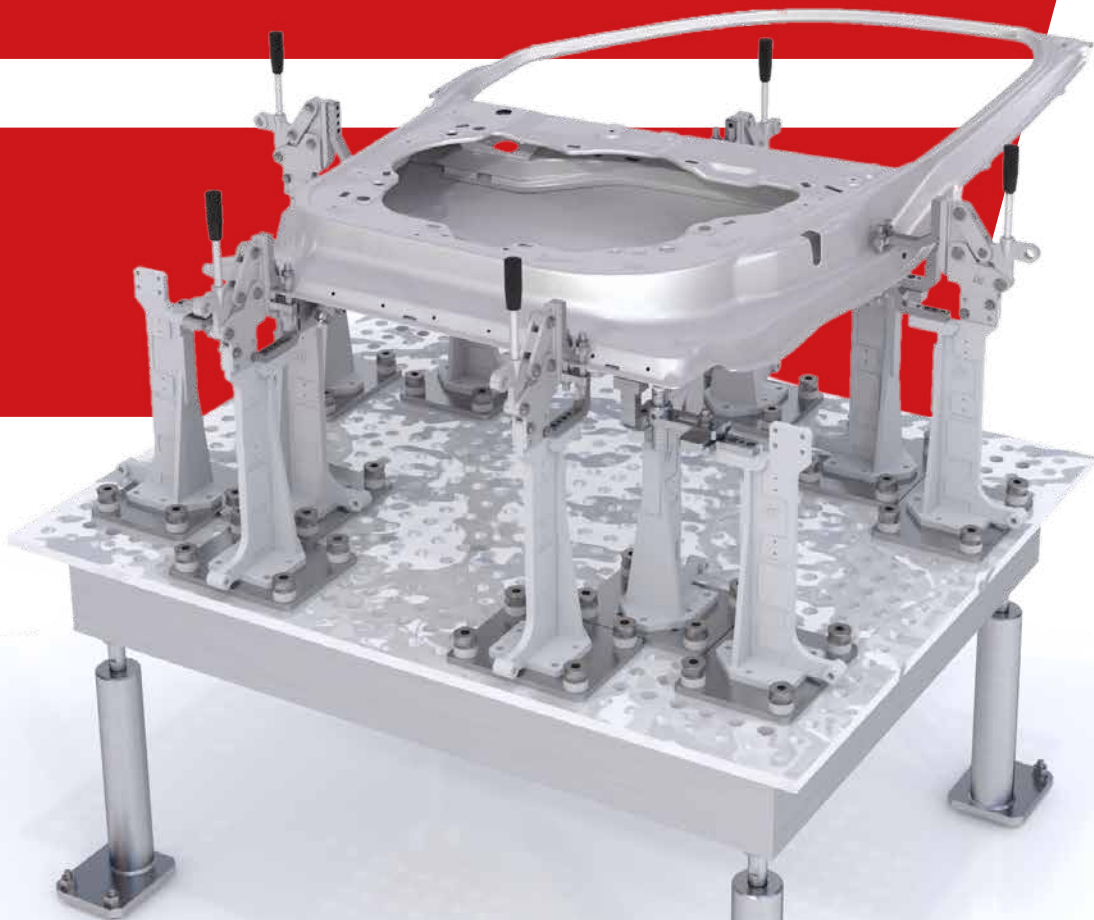




SIMPRO

Clamping Systems

HIGH-PRECISION AND HIGH-RELIABILITY
PATENTED CLAMPING TECHNOLOGIES








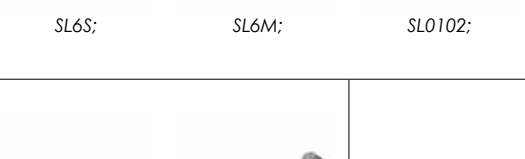

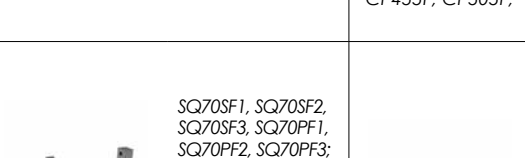
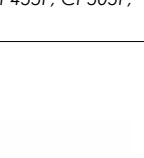









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sales@simpronet.com

+39 011 9179 311

Manual Clamps	Male Coupling	 <p>MBSF; MBMF; MBF;</p>	 <p>B3150, B3250, B3350, B3450, B3550, B3650, B3750, B3850; B4150, B4250, B4350, B4450, B4550, B4650, B4750, B4850;</p>		
	Female Coupling	 <p>MSHF; MMHF; MF;</p>	 <p>CP355F, CP405F, CP455F, CP505F;</p>		
	Slide-Type Units	 <p>SL6S; SL6M; SL0102;</p>			
	Spare Parts	 <p>90ADG08, 90ADG11, 90ADG16; STOPG08, STOPG11;</p>			
Automatable Clamps	Female Coupling	 <p>IMHF; IF; CP355F, CP405F, CP455F, CP505F; FSC;</p>			
	General Accessories & Spare Parts	 <p>SQ70SF1, SQ70SF2, SQ70SF3, SQ70PF1, SQ70PF2, SQ70PF3; SQ90SF1, SQ90SF2, SQ90SF3, SQ90PF1, SQ90PF2, SQ90PF3;</p>	 <p>SP7005, SP7010, SP7015, SP7020, SP7030; SP9005, SP9010, SP9015, SP9020, SP9030;</p>	 <p>BBS, BBN, BBM; KRS, KRM, KRN;</p>	
Gripper	 <p>GRSC90M;</p>	 <p>GSP450S, GSP451, GSP452, GSP453, GSP350S, GSP351, GSP352, GSP353, GSPAM5, GSPAM6;</p>	 <p>GSQ65AC, GSQ65AL, GSQ50AC, GSQ50AL;</p>	 <p>KRS; WCP32-70; MEC-IND6R, MEC-IND6A;</p>	
	Complete Units	 <p>MCP355F, MCP405F, MCP455F, MCP505F;</p>	 <p>ICP355F, ICP405F, ICP455F, ICP505F;</p>	 <p>PCP355FEW, PCP405FEW, PCP455FEW, PCP505FEW;</p>	 <p>PCP355F2W, PCP405F2W, PCP455F2W, PCP505F2W;</p>



**CLICK
& BUY**

All products are available
on **e-commerce** (more info p. 43)

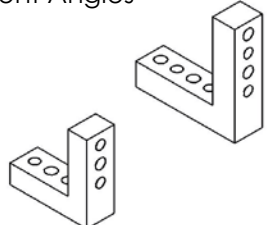


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Gripper	32
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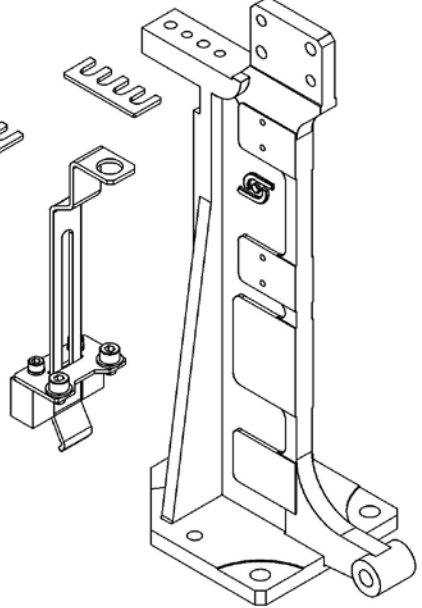
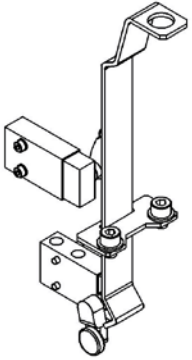
Automatable Clamp

Manual Clamp

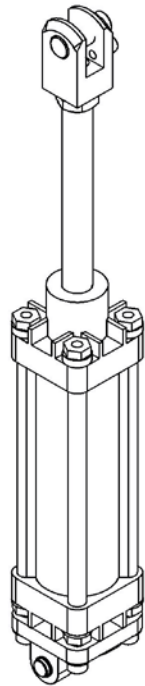
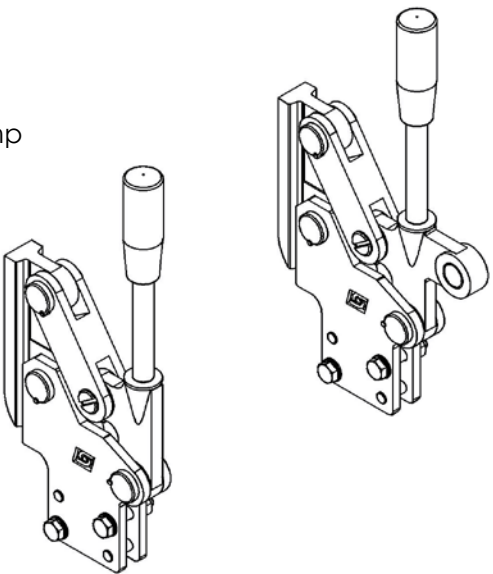
Adjustment Angles



Shims



Riser



Position Controls:
- electric
- pneumatic

DRIVE for automatable clamp:
- pneumatic (ISO cylinder)
- electromechanical

Introduction

SIMPRO GROUP

Founded in **1986**, SIMPRO S.p.A. embarked on a path of continuous growth until obtaining an international reputation and trust of **the most important car manufacturers worldwide**. Today, it cooperates with them providing smart solutions and highly efficient products.

Over the years, Simpro has increased and consolidated its international presence through production plants and branches located in Italy, USA, Brazil, India and China, supplying **more than 400 installations** all over the world, and gaining a reputation of **reliability**, won day by day in the field through smart **tailor-made** project solutions, developed with the best accuracy and carefully followed also during the **post-installation** phases (assistance, staff training, maintenance and supply of spare parts).

Being specialized in assembly, welding and fitting equipment, car body protective application systems as well as complete systems for cold/hot engine testing, Simpro is the **high-technology partner** capable of supplying integrated systems and cutting-edge engineering solutions.

CLAMPING SYSTEMS

The thirty-year experience of Simpro in assembling and welding body parts has brought about the development, standardization and industrialization of **high-precision and high-reliability patented clamping systems** for their use on car body metal panels. These are characterized by a simple architecture for the greatest overall dimension reduction, as well as by a high **versatility** and **applicability**. Manufactured with the utmost **accuracy**, they are controlled by pneumatic or inductive sensors for a manual, pneumatic or

electromechanical handling.

They are guaranteed for two years and manufactured in compliance with the regulations in force; they are delivered with a **CE marking** and with the relevant instruction manuals. Thanks to the standardization of its production, Simpro can ensure a **short procurement time**.

A quick assembly and a wide range of accessories allow Simpro to have several different solutions enabling the customer to choose the most suitable combination for his own production process in a fully autonomous manner.

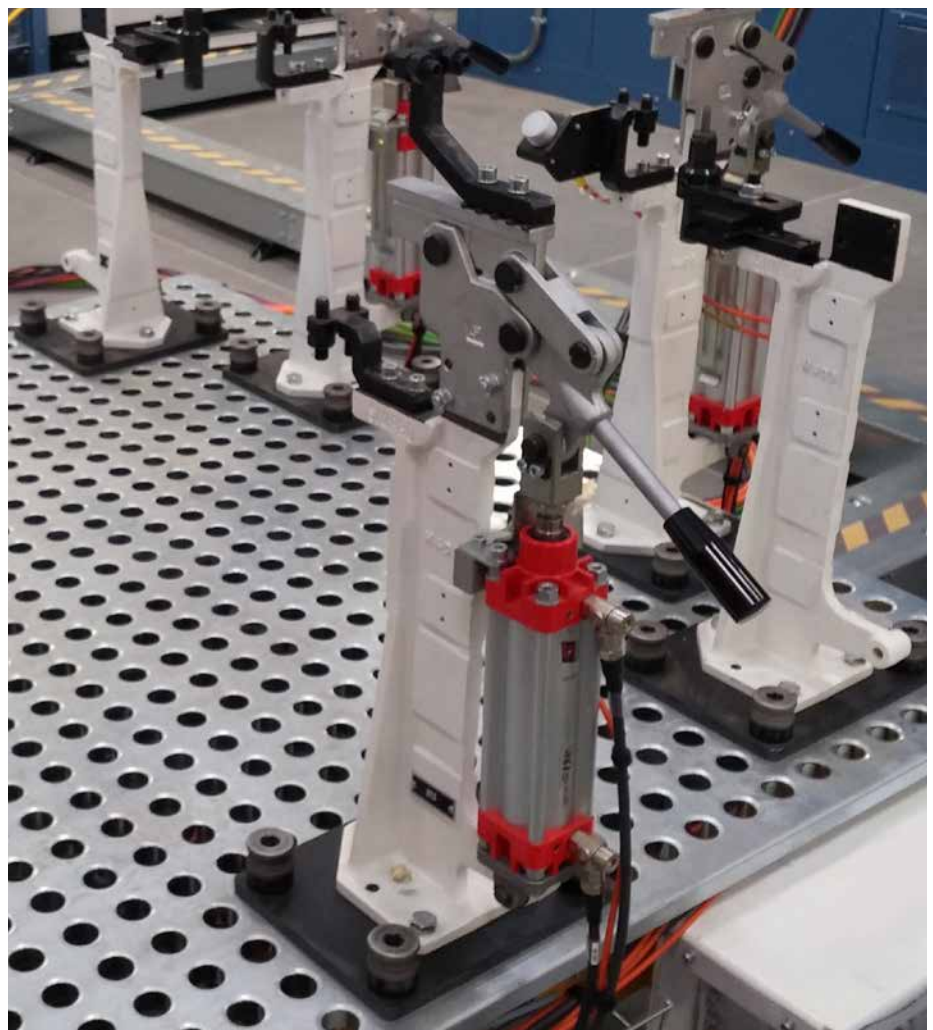
The **Quality and CE-marking Services** jointly support the activity progress, by respecting the internal procedures and by drawing up any documentation accompanying

the equipment (user's manuals, reports, certifications). All activities are controlled by the **environmental management systems**, which monitor and control the production impact on the environment.

FIXED AND SLIDING CLAMPS

Patented and manufactured in **hot-forged steel C30**, they are designed to guarantee an irreversible and precise clamping as well as a high resistance to repeated movements.

The stress and the take-up of slacks are therefore optimized by means of a specific **eccentric pin** capable of ensuring the correct functionality of the product for **over three million cycles**.



The pin housings, being subject to the highest wear, are provided with **bushes** that can be replaced, if necessary, to keep the system operation as constant and efficient as possible.

The used surface treatment is **Geomet**, a thin grey coating consisting of lamellar zinc and aluminium, **100% chrome free**. The main advantages of such a treatment are:

- high resistance to corrosion by atmospheric and chemical agents;
- friction reduction between the contact surfaces;
- holding of its properties up to a temperature of 300°C.

SUPPORTS

The two main versions, with three or four feet, are the result of **EN-GJS 400 nodular iron castings**: they are available in different sizes and ready to fit. Their major advantages are:

- very good resistance to atmospheric corrosion, higher than carbon steel;
- great resistance to oxidation, higher than lamellar cast iron;
- excellent resistance/weight ratio;
- perfect combination between tension and stretch properties.

ACCESSORIES

The accessories supplied with the a.m. devices allow:

- the utmost accuracy in assembling and adjusting the clamping units on the fixtures;
- piping, wiring and automatization of the same clamping units;
- a level of maintenance capable of increasing still further the lifetime of these products.

SIMPLE TECHNOLOGY

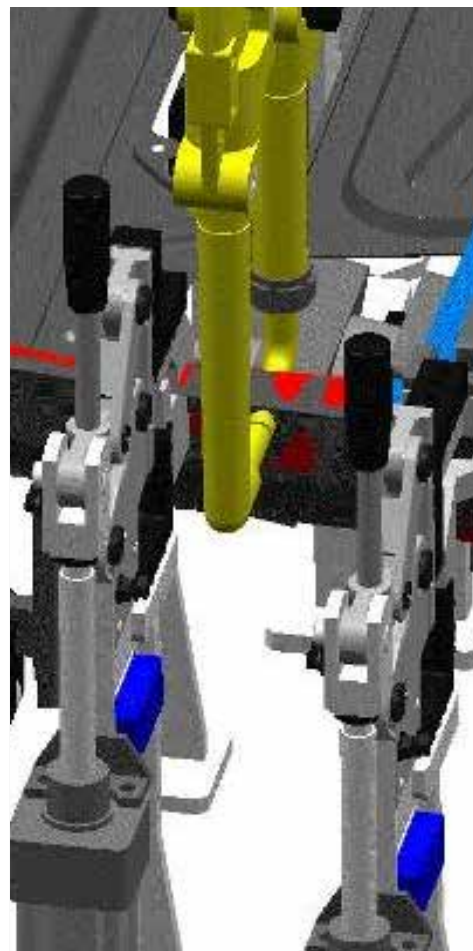
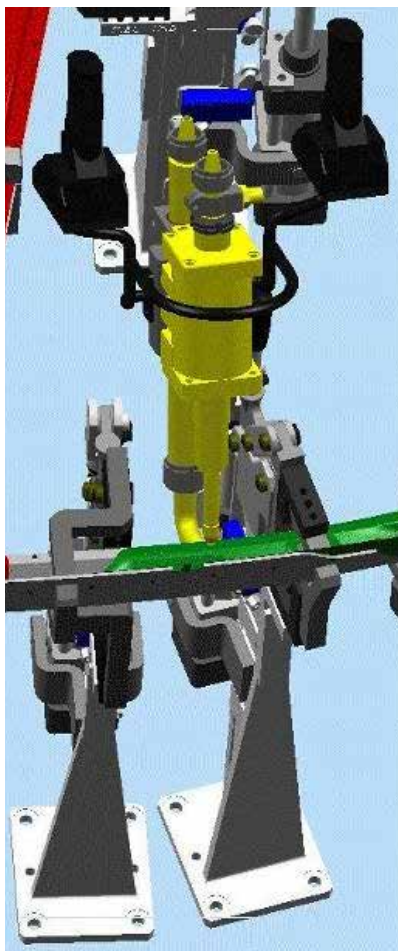
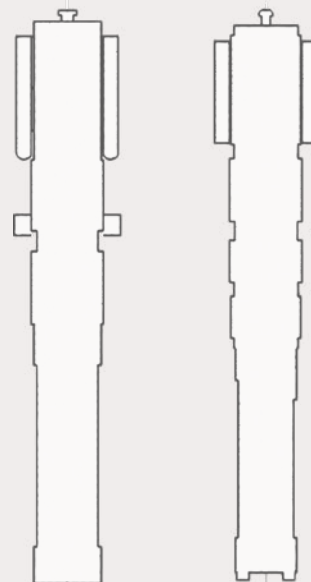
The fixed and sliding clamps manufactured by Simpro are operated through a **simple toggle lever system** and are designed to have the **least possible number of mechanical parts**. Less parts means a smaller possibility of imperfections, faults and unexpected maintenance. Once variables are minimized, the system has proven to

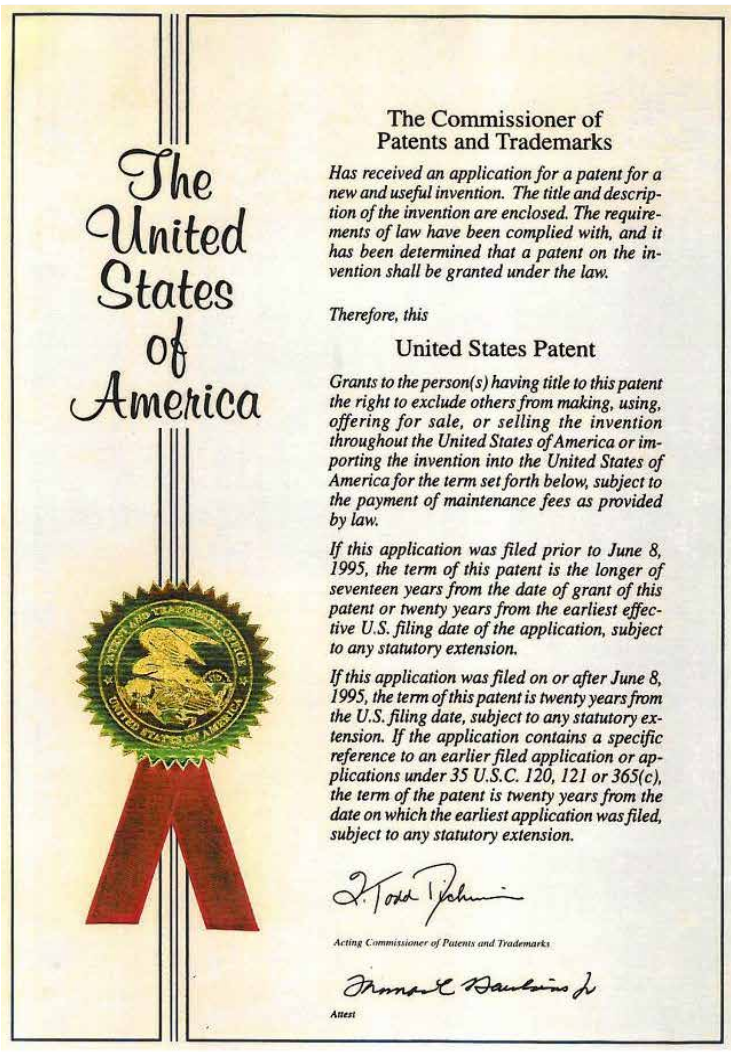
Simpro's clamping systems provide the thinnest possible profile for welding system, with clamping points very close to one another without hindering the welding gun accessibility.

 **SIMPRO Clamps**
38 mm width



Market Clamps
65-75 mm width





be extremely robust and reliable.

EASY MAINTENANCE

The fixed and sliding clamps manufactured by Simpro have been designed with particular respect to maintainability. The disassembly, cleaning, replacement of any worn out parts, reassembly and adjustment require a short time and a few standard tools available in every workshop. This enables you to avoid long and costly process interruptions.

ADAPTABILITY AND FLEXIBILITY

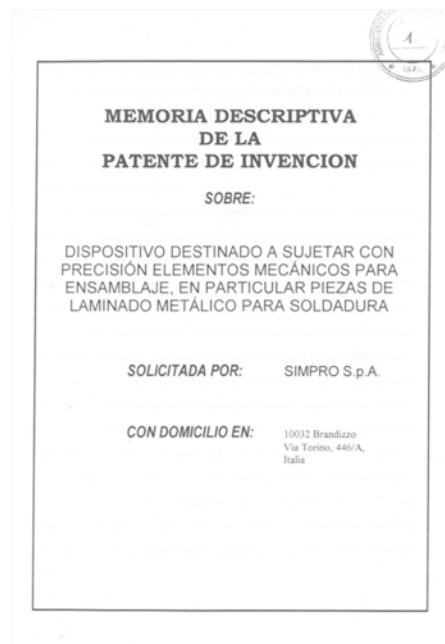
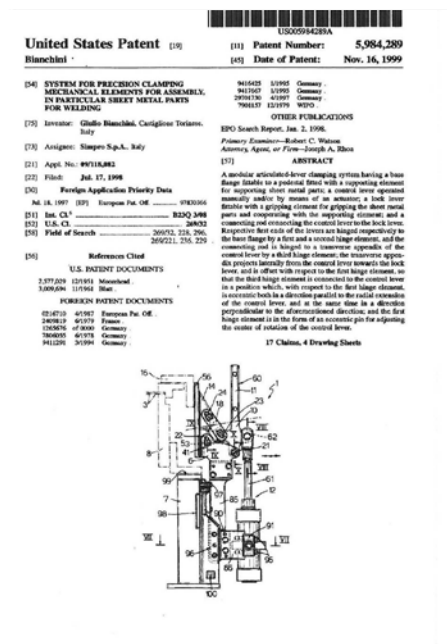
Simpro clamping systems easily fit **any production process** required to **clamp and secure solid parts** (metal, plastic or wood) for specific machining operations and treatments.

On the one hand, the **high adaptability to automation** makes Simpro products easily usable in a high-automated production system for **big production lots** – whether they are mass productions, where precision is accompanied with a high resistance to repeated movements, or miscellaneous productions requiring a great **flexibility** of the automatic tools.

On the other hand, Simpro devices, characterized by a considerable cost saving as well as by a very good quality, are perfect for **prototype productions** where **maneuverability** and **precision** are essential attributes.

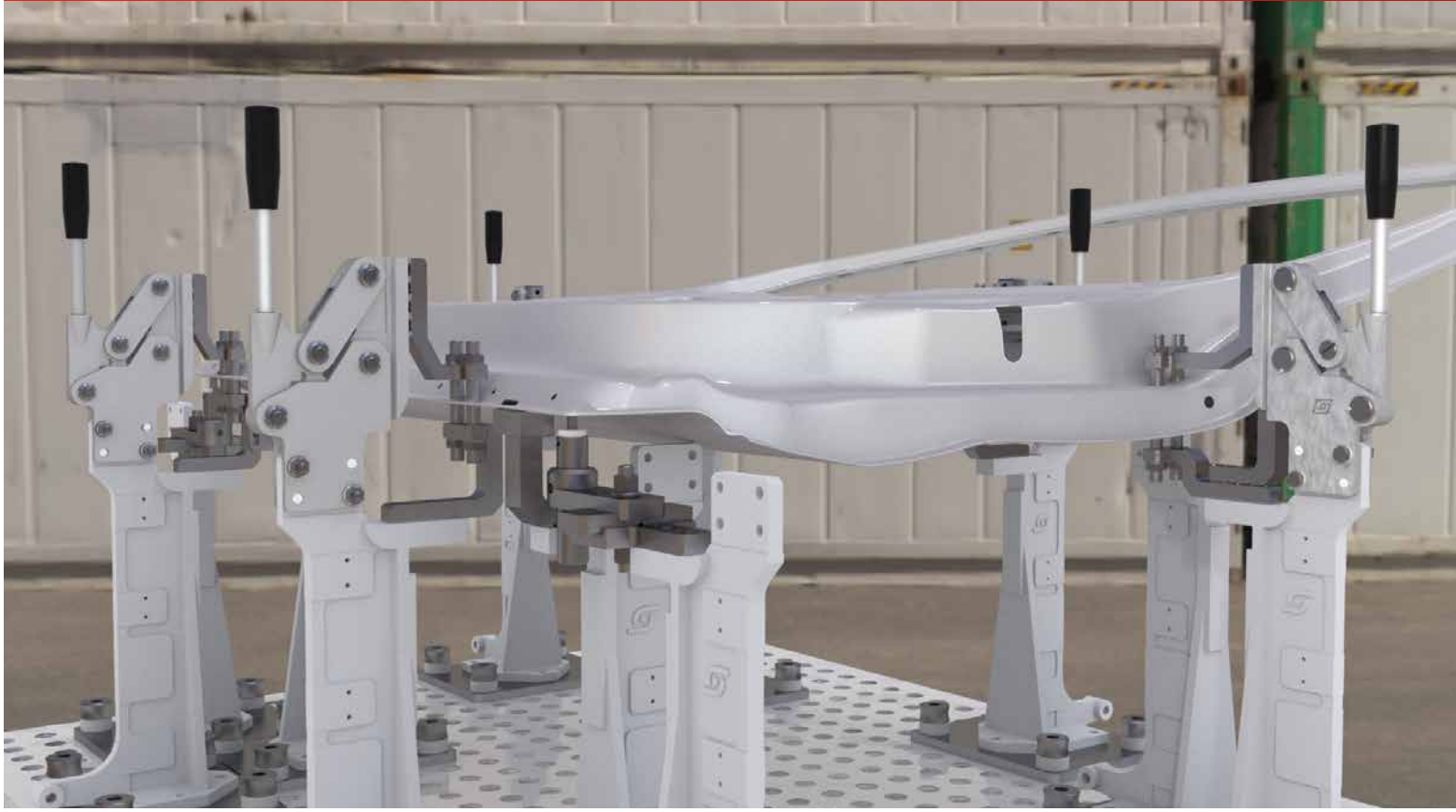
PATENTS

SIMPRO clamps are protected all over the world by **international patents**, guaranteeing uniqueness and preventing unauthorized reproduction.





Manual Clamps



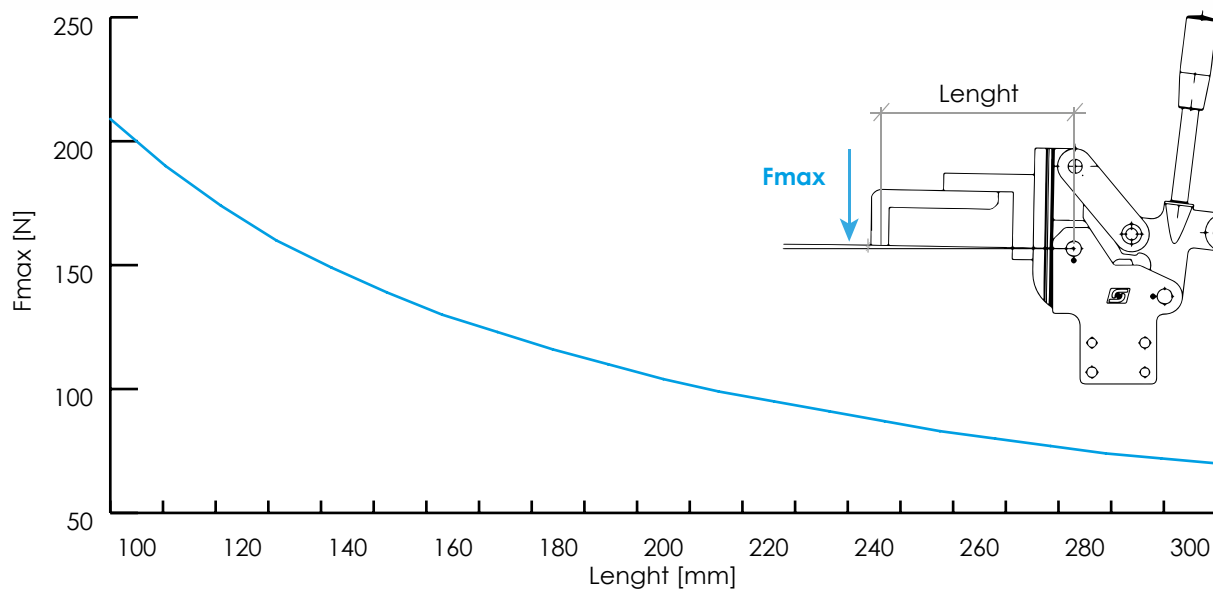
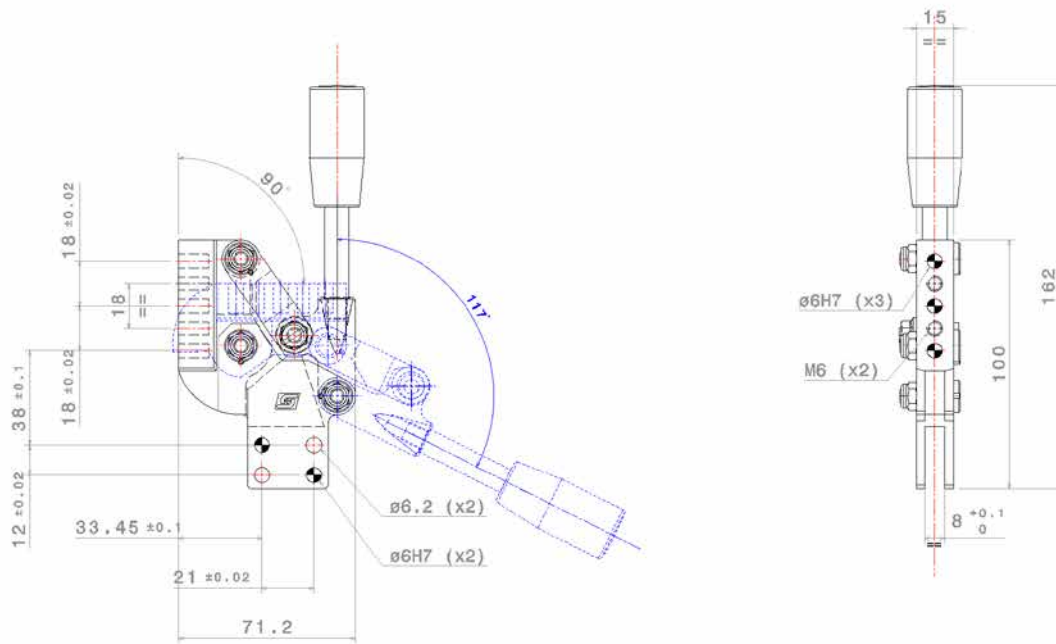
CLAMPS

- Versions with female and male coupling
- Steel version produced by hot-forging
- Geomet surface protection treatment
- Modular bores for adjustment angle fastening
- Eccentric bolt for calibration and clearance regeneration
- Opening angle 90°

RISERS

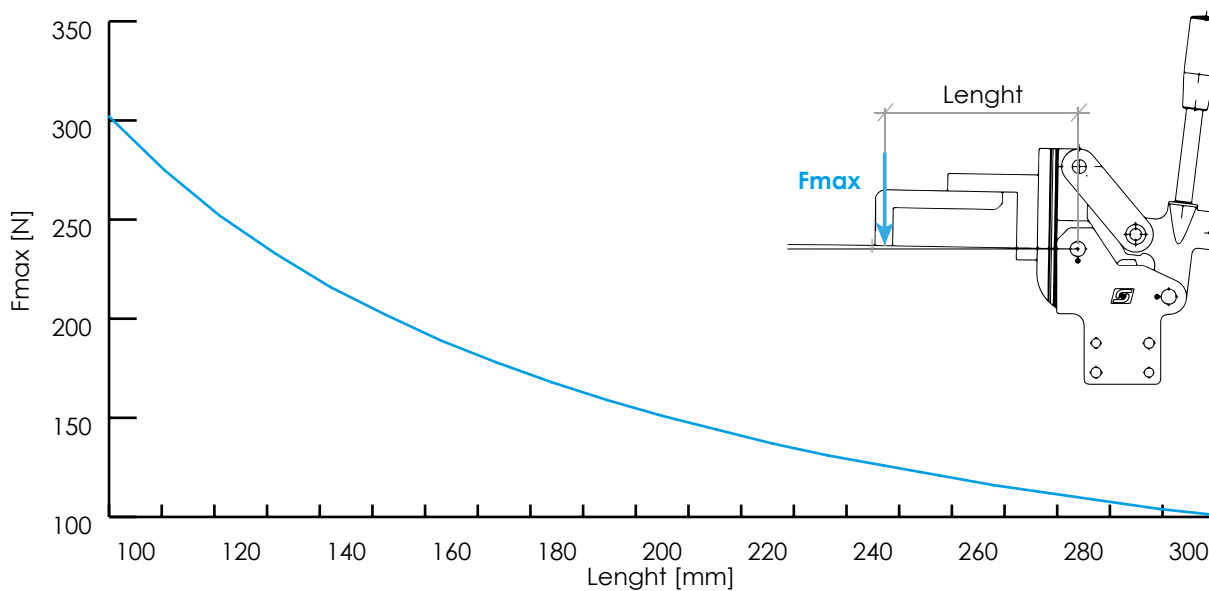
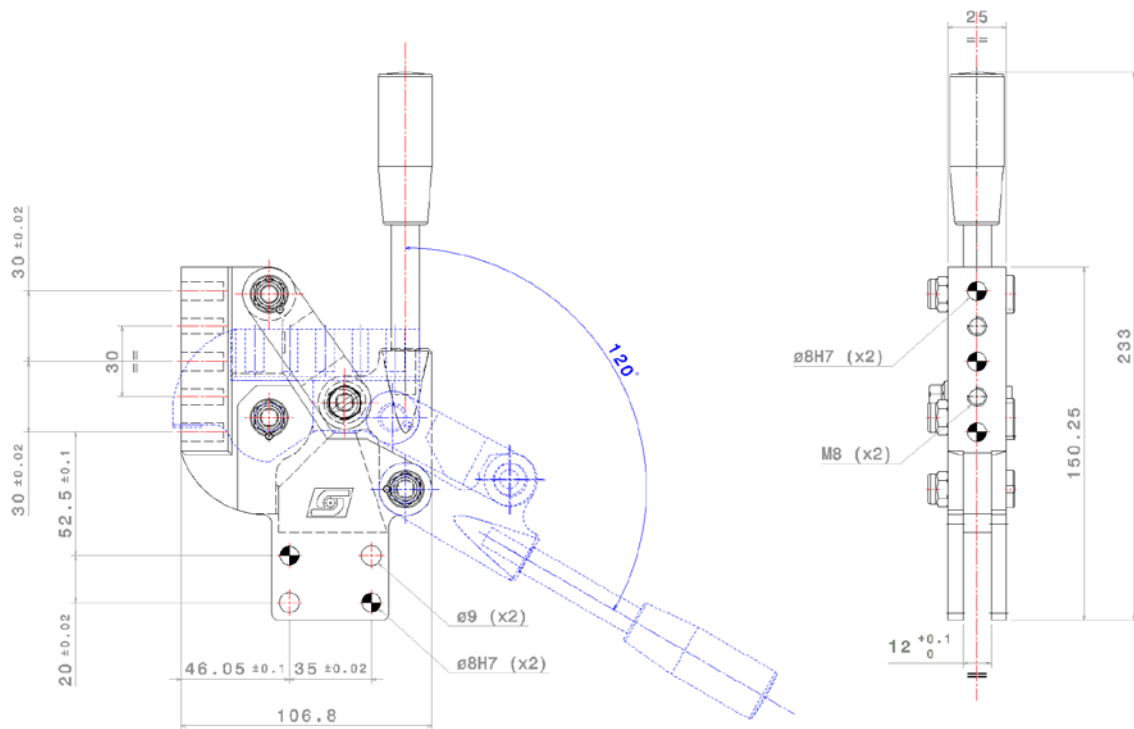
- Cast-iron version produced by casting
- Nodular cast iron EN-GSJ400
- Modular bores for adjustment angle surface fastening and assembly
- As for cast-iron version, treated with prime coat of paint (rust protection)
- RAL painting on demand

Series	Manual
Type	Female Coupling
Size	Small
Code	MSHF
Weight	0.6 kg
Holding Force	230 kg
Max. torque by weight	2 N.m

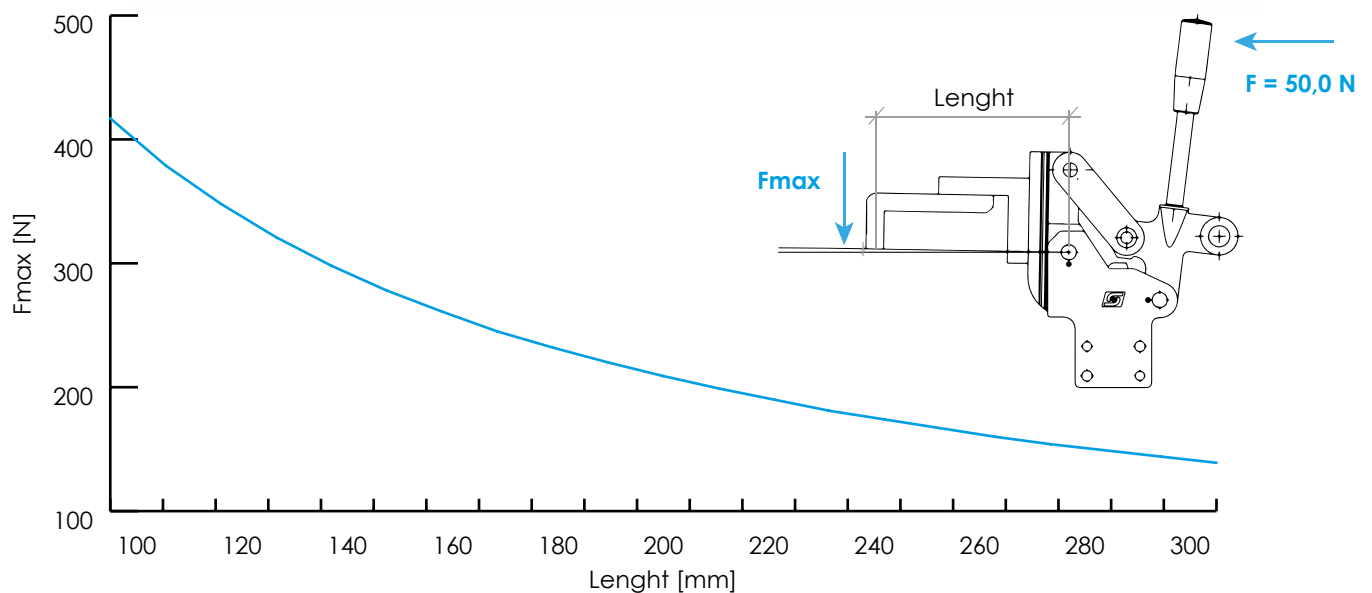
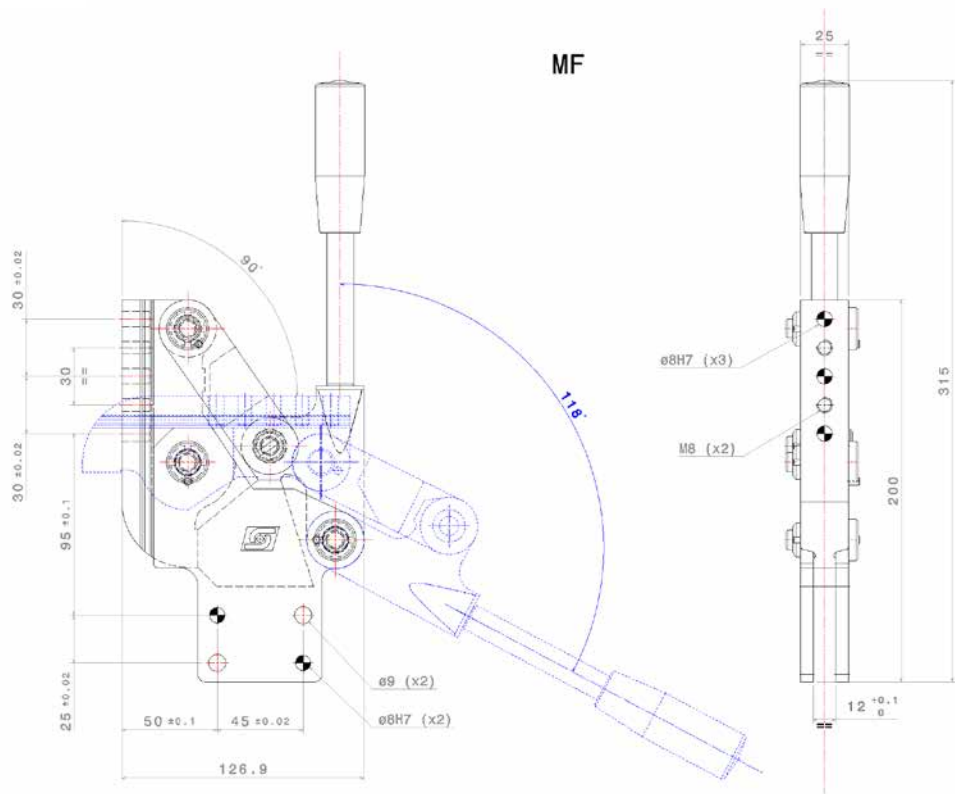


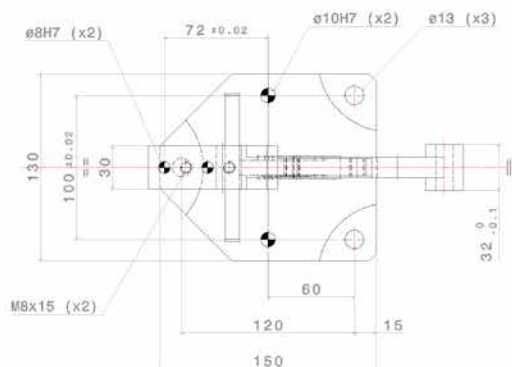
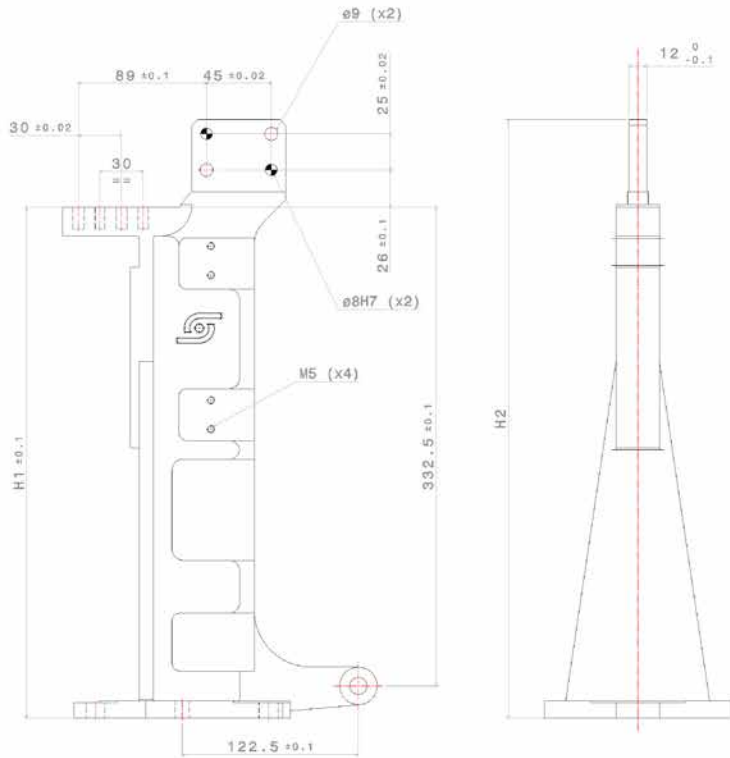
**Manual
Female Coupling
Medium
MMHF
1.9 kg
700 kg
2.5 N.m**

Series
Type
Size
Code
Weight
Holding
Force
Max. torque
by weight



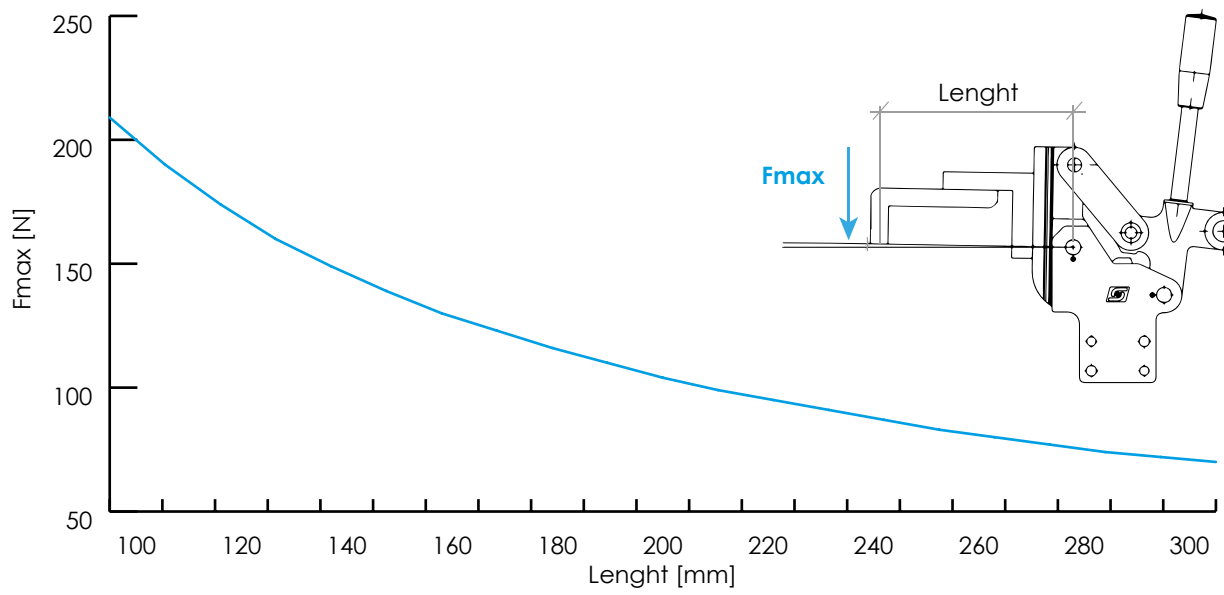
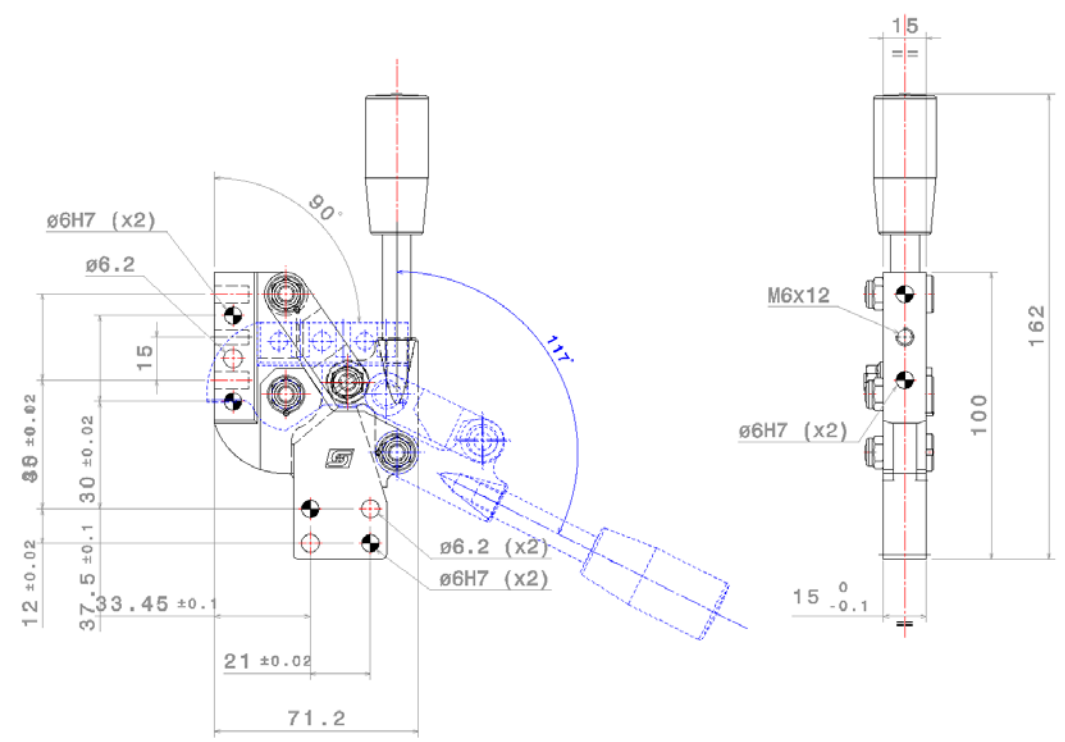
Series	Manual
Type	Female Coupling
Size	Normal
Code	MF
Weight	3.0 kg
Holding Force	700 kg
Max. torque by weight	3 N.m





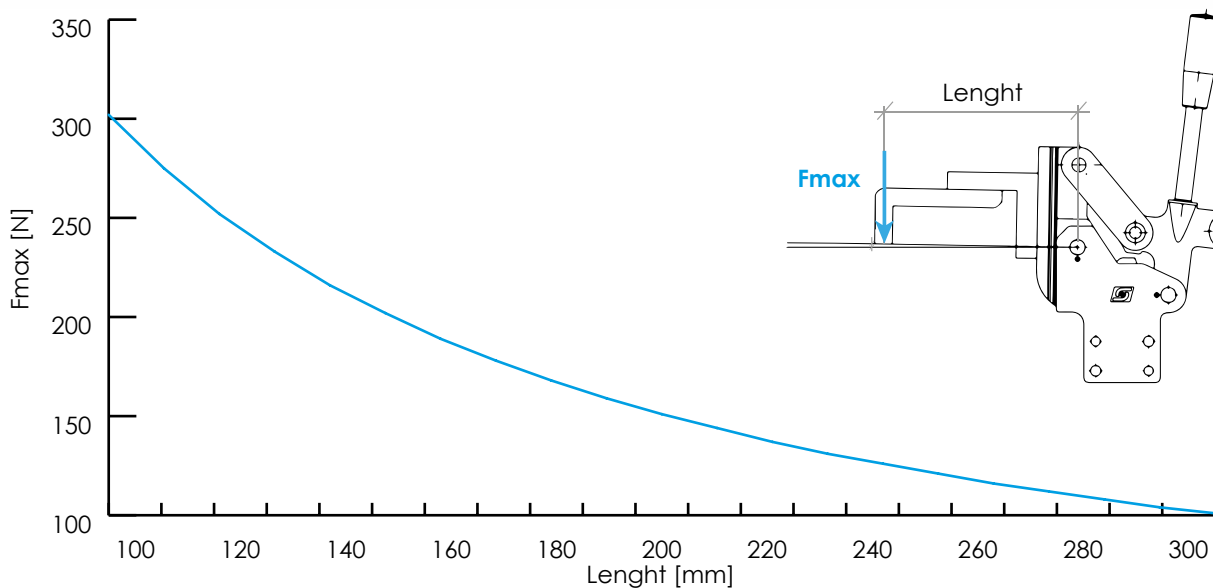
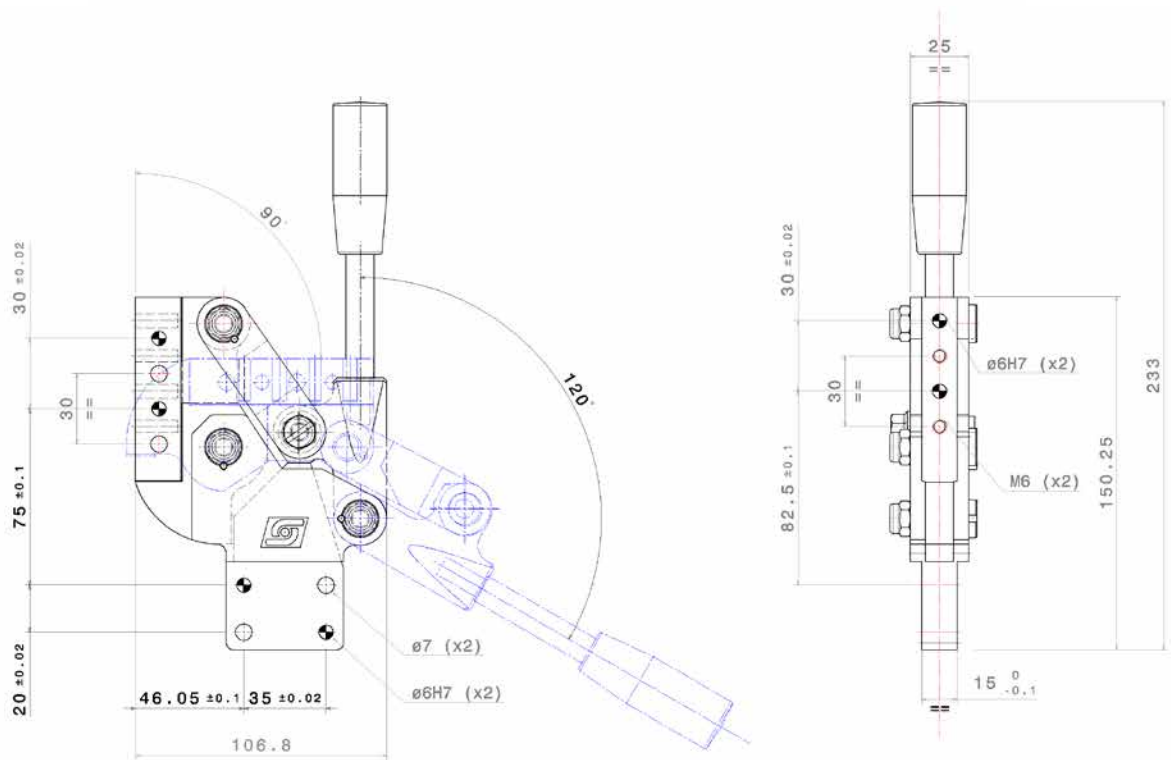
Code	H1 [mm]	H2 [mm]	Weight [kg]
CP355F	355	416	6.8
CP405F	405	466	7.3
CP455F	455	516	7.9
CP505F	505	566	8.4

Series	Manual
Type	Male Coupling
Size	Small
Code	MBSF
Weight	0.6 kg
Holding Force	230 kg
Max. torque by weight	2 N.m



**Manual
Male Coupling
Medium
MBMF
1.9 kg
700 kg
2.5 N.m**

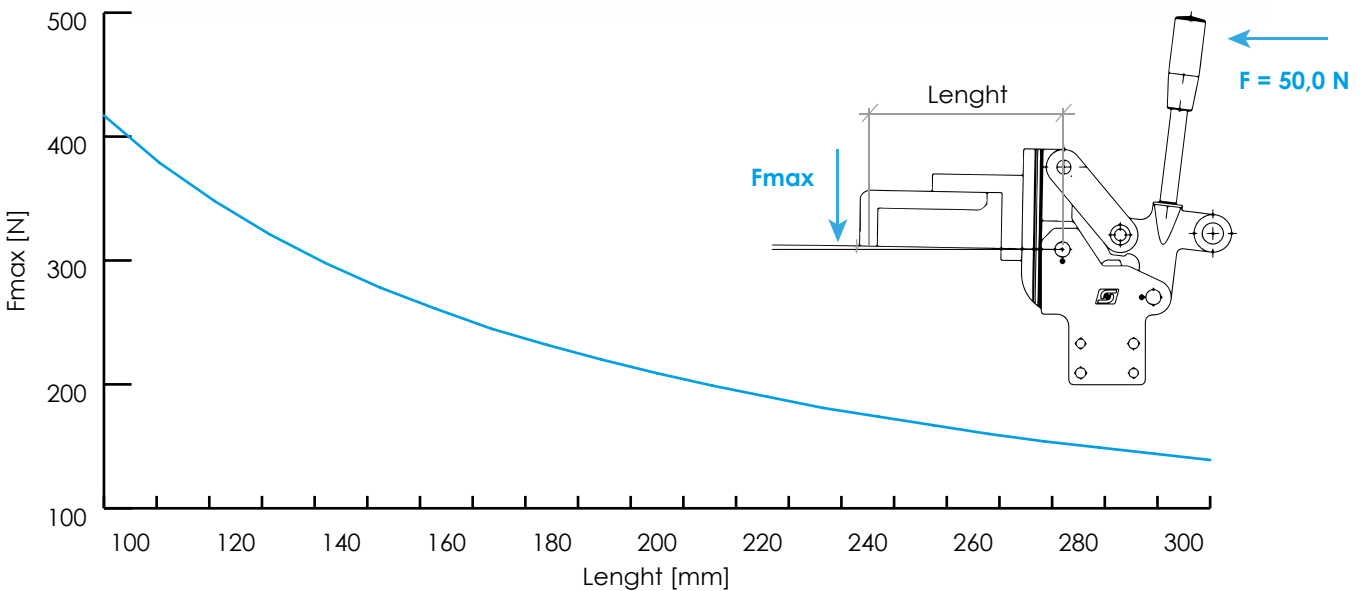
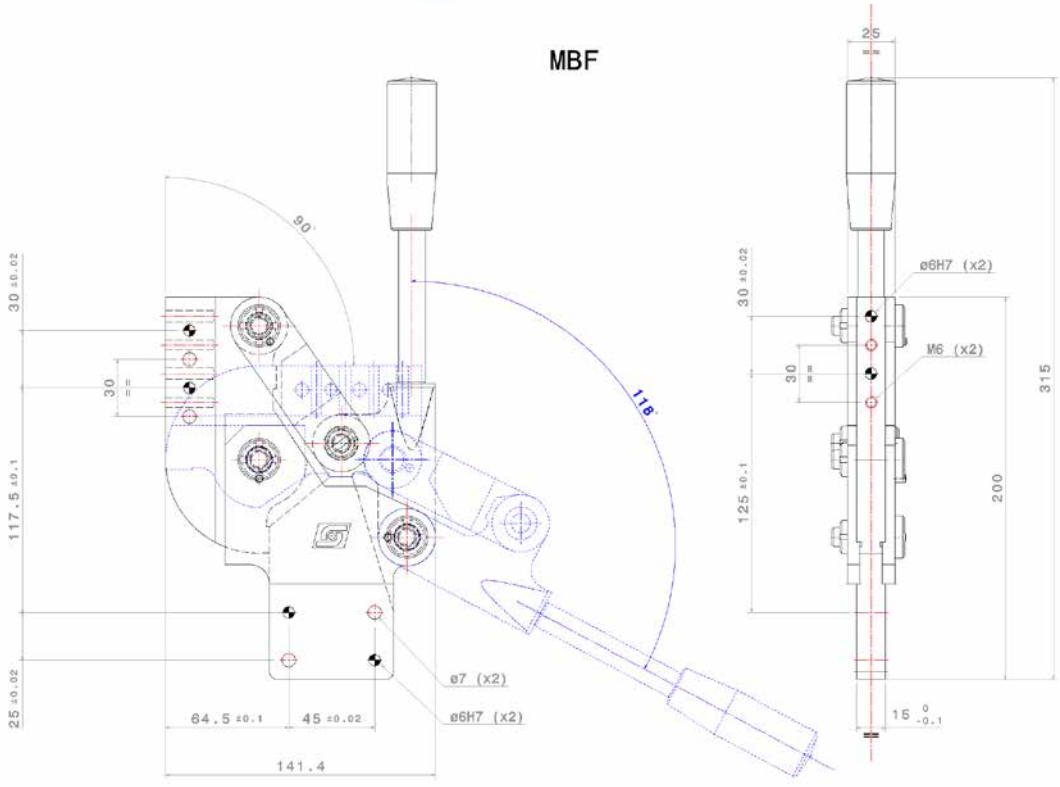
Series
Type
Size
Code
Weight
Holding
Force
Max. torque
by weight



Series	Manual
Type	Male Coupling
Size	Normal
Code	MBF
Weight	3.0 kg
Holding Force	700 kg
Max. torque by weight	3 N.m

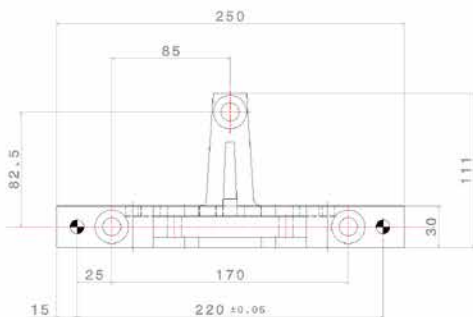
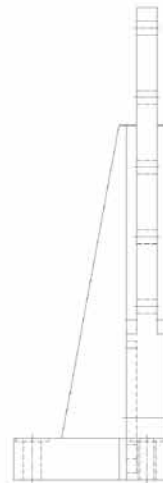
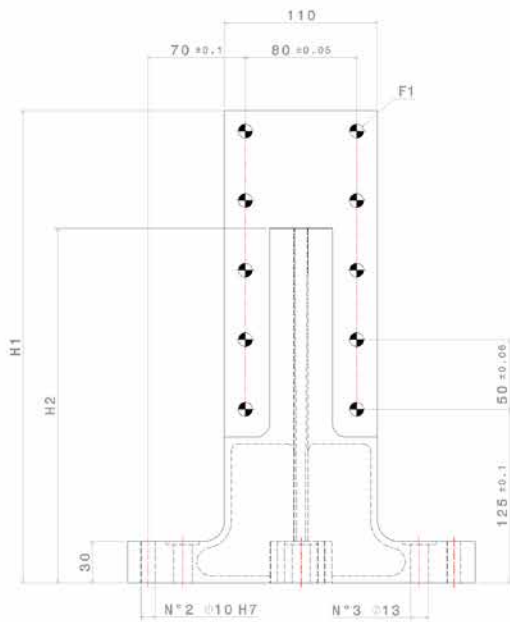


MBF



Manual Series
Asymmetric Type
3-leg riser

Products supplied with
 burnishing treatment



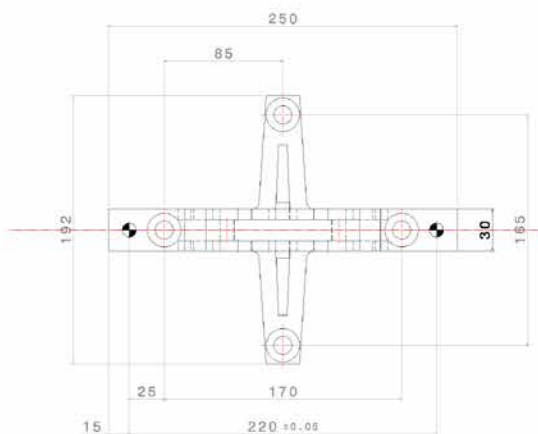
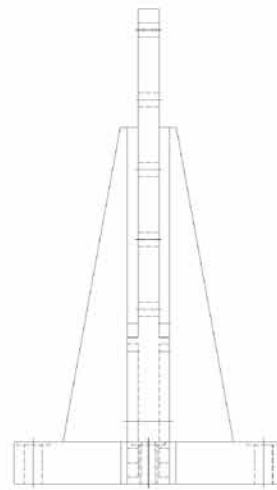
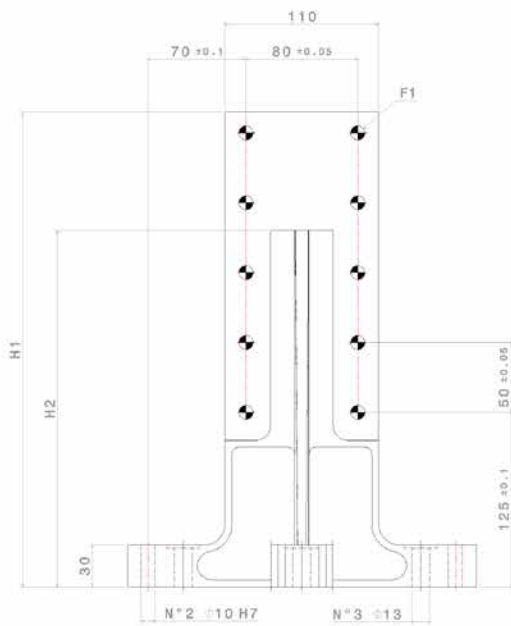
Code	H1 [mm]	H2 [mm]	F1 no. (∅ 10H7)	Weight [kg]
B3150	140	-	4	3.7
B3250	240	155	6	5.3
B3350	340	255	10	7.8
B3450	440	355	14	9.8
B3550	540	455	18	11.7
B3650	640	555	22	13.3
B3750	740	655	26	15.3
B3850	840	755	30	17.2

Series
Type

Manual

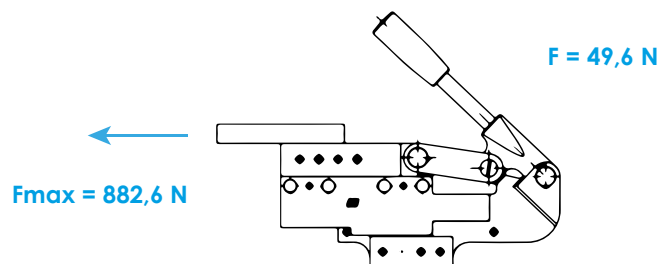
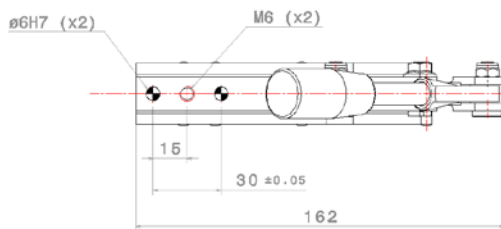
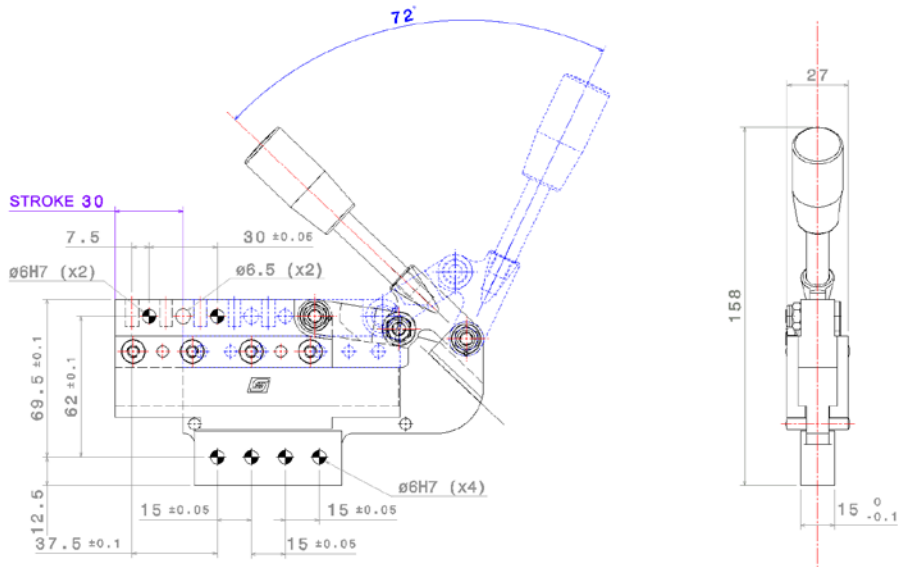
**Asymmetric
4-leg riser**

Products supplied with
burnishing treatment

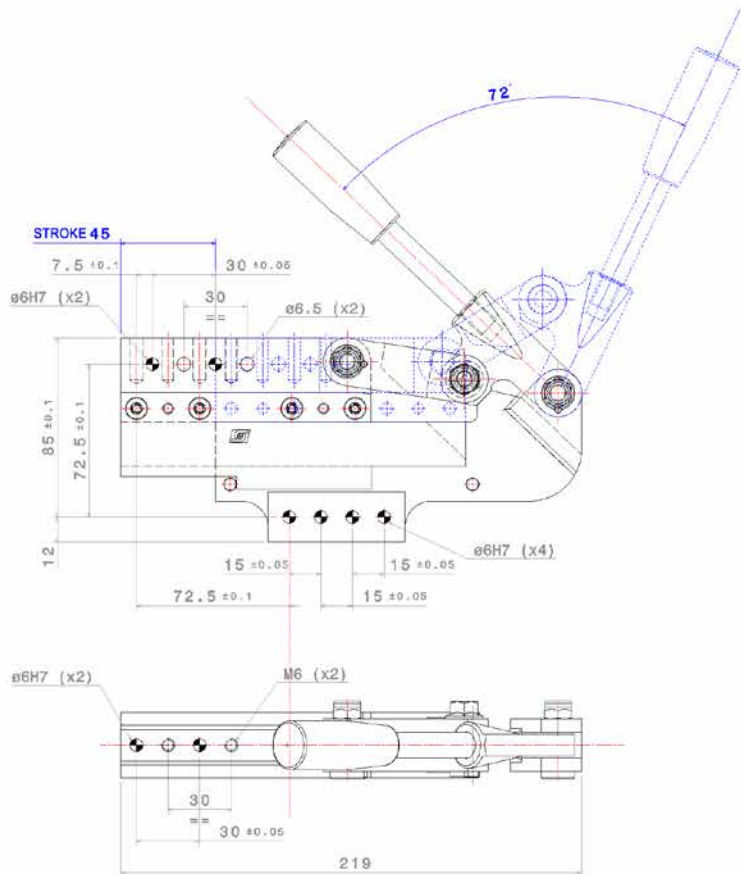


Code	H1 [mm]	H2 [mm]	F1 no. (Ø 10H7)	Weight [kg]
B4150	140	-	4	4.0
B4250	240	155	6	6.1
B4350	340	255	10	8.2
B4450	440	355	14	10.3
B4550	540	455	18	12.7
B4650	640	555	22	14.8
B4750	740	655	26	17.0
B4850	840	755	30	19.2

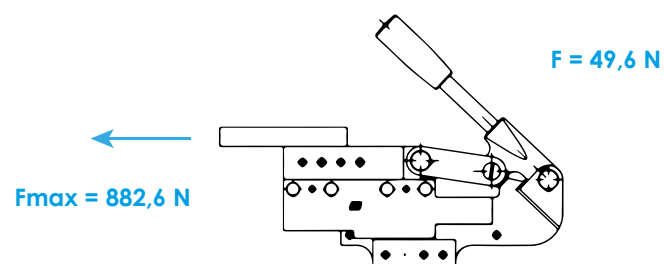
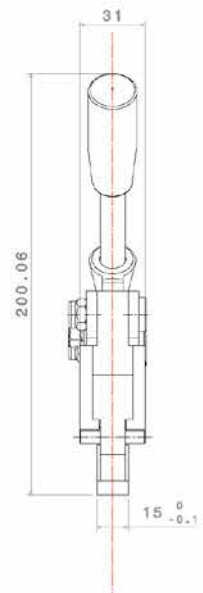
Manual	Series
Slide-Type	Type
Small	Size
SL6S	Code
1.5 kg	Weight



Series **Manual**
 Type **Slide-Type**
 Size **Medium**
 Code **SL6M**
 Weight **3.0 kg**



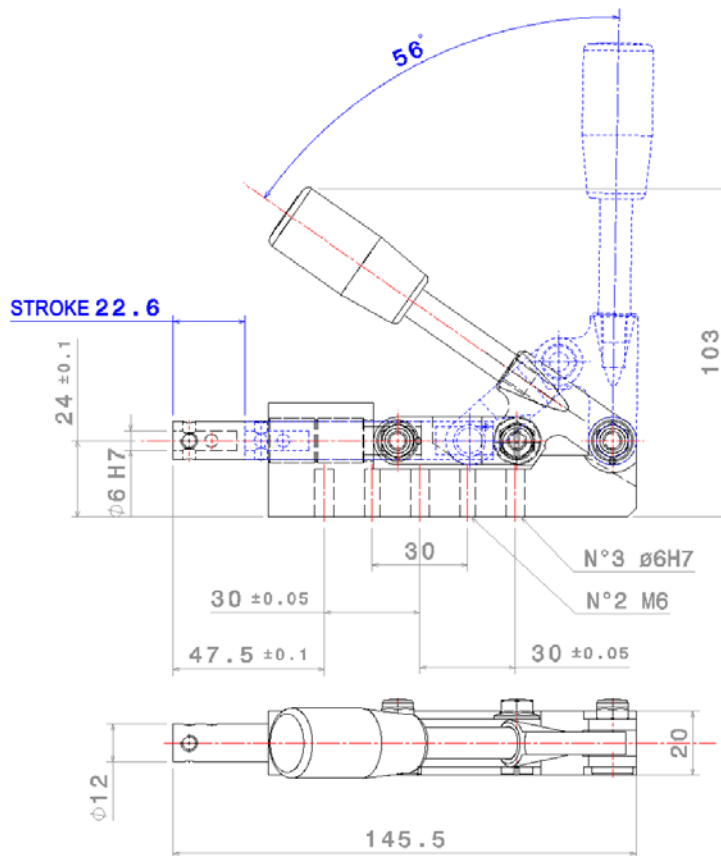
SL6M



Manual
Slide-Type
(centering)

Small
SL0102
0.6 kg

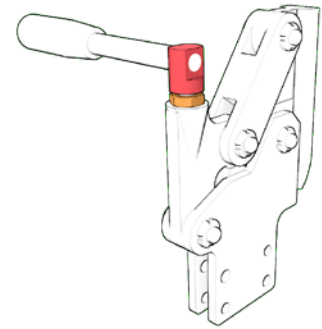
Series
Type
Size
Code
Weight



Series **Manual**
Type **90° adapter**



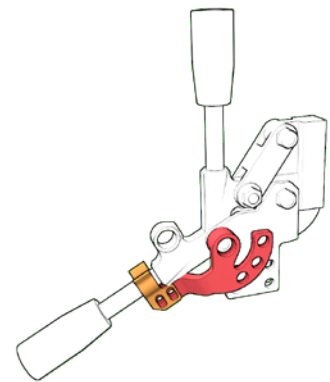
Code	90ADG08	90ADG16	90ADG11
Handle coupling	BBN	BBM	BBS



Series **Manual**
Type **Stopper**



Code	STOPG11	STOPG08
Handle coupling	BBS	BBN



Automatable Clamps



CLAMPS

- Versions with female coupling
- Steel version produced by hot-forging
- Geomet surface protection treatment
- Modular bores for adjustment angle fastening
- Eccentric bolt for calibration and clearance regeneration
- Opening angle 90°

RISERS

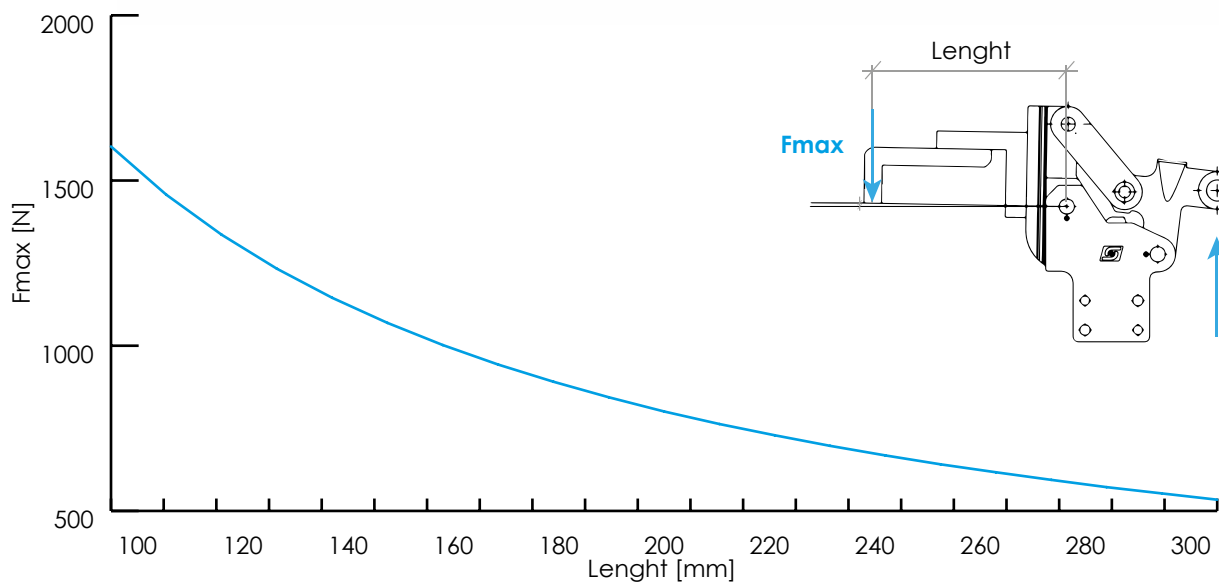
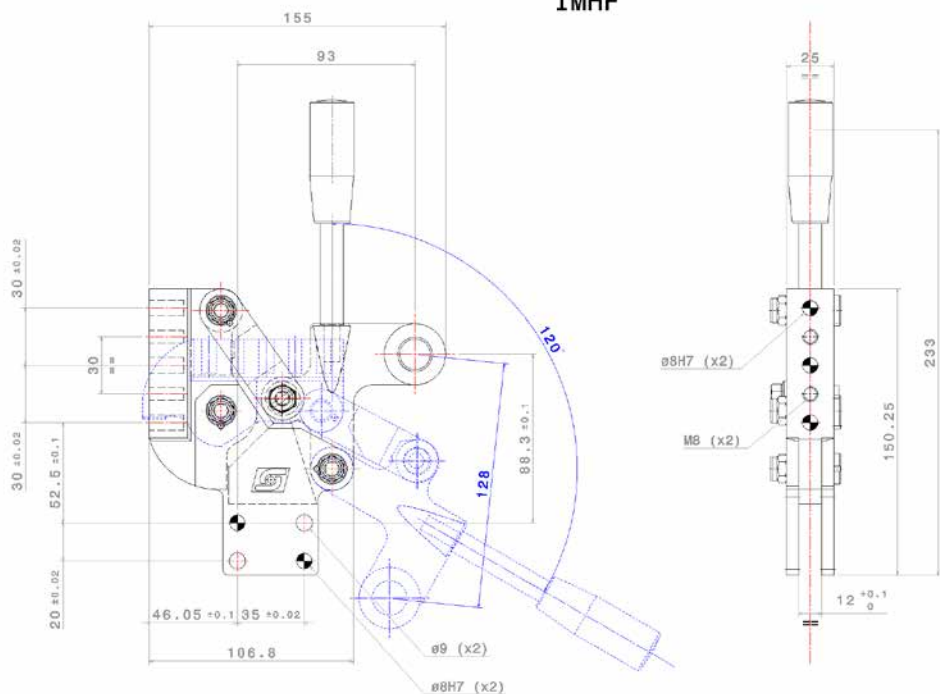
- Cast-iron version produced by casting
- Nodular cast iron EN-GSJ400
- Modular bores for adjustment angle surface fastening and assembly
- As for cast-iron version, treated with prime coat of paint (rust protection)
- RAL painting on demand

Series
Type
Size
Code
Weight
Holding Force
Max. torque by weight

Automatable
Female Coupling
Medium
IMHF
2.0 kg
700 kg
2.5 N.m



IMHF



*Force graph for pneumatic application. Look at page 11 for manual application values.

**Automatable
Female Coupling**

Normal

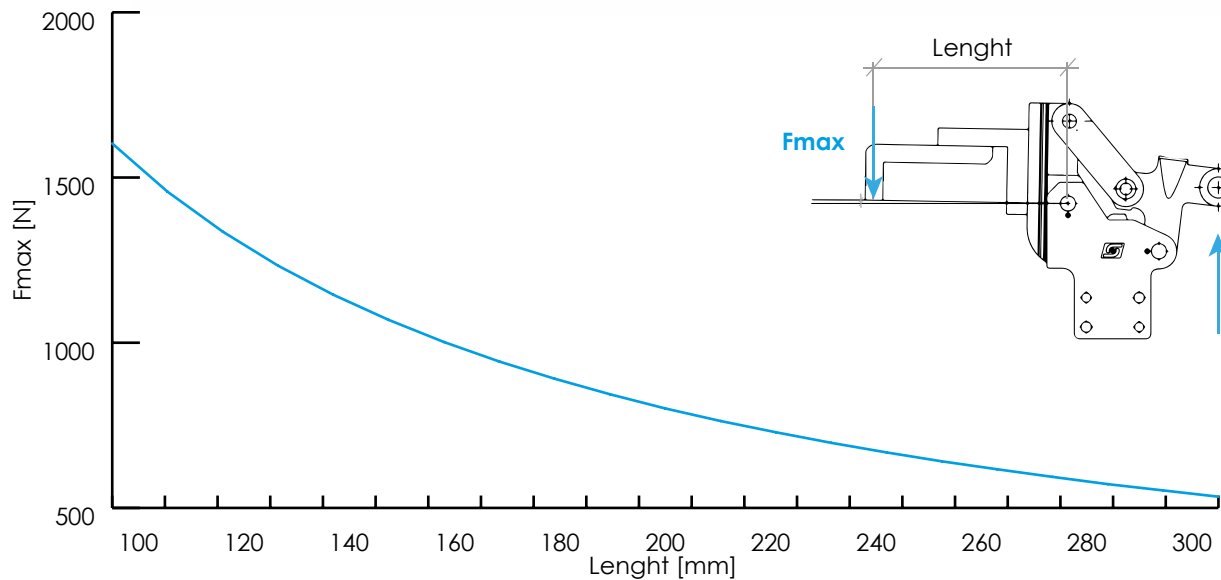
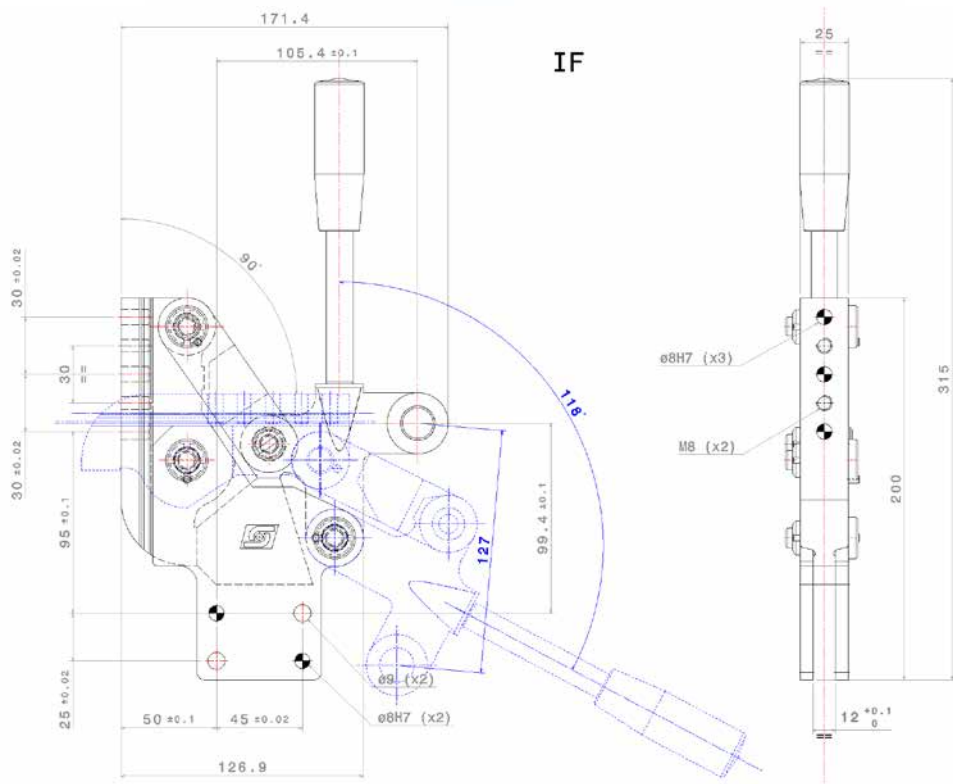
IF

3.1 kg

700 kg

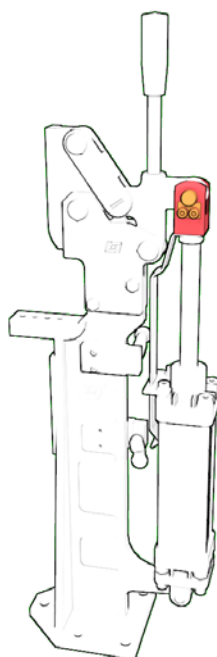
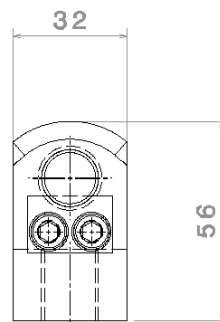
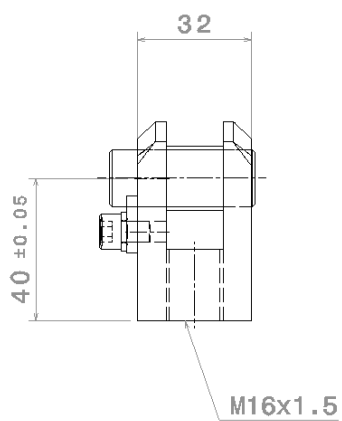
3 N.m

Series
Type
Size
Code
Weight
Holding Force
Max. torque by weight



*Force graph for pneumatic application. Look at page 12 for manual application values.

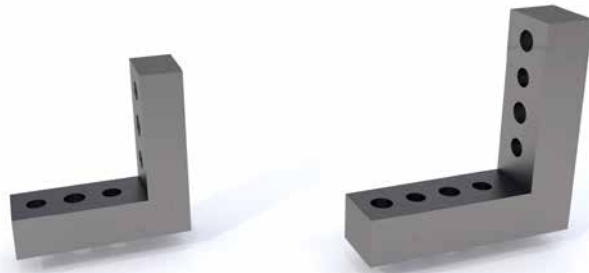
Series **Automatable**
Type **Standard fork end**
for ISO cylinders
Code **FSC**



General Accessories & Spare Parts

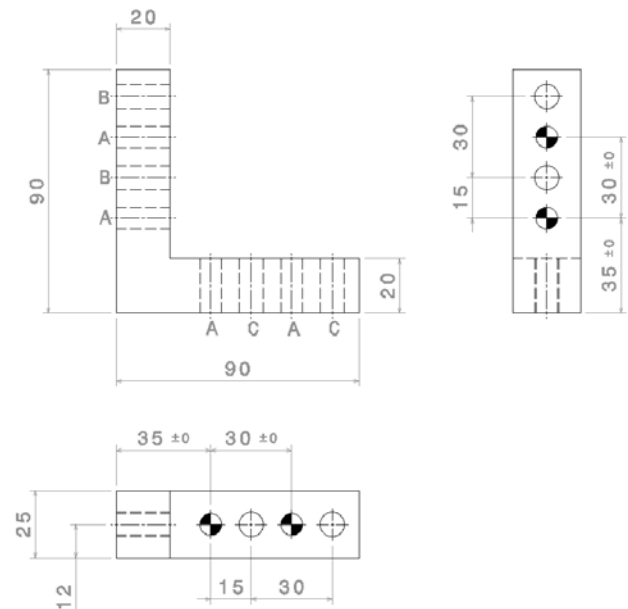
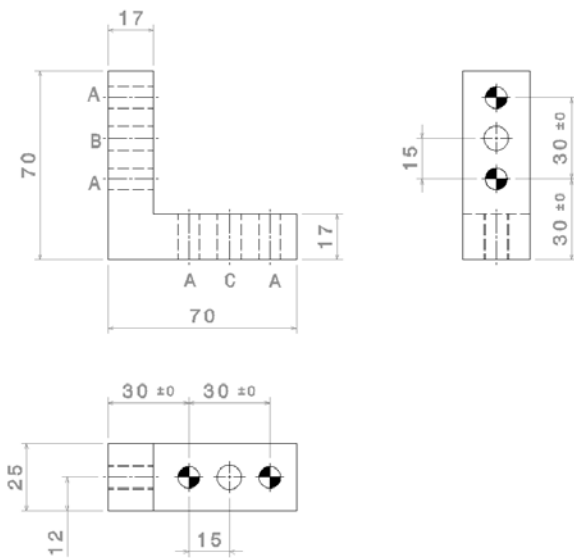


- Accessories for a perfect accuracy in assembling and adjusting the clamping units on the fixtures
- Spare part for a maintenance capable of increasing still further the lifetime of the products

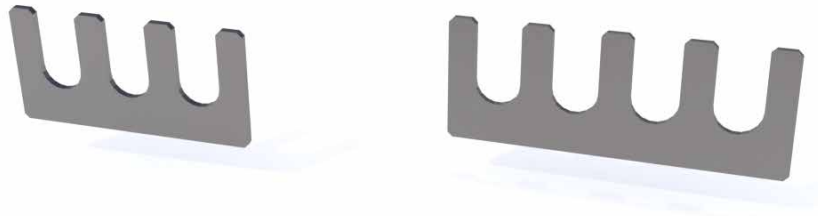


SQ70XXX

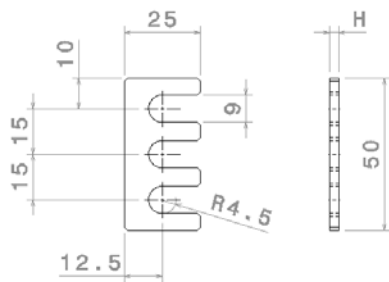
SQ90XXX



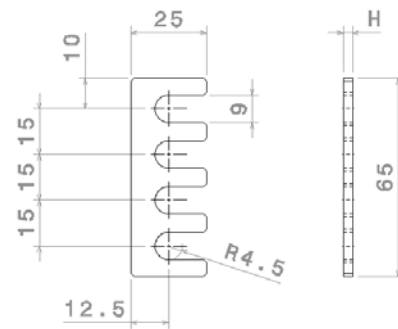
Code	A	B	C	Description
SQ70SF1, SQ90SF1	Ø 8H7	Ø 9	Ø 9	Pins Ø 8H7 and through holes on both sides
SQ70SF2, SQ90SF2	Ø 8H7	M8	M8	Pins Ø 8H7 and threaded holes on both sides
SQ70SF3, SQ90SF3	Ø 8H7	M8	Ø 9	Pins Ø 8H – through h. 1 side + threaded h. 1 side
SQ70PF1, SQ90PF1	Ø 7	Ø 9	Ø 9	Pre-holes Ø 7 and through holes on both sides
SQ70PF2, SQ90PF2	Ø 7	M8	M8	Pre-holes Ø 7 and threaded holes on both sides
SQ70PF3, SQ90PF3	Ø 7	M8	Ø 9	Pre-holes Ø 7 – through h. 1 side + threaded h. 1 side



SP70XX



SP90XX



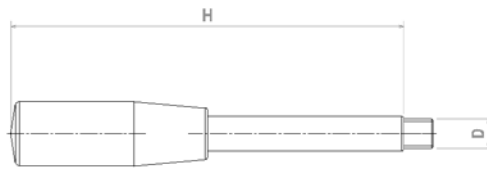
Code	H [mm]
SP7005, SP9005	0.5
SP7010, SP9010	1.0
SP7015, SP9015	1.5
SP7020, SP9020	2.0
SP7030, SP9030	3.0

Series

Accessories & Spare Parts

Type

Handles



Size	Small
Code	BBS
H	85 mm
D	8 mm
D1	22 mm

Size	Medium
Code	BBM
H	118 mm
D	10 mm
D1	22.7 mm

Size	Normal
Code	BBN
H	160 mm
D	12 mm
D1	26 mm

Series

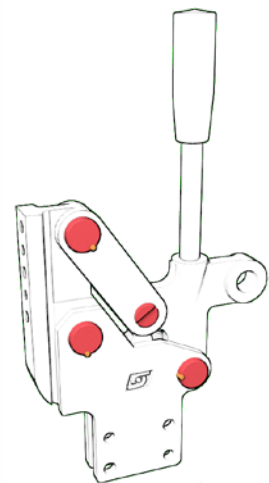
Accessories & Spare Parts

Type

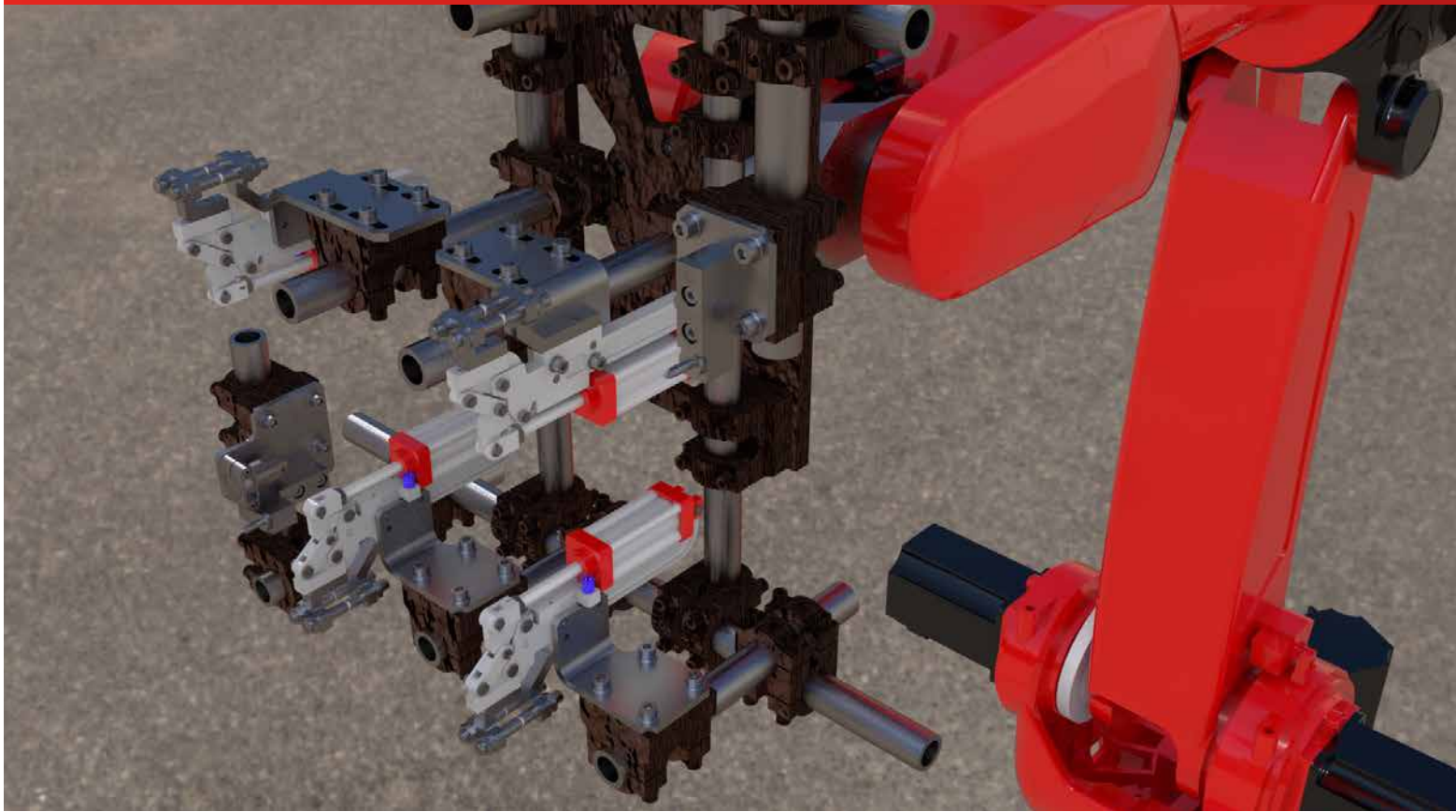
Kit bushings

Code

**KRS,
KRM,
KRN**

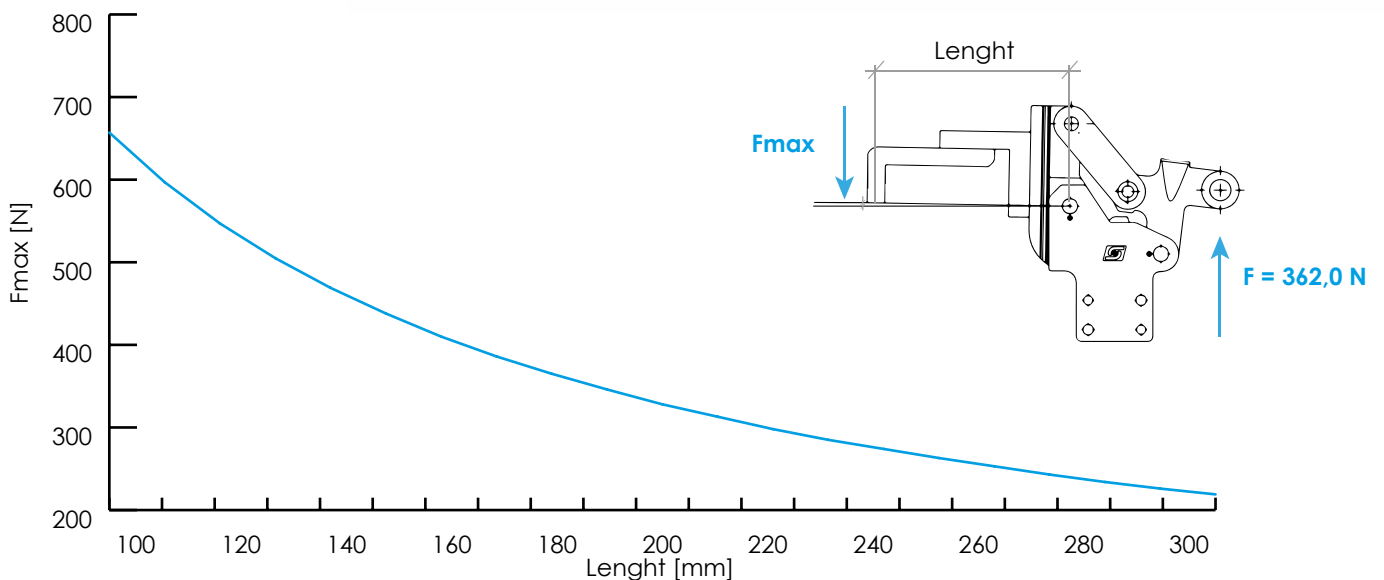
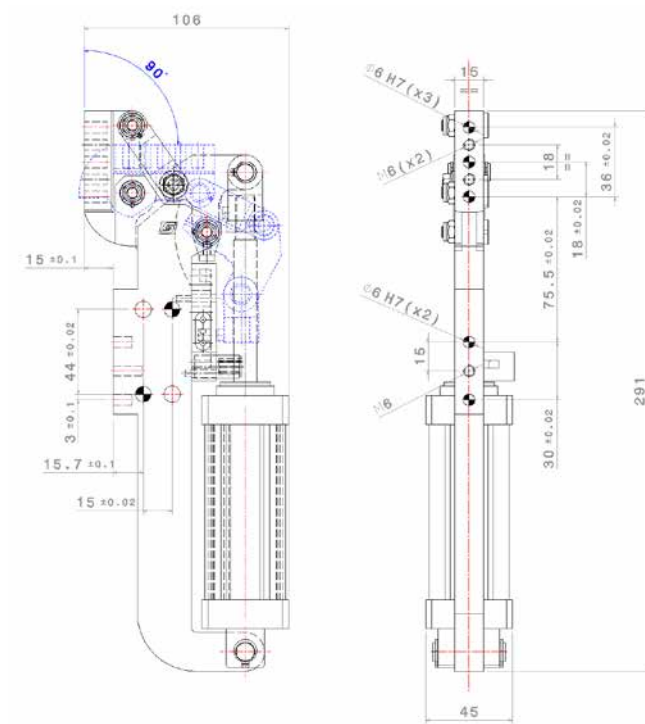


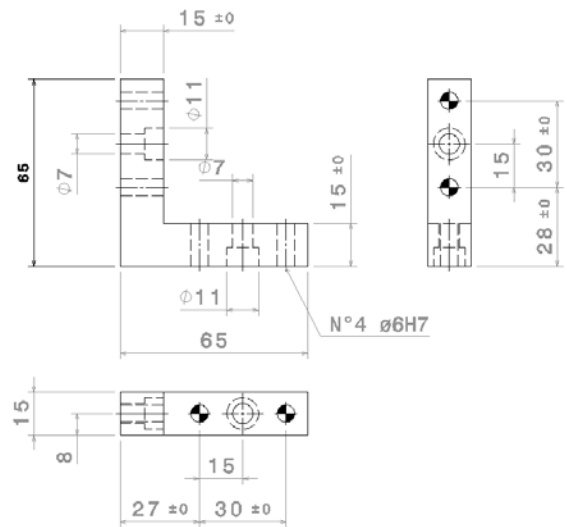
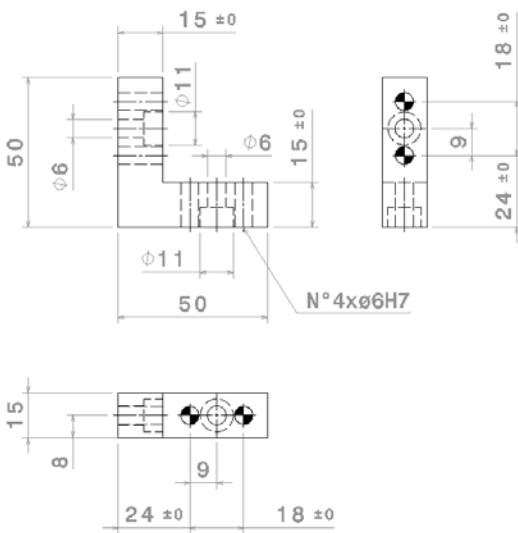
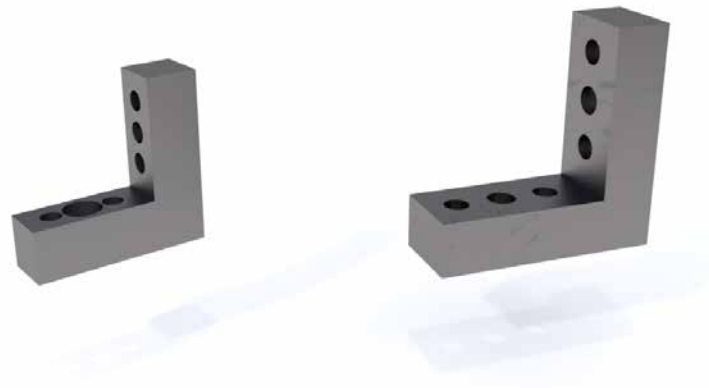
Gripper



- Steel version produced by hot-forging
- Geomet surface protection treatment
- Modular bores for adjustment angle fastening
- Opening angle 90°

Series	Gripper
Type	Automatic
Code	GRSC90M
Weight	2.5 kg
Holding Force	230 kg
Max. torque by weight	2 N.m

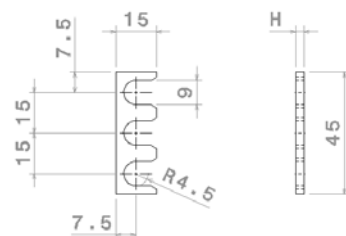
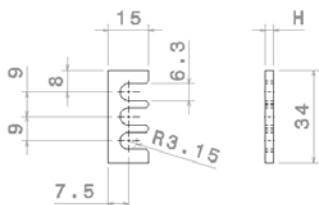
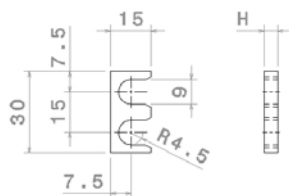




Steel	GSQ50AC
Aluminium	GSQ50AL

Steel	GSQ65AC
Aluminium	GSQ65AL

Series **Gripper**
 Type **Adjustment
 shims**

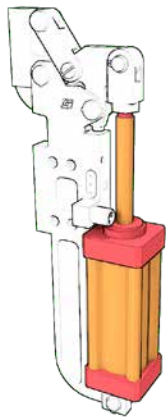
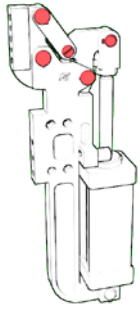


Code	H [mm]
GSPAM5	5
GSPAM6	6

Code	H [mm]
GSP3505	0.5
GSP351	1.0
GSP352	2.0
GSP353	3.0

Code	H [mm]
GSP4505	0.5
GSP451	1.0
GSP452	2.0
GSP453	3.0

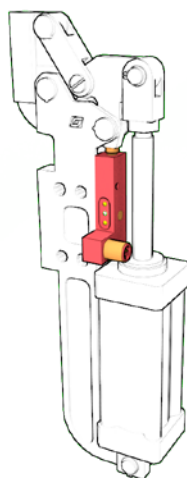
Gripper Series
Kit bushings Type
KRS Code



Gripper Series
WCP32-70 Code
32 mm Reaming
70 mm Stroke
Rear Hinge



Code	MEC-IND6R	MEC-IND6A
Supply voltage	10 — 30 VDC	
Change overcurrent	150 mA	
Functional logic	PNP	
Contacts	No	
Sn	1.5 mm	
Connector clutch	M12	
Pin connections		
	1 + 2 L 3 - 4 R	1 + 2 R 3 - 4 L



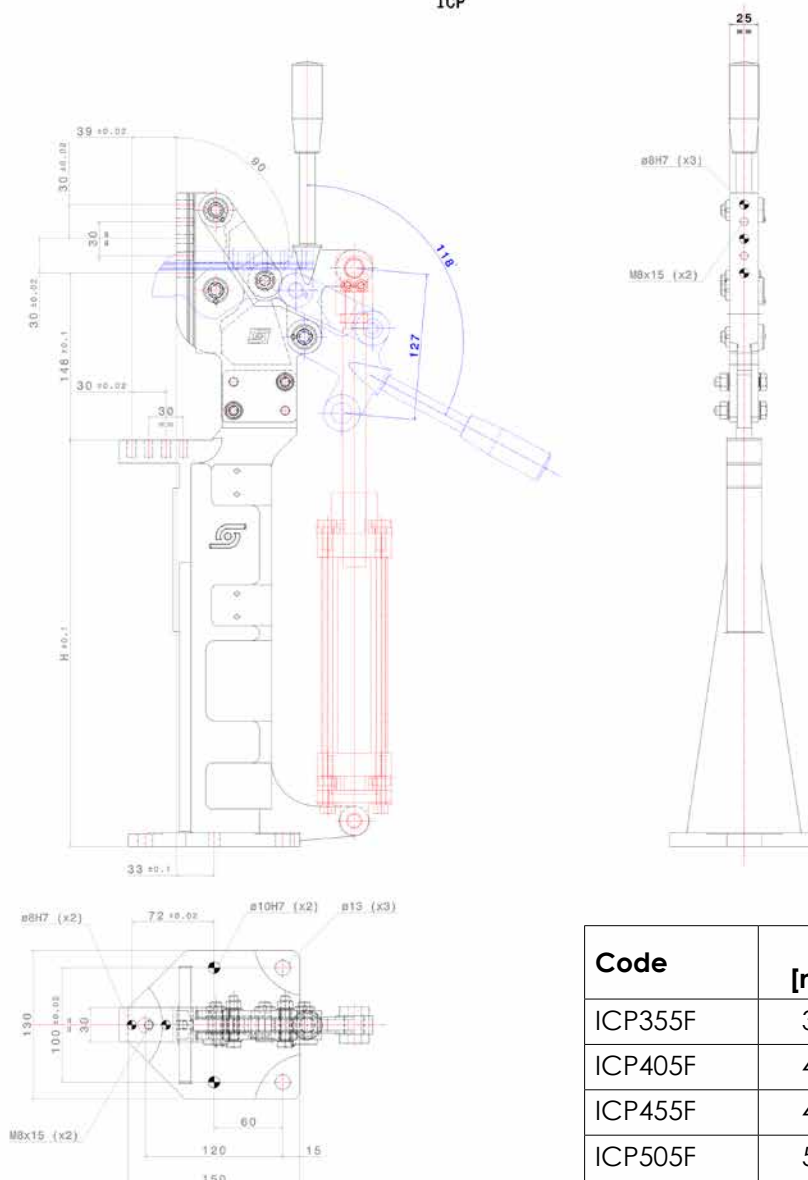
Complete Units



- Manual, automatable or pneumatic versions
- Four riser size joined with the normal clamp
- Automatable version set up for ISO cylinders
- Pneumatic version delivered with complete control devices

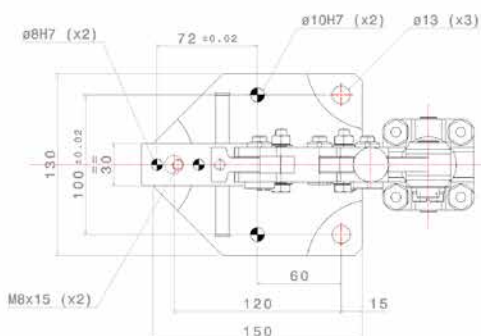
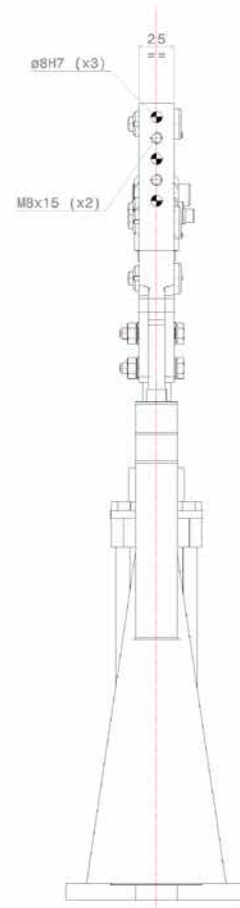
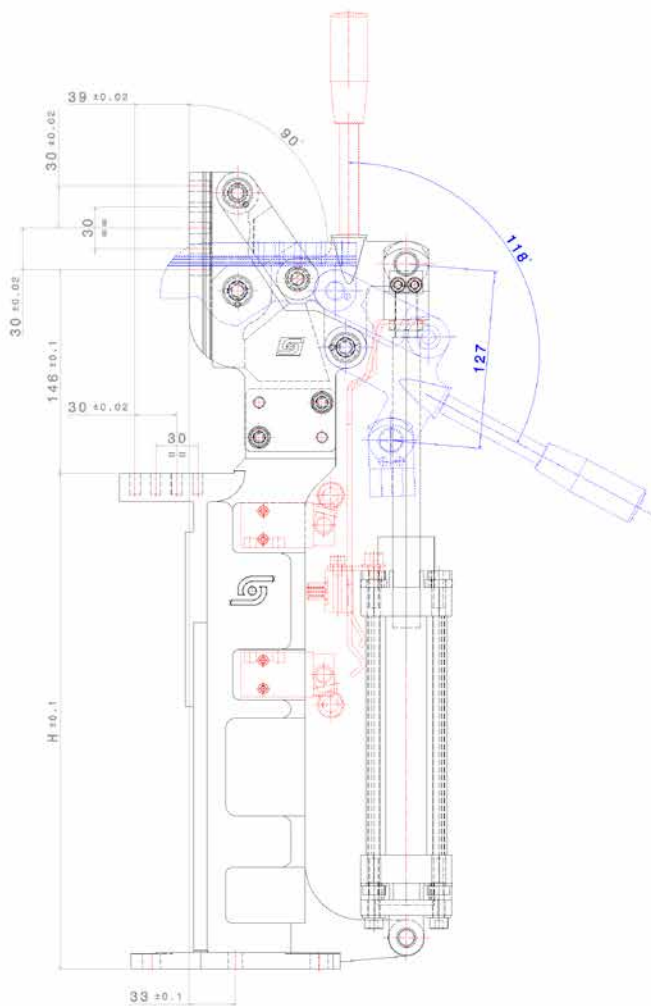


ICP

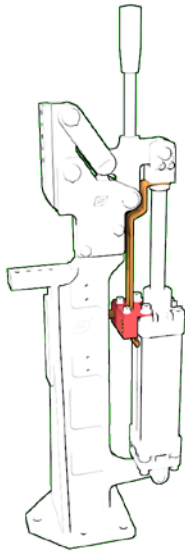


Code	H [mm]	Weight [kg]
ICP355F	355	9.4
ICP405F	405	9.9
ICP455F	455	10.5
ICP505F	505	11.0

Series **Complete Units**
 Type **Pneumatic**



Code	H [mm]	Weight [kg]
PCP355FEW	355	12.5
PCP405FEW	405	13.0
PCP455FEW	455	13.5
PCP505FEW	505	14.0

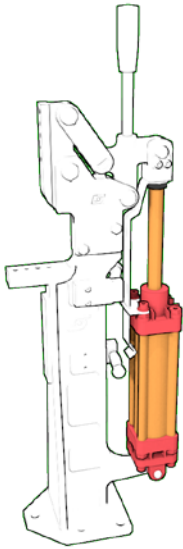


Complete Units
Limit Switch Kit
KEL4SP4

Rear Hinge

- 1 Cam
- 1 Plate
- 1 Micro

Series
Type
Code
Cylinder coupling
Components



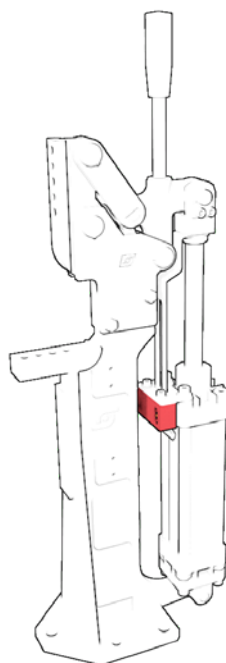
Complete Units
Pneumatic Cylinder
WCP130

50 mm
130 mm
Rear

Series
Type
Code
Reaming
Stroke
Hinge



Code	MEC-IND4	MEC-IND5
Supply voltage	10 — 30 VDC	
Change overcurrent	150 mA	
Functional logic	PNP	
Contacts	No	
Sn	1.5 mm	
Connector clutch	M12	
Pin connections		
	1 +	2 L
	3 -	4 R





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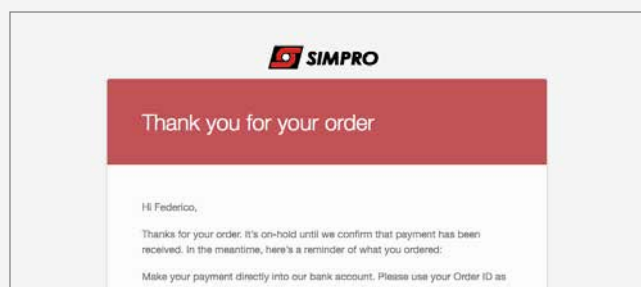
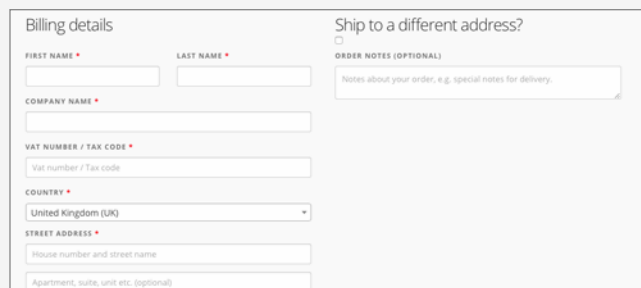
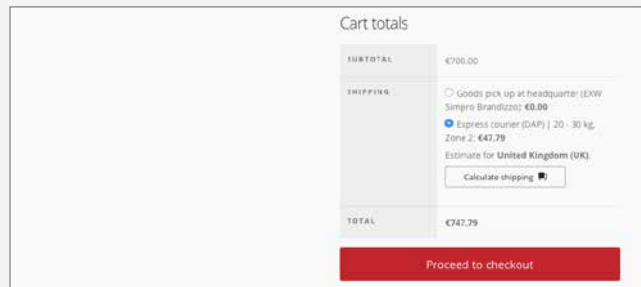
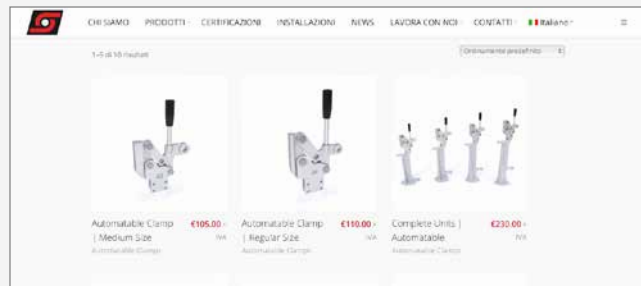
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