16	Serrated pyramids 1,2X45°	52 x 40 mm	6 – 16 mm	0,61 Kg
MCV/20-BP22	Serrated pyramids 1,2X45°	52 x 40 mm	12 – 22 mm Ø	0,52 Kg
MCV/20-BV10	V-Jaws	Clamping height 50 mm	3 – 10 mm Ø	0,75 Kg
MCV/20-BV16	V-Jaws	Clamping height 50 mm	6 – 16 mm Ø	0,65 Kg
MCV/20-BV22	V-Jaws	Clamping height 50 mm	12 – 22 mm Ø	0,54 Kg

Consult other jaw finishes



BP - For multiple applications Pyramids (serrated) 1.2 x 45 °, hardened steel 58 HRC



BV - For all types of round samples Tooth pitch 1.2 mm, hardened steel 58 HRC

V-Jaw

Serrated Flat Jaw





Tensile Wedge Grips model MCV/50 (50 kN) (top wheel action)

Wedge-type self-tightening grips, easy to use and applicable to perform tensile tests on samples of rigid materials of medium resistance (Metals, Plastics, Composites...) incorporated in a Universal Testing Machine



GENERAL INFORMATION

Easy-to-use wedge grips designed for tensile testing of medium strength metals and plastics. The wedge grip design ensures clamping on the specimen as the force increases and prevents slippage, the initial force is applied by the action of the 4-handle handwheel screw for loading and unloading the specimens. Jaws with different types of finish on the faces are interchangeable for different types of samples and dimensions.

Scope of supply:

2 grips are supplied, but only 1 can be ordered (jaws not included) Jaws have to be ordered separately

Model	MCV-50
Load capacity:	50 kN
Temperature range:	0 °C to +130 °C and -80 °C to +280 °C (MCV/50-Ni)
Body:	Steel, Manganese Phosphate coated
Grip Height min./max.:	257-283 mm
Grip width:	198 mm
Weight of each grip:	17 Kg (including jaws)

Jaws for Grips MCV/50: the supply of 1 set = 4 jaws

Model	Surface Finish	Clamping surface HxW	Opening	Weight per Pair
MCV/50-BP17	Serrated pyramids 1,2X45°	66 x 80 mm	0-17 mm	2,07 Kg
MCV/50-BP30	Serrated pyramids 1,2X45°	66 x 80 mm	15-30 mm Ø	1,54 Kg
MCV/50-BV17	V-jaws	Clamping height 52 mm	4-17 mm Ø	2,08 Kg
MCV/50-BV30	V-jaws	Clamping height 52 mm	16-30 mm Ø	1,55 Ka

Consult other jaw finishes



BP - For multiple applications Pyramids (serrated) 1.2 x 45°, hardened steel 58 HRC





BV - For all types of round samples Tooth pitch 1.2 mm, hardened steel 58 HRC









Tensile Wedge Grips model MCV/100 (100 kN) (top wheel action)

Wedge-type self-tightening grips, easy to use and applicable to perform **tensile tests** on samples of rigid materials of medium-high resistance (**Metals, Plastics, Composites...**) incorporated in a Universal Testing Machine

GENERAL INFORMATION

Easy-to-use wedge grips designed for tensile testing of medium strength metals and plastics. The wedge grip design ensures clamping on the specimen as the force increases and prevents slippage, the initial force is applied by the action of the 4-handle handwheel screw for loading and unloading the specimens. Jaws with different types of finish on the faces are interchangeable for different types of samples and dimensions.



Scope of supply:

2 grips are supplied, but only 1 can be ordered (jaws not included) Jaws have to be ordered separately

Modelo	MCV/100
Load capacity:	100 kN
Temperature range:	0 °C to +130 °C and -80 °C to+280 °C (MCV/50-Ni)
Body:	Steel, Manganese Phosphate coated
Grip Height min./max.:	352-369 mm
Grip width:	310 mm
Weight of each grip:	48 Kg (including jaws)

Mandíbulas para las Mordazas MCV/100: el suministro de 1 juego = 4 mandíbulas

Model	Surface Finish	Clamping surface HxW	Opening	Weight per Pair
MCV/100-BP16	Serrated pyramids 1,2X45°	95 x 100 mm	0 – 16 mm	4,89 Kg
MCV/100-BP28	Serrated pyramids 1,2X45°	95 x 100 mm	13 – 28 mm Ø	3,67 Kg
MCV/100-BV16	V-jaws	Clamping height 95 mm	5 – 16 mm Ø	4,93 Kg
MCV/100-BV28	V-jaws	Clamping height 95 mm	16 – 28 mm Ø	3,96 Kg

Consult other jaw finishes



BP - For multiple applications Pyramids (serrated) 1.2 x 45 $^{\circ}$, hardened steel 58 HRC



BV - For all types of round samplesTooth pitch 1.2 mm, hardened steel 58 HRC

V-Jaw





Tensile Wedge Grips model MCV/150 (150 kN) (top wheel action)

Wedge-type self-tightening grips, easy to use and applicable to perform **tensile tests** on samples of rigid materials of medium-high resistance (**Metals, Plastics, Composites...**) incorporated in a Universal Testing Machine

GENERAL INFORMATION

Easy-to-use wedge grips designed for tensile testing of medium strength metals and plastics. The wedge grip design ensures clamping on the specimen as the force increases and prevents slippage, the initial force is applied by the action of the 4-handle handwheel screw for loading and unloading the specimens. Jaws with different types of finish on the faces are interchangeable for different types of samples and dimensions.



Scope of supply:

2 grips are supplied, but only 1 can be ordered (jaws not included) Jaws have to be ordered separately

Modelo	MCV/100
Load capacity:	150 kN
Temperature range:	0 °C to +130 °C and -80 °C to+280 °C (MCV/50-Ni)
Body:	Steel, Manganese Phosphate coated
Grip Height min./max.:	347-364 mm
Grip width:	310 mm
Weight of each grip:	48 Kg (including jaws)

Mandíbulas para las Mordazas MCV/100: el suministro de 1 juego = 4 mandíbulas

Model	Surface Finish	Clamping surface HxW	Opening	Weight per Pair
MCV/150-BP16	Serrated pyramids 1,2X45°	95 x 100 mm	0 – 16 mm	4,89 Kg
MCV/150-BP28	Serrated pyramids 1,2X45°	95 x 100 mm	17 – 28 mm Ø	3,67 Kg
MCV/150-BV16	V-jaws	Clamping height 95 mm	5 – 16 mm Ø	4,93 Kg
MCV/150-BV28	V-jaws	Clamping height 95 mm	17 – 28 mm Ø	3,96 Kg

Consult other jaw finishes



BP - For multiple applications Pyramids (serrated) 1.2 x 45 $^{\circ}$, hardened steel 58 HRC



BV - For all types of round samples Tooth pitch 1.2 mm, hardened steel 58 HRC



V-Jaw



Tensile Wedge Grips model MC-mf/50 (50 kN)

(Opening/closing jaws by front rotary lever)

Wedge type grips used for **tensile tests** on relatively **hard materials** and in different shapes, Dumbbell type specimens, wires, rods, tubular shapes. The wedge jaws facilitate sample loading, with self-tightening action and natural centering positioning of the sample.





GENERAL INFORMATION

Wedge grips used for tensile tests on relatively hard materials and in different shapes, dog bone type specimens, wires, rods, tubular shapes. The wedge grips facilitate sample loading, with self-tightening action and natural centering positioning of the sample.

The design characteristics of the MC / mf grips with a door in their structure allow the frame to be rigidly maintained under the test load, supporting higher loads than open wedge grips.

They also have a manual crank preload mechanism (optional with the help of compressed air) so that the jaws can bite the sample without the need for more costly hydraulic solutions.

Wedge pull jaws offer a great mechanical advantage in the way they clamp. As the gripsare being stressed during the test, the jaws exert greater pressure on the clamping area on the specimens being tested and this prevents slippage in the specimen.

Having a front open area allows the jaws to be easily interchanged, as well as facilitating the placement of the test specimen.

- Tensile force range: 50 kN
- When lowering the wedges by actuation of the central crank, they exert a preload of 10 kN
- Low overall height grips with lever handle to open and close jaws
- Body Grips: Black Steel
- Test Temperature Range: 0°C to + 130°C
- Scope of supply: 1 Pair of Grips (without jaws) + Lever handle









Blank Jaws EBP



Jaws in "V" EBV



Serrate Jaws

- > Pyramids 1.2x45°
- Hardened Steel 58HRC Manganese Phosphated



Jaws in V

- > For round specimens
- > Tooth pitch 1.2 mm
- Hardened steel 58 HRC manganese phosphated



Diamond Jaws

Gripping surface with synthetic diamond coating

Insert Jaws for MC-mf-50: Scope of supply: 1 set = 4 jaws

ITEM	SURFACE	OPENING
MC-mf/50-GT	4 Carriers f/insert jaws	
MC-mf/50-EBP17	Insert Jaws Pyramids (serrated) (1mm 45°) flat samples	0 – 17 mm
MC-mf/50-EBP21	Insert Jaws Pyramids (serrated) (1mm 45°) flat samples	3 – 21 mm
MC-mf/50-EBP26	Insert Jaws Pyramids (serrated) (1mm 45°) flat samples	6 – 26 mm
MC-mf/50-EBV17	V-Insert Jaws for round samples	4 – 17 mm Ø
MC-mf/50-EBP21	V-Insert Jaws for round samples	6 – 21 mm Ø
MC-mf/50-EBP26	V-Insert Jaws for round samples	13 – 26 mm Ø
MC-mf/50-EBD17	Diamond coated Insert Jaws for flat samples	0 – 17 mm
MC-mf/50-EBD21	Diamond coated Insert Jaws for flat samples	3 – 21 mm
MC-mf/50-EBD26	Diamond coated Insert Jaws for flat samples	6 – 26 mm



Mandíbulas estándar para MC-mf-50: Alcance suministro: 1 set = 4 mandíbulas

ITEM	SURFACE	OPENING
MC-mf/50-EBP20	Insert Jaws Pyramids (serrated) (1mm 45°) flat samples	0 – 20 mm
MC-mf/50-EBP30	Insert Jaws Pyramids (serrated) (1mm 45°) flat samples	10 – 30 mm
MC-mf/50-EBP40	Insert Jaws Pyramids (serrated) (1mm 45°) flat samples	20 – 40 mm
MC-mf/50-EBV20	V-Insert Jaws for round samples	4 – 20 mm Ø
MC-mf/50-EBV30	V-Insert Jaws for round samples	12 – 30 mm Ø
MC-mf/50-EBV40	V-Insert Jaws for round samples	24 – 40 mm Ø

^{*} Jaws with other dimensions and surface finishes on request



Tensile Wedge Grips MC/mf series (100 to 500 kN)

(Opening/closing jaws by front rotary lever)

Wedge type grips used for **tensile tests** on **very hard materials** and in different shapes, dog bone type specimens, wires, rods, tubular shapes. The wedge jaws facilitate sample loading, with self-tightening action and natural centering positioning of the sample.





INFORMACION GENERAL

Wedge grips used for tensile tests on relatively hard materials and in different shapes, dog bone type specimens, wires, rods, tubular shapes. The wedge grips facilitate sample loading, with self-tightening action and natural centering positioning of the sample.

The design characteristics of the MC / mf grips with a door in their structure allow the frame to be rigidly maintained under the test load, supporting higher loads than open wedge jaws.

They also have a manual crank preload mechanism (optional with the help of compressed air) so that the jaws can bite the sample without the need for more costly hydraulic solutions.

Wedge pull jaws offer a great mechanical advantage in the way they clamp. As the jaws are being stressed during the test, the jaws exert greater pressure on the clamping area on the specimens being tested and this prevents slippage in the specimen.

Having a front open area allows the jaws to be easily interchanged, as well as facilitating the placement of the test specimen.

Universal grips with lower wedge angle (11°) for many kinds of materials such as aluminium, copper, weak steel till 30 HRC – round and flat.

- Tensile force range: models between 100 and 500 kN
- The use of the central crank exerts a great pre-load on the specimen
- · Low overall height grips with lever handle for open and close the jaws
- · Grip Body: Black Steel or Nickel Plated Steel
- Test Temperature Range: 0°C to + 130°C (-80°C to + 280°C in Nickel)
- Maximum diameter of round specimen clamping up to 2.2 "(55 mm) in diameter
- Scope of supply: 1 Pair of Grips (without jaws) + Handle

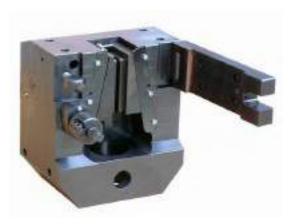


Model	Load capacity	Weight per grip with 2 jaws
MC/mf-100	100 kN (22,500 LB)	46 kg
MC/mf-150	150 kN (33,750 LB)	50 kg
MC/mf-250	250 kN (55,000 LB)	70 kg
MC/mf-300	300 kN (67,500 LB)	75 kg
MC/mf-400	400 kN (90,000 LB)	85 kg
MC/mf-500	500 kN (110,000 LB)	100 kg





MC/mf-250P Pneumatic actuator Capacity 250 kN (55,000 LB)

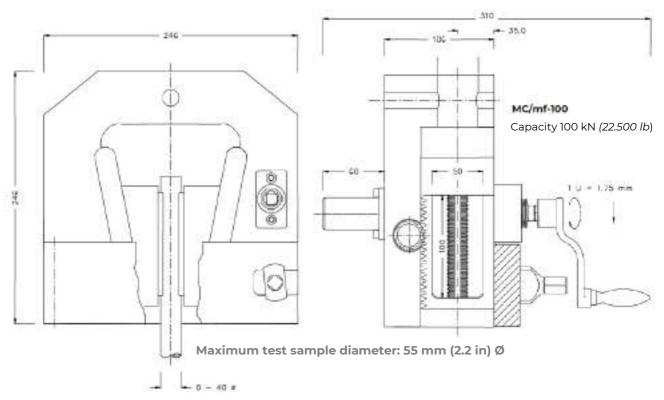


MC/ml-300 Capacity 300 kN (67,000 LB)



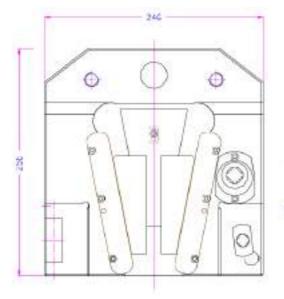
MC/mf-100-Ni with nickel coating

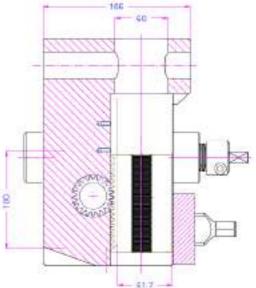




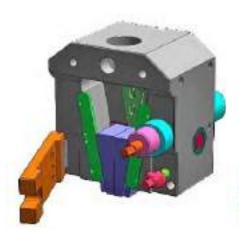
Model	MC/mf-250
Load capacity:	250 kN
Jaws opening:	0-50 mm depending on jaw type
Coupling:	Body Af60. Other couplings on request
Grips:	Nickel Plated Steel
Temperature range:	0 +70°C Other temperature ranges on request
Weight:	70 kg for each grip, without jaws
Scope of supply:	1 pair grips (without jaws)

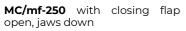


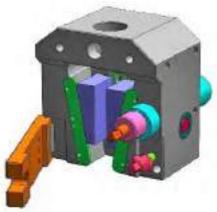












MC/mf-250 with the closing flap open, the jaws in the middle

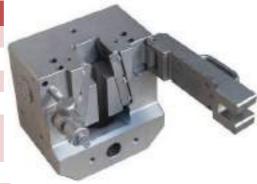


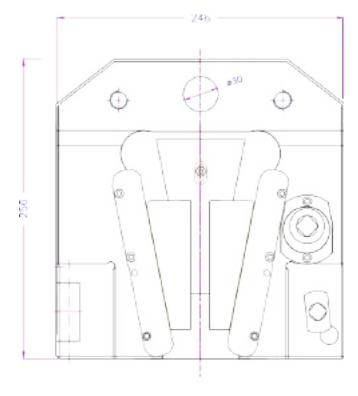
MC/mf-250 with the closing flap closed, the jaws in the middle

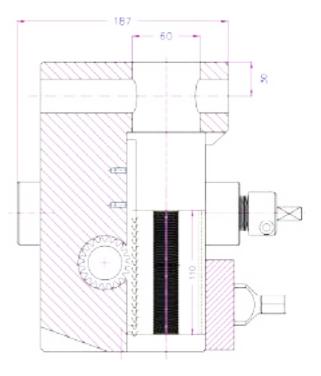
Model	MC/mf-300
Load capacity:	300 kN
Jaws opening:	0-50 mm depending on jaw type
Coupling:	Body Af60. Other couplings on request
Grips:	Nickel Plated Steel
Temperature range:	0 +70°C Other temperature ranges on request

Weight: 75 kg for each grip, without jaws

Scope of supply: 1 pair grips (without jaws)



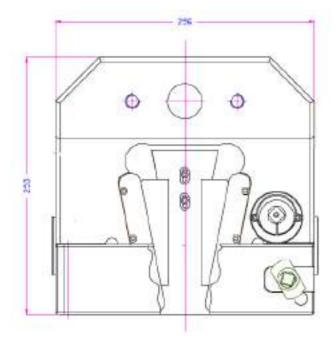


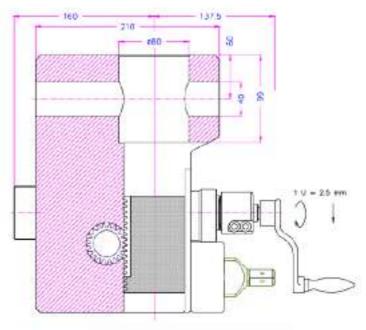




Model	MC/mf-500
Load capacity:	500 kN
Jaws opening:	0-50 mm depending on jaw type
Coupling:	Body Af60. Other couplings on request
Grips:	Nickel Plated Steel
Temperature range:	0 +70°C Other temperature ranges on request
Weight:	100 kg for each grip, without jaws
Scope of supply:	1 pair grips (without jaws)







Examples of customized solutions:



MC/mf-250k Short version



MF/mf-300 with special long adapter to introduce the grips into a Thermal Test Chamber







MC/mf-BV40 For round samples

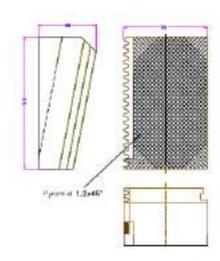
Wedge type	jaws - 60mm clamp width X 110mm clamp height	Clamp surface
MC/mf-BP30	Flat wedge jaws – for flat samples - pyramidal finish (serrated) 1.2 x 45 °, 58 HRC hardened steel - for samples from 0 to 30 mm thick.	60 x 110 mm (height x width)
MC/mf-BP50	Flat wedge jaws – for flat specimens - pyramidal finish (serrated) 1.2 x 45 $^{\circ}$, 58 HRC hardened steel - for samples from 26 to 50 mm thick.	60 x 110 mm (height x width)
MC/mf-BV30	V-jaws – for round samples - Tooth pitch, 1.2 mm, in 58 HRC hardened steel - for samples from \emptyset 6 to 30 mm.	60 x 110 mm (height x width)
MC/mf-BV50	V-jaws – for round samples - Tooth pitch, 1.2 mm, in 58 HRC hardened steel - for samples from Ø 30 to 50 mm.	60 x 110 mm (height x width)
Insert wedge	e jaws	
MC/mf-GT	Insert Jaw Carrier – The advantage is that the jaws can be used from both sides. (Listed below)	
MC/mf-EBP30	Flat Insert Jaws - for flat samples - 1.2×45 ° pyramidal (serrated) finish, 58 HRC hardened steel - for samples from 0 to 30 mm thick.	50 x 100 mm (height x width)
MC/mf-EBP34	Flat Insert Jaws - for flat samples - 1.2×45 ° pyramidal (serrated) finish, 58 HRC hardened steel - for samples from 4 to 34 mm thick.	50 x 100 mm (height x width)
MC/mf-EBP40	Flat Insert Jaws - for flat samples - 1.2×45 ° pyramidal (serrated) finish, 58 HRC hardened steel - for samples from 10 to 40 mm thick.	50 x 100 mm (height x width)
MC/mf-EBP50	Flat Insert Jaws - for flat samples - 1.2 x 45 ° pyramidal (serrated) finish, 58 HRC hardened steel - for samples from 20 to 50 mm thick.	50 x 100 mm (height x width)
MC/mf-EBV32	V-jaws - for round samples - Tooth pitch, 1.2 mm, in 58 HRC hardened steel - for samples from \emptyset 6 to 32 mm.	50 x 100 mm (height x width)
MC/mf-EBV40	V-jaws - for round samples - Tooth pitch, 1.2 mm, in 58 HRC hardened steel - for samples from Ø 12 to 40 mm.	50 x 100 mm (height x width)
MC/mf-EBV44	V-jaws - for round samples - Tooth pitch, 1.2 mm, in 58 HRC hardened steel - for samples from Ø 16 to 44 mm.	50 x 100 mm (height x width)
MC/mf-EBD	Flat insert jaws - for flat samples - diamond coat surface finish	50 x 100 mm (height x width)
MC/mf-EBVD	Insertable V-jaws - for round samples - diamond-coated surface finish	50 x 100 mm (height x width)







MC/mf-BV for testing round samples





MC/mf-GT- Carrier for insert jaws Models MC/mf-EBP & MC/mf-EBV

Examples to customize jaws:



MC/mf-EBV insert jaws for round samples



MC/mf-EBP15-TiNi titanium nitride coating



MC/mf-EBVD24 V-insert jaws diamond covered for round samples



MC/mf-BW35-A28 toothed belt clamps



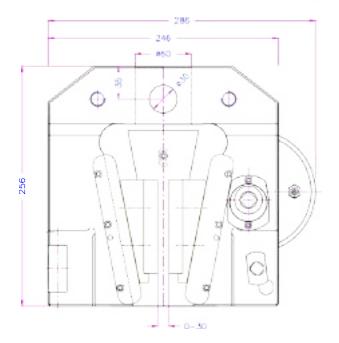
Accessories:

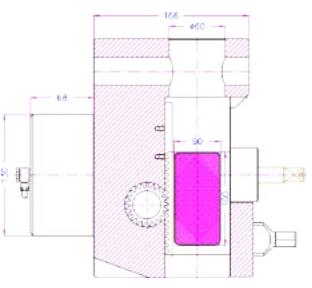


MC/mf-250+Ko

Double acting cylinder Clamping force 12 kN (7 bar) Maximum pressure 15 bar with UN216 compressor

The crank is only for a rough adjustment of the jaw opening





MC/mf-250+Ko+GT+EBP



Jaws for grips MC/mf: Scope of supply: 1 Set = 4 jaws Opening for jaws BP = 0-30mm

Insert Jaws

MC/mf-EBV35

Insertion jaws for round samples up to 35mm in diameter and **usable on** both sides





MC/mf-GT Carrier for grips MC/ mf-EB Jaws GT + EBP + EBV









MC/mf-100-Ni

MC/mf-100-Ni Nickel Coated



MC/mf-300

With special adapter for use inside thermal test chambers



MC/mf-250+Ko

Pneumatic version



Stopper for MC-mf series adjustable



Grip MC-mf with lower bar bending test fixture coupled

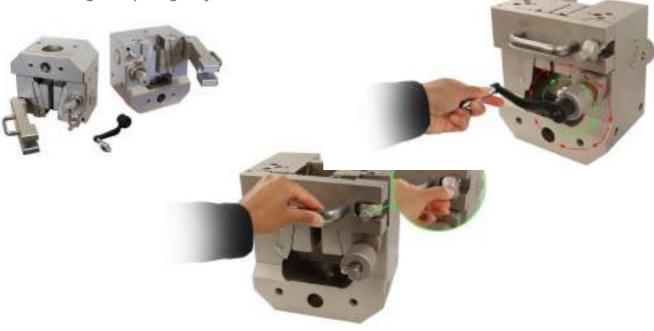


Grip MC-mf with attached compression plate





Closing and opening the jaws with a crank:





Recommended Testing Machines:



MTE-5 (to 5 kN)



MTE-25 (to 25 kN)



MTE-50 (to 50 kN)



MTE-100 (to 100 kN)



MTE-400 (to 400 kN)



MTE-300 (to 300 kN)