Triveneta Impianti S.r.l.

CATALOGUE

Safety and Performance for press brakes and shears

Triveneta Impianti

Press Brake Global Solutions

Driving Productivity Empowering Safety

Environment

Retrofitting: Prevent waste, protect the planet

Avoid scrapping, reduce environmental impact.

Safety

Certified retrofitting: Safe and compliant

Ensure safety and meet regulations.

Savings

Retrofitting: Save costs, keep performance

Cut costs without losing effectiveness.

Retrofitting

Upgrade the old: Retrofitting modernizes machines

Add modern tech to outdated equipment.

www.trivenetaimpianti.com

Bending Aid

UP Optional

UP VACUUM

COD. 025 V

It consists of 3 suction cups with 30kg capacity each for a total of 90kg of restraint to cling to the sheet metal

ADDITIONAL MACHINE KIT

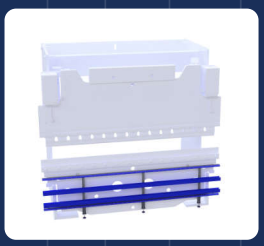
COD. 025 AMS

This kit is designed to make possible for UP to operate when it needs to be connected and work on several machines

UP PARKING

COD. 025 PDX / COD. 025 PSX

UP Parking for right (COD. 025 PDX) and left side (COD. 025 PSX) to put away your UP to when you are not using it



UP RAIL

COD. 025 R

A rail attached to the press brake that allows lateral movement along the length of the machine

UP CABINET

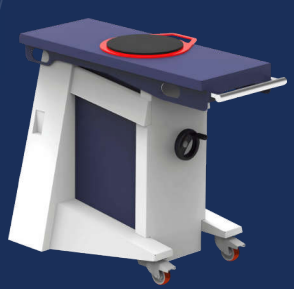
COD. 025 CS / COD. 025 CD

Specific electrical panel for UP single configuration (COD. 025 CS) and UP double configuration (COD. 025 CD)

VB UP TRACK

COD. 101 TRA

A high visibility laser line generator that traces the bending line diectly on the workpiece



VB UP TURN

COD. 101 TUR

It allows the direction of the workpiece front to be adjusted by 360° smoothly and quickly

VB UP MEASURE

COD. 101 MEA

It facilitates the positioning of the sheet metal and set the desired position to ensure steady results

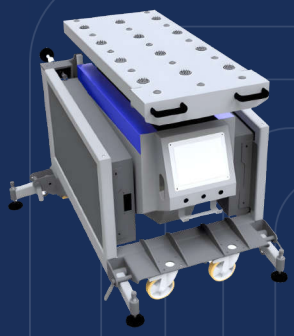
Bending Aid

Up System

UP 300 FULL W

COD. 025 300 FW

The best performing bending aid to work large and heavy sheet metals while ensuring safety and speed of execution



UP 300 BASIC W

COD. 025 300 BW

A bending aid to work large and heavy sheet metals while ensuring safety and speed of execution

UP 300 ON

COD. 025 300 ON

A bending aid apply on the press brake to work large and heavy sheet metals that ensure safety and speed of execution

UP VARIO BENCH

COD. 101

The first multifunctional and transportable front press brakes support for precise bend-and-hemming operations

UP SETTINGS

UP 300 FULL W
COD. 025 300 FW

UP Full master version

UP FULL MASTER SLAVE
COD. 025 300 FMS

UP Full master-slave version

UP 300 BASIC W
COD. 025 300 BW

UP Basic master version

UP BASIC MASTER SLAVE
COD. 025 300 BMS

UP Basic master-slave version

UP 300 ON
COD. 025 300 ON

UP ON master version

UP ON MASTER SLAVE
COD. 025 300 OMS

UP ON master-slave version

Performance

What would you need to increase the performance?

CNC ESA SERIES VIS

COD. 013 D7

Display touchscreen 19” FULL HD with top level performance for machines up to 7 axes

ANGLE LASER CHECK

COD. 024 ALC

The first portable device that automates the bending process by detecting the bend angle

POSITRONIC FOR TORSION BAR

COD. 027

Numerical control for torsion bar press brake that could manage from three to eight axes

POSITRONIC FOR SHEAR

COD. 016

Numerical control specific for shear that could manage up to three axes

BACKGAUGE SMART 500

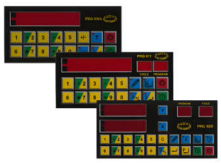
COD. 029 500

Backgauge for torsion bar and RG press brakes up to 50 ton. with run from 500mm to 1000mm

BACKGAUGE SMART 1000

COD. 029 1000

Backgauge for torsion bar and RG press brakes up to 50 ton. with run from 1000mm to 2500mm



PROGRAMMABLE POSITIONER PRG 910 A - 911 - 920

COD. 019

Best seller programmable positioners for one or two axes suitable for press brakes and shears

MANUAL TURRET FOR BACKGAUGE

COD. 039

Backgauge turret for the manual regulation of axis R

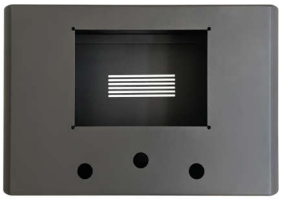
Performance

What would you need to increase the performance?

AUTOMATIC TURRET FOR BACKGAUGE

COD. 040

Backgauge turret for the automatic regulation of axis R



POSITRONIC BOX

COD. 027 BO

A case for your numerical control Positronic, both for torsion bar press brakes and shears

MOTORIZED BENDING SETTING FOR RG Y AXIS

COD. 020

Motor to set the bending position specific for RG press brakes

B-SNIPER 01

COD. 024 01

High visibility bending line tracker to be installed on the intermediary of the press brake

B-SNIPER 02

COD. 024 02

High visibility bending line tracker to be installed on the press brake's lateral bracket

B-SNIPER 02 BRACKET

COD. 024 003

Specific bracket for the installation of B-Sniper 02 available in different runs

B-SNIPER 03

COD. 024 03

High visibility bending line tracker to be installed on the die of the press brake

B-SNIPER 04

COD. 024 04

High visibility bending line tracker to be magnetically applied on the press brake

Safety

What would you need to increase the safety?

DSP AP + PLC MCS

COD. 002

High performance safety device for press brake with specific PLC against crushing risk

DSP STANDARD

COD. 001

Standard performance safety device for press brake to prevent the operatos crushing risk

KIT STOPPING DISTANCE

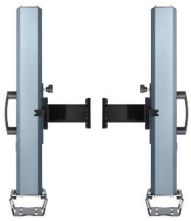
COD. 034

A kit complete with inductive sensors diameter 8 and relative cam for stopping distance

SMART BRACKETS

COD. 003

SMART brackets suitable for DSP AP and DSP Standard available in different runs



STRATOS BRACKETS

COD. 060

STRATOS manual brackets suitable for DSP AP and DSP Standard available in different runs

AUTOMATIC BRACKETS

COD. 004

SAFETY LIGHT BARRIER FOR FINGER PROTECTION

COD. 008 D

Multi-beam safety light barrier for press brakes and shears against machine tools or other plants dangers

SAFETY LIGHT BARRIER FOR BODY PROTECTION

COD. 008 U

Safety infrared light barrier for body protection for press brakes and shears supplied with safety relay

Safety

What would you need to increase the safety?

PEDAL UNIT

COD. 006 M

Press brake comand unit with three positions safety foot switch and emergency stop integrated

LATERAL PROTECTION

COD. 007

Press brake lateral protection with limit switch inluded

HYDRAULIC BLOCK

COD. 009

Torsion bar and RG press brake hydraulic block, always tailor made for your machine

KIT FAST BEND TORSION BAR

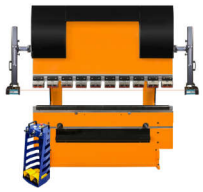
COD. 011.001

Complete retrofit kit to upgrade the safety of torsion bar press brake that includes one hydraulic block

KIT FAST BEND TORSION BAR

COD. 011.002

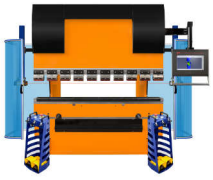
Complete retrofit kit to upgrade the safety of torsion bar press brake that includes two hydraulic blocks



KIT STANDARD BEND SYNCHRO

COD. 012.001

Complete retrofit kit to upgrade the safety of synchronized press brakes with DSP Standard protection



KIT FAST BEND SYNCHRO

COD. 012.002

Complete retrofit kit to upgrade the safety of synchronized press brakes with DSP AP protection

KIT RGENERATION RG

COD. 010 SAFE

Complete retrofit kit to upgrade the safety of RG press brake (Amada - Promecam - Schiavi)

Global Solutions

Triveneta Impianti

Upgrade Smarter, Perform Better
Your Press Brakes, Reimagined

Boost efficiency, reduce costs and enhance sustainability with advanced press brake upgrades. Triveneta impianti delivers turnkey solutions, remote control and expert support – tailored for the future of UAE industry.

Triveneta Impianti

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Info

TRIVENETA SISTEMI

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Triveneta Impianti S.r.l.

BENDING AID UP

to manage large and heavy sheet metals

UP 300 BASIC W

COD. 025 300 BW

If you **bend large sheet metal** and your **operators find it difficult** the solution to facilitate them while **ensuring safety and speed of execution** is our banding aid Up.

With manual handling by trolley and stationary feet,
UP 300 BASIC is **manually moved vertically and horizontally** by means of handwheels
with provision for our suction cup kit COD. 025 V - UP VACUUM
and can be combined with UP CABINET SINGLE or DOUBLE electrical cabinet.
Maximum capacity: 150kg

Our Up:

→ It is installed on the front of your current press brake
→ It will **increase the productivity** of the machine
→ Your operators will be able to **work more fluidly**
→ It **reduces the risk of injury** to the worker (eg tilting the sheet)

Up helps the operator to improve his job,
protecting his life and your business
while increasing productivity.

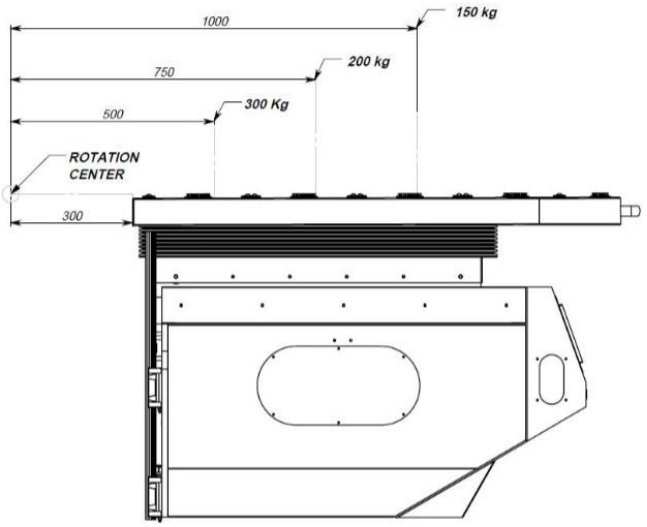
TRIVENETA IMPIANTI S.r.l.
Administrative Headquarters: Via Scopella, 22 - 37060 Castel d'Azzano (VR) - Italy
Operational Headquarters: Via Bovolino, 18/B - 37060 Buttapietra (VR) - Italy
Phone: +39 045 518 747 - Fax +39 045 854 56 05 - Web Site: www.trivenetaimpianti.com - Email: sales@trivenetaimpianti.com

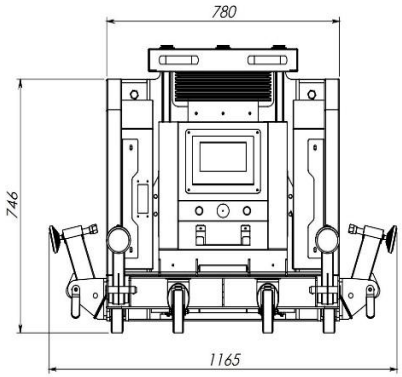
UP 300 BASIC W

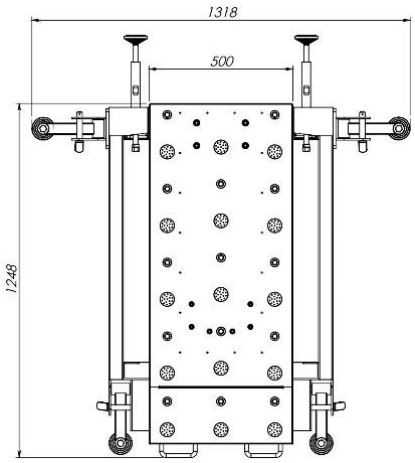
COD. 025 300 BW

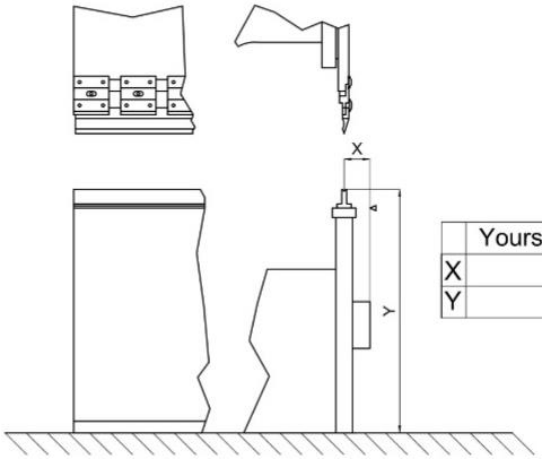
Up is a bending aid that we define “sheet follower” and helps the operator to improve his work by **protecting his safety and facilitating him** so as to help in turn your company to **increase the quality and speed** of production.

DIMENSIONS: Width 760mm - Length 1100mm
HEIGHT: adjustable from 950mm to 1150mm
ROTATION CENTRE: 300mm
SUPPORT TOP DIMENSIONS: 500 x 1000, extendable up to 1500mm
WEIGHT: 580 kg
AVAILABLE TORQUE: 150 kgm
ANGLE OF INCLINATION OF THE PLANE: 0° / 75°
ACCURACY: +/- 0.5°
FORWARD/BACKWARD ADJUSTMENT: manual run of 120mm
HEIGHT ADJUSTMENT: manual run 200mm
SAFETY BRAKE SEPARATED FROM THE ENGINE









	Yours	Up range
X		0-300
Y		850-1150

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UP 300 FULL W

COD. 025 300 FW

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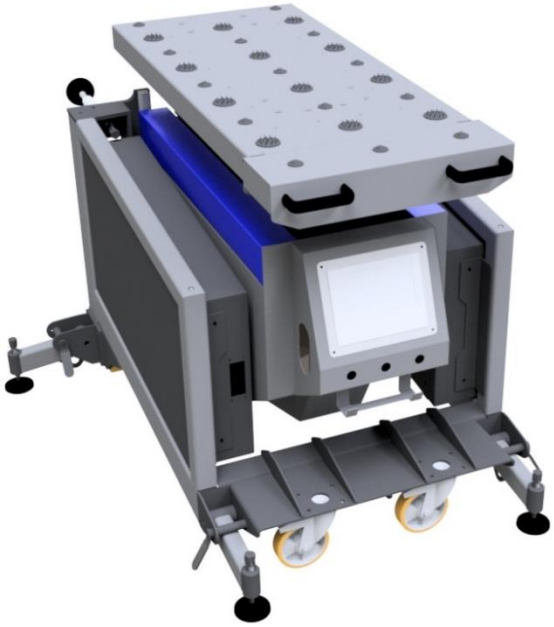
UP 300 FULL W with manual handling by trolley, stationary feet
and **motorized vertical and horizontal handling**
with provision for suction cup kit COD. 025 V - UP VACUUM.

Maximum capacity: 150kg



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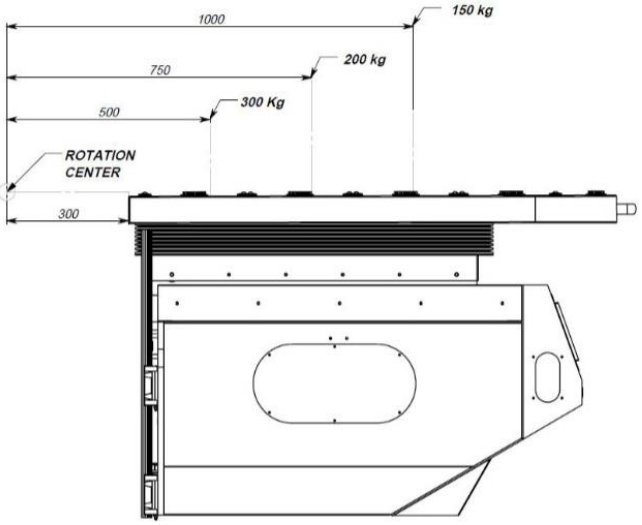

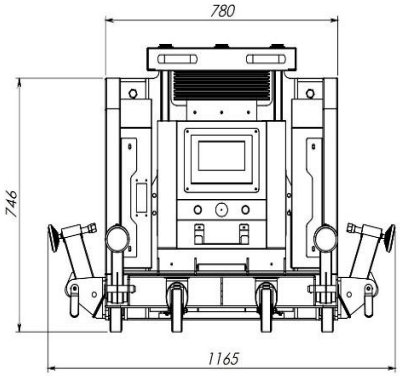

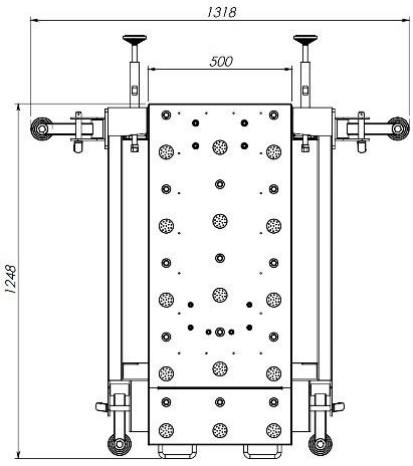

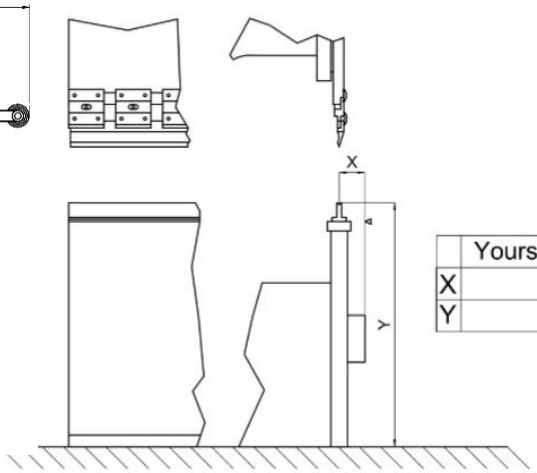

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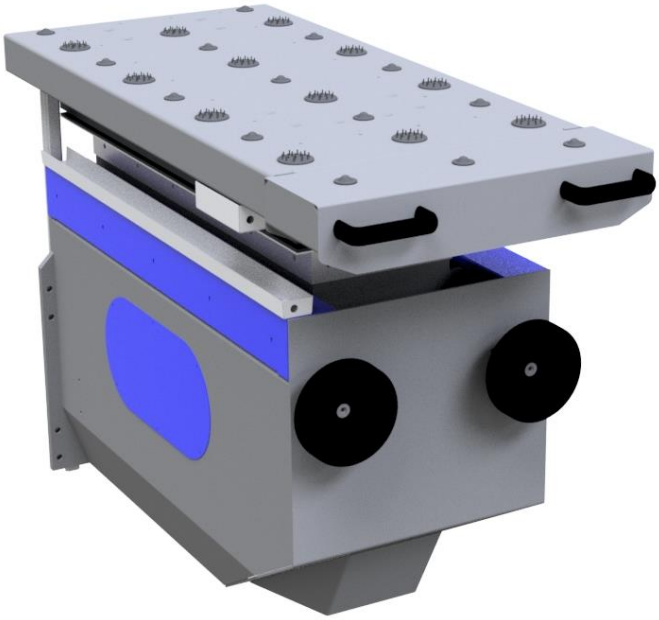
UP 300 ON

COD. 025 300 ON

If you **bend large sheet metal** and your **operators find it difficult** the solution to facilitate them while **ensuring safety and speed of execution** is our banding aid Up.

UP 300 ON è applicabile su UP RAIL con **movimentazione manuale** verticale ed orizzontale tramite volantini con predisposizione per il kit ventose ns. COD. 025 V - UP VACUUM ed abbinabile a quadro elettrico UP CABINET SINGLE (COD. 025 CS) o DOUBLE (COD. 025 CD)

Portata massima: 150kg



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- → Your operators will be able to **work more fluidly**
- → It **reduces the risk of injury** to the worker (eg tilting the sheet)

Up helps the operator to improve his job,
protecting his life and your business
while increasing productivity.

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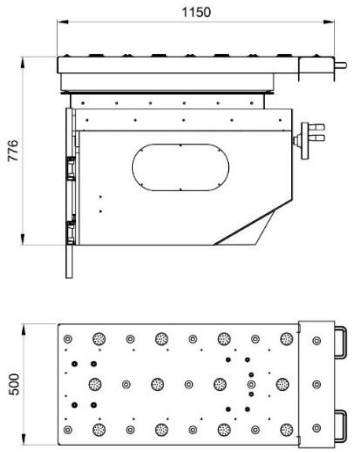
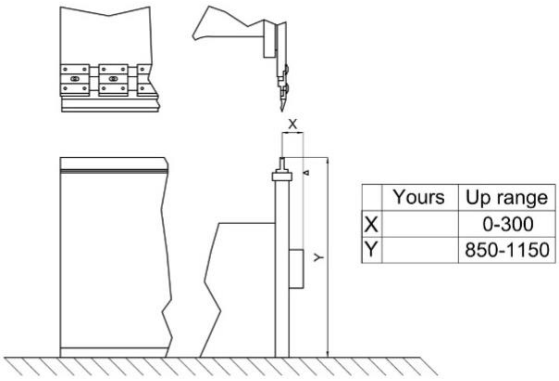
UP 300 ON

COD. 025 300 ON

Up is a bending aid that we define “sheet follower” and helps the operator to improve his work by **protecting his safety and facilitating him** so as to help in turn your company to **increase the quality and speed** of production.

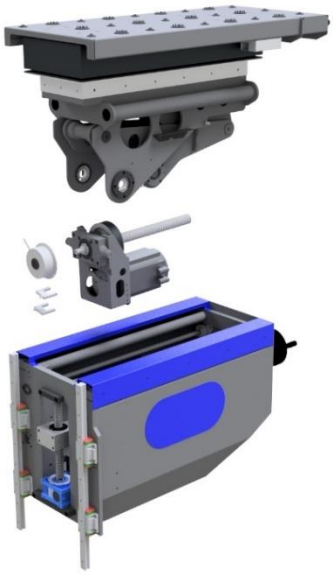
DIMENSIONS: Width 760mm - Length 1100mm
HEIGHT: adjustable from 950mm to 1150mm
ROTATION CENTRE: 300mm
SUPPORT TOP DIMENSIONS: 500 x 1000, extendable
up to 1500mm
WEIGHT: 250 kg
AVAILABLE TORQUE: 150 kgm
ANGLE OF INCLINATION OF THE PLANE: 0° / 75°
ACCURACY: +/- 0.5°
FORWARD/BACKWARD ADJUSTMENT: manual run of 120mm
HEIGHT ADJUSTMENT: manual run 200mm
SAFETY BRAKE SEPARATED FROM THE ENGINE

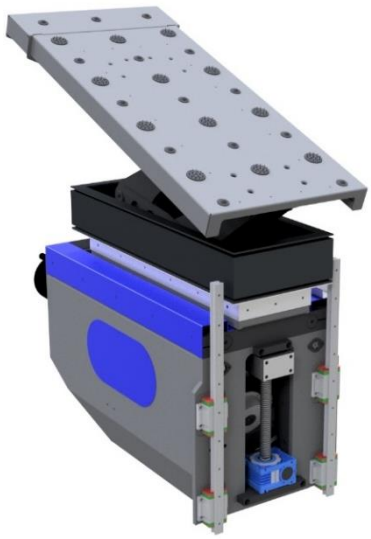




	Yours	Up range
X		0-300
Y		850-1150

Movement via levers and recirculating screws	External brake applied on the ball screw	500x1800 extendable table with balls and brushes





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Triveneta Impianti S.r.l.

OPTIONALS

for the beding aid UP

UP VACUUM

COD. 025 V

You can configure each bending aid Up model to the specific needs of your company by equipping it with this vacuum kit.

UP VACUUM consists of **3 suction cups with 30kg capacity each for a total of 90kg** of restraint.

- Hardness 60÷75°Sh.
- Operating temperature range of -40 to +170°C
- Stain-resistant
- Optimum resistance to abrasion, water and oils

Vacuum section entrusted to a multistage vacuum generator with venturi principle operation capable of completely enslaving a vacuum gripping system consisting of:

- A micro solenoid valve to supply compressed air to the generator.
- A micro-electrovalve for blowing compressed expulsion air.
- A screw flow regulator for metering the expulsion air.
- A digital vacuum switch with a display and LED to indicate switching, suitable for managing compressed air supply and providing a signal for safe cycle start.
- An anodized aluminum or clear Plexiglas distributor with the vacuum connections, with an easily inspected suction filter and check valve integrated, for maintaining vacuum upon use in the absence of electricity or compressed air.

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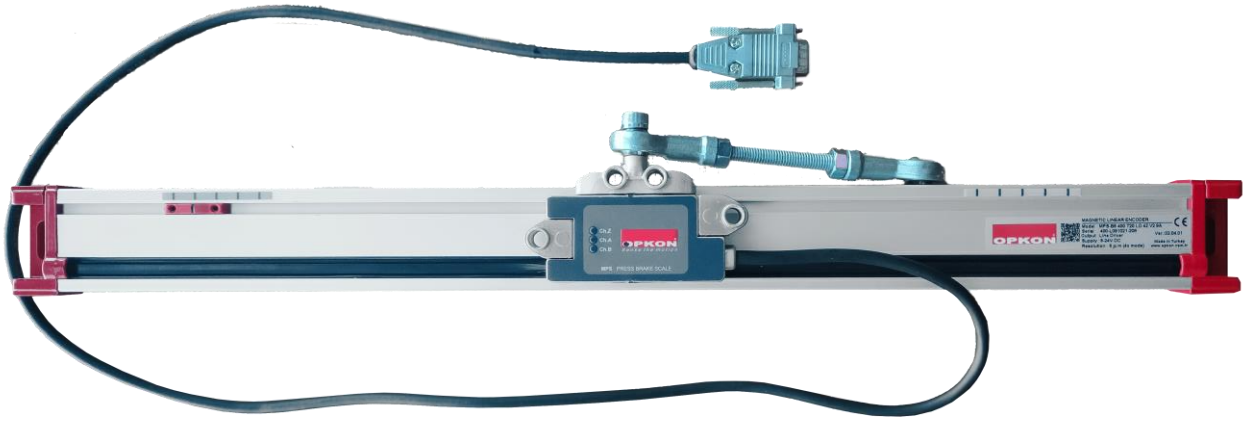
TRIVENETA SISTEMI

Additional Machine Application Kit

COD. 025 AMP

Application Kit of additional machine for Up



The Kit thus composed was studied by Triveneta Impianti to facilitate the functioning of Up when the latter must be connected to several machines.

This additional machine application Kit

includes our wiring work on both the sockets and your press brake.

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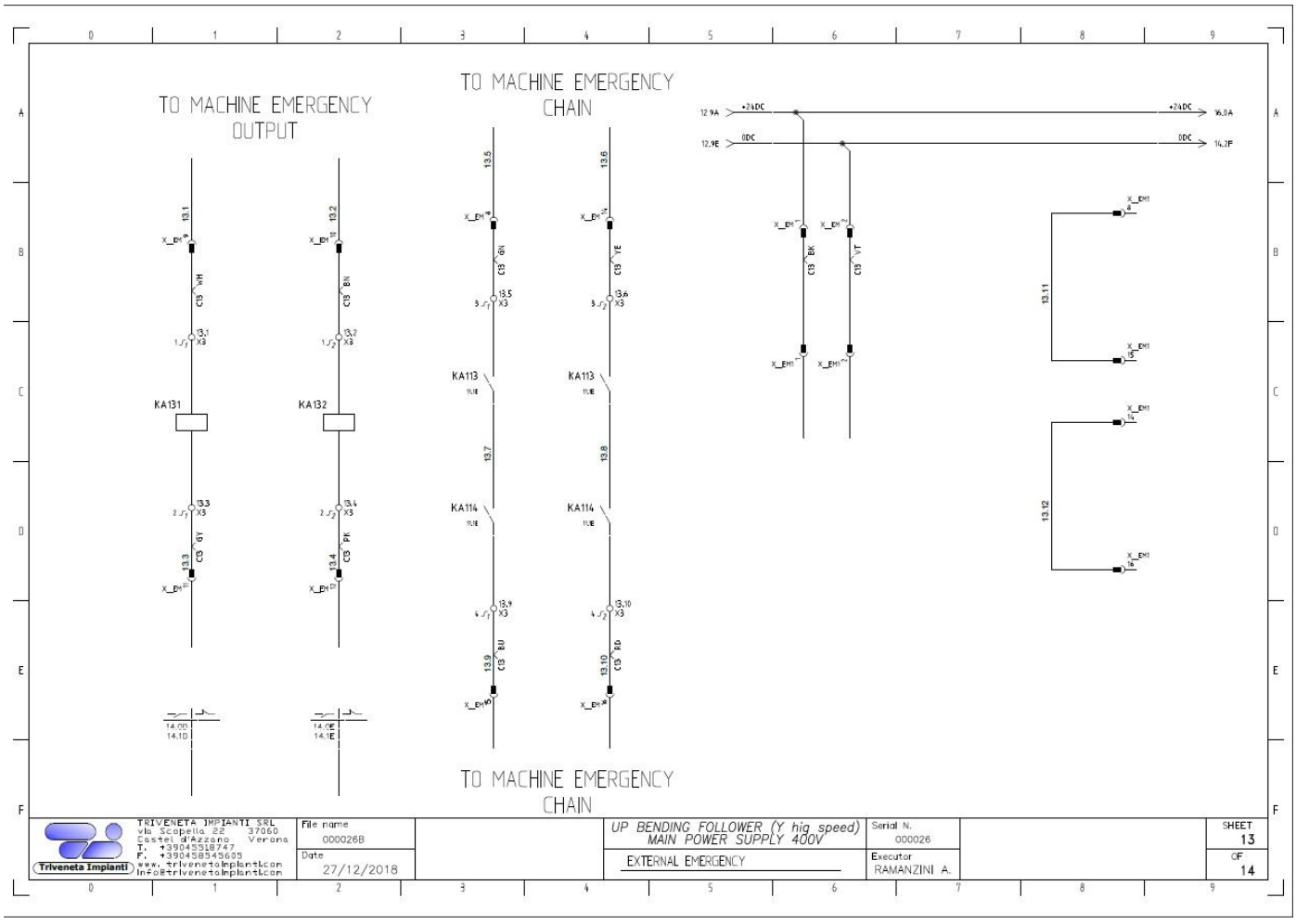
Application Kit of additional machine for Up



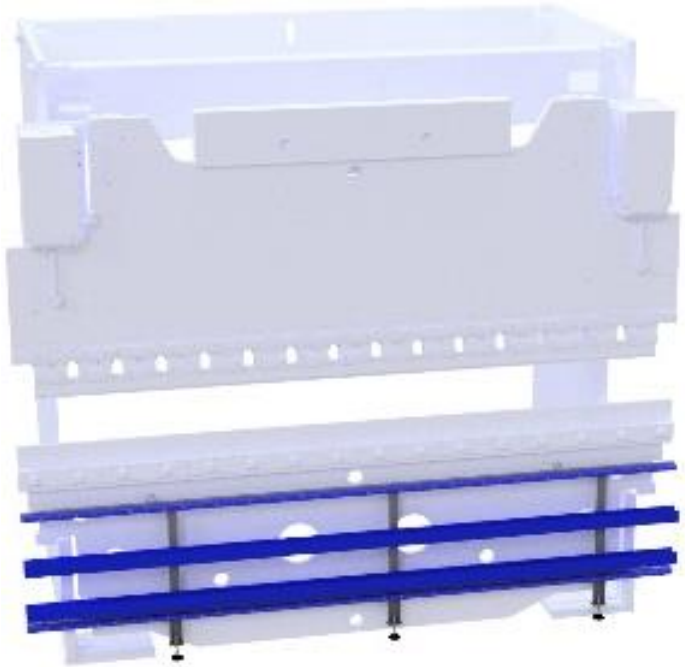
UP RAIL

COD. 025 R

UP Rail is a optiona for UP ON

AVAILABLE IN DIFFERENT VERSIONS:

- COD. 025 R 1000
- COD. 025 R 2000
- COD. 025 R 3000
- COD. 025 R 4000



This optional specific for UP ON consists of a rail attached to the press brake that allows lateral movement of the bending aid along the length of the machine.

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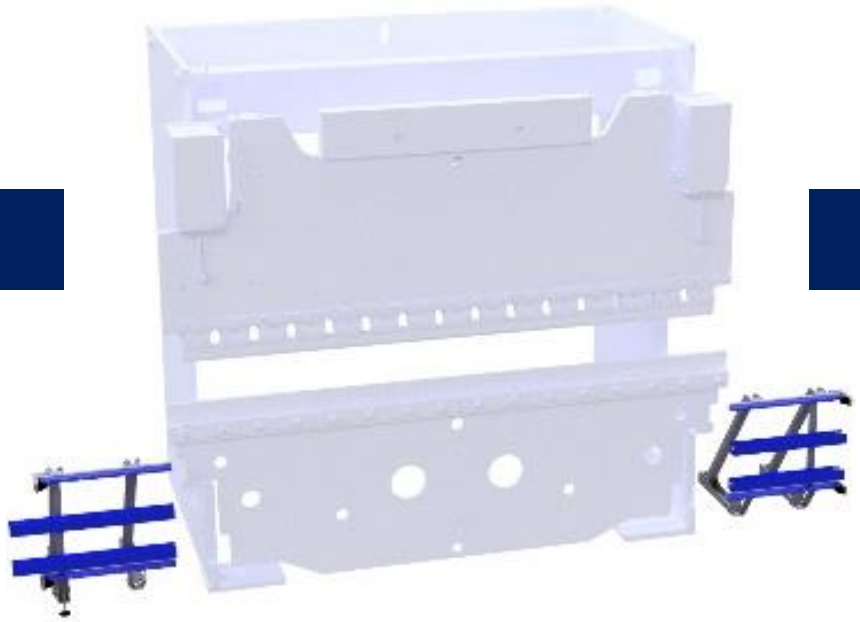
UP PARKING

COD. 025 PSX / COD. 025 PDX

UP Parking is positioned on the side of the press brake on which is installed UP ON

UP PARKING SX
COD. 025 PSX



UP PARKING DX
COD. 025 PDX

UP Parking for left side (COD. 025 PSX) and right (COD. 025 PDX)
is a usefull optional that you cane use to put away UP ON when you are not using it.

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UP CABINET

COD. 025 CS / COD. 025 CD

UP Cabinet, specially created for the bending aid UP you choose

Specific electrical panel for UP single configuration (COD. 025 CS)
or UP double configuration (COD. 025 CD)

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Triveneta Impianti S.r.l.

UP VARIO BENCH

bend-and-hemming process as never before

TRIVENETA SISTEMI

UP VARIO BENCH

COD. 101

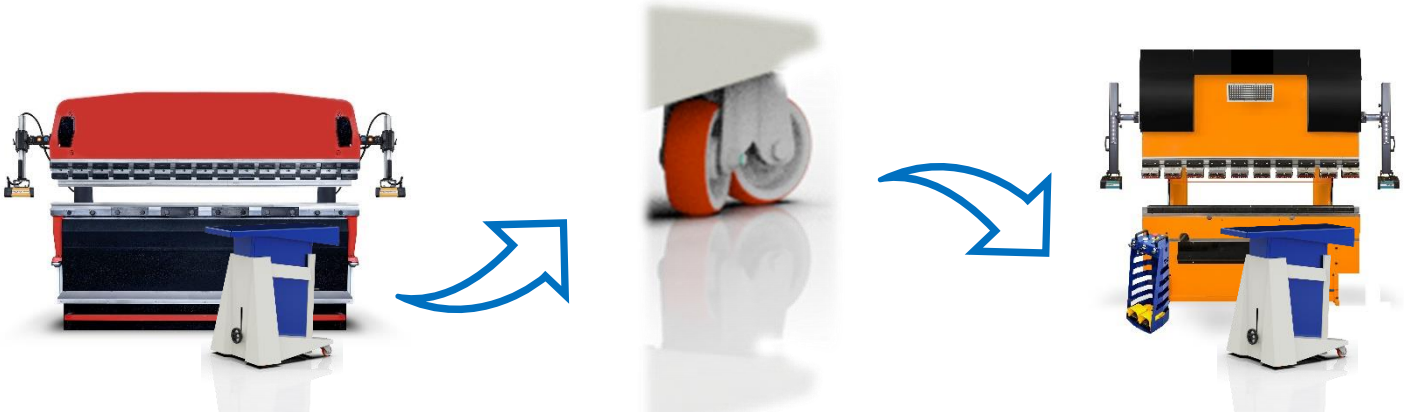
Innovation in press brakes support: the UP Vario Bench

- **Transportable on wheels**
- **Double height adjustment**
- **Displayed front register**
- **Laser line generator**
- **Turntable application**

The first multifunctional and transportable front press brakes support

WHAT MAKES IT UNIQUE:

UP Vario Bench stands out from all other press brake front supports due to its **portability on integrated wheels**. The fact that it is transportable makes it **easy to move between different workstations** and because it is **easy to remove and relocate**, it is not restricted to use on just one press brake in the company's fleet.
In fact, the design of our support aims at **maximum operational flexibility**.



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UP VARIO BENCH

COD. 101

The first multifunctional and transportable front press brakes support

INNOVATION IN PRESS BRAKES SUPPORT

In the sheet metal bending industry, **efficiency and precision are paramount**. To meet these basic requirements, we have developed the **portable** UP Vario Bench, a **frontal support** for press brakes designed to **increase productivity and work quality**.

UP Vario Bench represents a **significant innovation** for press brake operators, combining **portability, precise adjustments and advanced features** in one **wheeled system**.

DOUBLE HEIGHT ADJUSTMENT

One of the main advantages of the UP Vario Bench is the double height adjustment, which allows **precise customisation to the specific needs of the job**:

- **ADJUSTMENT OF DIE HEIGHT**:

Using a manual handwheel, the **height can be adjusted from 850 mm to 1100 mm**. This allows operators to quickly adapt the support to different workpiece dimensions.

- **HEIGHT ADJUSTMENT OF THE HEMMING TOOL:**

Another manual handwheel and an actuator ensure **precise control of the folding and hemming tool**. In addition, an electrically-operated vertical movement system enables the **set height change to be performed automatically**, further improving operating efficiency.

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UP VARIO BENCH

COD. 101

Innovation in press brakes support: the UP Vario Bench

FRONT REGISTER DISPLAYED

The UP Vario Bench trolley is equipped with a **visualised front register** designed for:

- **FACILITATING THE POSITIONING** of the SHEET METAL to be processed.

In addition, a **feed quota viewer** allows you to:

- **SET THE DESIRED POSITION PRECISELY**, ensuring **consistent results**.

LASER LINE GENERATOR

To further increase accuracy, the UP Vario Bench includes a laser line generator that **traces the bending line on the workpiece**.
This function is essential to ensure that each bend is made exactly at the desired point**, reducing errors and avoiding scrap**.

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UP VARIO BENCH

COD. 101

The first multifunctional and transportable front press brakes support

TURNTABLE APPLICATION

Finally, an applicable slewing bearing allows the **direction of the workpiece front to be adjusted by 360° smoothly and quickly**, offering an additional level of control and precision during the sheet metal bending process.

IMPROVE PROCESSING, BENEFIT FROM RESULTS

Using UP Vario Bench for your machining operations can only increase **efficiency and precision**, as well as **productivity and work quality**.
The advantages that make it a unique frontal support for press brakes are:

- **EASILY TRANSPORTABLE = FAST APPLICATION ON SEVERAL MACHINES**

Thanks to its wheels, which make it a **trolley system**, it can be quickly moved from one press to another according to processing needs.

- **CUSTOMISABLE HEIGHT ADJUSTMENT = PERFECT ALIGNMENT AND STABILITY**

The double height adjustment with **respect to the die** and also with **respect to the hemming tool** will put the sheet exactly where it needs to be.

- **INTEGRATED PRECISION TOOLS = AVOIDANCE OF ERRORS AND REJECTS**

The front register with feed rate display, together with the laser line generator for drawing the bending line directly on the sheet metal and the front slewing bearing that fluidly directs the workpiece, are **all tools integrated on UP Vario Bench** for maximum precision.

This portable frontal support for press brakes **facilitates the work of the operators**, benefiting them in terms of **production results** and consequently making you more **competitive on the market**.

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Triveneta Impianti S.r.l.

OPTIONALS

for UP Vario Bench

VB UP TURN

COD. 101 TUR

Turntable application for UP Vario Bench

An applicable slewing bearing allows the direction of the workpiece front
to be adjusted by 360° smoothly and quickly, offering an additional level of control and precision
during the sheet metal bending process.

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VB UP MEASURE

COD. 101 MEA

Front register displayed for UP Vario Bench

UP Vario Bench trolley is equipped with a visualised front register designed for:

- **FACILITATING THE POSITIONING** of the sheet metal to be processed.

In addition, a feed quota viewer allows you to:

- **SET THE DESIRED POSITION PRECISELY**, ensuring consistent results.

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VB UP TRACK

COD. 101 TRA

Laser line generator for UP Vario Bench

To further increase accuracy, UP Vario Bench can include a laser line generator that **traces the bending line on the workpiece**.
This function is essential to ensure that each bend is made exactly at the desired point, **reducing errors and avoiding scrap**.

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Triveneta Impianti S.r.l.

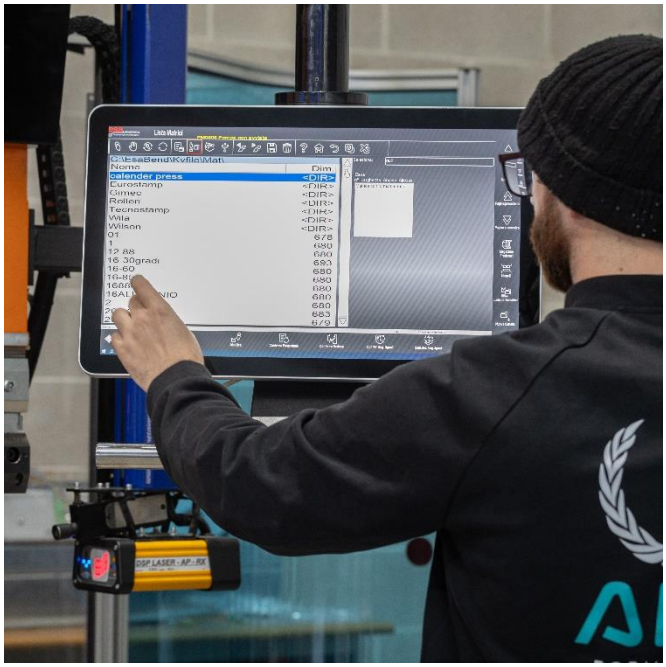
PERFORMANCE

simplify work, improve quality

CNC S860 W

COD. 013 D7

Top level performance for machines up to 7 axes



The wide screen allows excellent comfort for the operator
enhancing the advantages of a **full graphic interface**.

Automatic bending sequence calculations and Material Data Base
for predictive compensation are available (as options)
to reduce the wastage of material.

Crowning correction in degrees.
Dynamic crowning is available to **grant a perfect bend linearity**.

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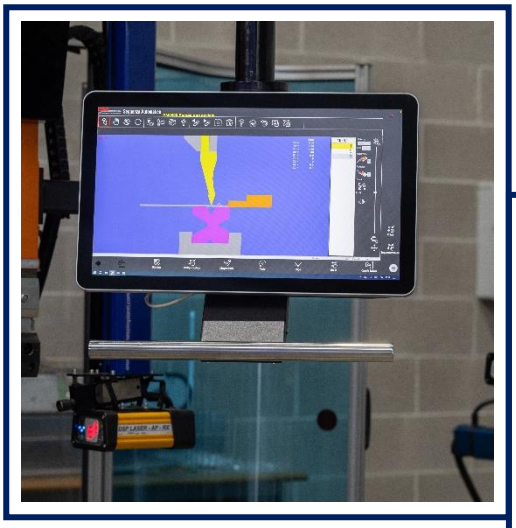
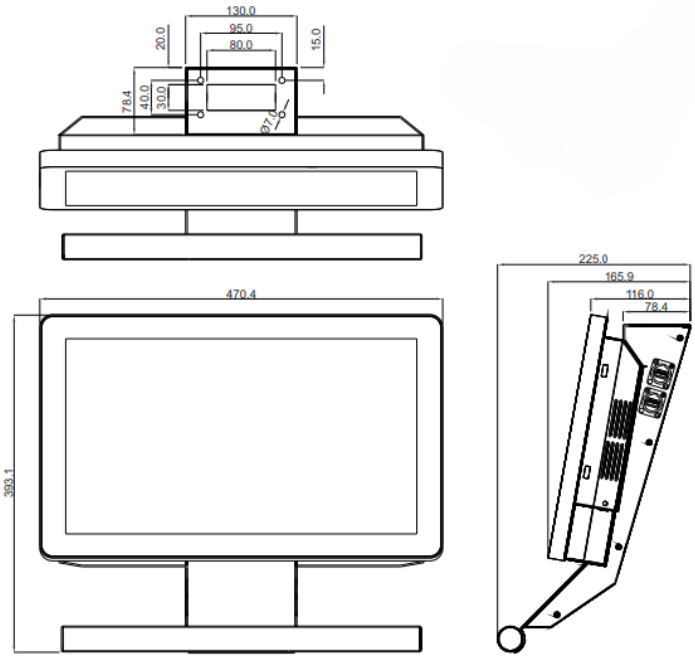
CNC S860 W

COD. 013 D7

Top level performance for machines up to 7 axes



- → Can handle up to 7 axes
- → FULL HD 19” touch screen display
- → Optional optimizer
- → Integrated 2D piece designer



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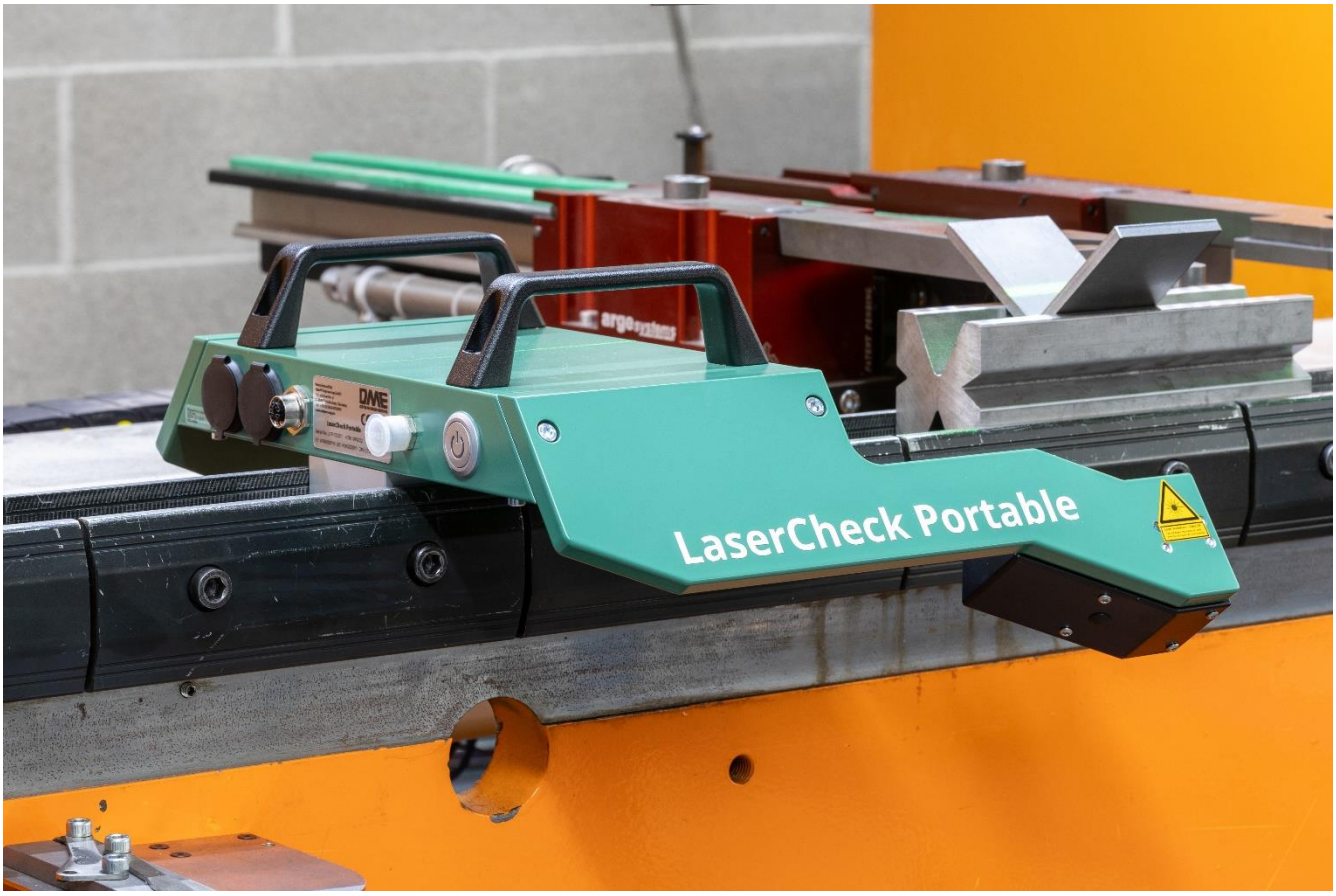
Angle Laser Check

COD. 024 ALC

Angle Laser Check is
the first portable device that
can detects the bend angle allowing to
automate the bending processa at the press brake



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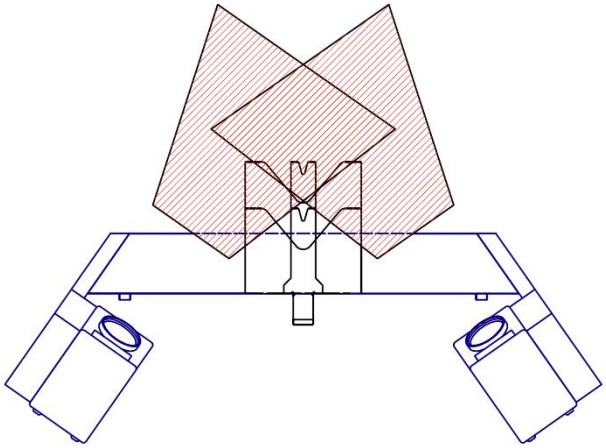
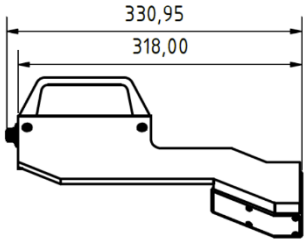
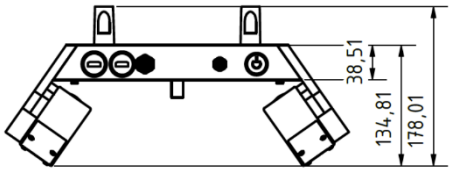
Angle Laser Check

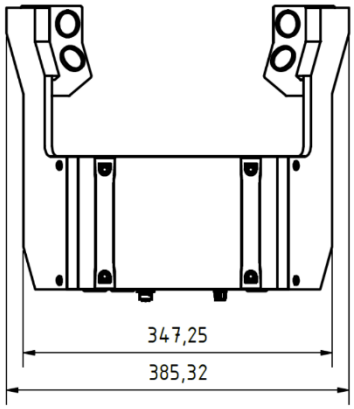
COD. 024 ALC

FUNCTIONING, FEATURES AND DIMENSIONS



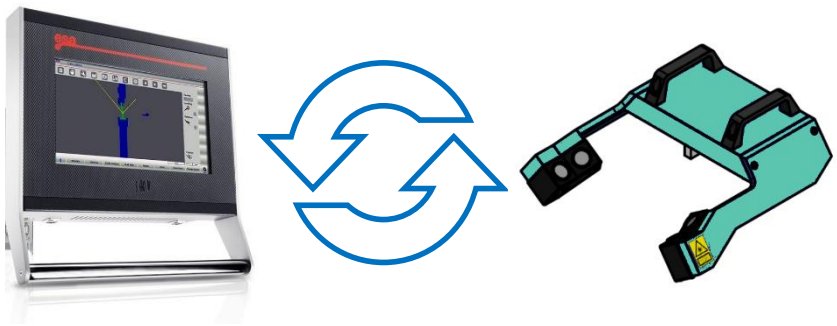






Angle Laser Check is a portable system transferable on multiple press brakes up to 3m that measures the bend angle of workpieces.

The installation of this detection device does not require any mechanical modification of your press brake, as it simply needs to be connected to your ESA numerical control.



Angle Laser Check is fixed in the die by magnets and is already fully wired and calibrated.

MAIN FEATURES:

- Tool area: V-die width V6-V60 and V-die height 55-85 or 85-110
- Measurement range: 30-180° bending angle
- Operative distance: between 90 and 220mm
- To be connected to the press brake via TCP/IP or Modbus (ESA)
- Accuracy: +/- 0.2°

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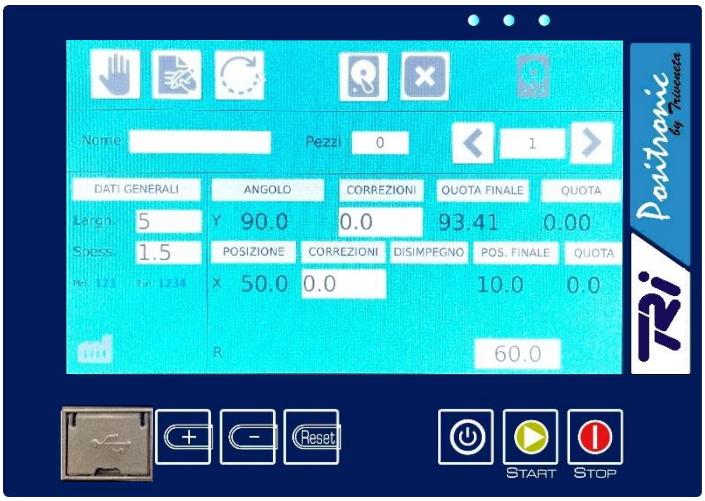
TRIVENETA SISTEMI

Numerical Control for Torsion Bar

COD. 027 7 P

Numerical Control Positronic 7” with dedicated software for torsion bar press brake.



GENERAL CHARACTERISTICS

- → Display: 7” WVGA1 - 8bit - 280cd/m2 ±60°C
- → Dimension: 250 x 150 x 66mm
- → Touch: resistive 4 wires
- → Alimentation: 24Vdc ±10% 2Amax (20Wtyp)
- → CPU: 32 BIT 400MHz
- → Flash Memory: 64/128 MB
- → RAM Memory: 64/128 MB
- → Keys: 6
- → Connectors: removable with screw terminal
- → Protection: IP65 (front) / IP20 (back)
- → Battery: 3 months/24h recharge/100 cycles
- → Buzzer: 70Db 4KhZ
- → Temperature: 0…50°C
- → Possibility to save up to 100 programmes 99 cycles

MODULES MANAGEMENT

- → **Input**: 80 (PNP 24V) / **Output**: 80 (PNP 24V 1A PROTETTE)
- → Encoder Inputs: 4/6 (A/B/Z – 200kHz)
- → STEP/DIR Outputs: 4/6 (RS422 1MHz)
- → Analogic Outputs: 6/8 (±10V 10mA 16bit)
- → Analogic Inputs: 8 (0…10V/POT/0…20m/PT100 16bit)
- → STEP BY STEP Outputs: 2
- → RS232 and RS485: 2 and 2
- → Ethernet: 1 (10/100)
- → USB: 2

ALIMENTATION

- → Alimentation: 24Vdc ±10% 2A
- → RS232: 1 (115.2Kb/s max)
- → Ethernet: 1 (10/100 BaseT)
- → USB: 1 (2.0 Host 5Vdc 100mAmax)
- → Can bus: 1 (1Mb/s max 120Ω)
- → Fuse: 1 (F2A

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TRIVENETA SISTEMI

Numerical Control for Torsion Bar

COD. 027 7 P

CONFIGURATOR

027 7	X_1	X_2	Y	R_1	R_2	* Recoil R	* Software S	V 24 DC
Positronic 7”								

S (Software)
- **0** - Numerical
- **1** - Angle

R (Recoil)
- **0** - Not Present
- **1** - Present

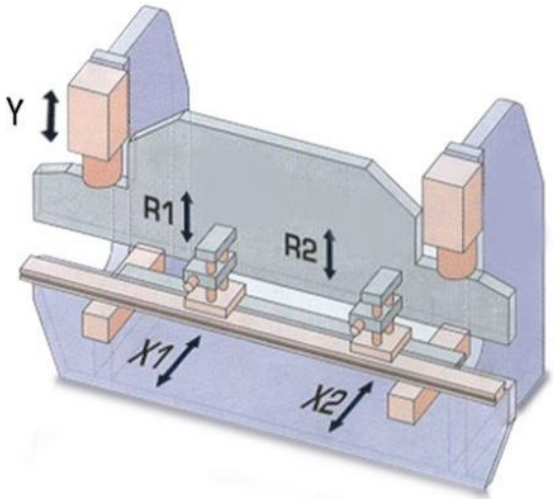
R_2
- **0** - No
- **1** - ON/OFF Output
- **2** - 010 Output
- **3** - ±010 Output
- **4** - Stepper Output

R_1
- **0** - No
- **1** - ON/OFF Output
- **2** - 010 Output
- **3** - ±010 Output
- **4** - Stepper Output

Y
- **0** - No
- **1** - ON/OFF Output
- **2** - 010 Output
- **3** - ±010 Output
- **4** - Stepper Output

X_2
- **0** - No
- **1** - ON/OFF Output
- **2** - 010 Output
- **3** - ±010 Output
- **4** - Stepper Output

X_1
- **0** - No
- **1** - ON/OFF Output
- **2** - 010 Output
- **3** - ±010 Output
- **4** - Stepper Output



* Function with potentiometer for stapling

* Numerical or angle control software

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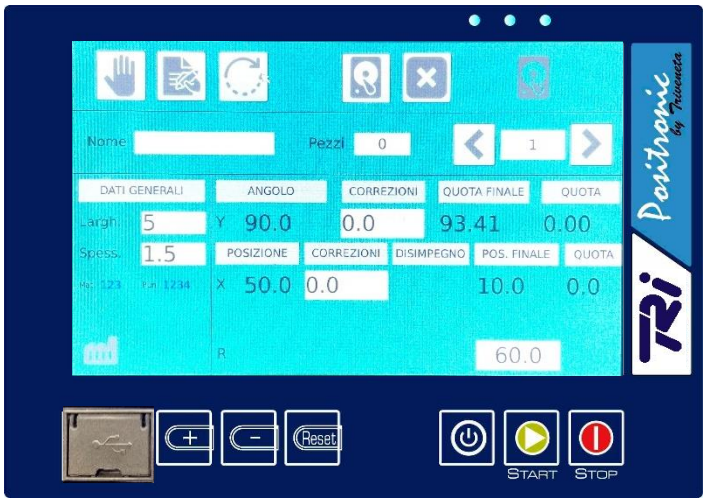
TRIVENETA SISTEMI

Numerical Control for Torsion Bar

COD. 027 12 P

Numerical Control Positronic 12” with dedicated software for torsion bar press brake.



GENERAL CHARACTERISTICS

- → Display: TFT 12” SVGA - 8bit - 280cd/m2 ±60°C
- → Dimensioni: 340 x 250 x 85mm
- → Touch: resistivo 5 fili
- → Alimentazione: 24Vdc ±10% 2Amax (20Wtyp)
- → CPU: 32 BIT 400MHz
- → Memoria Flash: 64/128 MB
- → Memoria RAM: 64/128 MB
- → Tasti: 6
- → Connettori: estraibili con morsetto a vite
- → Protezione: IP65 (frontale) / IP20 (retro)
- → Batteria: durata 3 mesi / ricarica 24h / 100 cicli
- → Buzzer: 70Db 4KhZ
- → Temperatura: 0…50°C
- → Possibility to save up to 100 programmes 99 cycles

MODULES MANAGEMENT

- → **Input**: 80 (PNP 24V) / **Output**: 80 (PNP 24V 1A PROTETTE)
- → Encoder Inputs: 4/6 (A/B/Z – 200kHz)
- → STEP/DIR Outputs: 4/6 (RS422 1MHz)
- → Analogic Outputs: 6/8 (±10V 10mA 16bit)
- → Analogic Inputs: 8 (0…10V/POT/0…20m/PT100 16bit)
- → STEP BY STEP Outputs: 2
- → RS232 and RS485: 2 and 2
- → Ethernet: 1 (10/100)
- → USB: 2

ALIMENTATION

- → Alimentation: 24Vdc ±10% 2A
- → RS232: 1 (115.2Kb/s max)
- → Ethernet: 1 (10/100 BaseT)
- → USB: 1 (2.0 Host 5Vdc 100mAmax)
- → Can bus: 1 (1Mb/s max 120Ω)
- → Fuse: 1 (F2A

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Numerical Control for Torsion Bar

COD. 027 12 P

CONFIGURATOR

027 12	X_1	X_2	Y	R_1	R_2	* R	* S	V
Positronic 12”								24 DC

* Recoil
* Software

S
- **0** - Numerical
- **1** - Angle

R
- **0** - Not Present
- **1** - Present

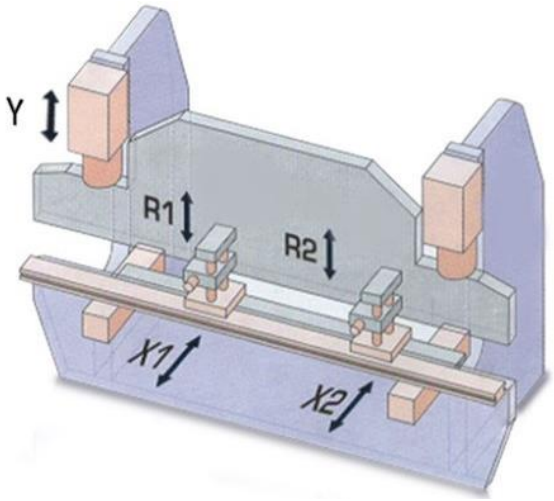
R_2
- **0** - No
- **1** - ON/OFF Output
- **2** - 010 Output
- **3** - ±010 Output
- **4** - Stepper Output

R_1
- **0** - No
- **1** - ON/OFF Output
- **2** - 010 Output
- **3** - ±010 Output
- **4** - Stepper Output

Y
- **0** - No
- **1** - ON/OFF Output
- **2** - 010 Output
- **3** - ±010 Output
- **4** - Stepper Output

X_2
- **0** - No
- **1** - ON/OFF Output
- **2** - 010 Output
- **3** - ±010 Output
- **4** - Stepper Output

X_1
- **0** - No
- **1** - ON/OFF Output
- **2** - 010 Output
- **3** - ±010 Output
- **4** - Stepper Output



* Function with potentiometer for stapling

* Numerical or angle control software

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Kit Sostitution for Shears

COD. 016 S

Sostitution kit for shears
FROM PRG 923 TG TO POSITRONIC 3 AXES

The kit allows an easy and fast replacement of your shear positioner with a 7" high definition touch screen with an intuitive use

FROM
PRG 923 TG

TO
POSITRONIC

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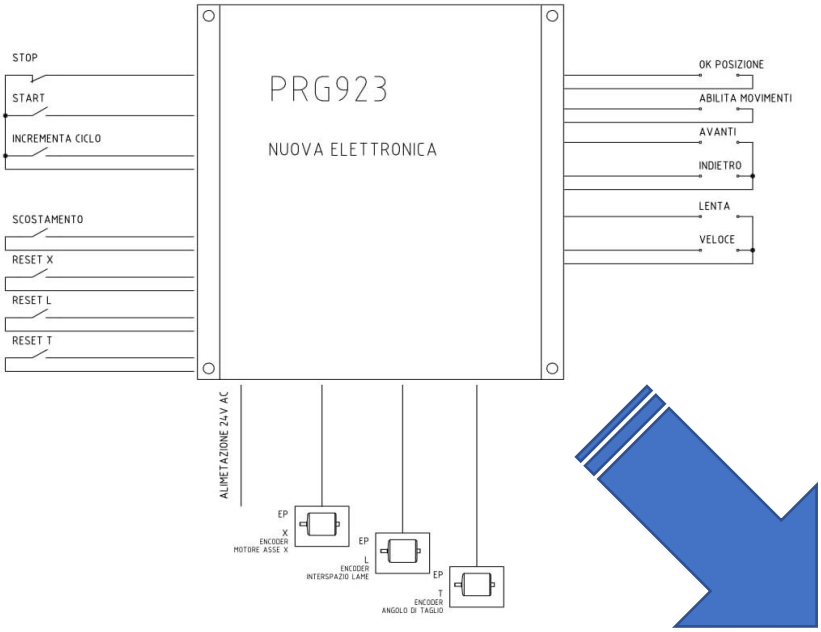
COD. 016 S

Sostitution kit for shears
FROM PRG 923 TG TO POSITRONIC 3 AXES



TECHNICAL FEATURES: PRG 923 TG

- Power supply: 24 V C.A. + 20% -10%
- Power consumption: 20 VA
- Power output for encoder or optical line: 12 V DC 80mA stabilized for each axis
- Control of the movement of the relay axes with interlocked contacts between:
  INCREMENT / DECREMENT and between SLOW / FAST
- Relay ENABLE output
- O.K. POSITION output Relay
- Electrically decoupled inputs via optocouplers
- 5-decade high-brightness LED display + negative sign
- Waterproof and anti-abrasion polycarbonate keyboard with tactile feel
- Electronic circuit made entirely with CMOS technology, RISC technology micro controller
- Memory capable of containing 99 programs consisting of 16 cycles each

TECHNICAL FEATURES: POSITRONIC

- Power supply: 24V 1A
- 7 "color display 800x480
- Mechanical keyboard 6 keys
- Industrial touchscreen Resistive technology
- Polyester screen printing for industrial environments

DIMENSIONS

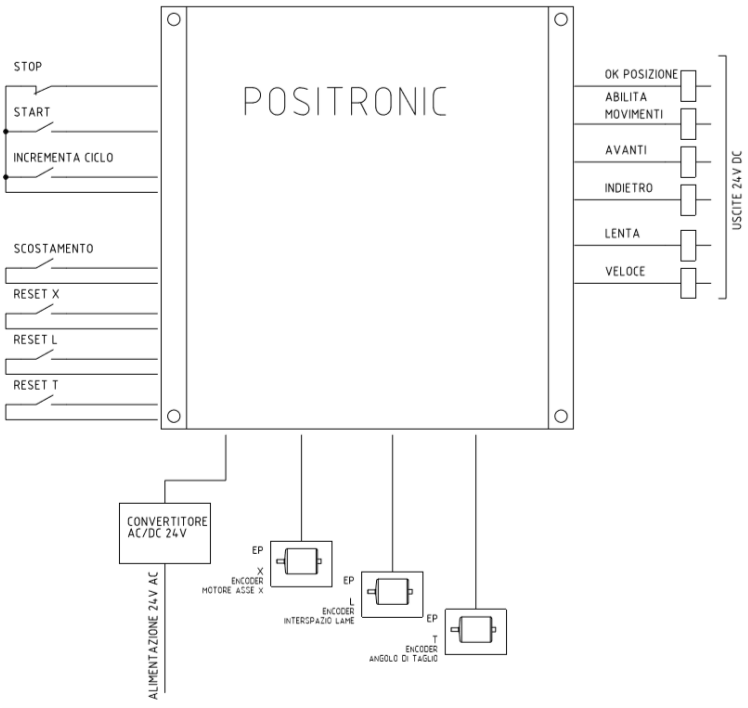
- Frontal H: 162mm / L: 231mm
- Depth P: 47mm

INSTALLABLE CARDS

- 16 digital inputs PNP 24V
- 16 digital outputs PNP 24V max 1A

Axes EC7AS_031 board configured with:

- 4 encoder inputs NPN / PUSH PULL / LINE DRIVER 5-24V
- 2 analog outputs +/- 10V 16 bit



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Kit Sostitution for Shears

COD. 016 SE

Kit Sostitution for Shears
FROM ELGO TO POSITRONIC 4 AXES

The Kit allows an easy and fast replacement of your shear positioner with a 7" high definition touch screen with an intuitive use

FROM ELGO:

- → **TYP 85**
- → **TYP 87P**
- → **TYP 89**

TO POSITRONIC

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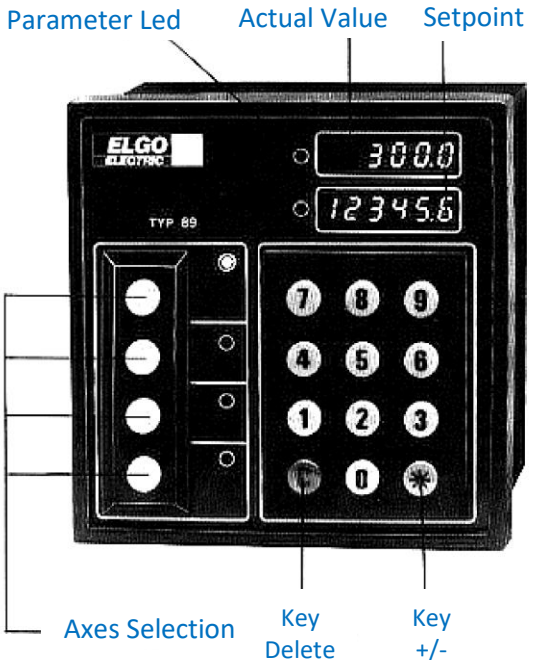
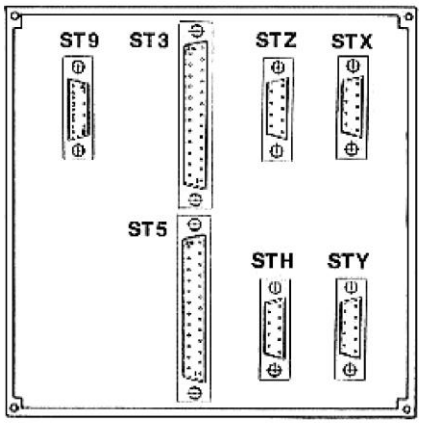
Kit Sostituzione per Cesoie

COD. 016 SE

Kit di sostituzione per cesoie
DA ELGO A POSITRONIC 4 ASSI



Plug Assignment



ST3
Input signals/ Triage

STX/Y/Z/H
Pulserless Connection

ST5
Output signals

ST9
Supply

TECHNICAL FEATURES: POSITRONIC

- → Power supply: 24V 1A
- → 7 "color display 800x480
- → Mechanical keyboard 6 keys
- → Industrial touchscreen Resistive technology
- → Polyester screen printing for industrial environments

DIMENSIONS

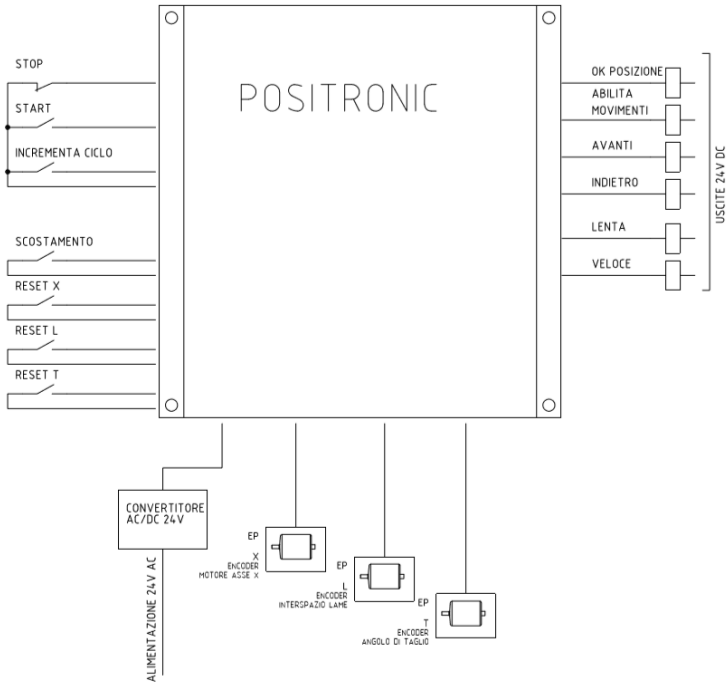
- → Frontal H: 162mm / L: 231mm
- → Depth P: 47mm

INSTALLABLE CARDS

- → 16 digital inputs PNP 24V
- → 16 digital outputs PNP 24V max 1A

Axes EC7AS_031 board configured with:

- → 4 encoder inputs NPN / PUSH PULL / LINE DRIVER 5-24V
- → 2 analog outputs +/- 10V 16 bit



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Backgauge SMART 500

COD. 029 500

Backgauge suitable for torsion bar and RG press brakes.
Run from 500mm to 1000mm.

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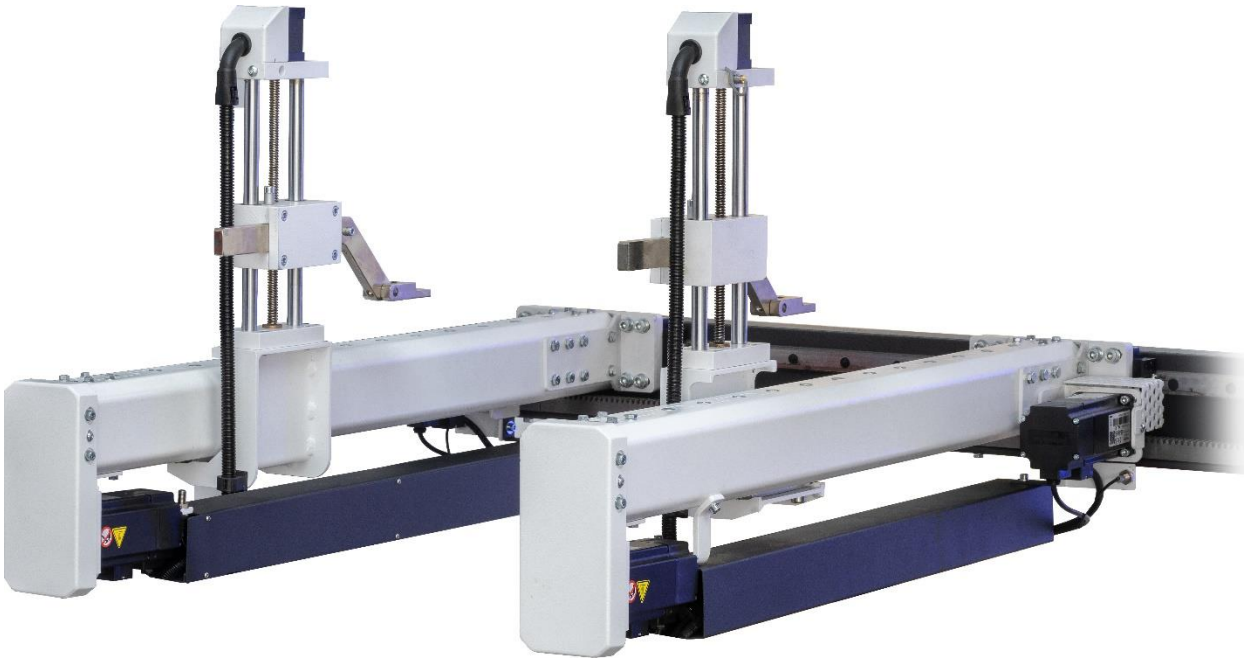
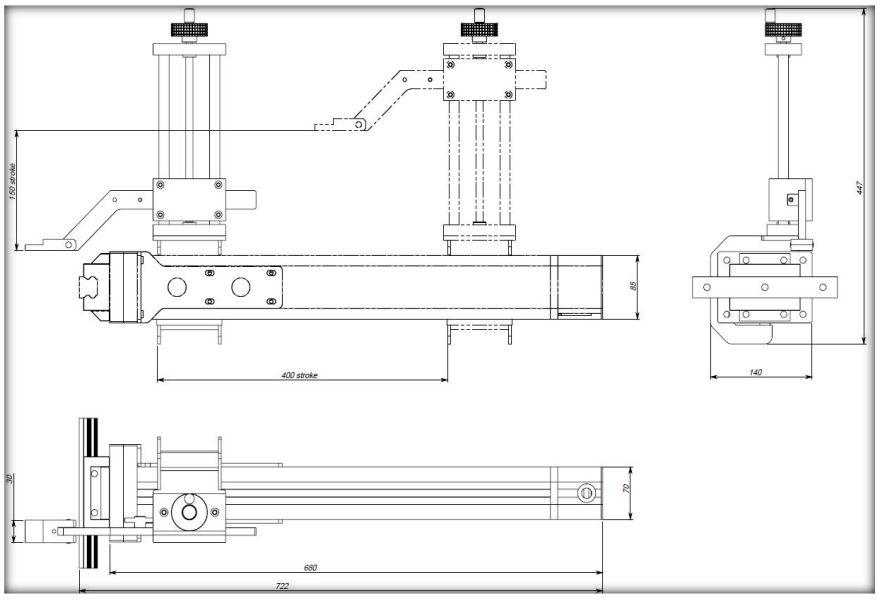
Backgauge SMART 1000

COD. 029 1000

Backgauge for **torsion bar and RG press brakes**.
Suitable for machines up to 60 Ton.
Run from 1000mm to 2500mm.





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PRG 910A

COD. 019 A

Mono-axis programmable positioner

The PRG 910A positioner positions a motorized axis in MANUAL and AUTOMATIC mode.
It is equipped with a counter that can be programmed when working in automatic mode whose function is to **count the number of repetitions** that have occurred.

TECHNICAL FEATURES:

- Power supply: 24 V c.a. +20 -10
- Power consumption: 8 VA
- Encoder power supply or optical line output: 12 V DC 100mA
- Frequency max. 10 KHz count with x4 encoder multiplication
- Relay outputs, axis command with interlocking of contacts between: INCREMENT / DECREMENT and between SLOW / FAST
- 6-day high brightness LED display + negative sign
- Waterproof and anti-abrasion polycarbonate keyboard
- Memory for machine constants and EEPROM totalizer
- Power / down supervisor circuit guaranteeing extremely high security in data backup
- Panel drilling dimensions for the 138x68 recess

FUNCTIONS

→ PRG 910/A is supplied with a **DEVIATION function**, that can increase the axis position of a value selected by the operator when the relevant input is being closed.

→ PRG 910/A is also supplied with the **TOTALIZER function**, which allows you to visualize the absolute number of times that the cycle increasing input is being closed.

→ PRG 910A has also a **MEMORY DESK**, where it is possible to write the necessary parameters, called "machine constants", for the correct running of the powered axis.

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PRG 911

COD. 019 B

Mono-axis programmable positioner

The PRG 911 positioner can position a motorized axis in
MANUAL, SEMI-AUTOMATIC, AUTOMATIC and AUTOMATIC CONTINUOUS mode.
The axes enabled with the appropriate keys are positioned manually or semi-automatically, while in automatic and continuous mode, by executing a previously memorized program.

TECHNICAL FEATURES:

- Power supply: 24 V c.a. +20 -10
- Power consumption: 8 VA
- Power output for encoder or optical line: 12 V DC 100mA
- Frequency max. 10 KHz counting with x4 encoder multiplication
- Relay outputs, axis command with interlocking of contacts between: INCREMENT / DECREMENT and between SLOW / FAST
- 6-day high brightness LED display + negative sign for
- the position, 2 decades for cycles, 2 decades for programs
- Memory for programs and machine constants on EEPROM
- Power / down supervisor circuit guaranteeing extremely high security in data backup
- Waterproof and anti-abrasion polycarbonate keyboard
- Panel drilling dimensions for the 138x68 recess

FUNCTIONS

→ PRG 911 has a memory capable of holding up to **99 programs**, from number 1 up to 99, and each program can include **up to 20 positions**, which may have **99 repetitions**.

→ PRG 911 is supplied with a **DEVIATION function**, that can be started with the suitable button and can increase the axis position of a value selected by the operator when the relevant input is being closed.

→ PRG 911 has also a **MEMORY DESK**, where it's possible to write the necessary parameters, called "machine constants", for the running of the powered axis.

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PRG 920

COD. 019 C

Two parallel axis programmable positioner

The PRG 920 positioner can position two motorized axes in
MANUAL, SEMI-AUTOMATIC, AUTOMATIC and AUTOMATIC CONTINUOUS mode.
The PRG 920 positions manually or semi-automatically the axes enabled with the appropriate keys, while in automatic and continuous mode, by executing a previously memorized program.

TECHNICAL FEATURES:

- Power supply: 24 V c.a. +20 -10
- Power consumption: 20 VA
- Power output for encoder or optical line: 12 V DC 100mA
- Frequency max. of the 10KHz count with x4 multiplication
- Control of the movement of the relay axes with interlocked contacts between: INCREMENT / DECREMENT and between SLOW / FAST
- 5-day high-brightness LED display + negative sign for each axis
- 2-year high brightness LED display for the program number
- 2-day high brightness LED display for the cycle number
- Waterproof and anti-abrasion polycarbonate keyboard
- Memory for "machine constants" and EEPROM programs
- "Intelligent" axes completely independent
- Power / down supervisor circuit guaranteeing extremely high security in data backup
- Drilling dimensions of the panel for the 186x92 recess

FUNCTIONS

→ PRG 920 has a memory capable of holding up to **99 programs**, from number 1 up to 99, and each program can include **up to 20 positions each axis**, and these positions may have **99 repetitions**.

→ PRG 920 is supplied with a **DEVIATION function**, that can be started with the suitable button and can increase the axis position of a value selected by the operator when the relevant input is being closed.

→ PRG 920 has also a **MEMORY DESK**, where the parameters necessary to the functioning of the two axis are stored; these parameters are called machine constants and they are completely indipendent between the two axis.

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Manual Turret SMART

COD. 039

MANUAL Turret for Backgauge model SMART

Turret axis R manually adjustable

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Automatic Turret SMART

COD. 040

AUTOMATIC Turret for Backgauge model SMART

Turret axis R automatically adjustable

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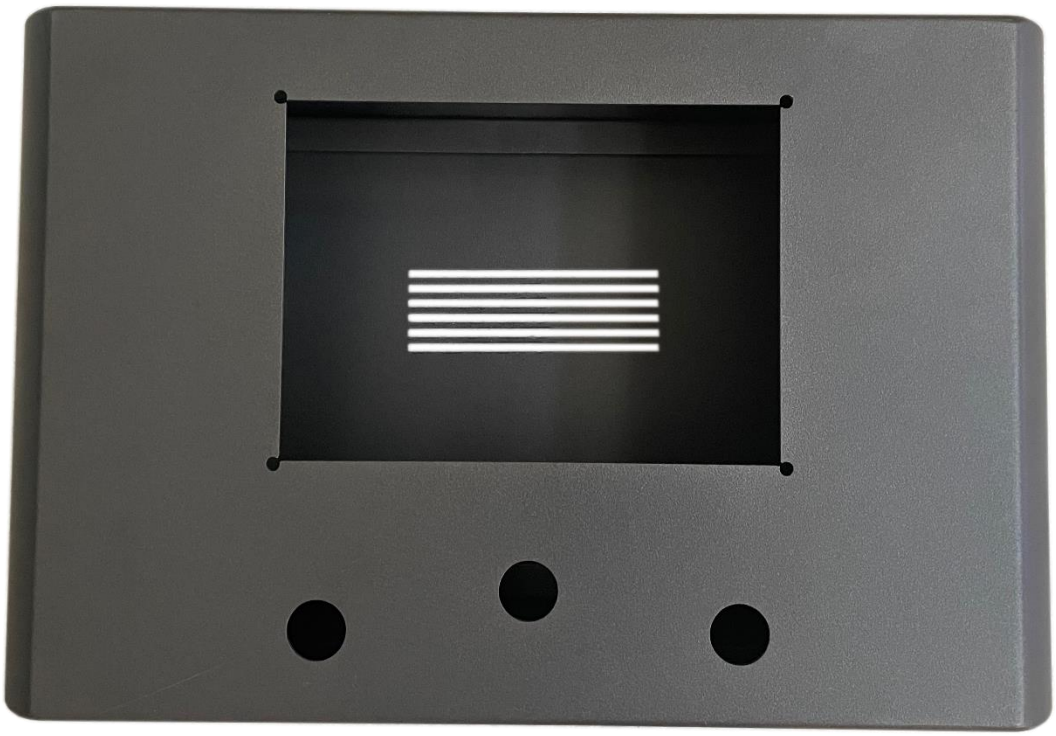
Numerical Control Box 7”

COD. 027 7 BO

Numerical control Positronic 7” containment box
for torsion bar press brake



BOX DIMENSIONS

275 x 420 x 115 mm

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TRIVENETA SISTEMI

Numerical Control Box 12”

COD. 027 12 BO

Numerical control Positronic 12” containment box
for torsion bar press brake

BOX DIMENSIONS

355 x 460 x 130 mm

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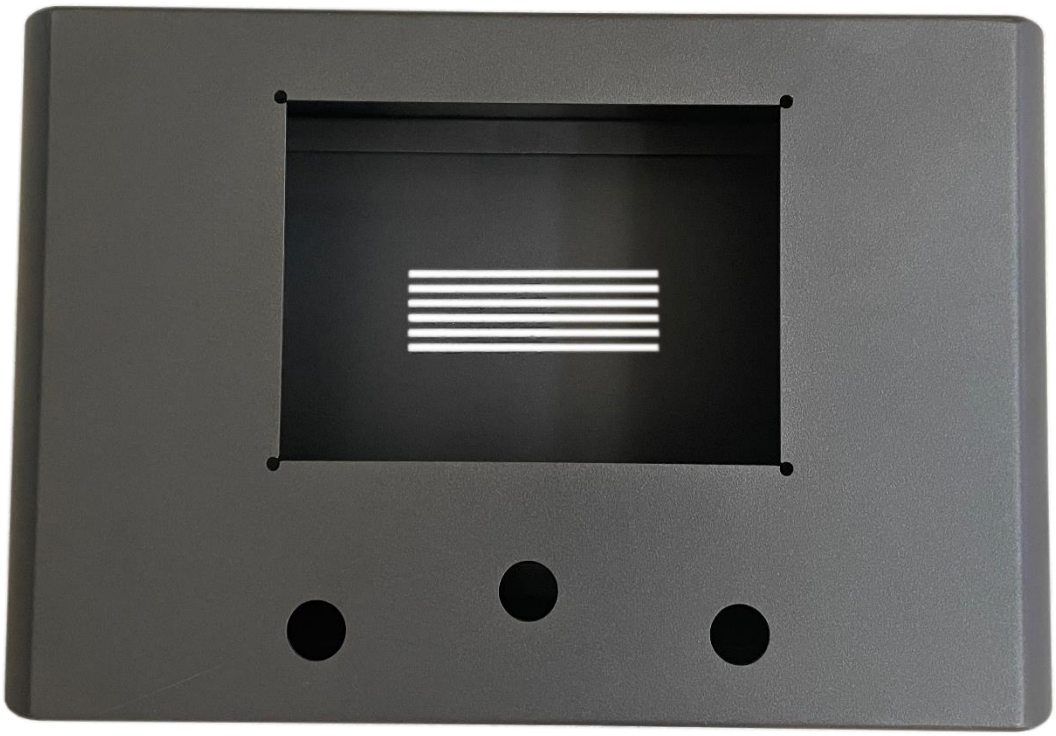
Numerical Control Box 7”

COD. 016 7 BO

Numerical control Positronic 7” box for shear



BOX DIMENSIONS

275 x 420 x 115 mm

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Numerical Control Box 12”

COD. 016 12 BO

Numerical control Positronic 12” box for shear

BOX DIMENSIONS

355 x 460 x 130 mm

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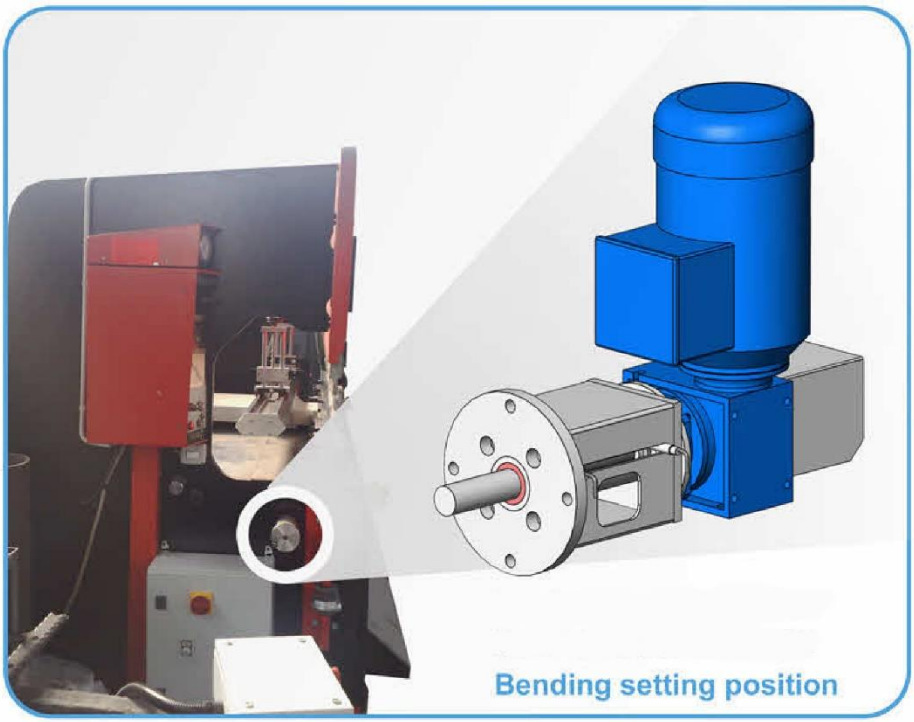
Motorized Bending Setting

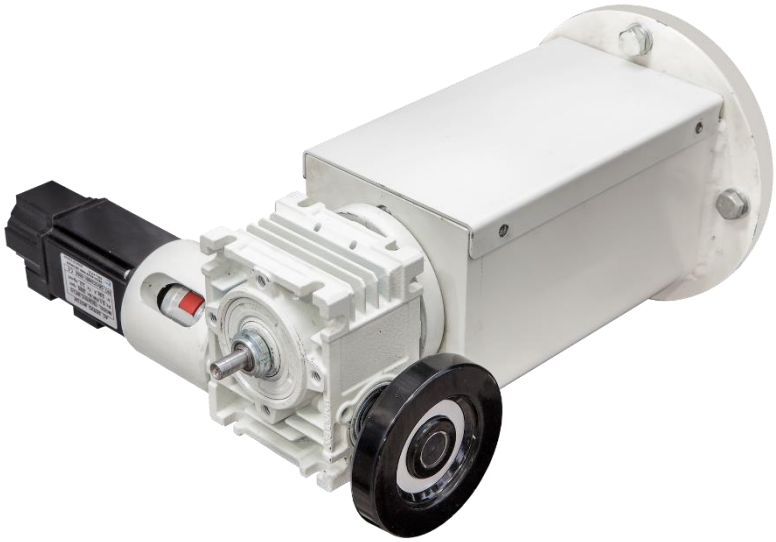
COD. 020

Y Axis Motorized Bending Setting for RG Press Brakes



Features:

- → Motor 1500 G 220 V AC 3F
- → Riduction Gear 1/40
- → Run 200mm
- → Limit Switch Sensor min max



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B-SNIPER 01

COD. 024 01

LASER TRACKING DEVICE B-SNIPER 01

(AMADA/PROMECAM STANDARD)

To be installed on the intermediary of your press brake, it gives immediate speed and precision to your work.

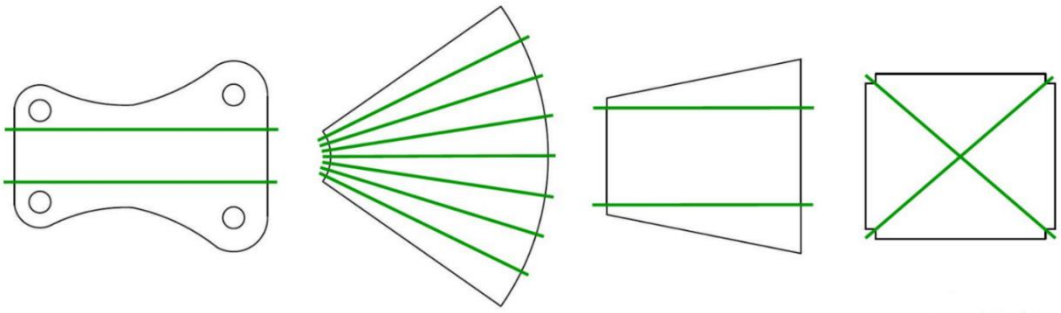
→ ***How many pieces did you throw away this year?***
→ ***How much time have you wasted?***
→ ***How much money did you not collect because of this?***

With B-Sniper 01 **no more positioning errors** even with large radius punches.

Especially with large pieces, diamonds, calendaring and irregular or conical shapes B-Sniper 01 is an unbeatable tool:

UP TO MORE
THAN 67% OF TIME SAVED
IN POSITIONING

(data based on real tests and simulations)



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B-SNIPER 01

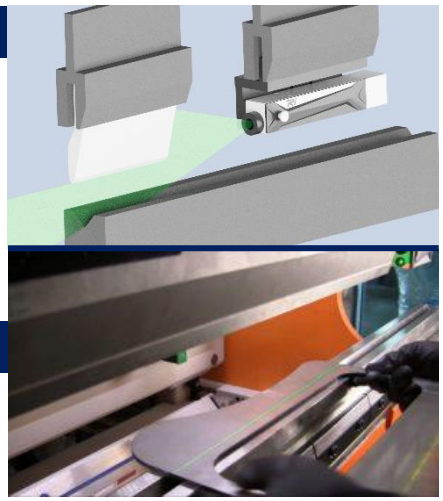
COD. 024 01

Mounted on the intermediary, B-Sniper 01 **traces a high visibility laser beam on the piece** to be bent to simulate the bending line. All that remains for the operator is to **match the references drawn on the piece to the line projected** by B-Sniper 01.

The peculiarity of B-Sniper 01 is to have the **upper part in the shape of a tool** with the consequent possibility of being mounted if necessary on all machines with the compatible standard.

WATCH THE VIDEO

WATCH THE VIDEO



Another great advantage of B-Sniper 01 is the possibility to **work even on very large machines** with two possibilities:

→ **SINGLE**: with a single device perfectly centered
→ **TWIN**: with two mirrored devices

This is possible as B-Sniper 01 has a symmetrical and reversible body and can, therefore, be reversed at will and **emit the beam from left to right and vice versa**.

Equipped with rechargeable batteries and battery charger, B-Sniper 01 is **very easy to install** on the intermediary of your press brake and is **immediately ready for use**.

LASER TECHNICAL FEATURES

Wavelength: 532nm
Power output: <5mW,
Output mode: continuous
Input voltage: 3,7 V DC
Operating current: < 300mA (<600mA per il 50mW)
Operating temperature: 20°C-30°C
Beam: linear (90° opening)
Divergence: 1.4mrad
Medium life: >4000 hours
Casing material: brass
Length: 31mm
Diameter: 12mm

TECHNICAL CHARACTERISTICS OF THE BATTERY CHARGER

Keenstone 26650 Universal Battery Charger 2 Slot
Display LCD
Provided Nr. 2 Rechargeable Batteries
Bacteries: Li-Ion SAMSUNG INR18650-35E 3,6V 3000mAh

BEAM VISIBILITY DURATION

Continuous duration: 10 hours
Batteries supplied: nr.2
Battery life supplied: 10 hours each

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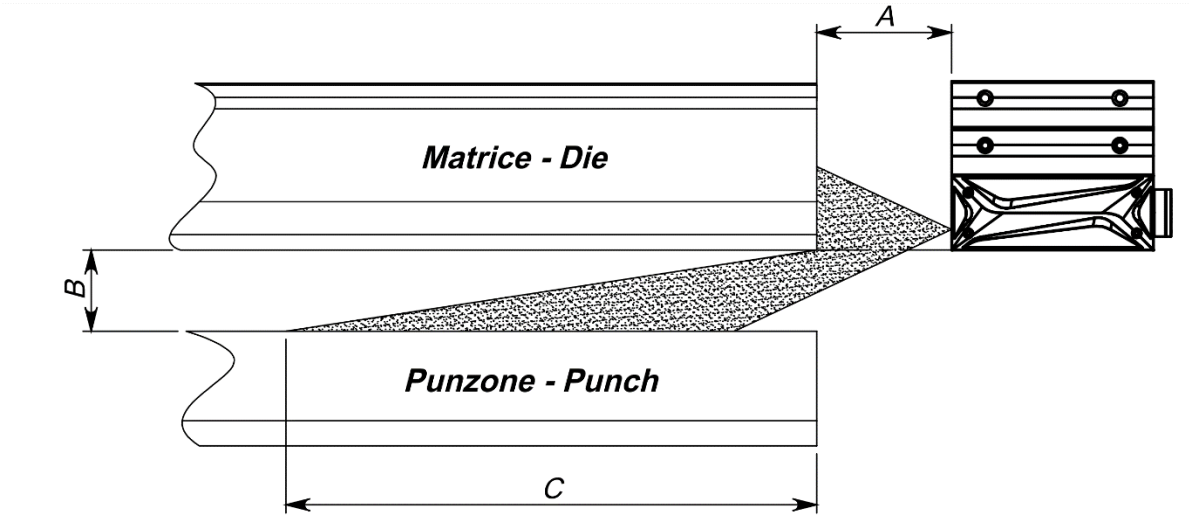
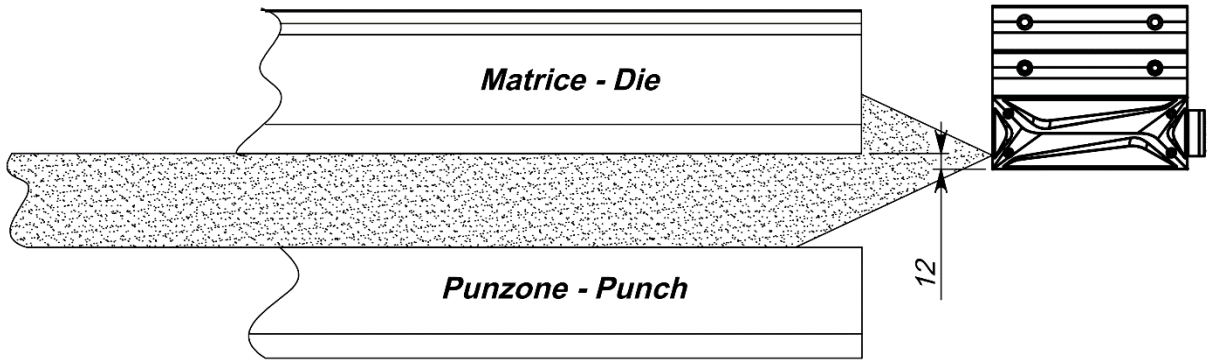
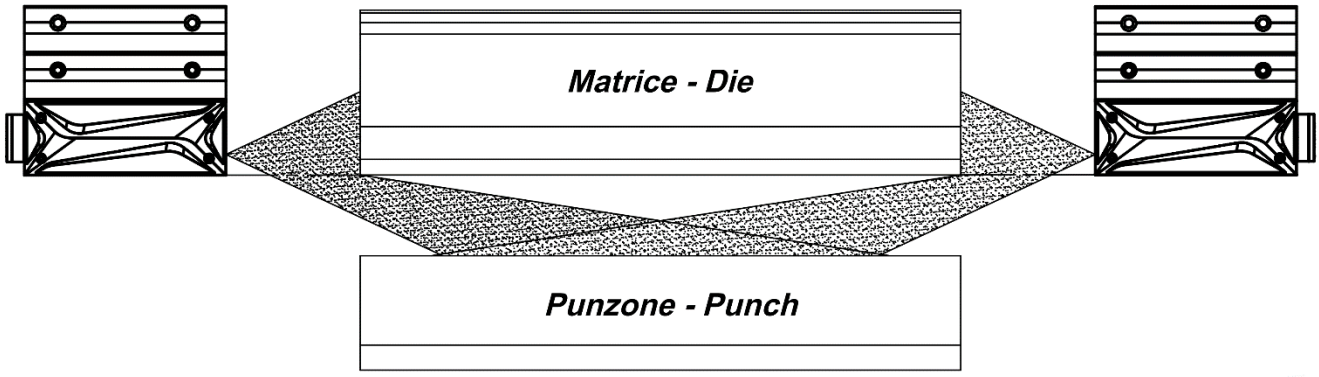
COD. 024 01



	B 100	B 150	B 200
A 100	C 900	C 1300	C 1800
A 200	C 1800	C 2800	C 3600
A 300	C 2800	C 4200	C 5500





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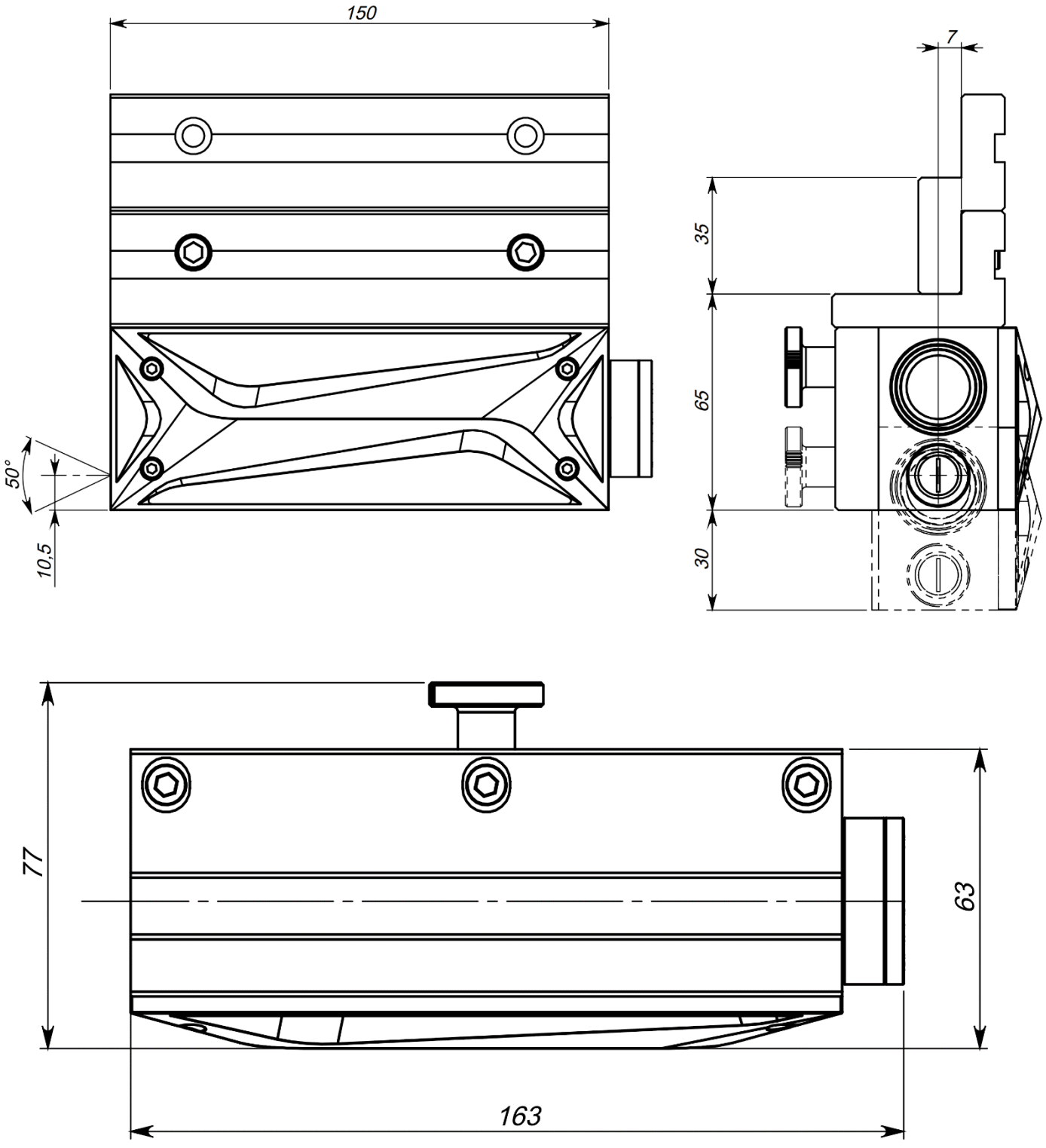

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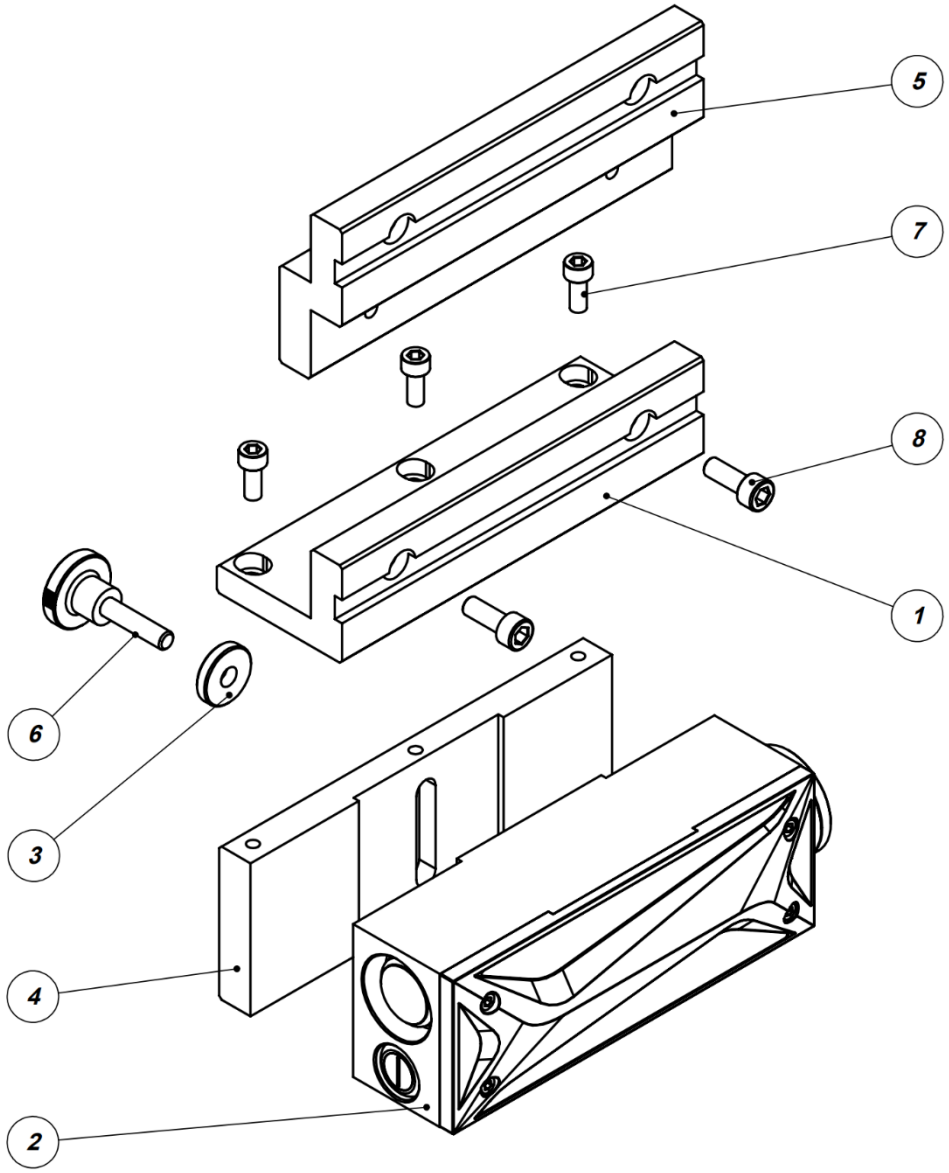

Pos	Codice	Descrizione	Q.tà
1	25072122	Piastra superiore	1
2	25072001	Laser Sniper	1
3	25072117	Rondella	1
4	25072123	Piastra laterale	1
5	25072124	Prolunga 100-130	1
6	90100223	Manopola DIN 464 M6x25 GN.29729	1
7	90020516	Vite TCEI M 5 x 12 UNI 5931 inox	3
8	90020602	Vite TCEI M 6 x 16 UNI 5931 inox	2

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B-SNIPER 02

COD. 024 02

LASER TRACKING DEVICE B-SNIPER 02

To be installed on the bracket of your press brake, it gives immediate speed and precision that pay off your work.

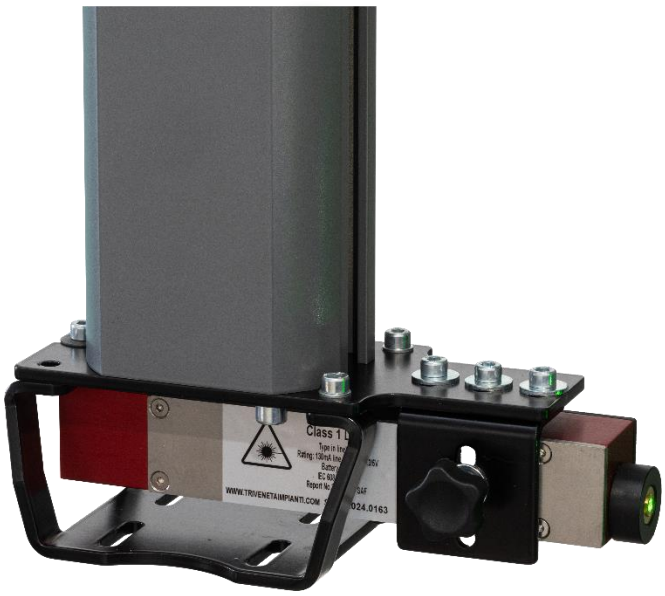
- → ***How many pieces did you throw away this year?***
- → ***How much time have you wasted?***
- → ***How much money did you not collect because of this?***

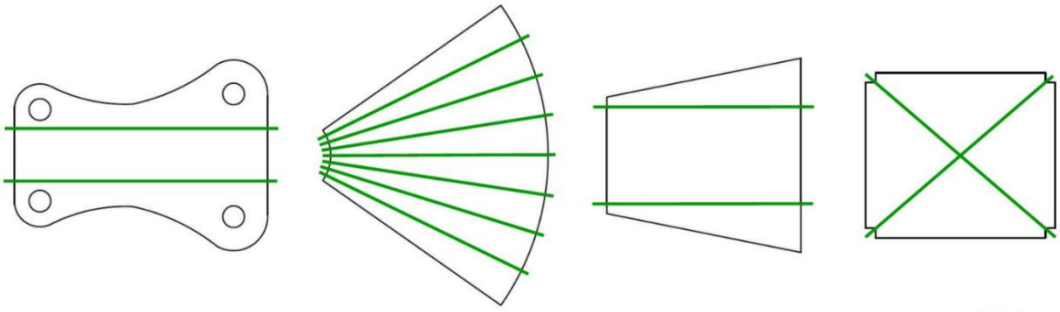
With B-Sniper 02 **no more positioning errors** even with large radius punches.

Especially with large pieces, diamonds, calendaring and irregular or conical shapes B-Sniper 02 is an unbeatable tool:

UP TO MORE THAN 67% OF TIME SAVED IN POSITIONING

(data based on real tests and simulations)





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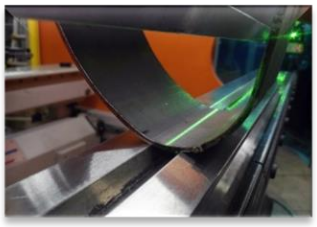
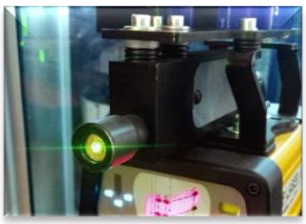
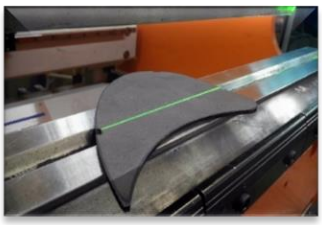
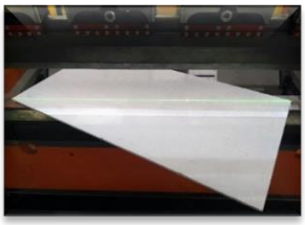
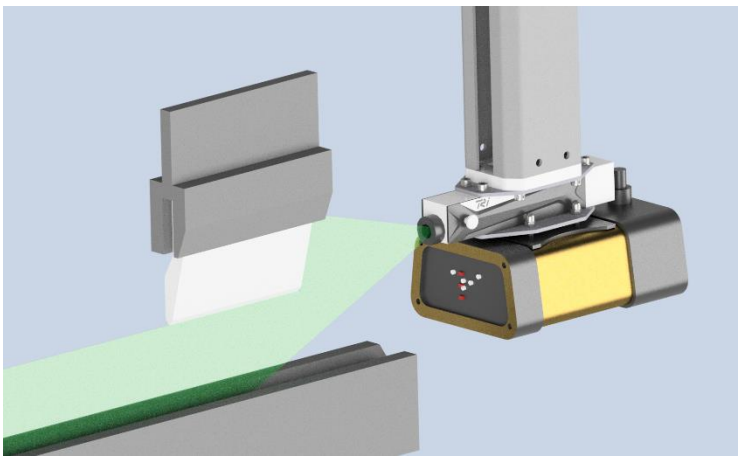
B-SNIPER 02

COD. 024 02

Mounted on the bracket, B-Sniper 02 **traces a high visibility laser beam on the piece to be bent** to simulate the bending line. The operator has just to **match the references traced on the piece to the line projected** by B-Sniper 02.

Universal installation and immediate and intuitive use,
thanks to B-Sniper 02 **some programming parts will no longer be necessary**,
with the **certainty of obtaining reliable results** even in multi-station.

Equipped with rechargeable batteries and battery charger, B-Sniper 02 is **very easy to install** on the bracket of your press brake and is **immediately ready for use**.

LASER TECHNICAL FEATURES

Wavelength: 532nm
Power output: <5mW,
Output mode: continuous
Input voltage: 3,7 V DC
Operating current: < 300mA (<600mA per il 50mW)
Operating temperature: 20°C-30°C
Beam: linear (90° opening)
Divergence: 1.4mrad
Medium life: >4000 hours
Casing material: brass
Length: 31mm
Diameter: 12mm

TECHNICAL CHARACTERISTICS OF THE BATTERY CHARGER

Keenstone 26650 Universal Battery Charger 2 Slot
Display LCD
Provided Nr. 2 Rechargeable Batteries
Bacteries: Li-Ion SAMSUNG INR18650-35E 3,6V 3000mAh

BEAM VISIBILITY DURATION

Continuous duration: 10 hours
Batteries supplied: nr.2
Battery life supplied: 10 hours each

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Single Bracket for B-Sniper 02

COD. 024 003 400

RUN 400mm

Simple and effective manual drive devices for B-Sniper 02.
Handling on a polizene skid.

- → Manual adjustment
- → Suitable for every type of machine
- → Practical, fast and competitive

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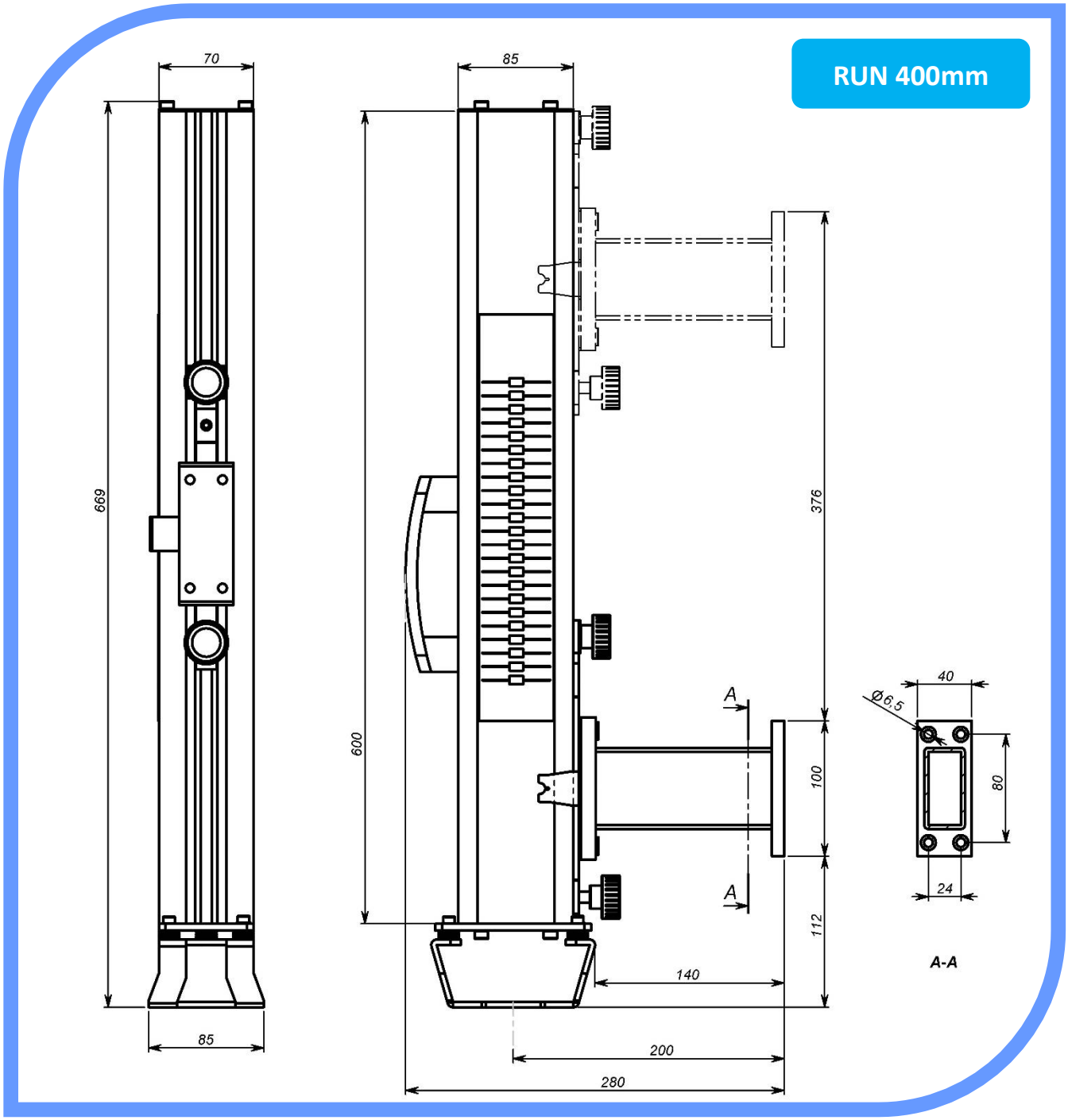
Single Bracket for B-Sniper 02

COD. 024 003 400



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Single Bracket for B-Sniper 02

COD. 024 003 600

RUN 600mm

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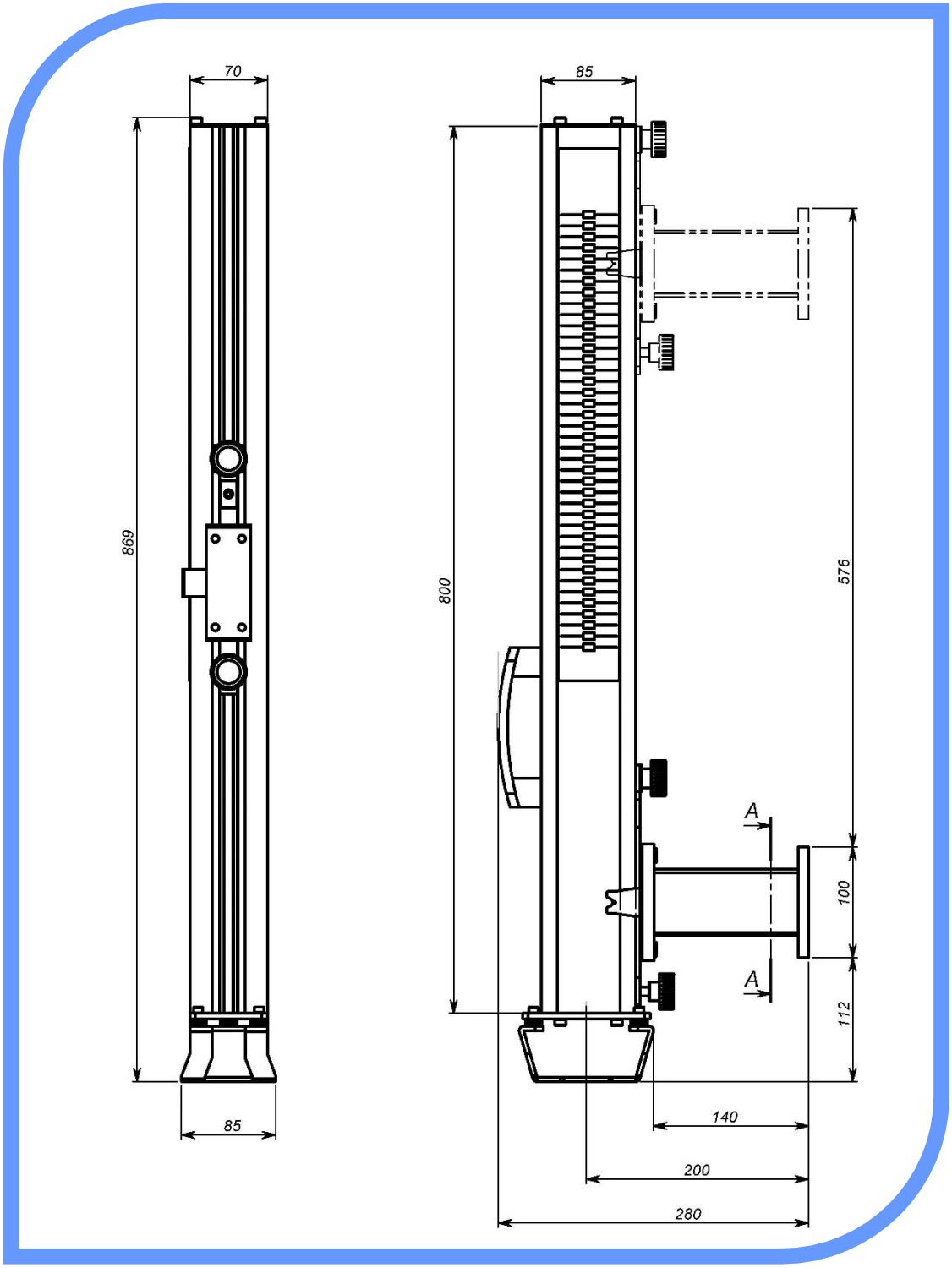
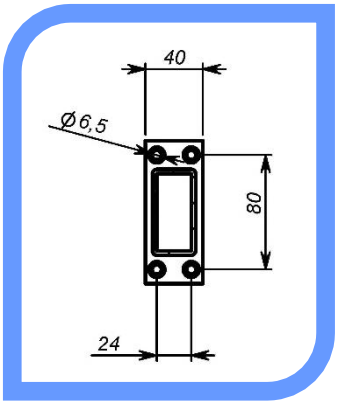
Single Bracket for B-Sniper 02

COD. 024 003 600



RUN 600mm



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Single Bracket for B-Sniper 02

COD. 024 003 800

RUN 800mm

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Handling on a polizene skid.

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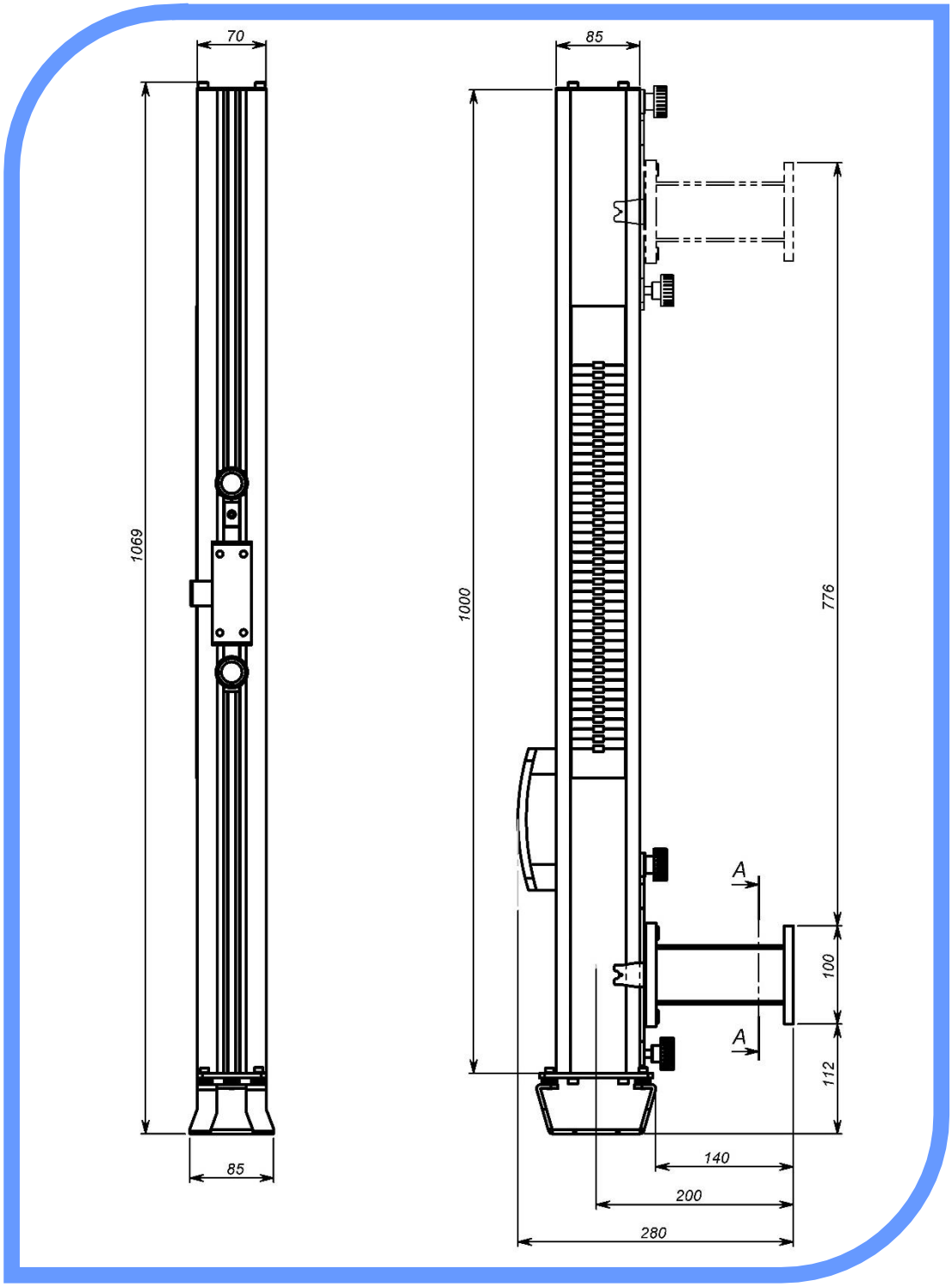
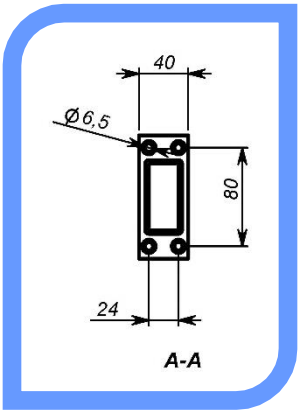
Single Bracket for B-Sniper 02

COD. 024 003 800



RUN 800mm



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Single Bracket for B-Sniper 02

COD. 003 1000

RUN 1000mm

Simple and effective manual drive devices for B-Sniper 02.
Handling on a polizene skid.

- → Manual adjustment
- → Suitable for every type of machine
- → Practical, fast and competitive

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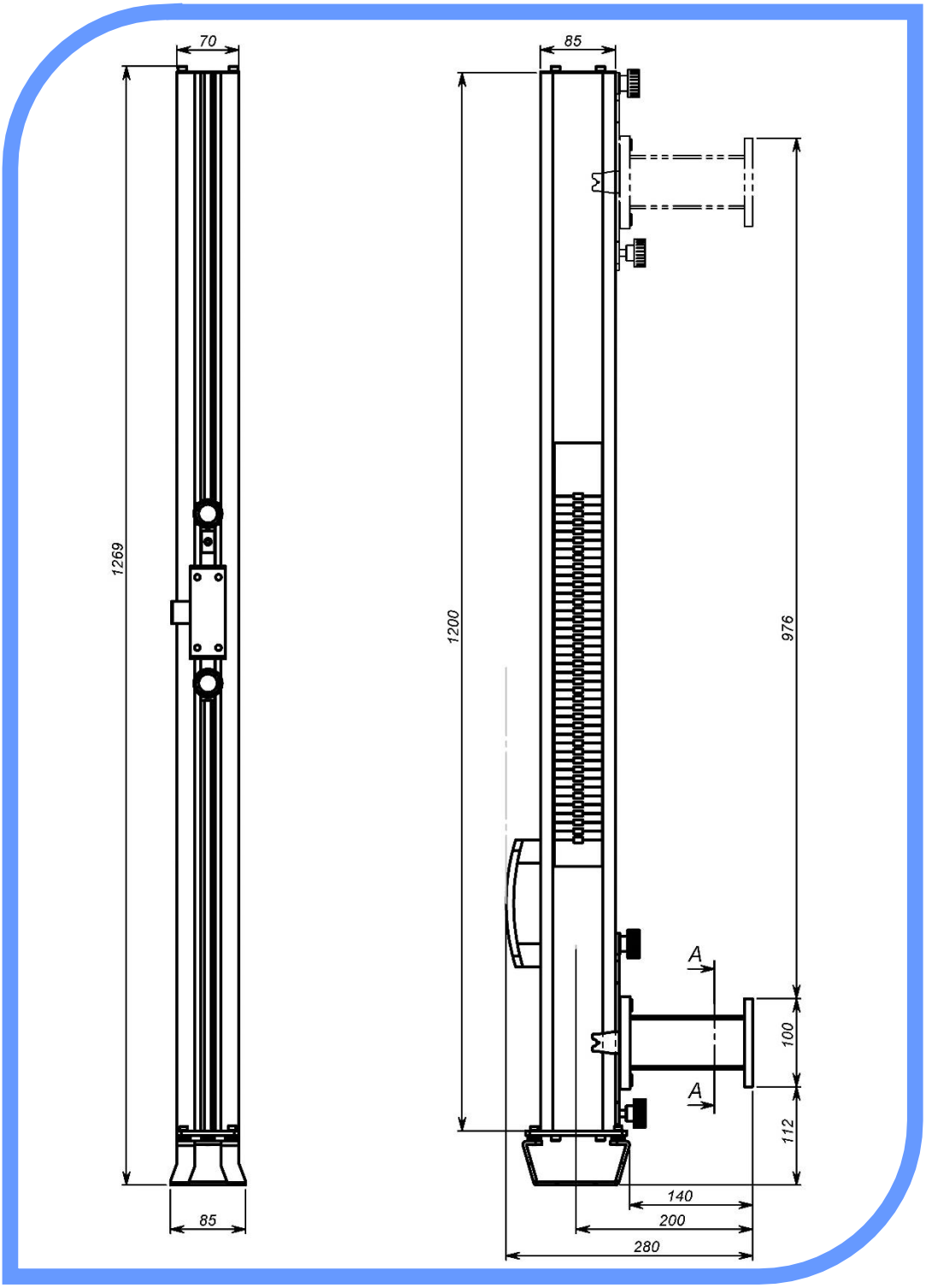
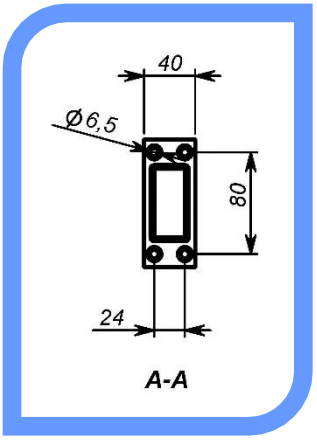
Single Bracket for B-Sniper 02

COD. 003 1000



RUN 1000mm



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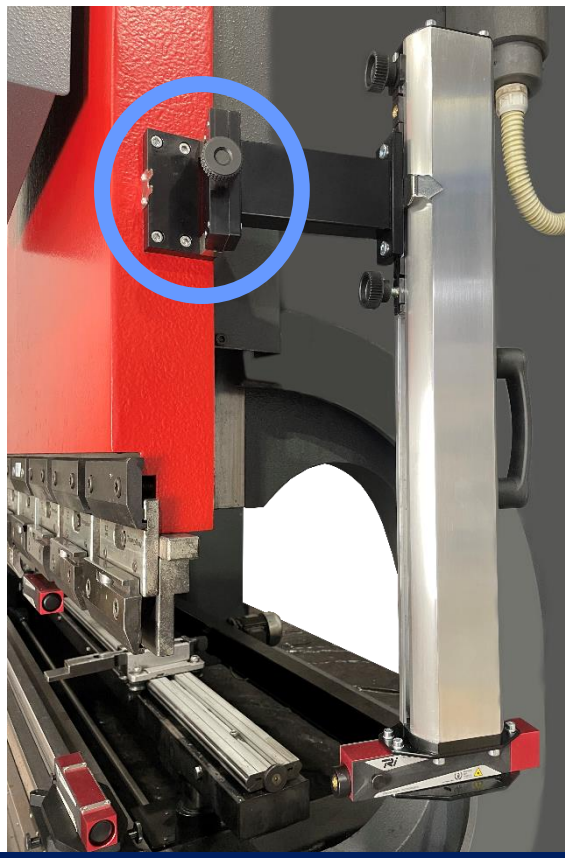
B-Sniper 02 Bracket Hinge

COD. 024 051

The LBH Hinge for B-Sniper 02 SMART Bracket is
a very useful device for **special machining or lateral punching** of the machine.

Moving the entire bracket will become a simple and fast operation.



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B-SNIPER 03

COD. 024 03

LASER TRACKING DEVICE B-SNIPER 03

To be installed on the die of your press brake, it gives immediate speed and precision that pay off your work.

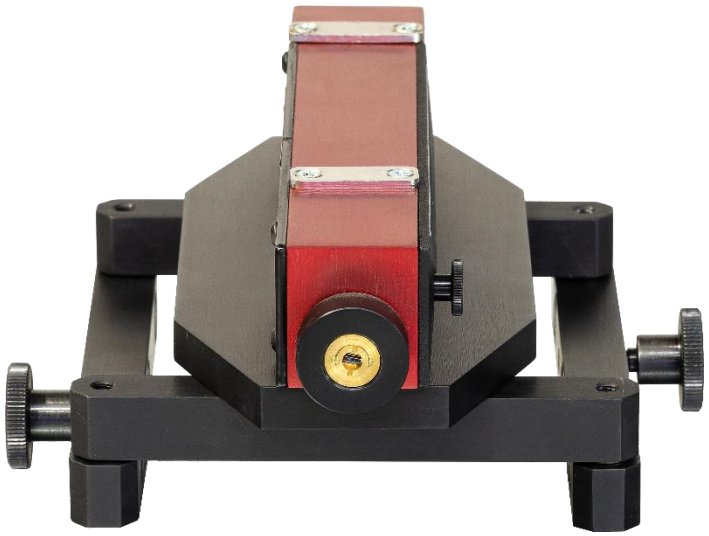
- → ***How many pieces did you throw away this year?***
- → ***How much time have you wasted?***
- → ***How much money did you not collect because of this?***

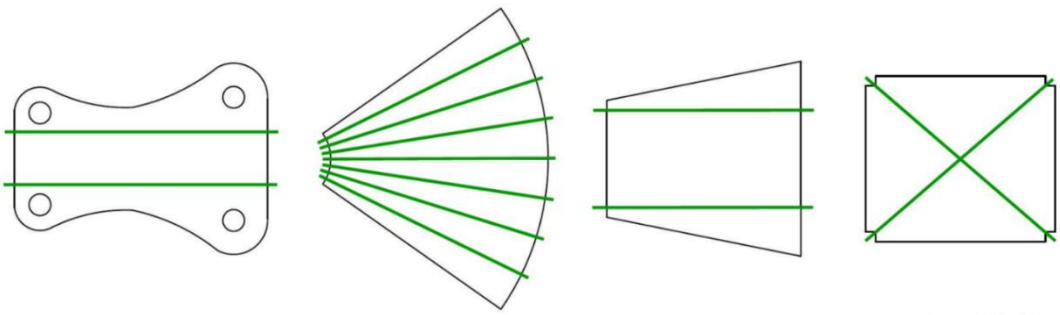
With B-Sniper 03 **no more positioning errors** even with large radius punches.

Especially with large pieces, diamonds, calendaring and irregular or conical shapes B-Sniper 03 is an unbeatable tool:

UP TO MORE THAN 67% OF TIME SAVED IN POSITIONING

(data based on real tests and simulations)





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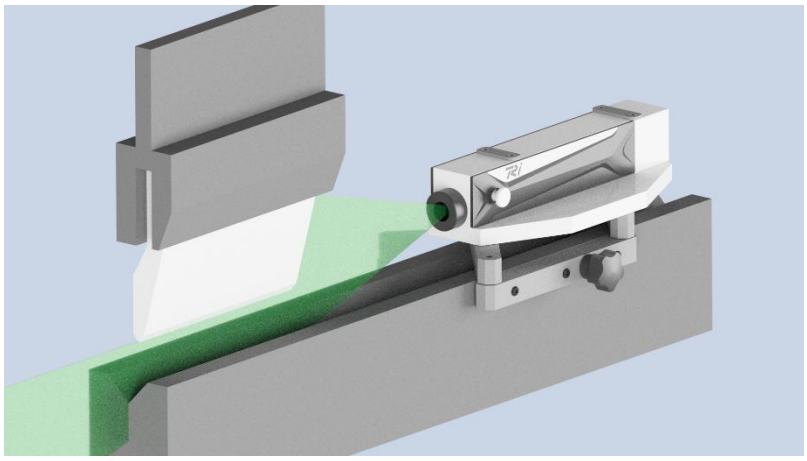
B-SNIPER 03

COD. 024 03

B-Sniper 03 **traces a high visibility laser beam on the piece** to simulate the bending line.
The operator has just to **match the references drawn on the piece to the line projected** by B-Sniper 03.

Once installed on the die, thanks to B-Sniper 03 **some programming parts will no longer be necessary**, with the **certainty of always obtaining reliable results** for all processes.



Equipped with rechargeable batteries and battery charger, B-Sniper 03 is **very easy to install** on the die of your press brake and is **immediately ready** for use.

LASER TECHNICAL FEATURES

Wavelength: 532nm
Power output: <5mW,
Output mode: continuous
Input voltage: 3,7 V DC
Operating current: < 300mA (<600mA per il 50mW)
Operating temperature: 20°C-30°C
Beam: linear (90° opening)
Divergence: 1.4mrad
Medium life: >4000 hours
Casing material: brass
Length: 31mm
Diameter: 12mm

TECHNICAL CHARACTERISTICS OF THE BATTERY CHARGER

Keenstone 26650 Universal Battery Charger 2 Slot
Display LCD
Provided Nr. 2 Rechargeable Batteries
Bacteries: Li-Ion SAMSUNG INR18650-35E 3,6V 3000mAh

BEAM VISIBILITY DURATION

Continuous duration: 10 hours
Batteries supplied: nr.2
Battery life supplied: 10 hours each

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B-SNIPER 04

COD. 024 04

LASER TRACKING DEVICE B-SNIPER 04

To be magnetically attached to your press brake, it gives immediate speed and precision that pay off your work.

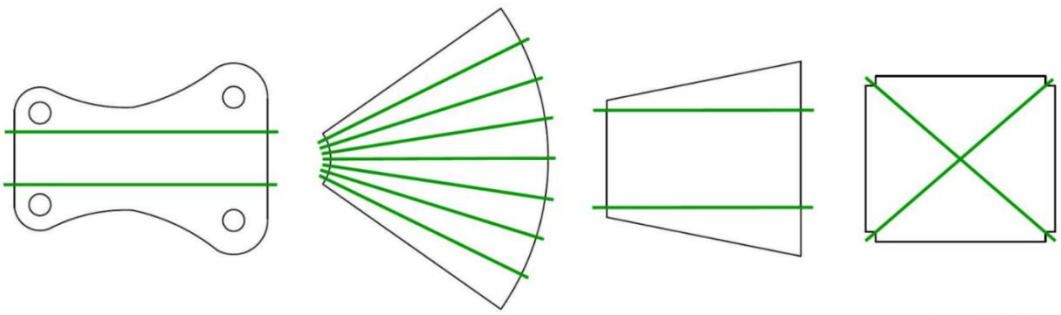
- → ***How many pieces did you throw away this year?***
- → ***How much time have you wasted?***
- → ***How much money did you not collect because of this?***

With B-Sniper 04 **no more positioning errors** even with large radius punches.

Especially with large pieces, diamonds, calendaring and irregular or conical shapes B-Sniper 04 is an unbeatable tool:

UP TO MORE THAN 67% OF TIME SAVED IN POSITIONING

(data based on real tests and simulations)



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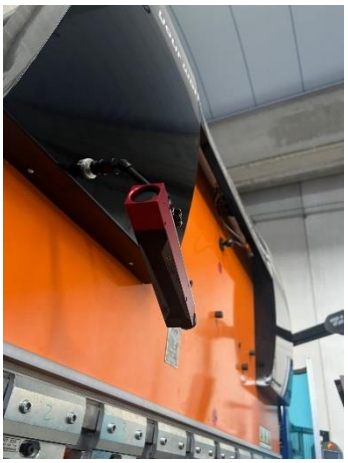
B-SNIPER 04

COD. 024 04

B-Sniper 04 **traces a high visibility laser beam on the piece** to simulate the bending line.
The operator has just to **match the references drawn on the piece to the line projected** by B-Sniper 04.

Once installed on the die, thanks to B-Sniper 04 **some programming parts will no longer be necessary**, with the **certainty of always obtaining reliable results** for all processes.



Equipped with rechargeable batteries and a battery charger, the B-Sniper 04 with its **articulated magnetic arm** is **very easy to attach** to the press brake and is **immediately ready** for use.

LASER TECHNICAL FEATURES

Wavelength: 532nm
Power output: <5mW,
Output mode: continuous
Input voltage: 3,7 V DC
Operating current: < 300mA (<600mA per il 50mW)
Operating temperature: 20°C-30°C
Beam: linear (90° opening)
Divergence: 1.4mrad
Medium life: >4000 hours
Casing material: brass
Length: 31mm
Diameter: 12mm

TECHNICAL CHARACTERISTICS OF THE BATTERY CHARGER

Keenstone 26650 Universal Battery Charger 2 Slot
Display LCD
Provided Nr. 2 Rechargeable Batteries
Bacteries: Li-Ion SAMSUNG INR18650-35E 3,6V 3000mAh

BEAM VISIBILITY DURATION

Continuous duration: 10 hours
Batteries supplied: nr.2
Battery life supplied: 10 hours each

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Triveneta Impianti S.r.l.

SAFETY

certified retrofitting: safe and compliant

Kit Base - DSP AP + PLC MCS

COD. 002 A S

DSP AP
LASER TX + RX
NORMAL VERSION

DSP AP emits a **visible laser barrier** which, made and placed as described in the EN12622 standard, **protects the press brake operator** against the risk of being crushed between the upper and lower part during the closing of the fold at high speed.

MCS is an electronic module whose Logic has been planned to **monitor and manage the systems and components present on a press brake** to ensure the safety of the bending process itself according to the EN12622 standard.

PLC MCS

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Kit Base - DSP AP + PLC MCS

COD. 002 B RG

DSP AP
LASER TX + RX
RG VERSION

DSP AP emits a **visible laser barrier** which, made and placed as described in the EN12622 standard, **protects the press brake operator** against the risk of being crushed between the upper and lower part during the closing of the fold at high speed.

MCS is an electronic module whose Logic has been planned to **monitor and manage the systems and components present on a press brake** to ensure the safety of the bending process itself according to the EN12622 standard.

PLC MCS

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Kit Base - DSP Standard+AL2

COD. 001 A A211

KIT BASE WITH DSP LASER STANDARD A211 - 230V AC

DSP
LASER TX + RX
A211

DSP emits a **visible laser barrier** which, made and placed as described in the EN12622 standard, **protects the press brake operator** against the risk of being crushed between the upper and lower part during the closing of the fold in high speed.

Module AL2 is an electronic module whose logic has been planned to **monitor and manage the systems and components present on a press brake** to ensure the safety of the bending process itself according to the EN12622 standard.

MODULO AL2
230V AC

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Kit Base - DSP Standard+AL2

COD. 001 A A211

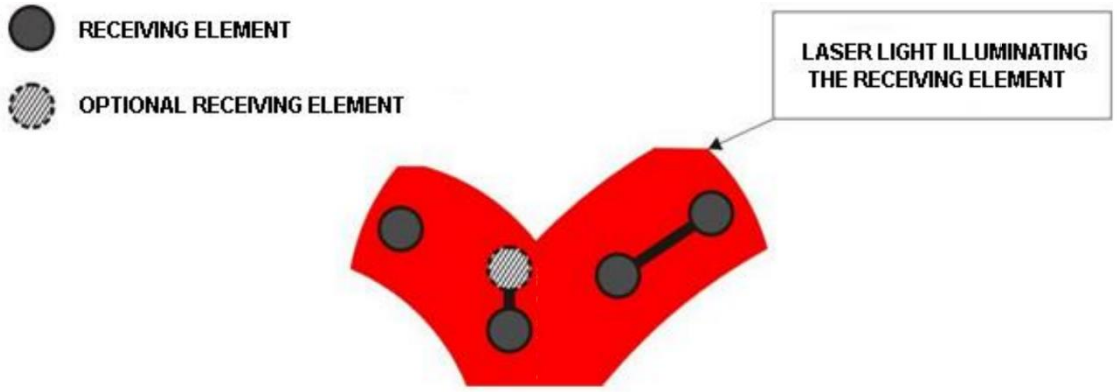
The safety device DSP LASER is a visible laser emission guard which, inserted in a more general control system, contributes to protect the operator in the use of press brakes for the cold working of the metals and is constituted by:

- one transmitter DSP LASER TX powered at 24Vac or 24Vdc,
- one receiver DSP LASER RX powered at 24Vac or 24Vdc which moreover includes: the logic for the control of the operation modes, the function of automatic monitoring of the overtravel and the two solid-state outputs OSSD,
- one DSP LASER AL module (optional) with a series of variations.

Each of them is enclosed within its own case.

The activation of the receiver is made possible only by the emission generated by the transmitter, which is electrically connected to by the synchronism. An emission generated by an identical transmitter, but not electrically connected with the receiver, cannot activate it.

Main task of “DSP LASER” is detecting, within the limits defined by the detection capacity of the instrument, the intrusion of any opaque physical element into the “detection area”. The detection area can be defined as a “laser light solid” which starts from the transmitter and arrives to the receiver and whose section is represented in Fig. 9.1. The interruption of the laser beams illuminating the receiving elements, causes the detection of the occurred interruption. The detection of the interruption of one or more of the receiving elements is then managed by the system to issue or not the passage to state OFF of the OSSD outputs. The device has been then designed to activate, in dangerous conditions, the functions for the stop of the movement of the dangerous parts.



WHOLE DETECTION AREA

These functions have been realized providing, in output from the two OSSD, two different ON/OFF electrical signals. The state ON corresponds to the condition for which the DSP LASER system does not detect the conditions for which the downwards movement of the machine must be inhibited or stopped, while the state OFF detects them. Various can be the causes for which the outputs are set to the state OFF. The main ones are: the lack of collimation between the two TX and RX components (caused, for example, by the intrusion of an element into the detection area), the lack of power supply to DSP LASER, 30 hours of continue operation, failed check of the stop space, failure of the DSP LASER equipment itself.

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Kit Base - DSP Standard+AL2

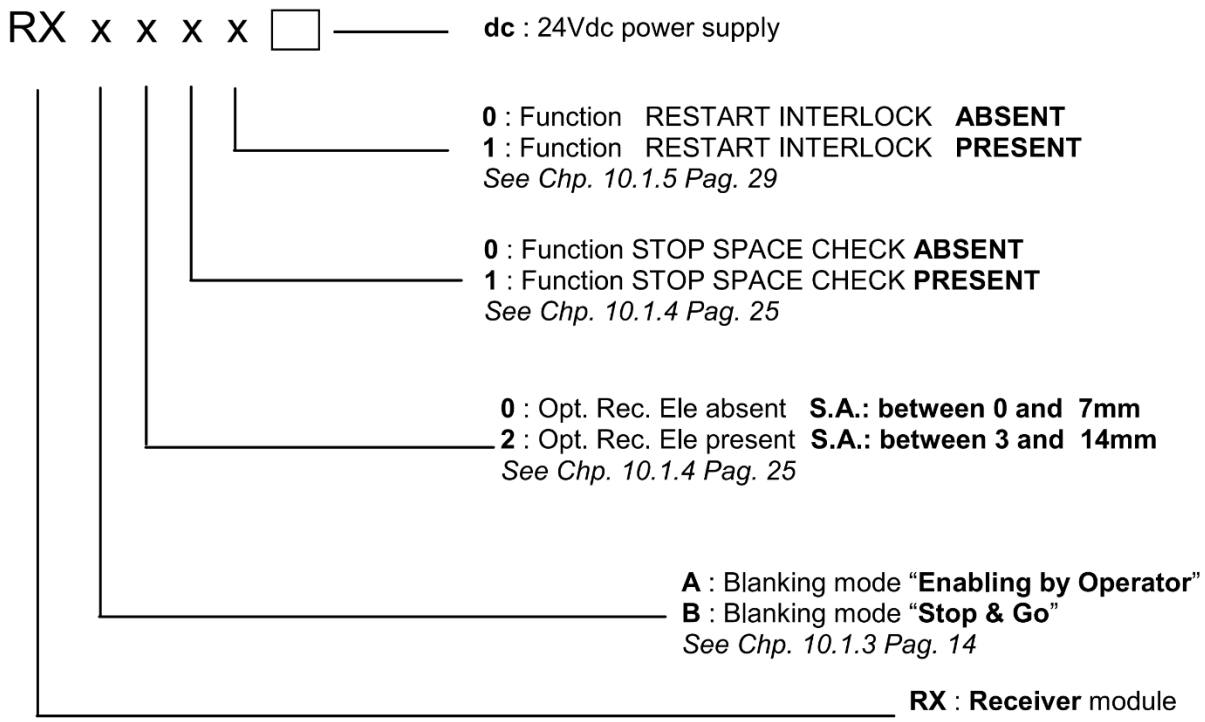
COD. 001 A A211

The main causes of fault or wrong operation are signalled by a precise configuration of the LEDs present in RX. For information see par.12.1. The OSSD outputs, properly inserted in the electric circuit of command of the dangerous part of the equipment, enable, in ON state, the possibility to command the movement (start function) and, vice versa, to inhibit or stop it in OFF state (stop function).

At last, the management of the procedures of stop, suspension and reactivation of the machine are entrusted to the main control board of the machine itself. DSP LASER is available in more versions which differ for the following main characteristics:

- Blanking type: “Stop&Go” or with “Enabling by operator”
- Central receiver: optional or in different positions, allowing the use with machines whose stop space is included within ranges of different values
- Function of check, at switch-on, of the presence/absence of the stop space
- 24Vdc power supply for TX and RX modules
- 24Vdc power module and OSSD relay outputs (ALdc)
- Power supply module with filter and power supply transformer by 220Vac or 24Vac (AL1B)
- Power supply module with filter and power supply transformer by 220Vac or 24Vac and OSSD outputs with relay (AL2B)

The codes identifying RX module of DSP LASER with the corresponding configuration are:



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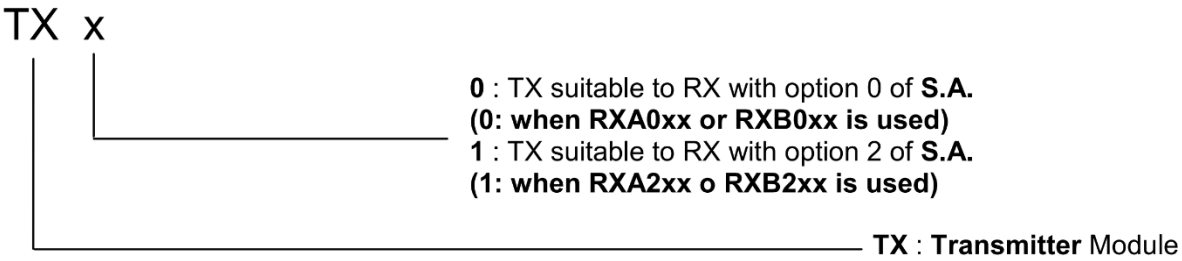
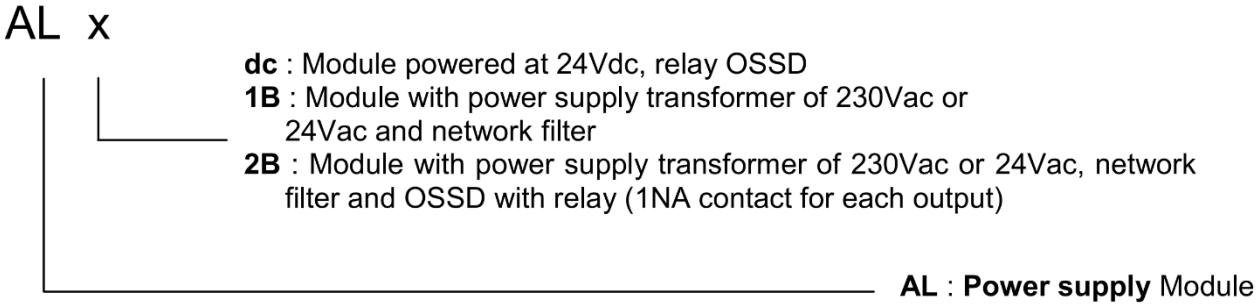
Kit Base - DSP Standard+AL2

COD. 001 A A211

The codes identifying TX module of DSP LASER with the corresponding configuration are:



The codes identifying AL module of DSP LASER with the corresponding configuration are:



The examples here below help to order the proper DSP model.
If you wish to order one DSP LASER module for a machine with stopping distance of 10mm, out-of-stroke test, anti-repetition pedal, Blanking of type A and 24Vdc power supply, the proper code to order is: RX A211 DC.
As consequence, you have to associate the transmitter TX 1.
If you wish the solid state outputs, the auxiliary AL module is not necessary. Otherwise, if you wish the relay outputs, even the ALdc module has to be ordered.

If you wish to order one DSP LASER module for a machine with stopping distance of 3mm, WITHOUT out-of-stroke test, WITHOUT anti-repetition pedal, with Blanking of type B and 230Vac power supply, the proper code to order is: RX B000. As consequence, you have to associate the transmitter TX 0.
If you wish the solid state outputs, the auxiliary module AL1B 230Vac will be necessary. Otherwise, if you wish the relay outputs, the AL2B 230Vac module shall be ordered.

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Kit Base - DSP Standard+AL2

COD. 001 B A211

KIT BASE WITH DSP LASER STANDARD A211 - 24V AC

DSP
LASER TX + RX
A211

DSP emits a **visible laser barrier** which, made and placed as described in the EN12622 standard, **protects the press brake operator** against the risk of being crushed between the upper and lower part during the closing of the fold in high speed.

Module AL2 is an electronic module whose logic has been planned to **monitor and manage the systems and components present on a press brake** to ensure the safety of the bending process itself according to the EN12622 standard.

MODULO AL2
24V AC

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Kit Base - DSP Standard+AL2

COD. 001 B A211

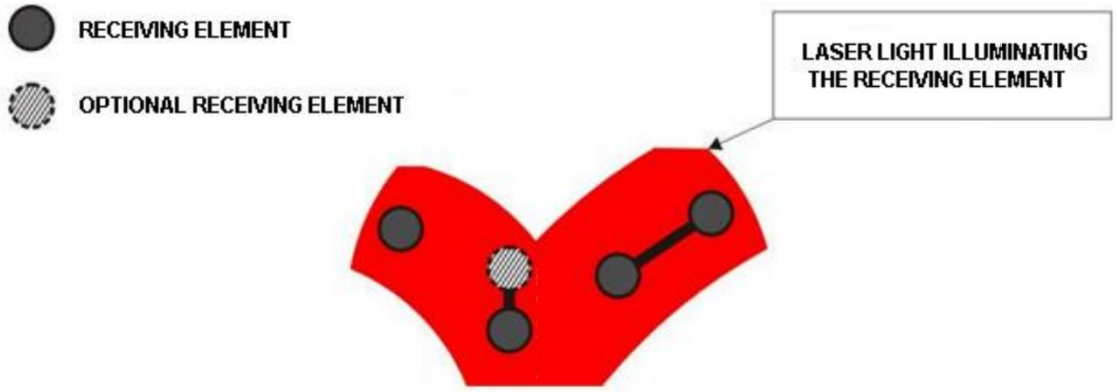
The safety device DSP LASER is a visible laser emission guard which, inserted in a more general control system, contributes to protect the operator in the use of press brakes for the cold working of the metals and is constituted by:

- one transmitter DSP LASER TX powered at 24Vac or 24Vdc,
- one receiver DSP LASER RX powered at 24Vac or 24Vdc which moreover includes: the logic for the control of the operation modes, the function of automatic monitoring of the overtravel and the two solid-state outputs OSSD,
- one DSP LASER AL module (optional) with a series of variations.

Each of them is enclosed within its own case.

The activation of the receiver is made possible only by the emission generated by the transmitter, which is electrically connected to by the synchronism. An emission generated by an identical transmitter, but not electrically connected with the receiver, cannot activate it.

Main task of “DSP LASER” is detecting, within the limits defined by the detection capacity of the instrument, the intrusion of any opaque physical element into the “detection area”. The detection area can be defined as a “laser light solid” which starts from the transmitter and arrives to the receiver and whose section is represented in Fig. 9.1. The interruption of the laser beams illuminating the receiving elements, causes the detection of the occurred interruption. The detection of the interruption of one or more of the receiving elements is then managed by the system to issue or not the passage to state OFF of the OSSD outputs. The device has been then designed to activate, in dangerous conditions, the functions for the stop of the movement of the dangerous parts.



WHOLE DETECTION AREA

These functions have been realized providing, in output from the two OSSD, two different ON/OFF electrical signals. The state ON corresponds to the condition for which the DSP LASER system does not detect the conditions for which the downwards movement of the machine must be inhibited or stopped, while the state OFF detects them. Various can be the causes for which the outputs are set to the state OFF. The main ones are: the lack of collimation between the two TX and RX components (caused, for example, by the intrusion of an element into the detection area), the lack of power supply to DSP LASER, 30 hours of continue operation, failed check of the stop space, failure of the DSP LASER equipment itself.

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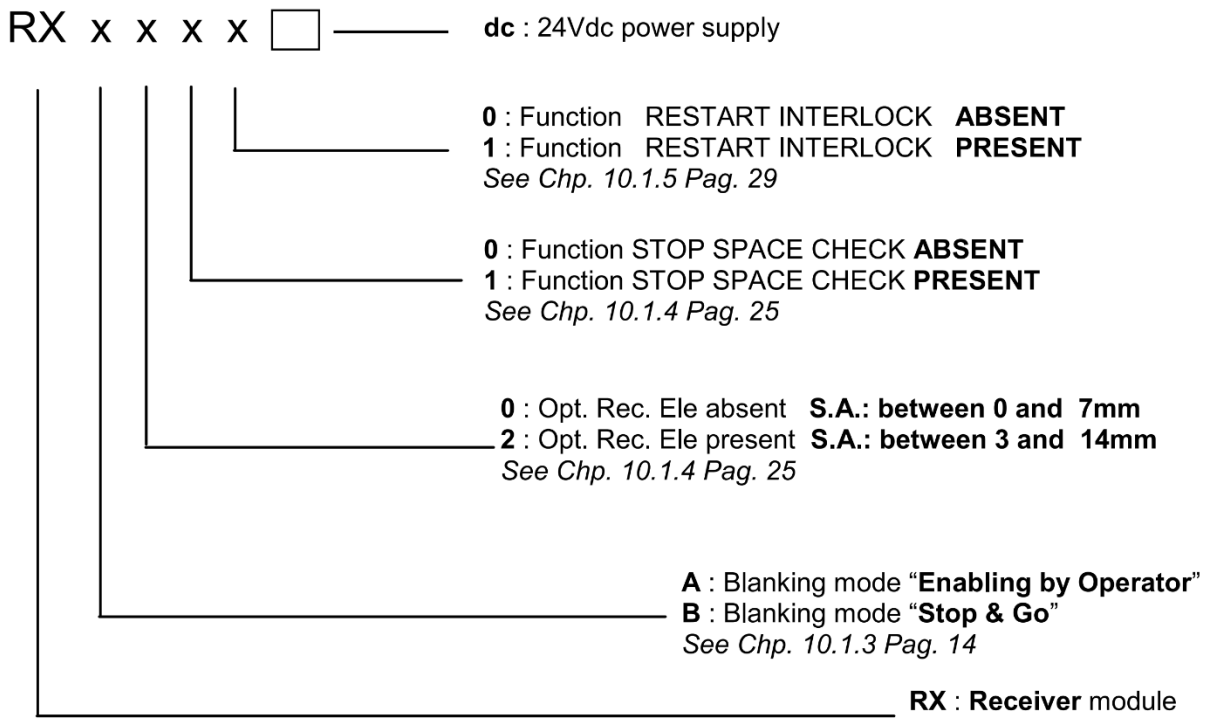
The main causes of fault or wrong operation are signalled by a precise configuration of the LEDs present in RX. For information see par.12.1. The OSSD outputs, properly inserted in the electric circuit of command of the dangerous part of the equipment, enable, in ON state, the possibility to command the movement (start function) and, vice versa, to inhibit or stop it in OFF state (stop function).

At last, the management of the procedures of stop, suspension and reactivation of the machine are entrusted to the main control board of the machine itself. DSP LASER is available in more versions which differ for the following main characteristics:

- Blanking type: “Stop&Go” or with “Enabling by operator”
- Central receiver: optional or in different positions, allowing the use with machines whose stop space is included within ranges of different values
- Function of check, at switch-on, of the presence/absence of the stop space
- 24Vdc power supply for TX and RX modules
- 24Vdc power module and OSSD relay outputs (ALdc)
- Power supply module with filter and power supply transformer by 220Vac or 24Vac (AL1B)
- Power supply module with filter and power supply transformer by 220Vac or 24Vac and OSSD outputs with relay (AL2B)

The codes identifying RX module of DSP LASER with the corresponding configuration are:



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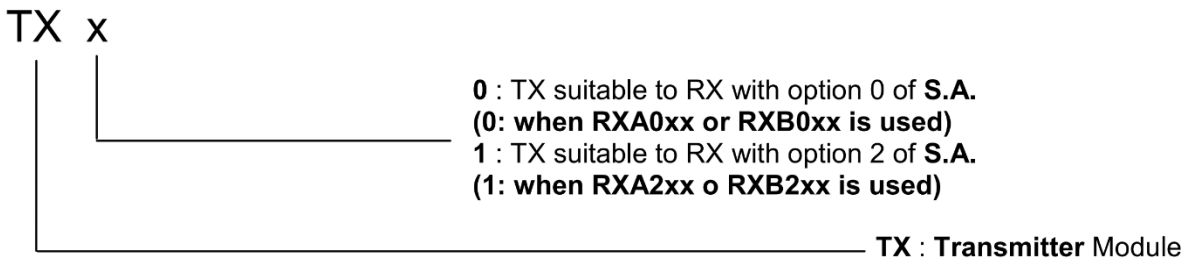
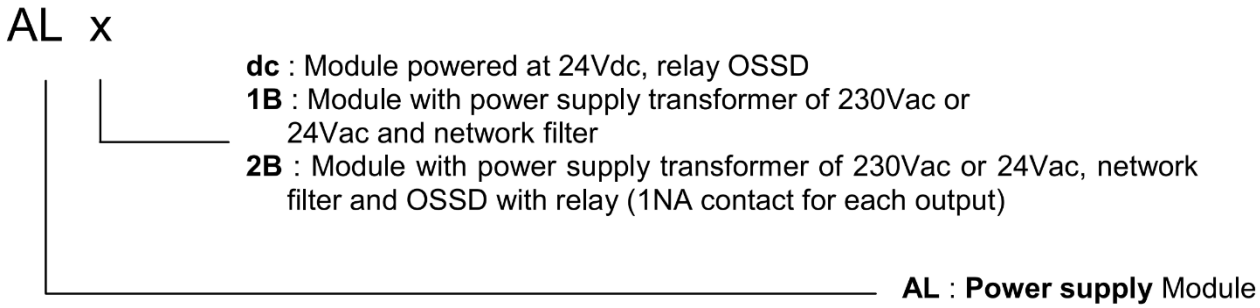
Kit Base - DSP Standard+AL2

COD. 001 B A211

The codes identifying TX module of DSP LASER with the corresponding configuration are:



The codes identifying AL module of DSP LASER with the corresponding configuration are:



The examples here below help to order the proper DSP model.
If you wish to order one DSP LASER module for a machine with stopping distance of 10mm, out-of-stroke test, anti-repetition pedal, Blanking of type A and 24Vdc power supply, the proper code to order is: RX A211 DC.
As consequence, you have to associate the transmitter TX 1.
If you wish the solid state outputs, the auxiliary AL module is not necessary. Otherwise, if you wish the relay outputs, even the ALdc module has to be ordered.

If you wish to order one DSP LASER module for a machine with stopping distance of 3mm, WITHOUT out-of-stroke test, WITHOUT anti-repetition pedal, with Blanking of type B and 230Vac power supply, the proper code to order is: RX B000. As consequence, you have to associate the transmitter TX 0.
If you wish the solid state outputs, the auxiliary module AL1B 230Vac will be necessary. Otherwise, if you wish the relay outputs, the AL2B 230Vac module shall be ordered.

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Kit Base - DSP Standard+AL2

COD. 001 C A001

KIT BASE WITH DSP LASER STANDARD A001 - 230V AC

DSP
LASER TX + RX
A001

DSP emits a **visible laser barrier** which, made and placed as described in the EN12622 standard, **protects the press brake operator** against the risk of being crushed between the upper and lower part during the closing of the fold in high speed.

Module AL2 is an electronic module whose logic has been planned to **monitor and manage the systems and components present on a press brake** to ensure the safety of the bending process itself according to the EN12622 standard.

MODULO AL2
230V AC

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Kit Base - DSP Standard+AL2

COD. 001 C A001

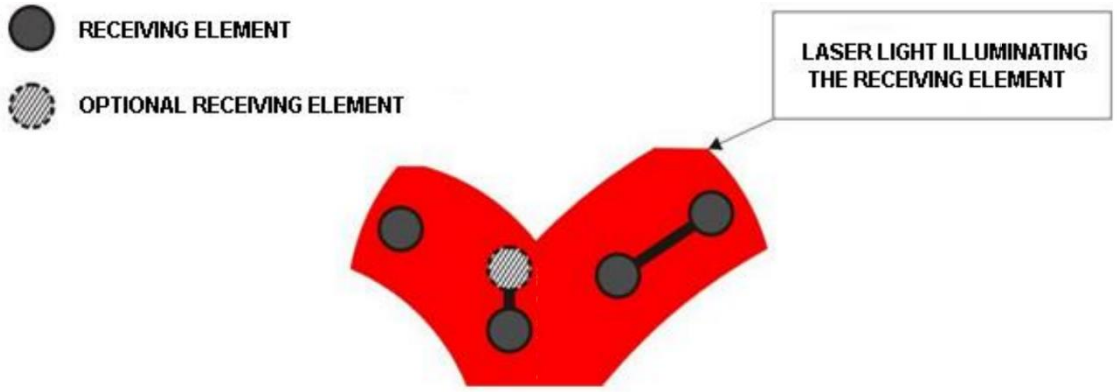
The safety device DSP LASER is a visible laser emission guard which, inserted in a more general control system, contributes to protect the operator in the use of press brakes for the cold working of the metals and is constituted by:

- one transmitter DSP LASER TX powered at 24Vac or 24Vdc,
- one receiver DSP LASER RX powered at 24Vac or 24Vdc which moreover includes: the logic for the control of the operation modes, the function of automatic monitoring of the overtravel and the two solid-state outputs OSSD,
- one DSP LASER AL module (optional) with a series of variations.

Each of them is enclosed within its own case.

The activation of the receiver is made possible only by the emission generated by the transmitter, which is electrically connected to by the synchronism. An emission generated by an identical transmitter, but not electrically connected with the receiver, cannot activate it.

Main task of “DSP LASER” is detecting, within the limits defined by the detection capacity of the instrument, the intrusion of any opaque physical element into the “detection area”. The detection area can be defined as a “laser light solid” which starts from the transmitter and arrives to the receiver and whose section is represented in Fig. 9.1. The interruption of the laser beams illuminating the receiving elements, causes the detection of the occurred interruption. The detection of the interruption of one or more of the receiving elements is then managed by the system to issue or not the passage to state OFF of the OSSD outputs. The device has been then designed to activate, in dangerous conditions, the functions for the stop of the movement of the dangerous parts.



WHOLE DETECTION AREA

These functions have been realized providing, in output from the two OSSD, two different ON/OFF electrical signals. The state ON corresponds to the condition for which the DSP LASER system does not detect the conditions for which the downwards movement of the machine must be inhibited or stopped, while the state OFF detects them. Various can be the causes for which the outputs are set to the state OFF. The main ones are: the lack of collimation between the two TX and RX components (caused, for example, by the intrusion of an element into the detection area), the lack of power supply to DSP LASER, 30 hours of continue operation, failed check of the stop space, failure of the DSP LASER equipment itself.

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Kit Base - DSP Standard+AL2

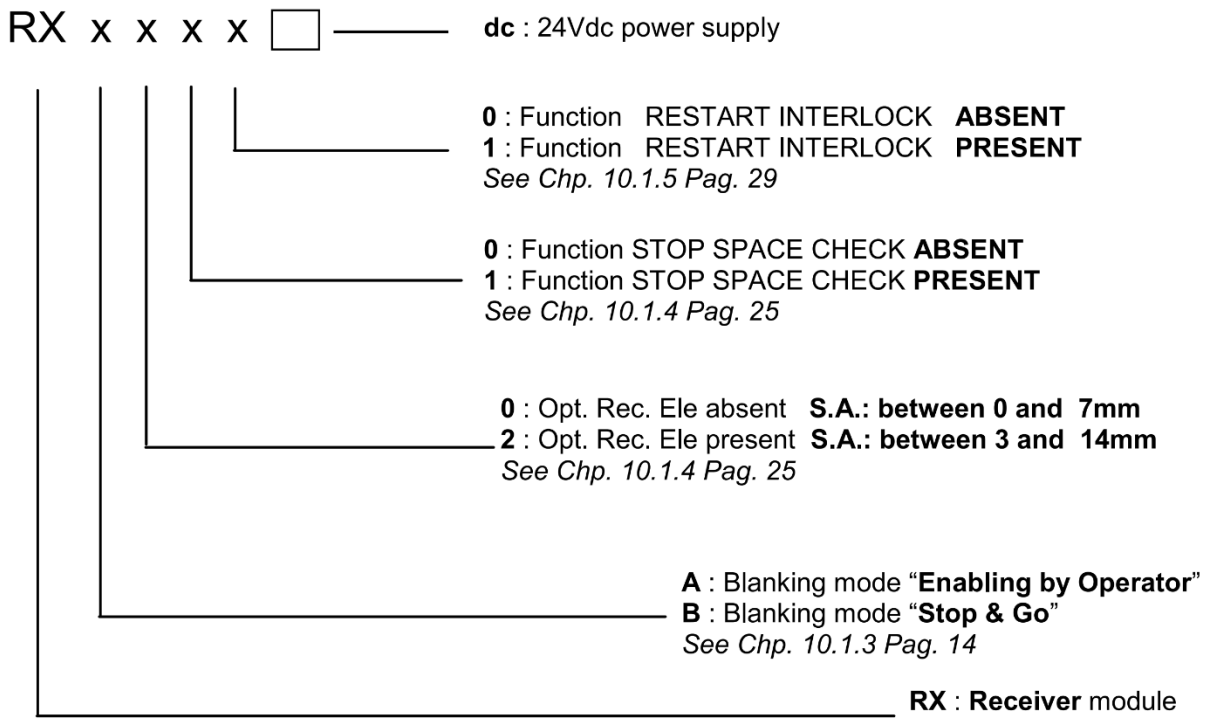
COD. 001 C A001

The main causes of fault or wrong operation are signalled by a precise configuration of the LEDs present in RX. For information see par.12.1. The OSSD outputs, properly inserted in the electric circuit of command of the dangerous part of the equipment, enable, in ON state, the possibility to command the movement (start function) and, vice versa, to inhibit or stop it in OFF state (stop function).

At last, the management of the procedures of stop, suspension and reactivation of the machine are entrusted to the main control board of the machine itself. DSP LASER is available in more versions which differ for the following main characteristics:

- Blanking type: “Stop&Go” or with “Enabling by operator”
- Central receiver: optional or in different positions, allowing the use with machines whose stop space is included within ranges of different values
- Function of check, at switch-on, of the presence/absence of the stop space
- 24Vdc power supply for TX and RX modules
- 24Vdc power module and OSSD relay outputs (ALdc)
- Power supply module with filter and power supply transformer by 220Vac or 24Vac (AL1B)
- Power supply module with filter and power supply transformer by 220Vac or 24Vac and OSSD outputs with relay (AL2B)

The codes identifying RX module of DSP LASER with the corresponding configuration are:



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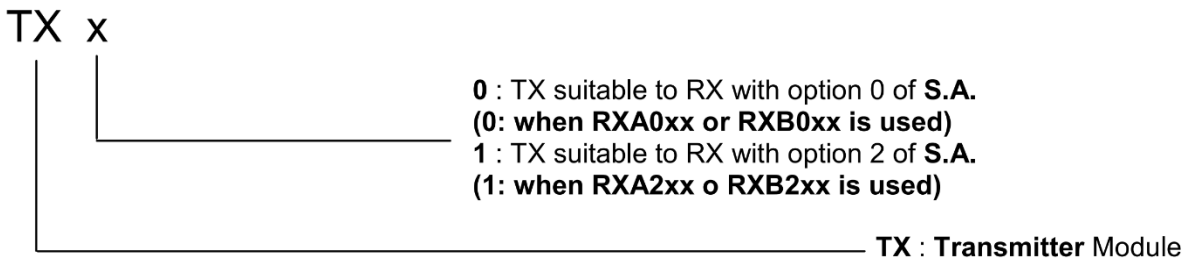
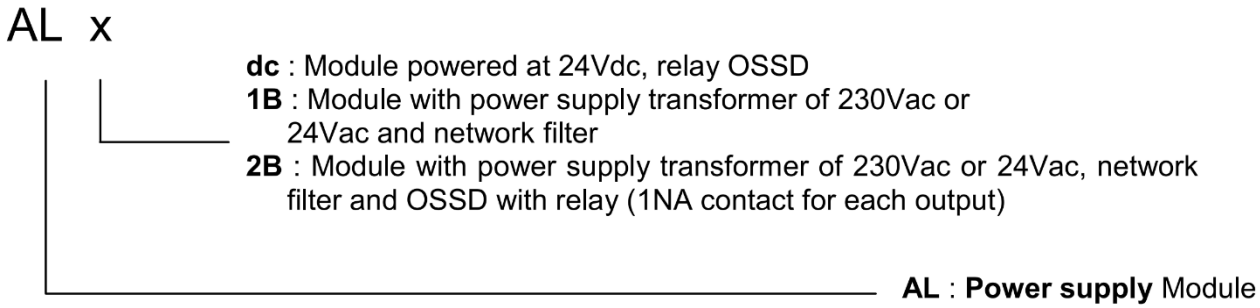
Kit Base - DSP Standard+AL2

COD. 001 C A001

The codes identifying TX module of DSP LASER with the corresponding configuration are:



The codes identifying AL module of DSP LASER with the corresponding configuration are:



The examples here below help to order the proper DSP model.
If you wish to order one DSP LASER module for a machine with stopping distance of 10mm, out-of-stroke test, anti-repetition pedal, Blanking of type A and 24Vdc power supply, the proper code to order is: RX A211 DC.
As consequence, you have to associate the transmitter TX 1.
If you wish the solid state outputs, the auxiliary AL module is not necessary. Otherwise, if you wish the relay outputs, even the ALdc module has to be ordered.

If you wish to order one DSP LASER module for a machine with stopping distance of 3mm, WITHOUT out-of-stroke test, WITHOUT anti-repetition pedal, with Blanking of type B and 230Vac power supply, the proper code to order is: RX B000. As consequence, you have to associate the transmitter TX 0.
If you wish the solid state outputs, the auxiliary module AL1B 230Vac will be necessary. Otherwise, if you wish the relay outputs, the AL2B 230Vac module shall be ordered.

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Kit Base - DSP Standard+AL2

COD. 001 D B210

KIT BASE WITH DSP LASER STANDARD B210 - 230V AC

DSP
LASER TX + RX
B210

DSP emits a **visible laser barrier** which, made and placed as described in the EN12622 standard, **protects the press brake operator** against the risk of being crushed between the upper and lower part during the closing of the fold in high speed.

Module AL2 is an electronic module whose logic has been planned to **monitor and manage the systems and components present on a press brake** to ensure the safety of the bending process itself according to the EN12622 standard.

MODULO AL2
230V AC

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Kit Base - DSP Standard+AL2

COD. 001 D B210

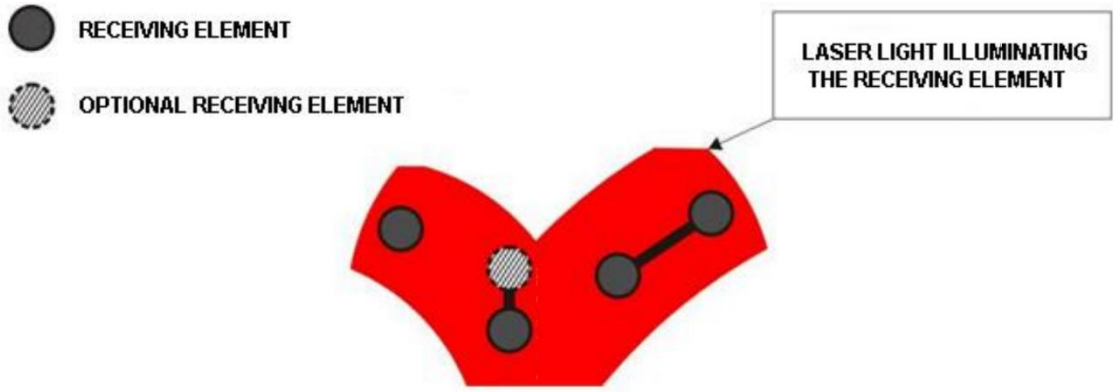
The safety device DSP LASER is a visible laser emission guard which, inserted in a more general control system, contributes to protect the operator in the use of press brakes for the cold working of the metals and is constituted by:

- one transmitter DSP LASER TX powered at 24Vac or 24Vdc,
- one receiver DSP LASER RX powered at 24Vac or 24Vdc which moreover includes: the logic for the control of the operation modes, the function of automatic monitoring of the overtravel and the two solid-state outputs OSSD,
- one DSP LASER AL module (optional) with a series of variations.

Each of them is enclosed within its own case.

The activation of the receiver is made possible only by the emission generated by the transmitter, which is electrically connected to by the synchronism. An emission generated by an identical transmitter, but not electrically connected with the receiver, cannot activate it.

Main task of “DSP LASER” is detecting, within the limits defined by the detection capacity of the instrument, the intrusion of any opaque physical element into the “detection area”. The detection area can be defined as a “laser light solid” which starts from the transmitter and arrives to the receiver and whose section is represented in Fig. 9.1. The interruption of the laser beams illuminating the receiving elements, causes the detection of the occurred interruption. The detection of the interruption of one or more of the receiving elements is then managed by the system to issue or not the passage to state OFF of the OSSD outputs. The device has been then designed to activate, in dangerous conditions, the functions for the stop of the movement of the dangerous parts.



WHOLE DETECTION AREA

These functions have been realized providing, in output from the two OSSD, two different ON/OFF electrical signals. The state ON corresponds to the condition for which the DSP LASER system does not detect the conditions for which the downwards movement of the machine must be inhibited or stopped, while the state OFF detects them. Various can be the causes for which the outputs are set to the state OFF. The main ones are: the lack of collimation between the two TX and RX components (caused, for example, by the intrusion of an element into the detection area), the lack of power supply to DSP LASER, 30 hours of continue operation, failed check of the stop space, failure of the DSP LASER equipment itself.

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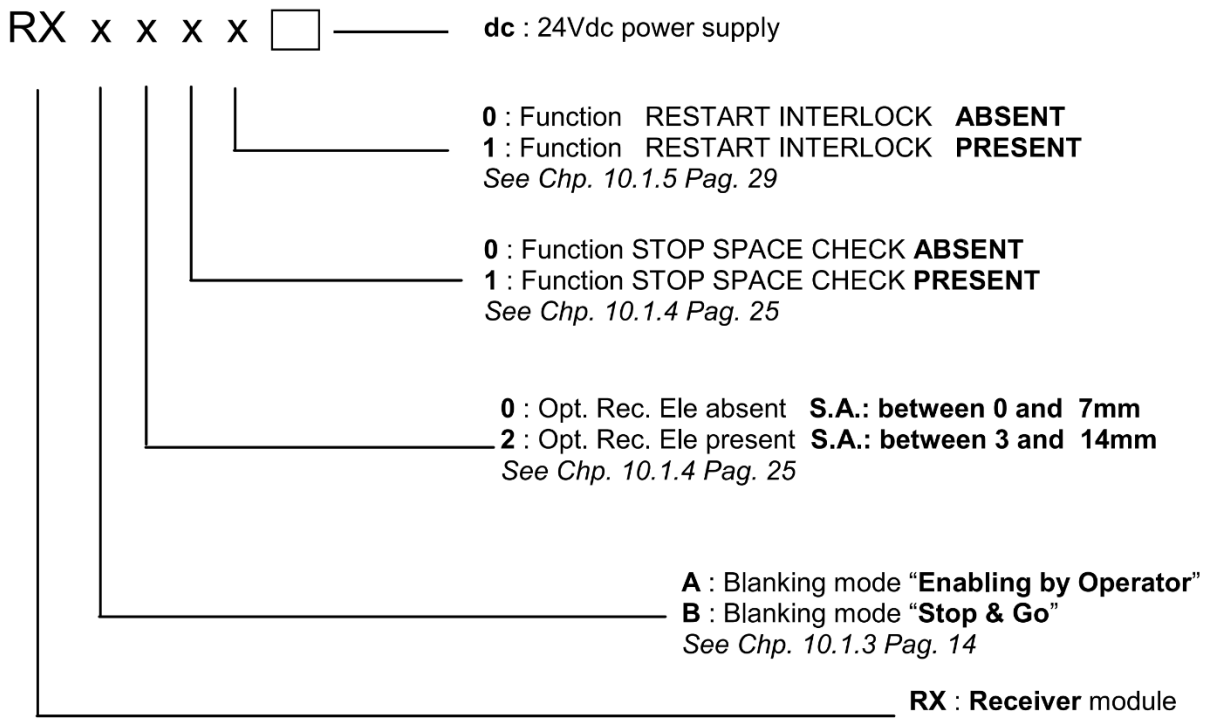
The main causes of fault or wrong operation are signalled by a precise configuration of the LEDs present in RX. For information see par.12.1. The OSSD outputs, properly inserted in the electric circuit of command of the dangerous part of the equipment, enable, in ON state, the possibility to command the movement (start function) and, vice versa, to inhibit or stop it in OFF state (stop function).

At last, the management of the procedures of stop, suspension and reactivation of the machine are entrusted to the main control board of the machine itself. DSP LASER is available in more versions which differ for the following main characteristics:

- Blanking type: “Stop&Go” or with “Enabling by operator”
- Central receiver: optional or in different positions, allowing the use with machines whose stop space is included within ranges of different values
- Function of check, at switch-on, of the presence/absence of the stop space
- 24Vdc power supply for TX and RX modules
- 24Vdc power module and OSSD relay outputs (ALdc)
- Power supply module with filter and power supply transformer by 220Vac or 24Vac (AL1B)
- Power supply module with filter and power supply transformer by 220Vac or 24Vac and OSSD outputs with relay (AL2B)

The codes identifying RX module of DSP LASER with the corresponding configuration are:



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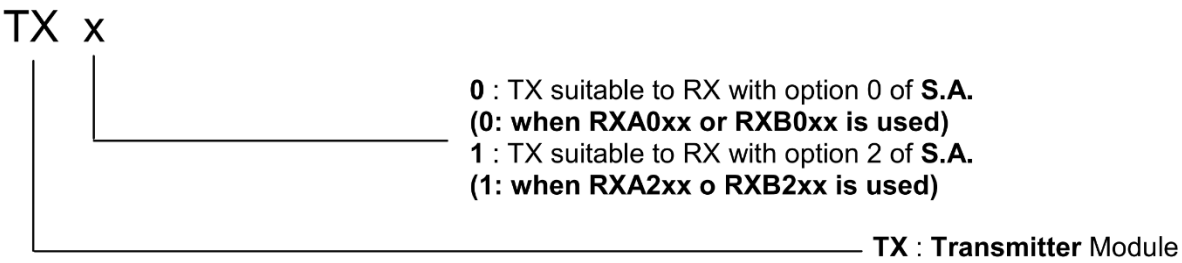
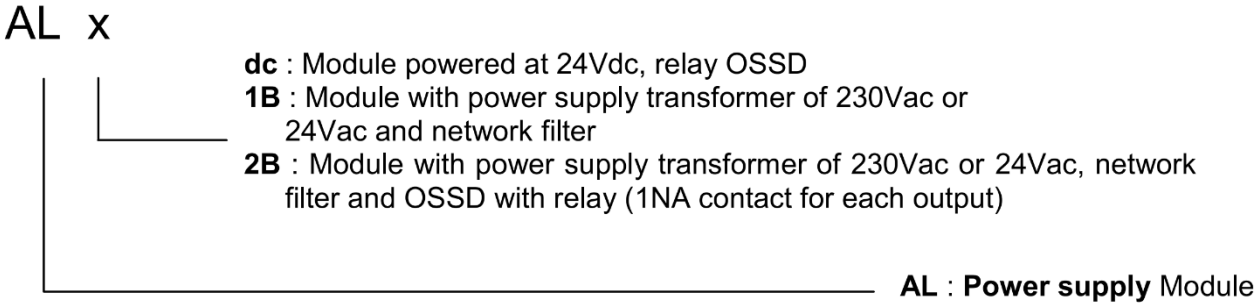
Kit Base - DSP Standard+AL2

COD. 001 D B210

The codes identifying TX module of DSP LASER with the corresponding configuration are:



The codes identifying AL module of DSP LASER with the corresponding configuration are:



The examples here below help to order the proper DSP model.
If you wish to order one DSP LASER module for a machine with stopping distance of 10mm, out-of-stroke test, anti-repetition pedal, Blanking of type A and 24Vdc power supply, the proper code to order is: RX A211 DC.
As consequence, you have to associate the transmitter TX 1.
If you wish the solid state outputs, the auxiliary AL module is not necessary. Otherwise, if you wish the relay outputs, even the ALdc module has to be ordered.

If you wish to order one DSP LASER module for a machine with stopping distance of 3mm, WITHOUT out-of-stroke test, WITHOUT anti-repetition pedal, with Blanking of type B and 230Vac power supply, the proper code to order is: RX B000. As consequence, you have to associate the transmitter TX 0.
If you wish the solid state outputs, the auxiliary module AL1B 230Vac will be necessary. Otherwise, if you wish the relay outputs, the AL2B 230Vac module shall be ordered.

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Kit Base - DSP Standard+AL2

COD. 001 E B211

KIT BASE WITH DSP LASER STANDARD B211 - 230V AC

DSP
LASER TX + RX
B211

DSP emits a **visible laser barrier** which, made and placed as described in the EN12622 standard, **protects the press brake operator** against the risk of being crushed between the upper and lower part during the closing of the fold in high speed.

Module AL2 is an electronic module whose logic has been planned to **monitor and manage the systems and components present on a press brake** to ensure the safety of the bending process itself according to the EN12622 standard.

MODULO AL2
230V AC

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Kit Base - DSP Standard+AL2

COD. 001 E B211

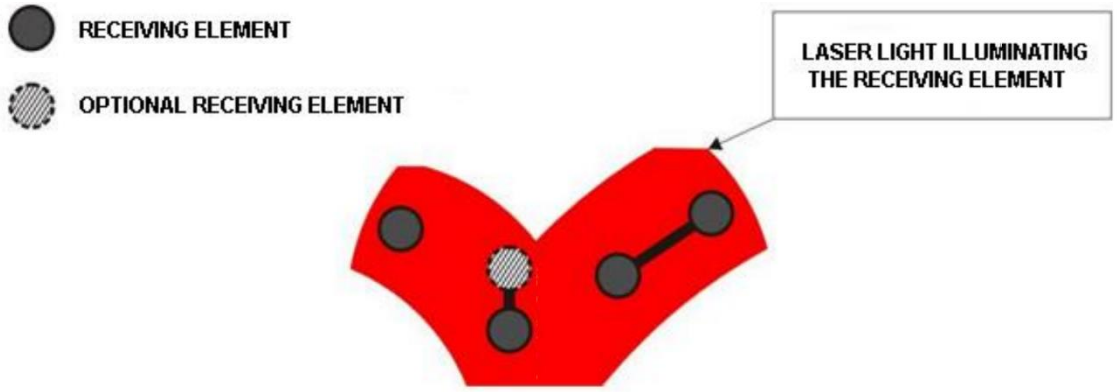
The safety device DSP LASER is a visible laser emission guard which, inserted in a more general control system, contributes to protect the operator in the use of press brakes for the cold working of the metals and is constituted by:

- one transmitter DSP LASER TX powered at 24Vac or 24Vdc,
- one receiver DSP LASER RX powered at 24Vac or 24Vdc which moreover includes: the logic for the control of the operation modes, the function of automatic monitoring of the overtravel and the two solid-state outputs OSSD,
- one DSP LASER AL module (optional) with a series of variations.

Each of them is enclosed within its own case.

The activation of the receiver is made possible only by the emission generated by the transmitter, which is electrically connected to by the synchronism. An emission generated by an identical transmitter, but not electrically connected with the receiver, cannot activate it.

Main task of “DSP LASER” is detecting, within the limits defined by the detection capacity of the instrument, the intrusion of any opaque physical element into the “detection area”. The detection area can be defined as a “laser light solid” which starts from the transmitter and arrives to the receiver and whose section is represented in Fig. 9.1. The interruption of the laser beams illuminating the receiving elements, causes the detection of the occurred interruption. The detection of the interruption of one or more of the receiving elements is then managed by the system to issue or not the passage to state OFF of the OSSD outputs. The device has been then designed to activate, in dangerous conditions, the functions for the stop of the movement of the dangerous parts.



WHOLE DETECTION AREA

These functions have been realized providing, in output from the two OSSD, two different ON/OFF electrical signals. The state ON corresponds to the condition for which the DSP LASER system does not detect the conditions for which the downwards movement of the machine must be inhibited or stopped, while the state OFF detects them. Various can be the causes for which the outputs are set to the state OFF. The main ones are: the lack of collimation between the two TX and RX components (caused, for example, by the intrusion of an element into the detection area), the lack of power supply to DSP LASER, 30 hours of continue operation, failed check of the stop space, failure of the DSP LASER equipment itself.

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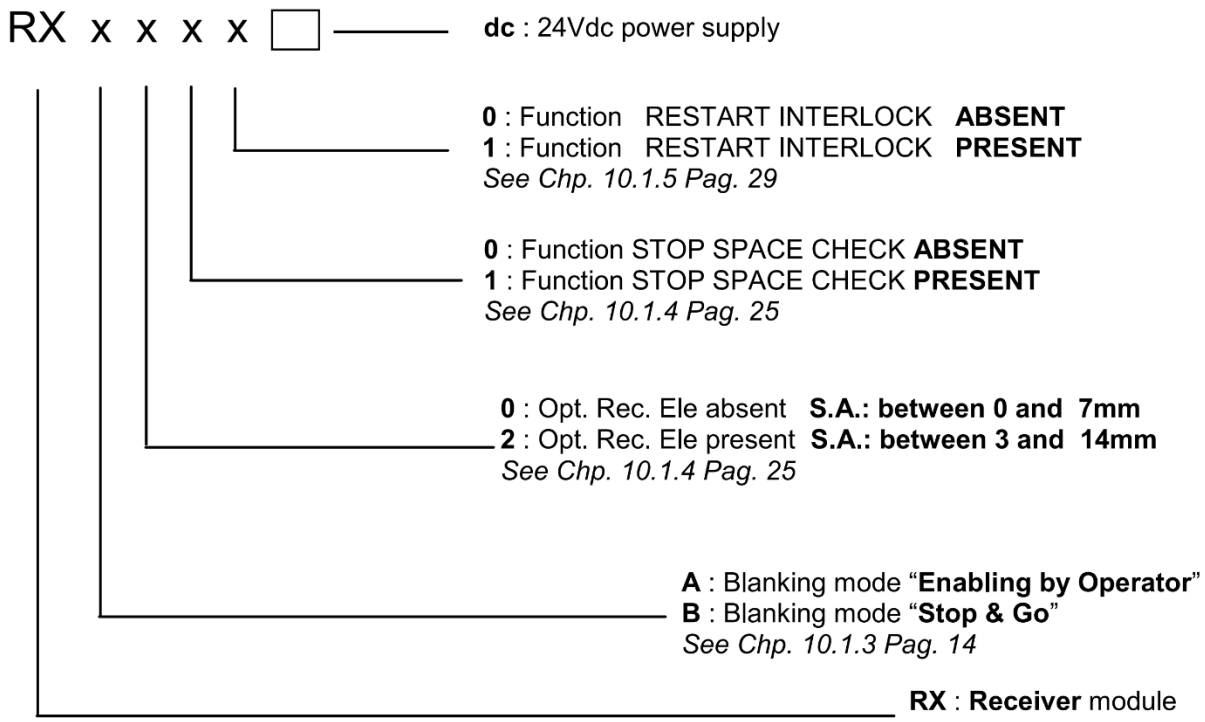
The main causes of fault or wrong operation are signalled by a precise configuration of the LEDs present in RX. For information see par.12.1. The OSSD outputs, properly inserted in the electric circuit of command of the dangerous part of the equipment, enable, in ON state, the possibility to command the movement (start function) and, vice versa, to inhibit or stop it in OFF state (stop function).

At last, the management of the procedures of stop, suspension and reactivation of the machine are entrusted to the main control board of the machine itself. DSP LASER is available in more versions which differ for the following main characteristics:

- Blanking type: “Stop&Go” or with “Enabling by operator”
- Central receiver: optional or in different positions, allowing the use with machines whose stop space is included within ranges of different values
- Function of check, at switch-on, of the presence/absence of the stop space
- 24Vdc power supply for TX and RX modules
- 24Vdc power module and OSSD relay outputs (ALdc)
- Power supply module with filter and power supply transformer by 220Vac or 24Vac (AL1B)
- Power supply module with filter and power supply transformer by 220Vac or 24Vac and OSSD outputs with relay (AL2B)

The codes identifying RX module of DSP LASER with the corresponding configuration are:



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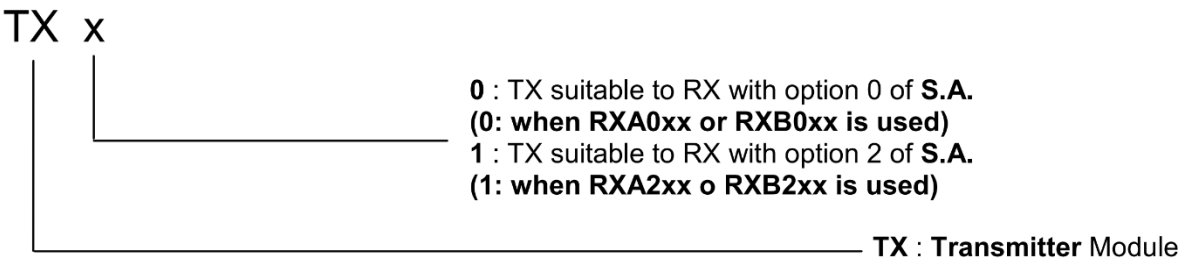
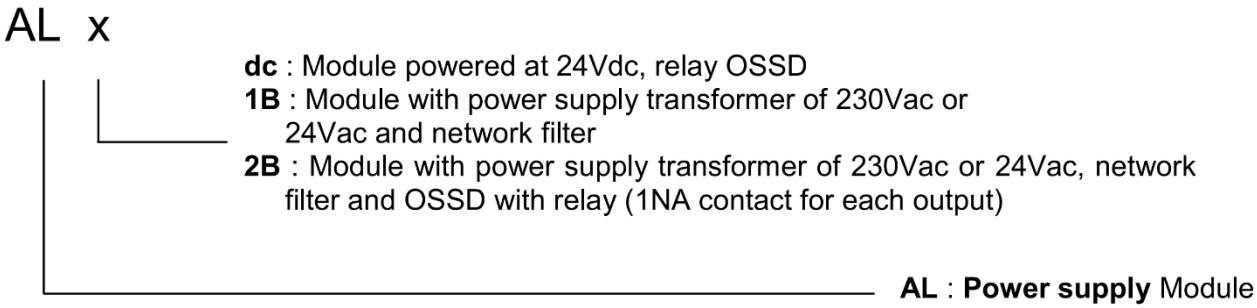
Kit Base - DSP Standard+AL2

COD. 001 E B211

The codes identifying TX module of DSP LASER with the corresponding configuration are:



The codes identifying AL module of DSP LASER with the corresponding configuration are:



The examples here below help to order the proper DSP model.
If you wish to order one DSP LASER module for a machine with stopping distance of 10mm, out-of-stroke test, anti-repetition pedal, Blanking of type A and 24Vdc power supply, the proper code to order is: RX A211 DC.
As consequence, you have to associate the transmitter TX 1.
If you wish the solid state outputs, the auxiliary AL module is not necessary. Otherwise, if you wish the relay outputs, even the ALdc module has to be ordered.

If you wish to order one DSP LASER module for a machine with stopping distance of 3mm, WITHOUT out-of-stroke test, WITHOUT anti-repetition pedal, with Blanking of type B and 230Vac power supply, the proper code to order is: RX B000. As consequence, you have to associate the transmitter TX 0.
If you wish the solid state outputs, the auxiliary module AL1B 230Vac will be necessary. Otherwise, if you wish the relay outputs, the AL2B 230Vac module shall be ordered.

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Kit Base - DSP Standard+AL2

COD. 001 F B210

KIT BASE WITH DSP LASER STANDARD B210 - 24V AC

DSP
LASER TX + RX
B210

DSP emits a **visible laser barrier** which, made and placed as described in the EN12622 standard, **protects the press brake operator** against the risk of being crushed between the upper and lower part during the closing of the fold in high speed.

Module AL2 is an electronic module whose logic has been planned to **monitor and manage the systems and components present on a press brake** to ensure the safety of the bending process itself according to the EN12622 standard.

MODULO AL2
24V AC

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Kit Base - DSP Standard+AL2

COD. 001 F B210

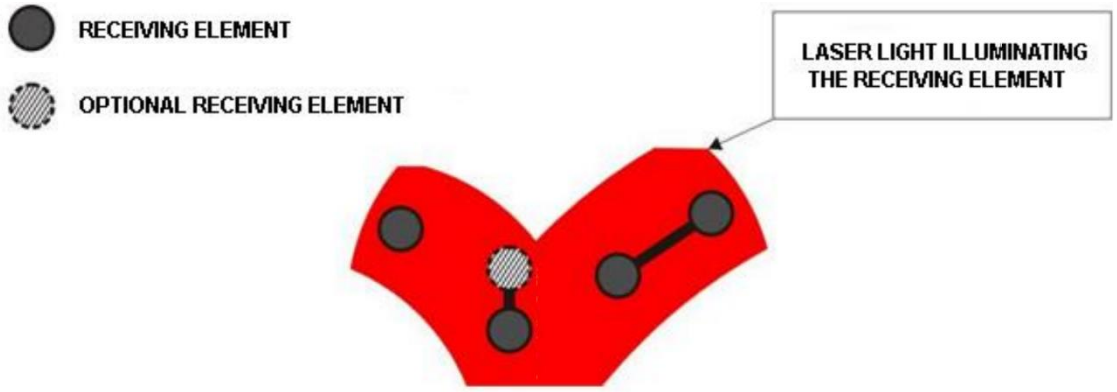
The safety device DSP LASER is a visible laser emission guard which, inserted in a more general control system, contributes to protect the operator in the use of press brakes for the cold working of the metals and is constituted by:

- one transmitter DSP LASER TX powered at 24Vac or 24Vdc,
- one receiver DSP LASER RX powered at 24Vac or 24Vdc which moreover includes: the logic for the control of the operation modes, the function of automatic monitoring of the overtravel and the two solid-state outputs OSSD,
- one DSP LASER AL module (optional) with a series of variations.

Each of them is enclosed within its own case.

The activation of the receiver is made possible only by the emission generated by the transmitter, which is electrically connected to by the synchronism. An emission generated by an identical transmitter, but not electrically connected with the receiver, cannot activate it.

Main task of “DSP LASER” is detecting, within the limits defined by the detection capacity of the instrument, the intrusion of any opaque physical element into the “detection area”. The detection area can be defined as a “laser light solid” which starts from the transmitter and arrives to the receiver and whose section is represented in Fig. 9.1. The interruption of the laser beams illuminating the receiving elements, causes the detection of the occurred interruption. The detection of the interruption of one or more of the receiving elements is then managed by the system to issue or not the passage to state OFF of the OSSD outputs. The device has been then designed to activate, in dangerous conditions, the functions for the stop of the movement of the dangerous parts.



WHOLE DETECTION AREA

These functions have been realized providing, in output from the two OSSD, two different ON/OFF electrical signals. The state ON corresponds to the condition for which the DSP LASER system does not detect the conditions for which the downwards movement of the machine must be inhibited or stopped, while the state OFF detects them. Various can be the causes for which the outputs are set to the state OFF. The main ones are: the lack of collimation between the two TX and RX components (caused, for example, by the intrusion of an element into the detection area), the lack of power supply to DSP LASER, 30 hours of continue operation, failed check of the stop space, failure of the DSP LASER equipment itself.

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Kit Base - DSP Standard+AL2

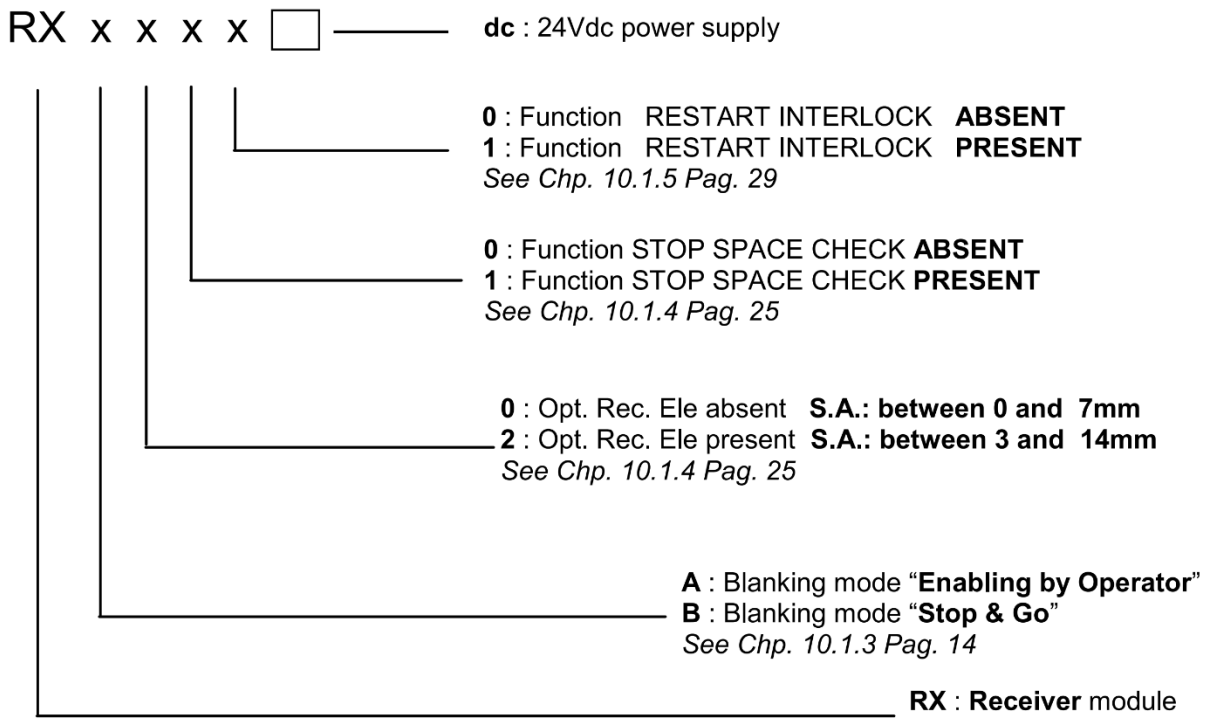
COD. 001 F B210

The main causes of fault or wrong operation are signalled by a precise configuration of the LEDs present in RX. For information see par.12.1. The OSSD outputs, properly inserted in the electric circuit of command of the dangerous part of the equipment, enable, in ON state, the possibility to command the movement (start function) and, vice versa, to inhibit or stop it in OFF state (stop function).

At last, the management of the procedures of stop, suspension and reactivation of the machine are entrusted to the main control board of the machine itself. DSP LASER is available in more versions which differ for the following main characteristics:

- Blanking type: “Stop&Go” or with “Enabling by operator”
- Central receiver: optional or in different positions, allowing the use with machines whose stop space is included within ranges of different values
- Function of check, at switch-on, of the presence/absence of the stop space
- 24Vdc power supply for TX and RX modules
- 24Vdc power module and OSSD relay outputs (ALdc)
- Power supply module with filter and power supply transformer by 220Vac or 24Vac (AL1B)
- Power supply module with filter and power supply transformer by 220Vac or 24Vac and OSSD outputs with relay (AL2B)

The codes identifying RX module of DSP LASER with the corresponding configuration are:



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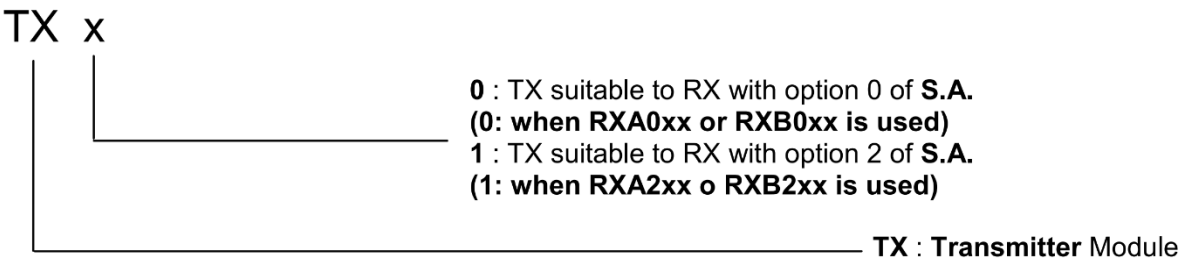
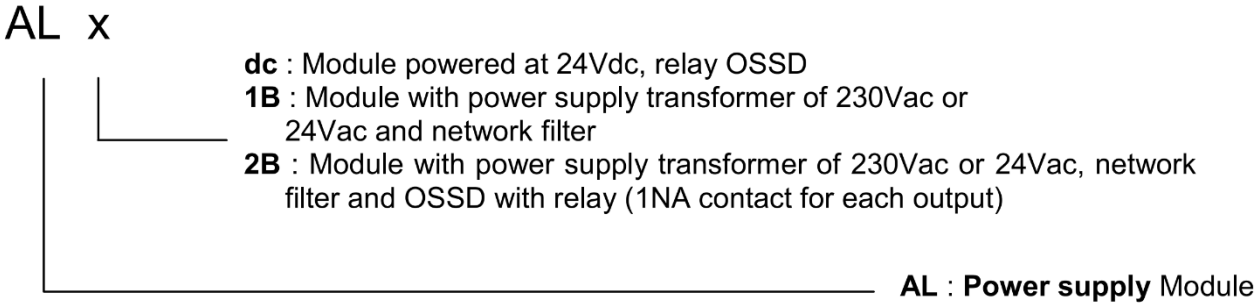
Kit Base - DSP Standard+AL2

COD. 001 F B210

The codes identifying TX module of DSP LASER with the corresponding configuration are:



The codes identifying AL module of DSP LASER with the corresponding configuration are:



The examples here below help to order the proper DSP model.
If you wish to order one DSP LASER module for a machine with stopping distance of 10mm, out-of-stroke test, anti-repetition pedal, Blanking of type A and 24Vdc power supply, the proper code to order is: RX A211 DC.
As consequence, you have to associate the transmitter TX 1.
If you wish the solid state outputs, the auxiliary AL module is not necessary. Otherwise, if you wish the relay outputs, even the ALdc module has to be ordered.

If you wish to order one DSP LASER module for a machine with stopping distance of 3mm, WITHOUT out-of-stroke test, WITHOUT anti-repetition pedal, with Blanking of type B and 230Vac power supply, the proper code to order is: RX B000. As consequence, you have to associate the transmitter TX 0.
If you wish the solid state outputs, the auxiliary module AL1B 230Vac will be necessary. Otherwise, if you wish the relay outputs, the AL2B 230Vac module shall be ordered.

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Kit Base - DSP Standard+AL2

COD. 001 G A001

KIT BASE WITH DSP LASER STANDARD A001 - 24V AC

DSP
LASER TX + RX
A001

DSP emits a **visible laser barrier** which, made and placed as described in the EN12622 standard, **protects the press brake operator** against the risk of being crushed between the upper and lower part during the closing of the fold in high speed.

Module AL2 is an electronic module whose logic has been planned to **monitor and manage the systems and components present on a press brake** to ensure the safety of the bending process itself according to the EN12622 standard.

MODULO AL2
24V AC

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Kit Base - DSP Standard+AL2

COD. 001 G A001

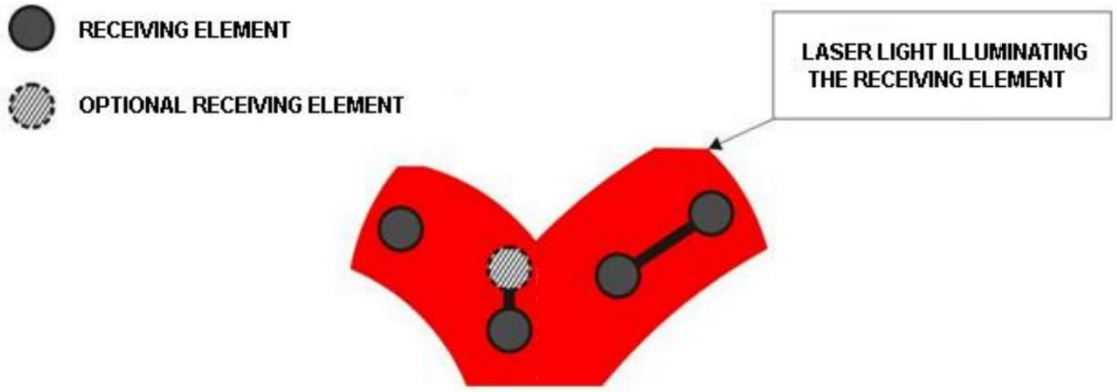
The safety device DSP LASER is a visible laser emission guard which, inserted in a more general control system, contributes to protect the operator in the use of press brakes for the cold working of the metals and is constituted by:

- one transmitter DSP LASER TX powered at 24Vac or 24Vdc,
- one receiver DSP LASER RX powered at 24Vac or 24Vdc which moreover includes: the logic for the control of the operation modes, the function of automatic monitoring of the overtravel and the two solid-state outputs OSSD,
- one DSP LASER AL module (optional) with a series of variations.

Each of them is enclosed within its own case.

The activation of the receiver is made possible only by the emission generated by the transmitter, which is electrically connected to by the synchronism. An emission generated by an identical transmitter, but not electrically connected with the receiver, cannot activate it.

Main task of “DSP LASER” is detecting, within the limits defined by the detection capacity of the instrument, the intrusion of any opaque physical element into the “detection area”. The detection area can be defined as a “laser light solid” which starts from the transmitter and arrives to the receiver and whose section is represented in Fig. 9.1. The interruption of the laser beams illuminating the receiving elements, causes the detection of the occurred interruption. The detection of the interruption of one or more of the receiving elements is then managed by the system to issue or not the passage to state OFF of the OSSD outputs. The device has been then designed to activate, in dangerous conditions, the functions for the stop of the movement of the dangerous parts.



WHOLE DETECTION AREA

These functions have been realized providing, in output from the two OSSD, two different ON/OFF electrical signals. The state ON corresponds to the condition for which the DSP LASER system does not detect the conditions for which the downwards movement of the machine must be inhibited or stopped, while the state OFF detects them. Various can be the causes for which the outputs are set to the state OFF. The main ones are: the lack of collimation between the two TX and RX components (caused, for example, by the intrusion of an element into the detection area), the lack of power supply to DSP LASER, 30 hours of continue operation, failed check of the stop space, failure of the DSP LASER equipment itself.

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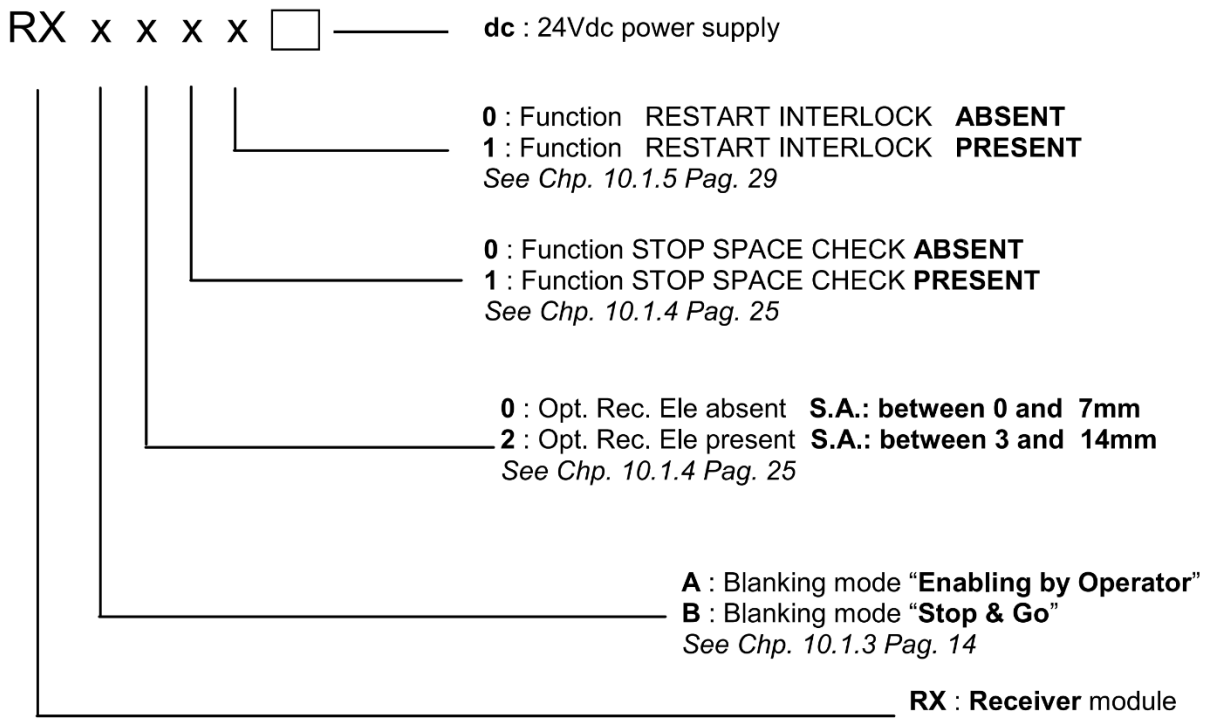
The main causes of fault or wrong operation are signalled by a precise configuration of the LEDs present in RX. For information see par.12.1. The OSSD outputs, properly inserted in the electric circuit of command of the dangerous part of the equipment, enable, in ON state, the possibility to command the movement (start function) and, vice versa, to inhibit or stop it in OFF state (stop function).

At last, the management of the procedures of stop, suspension and reactivation of the machine are entrusted to the main control board of the machine itself. DSP LASER is available in more versions which differ for the following main characteristics:

- Blanking type: “Stop&Go” or with “Enabling by operator”
- Central receiver: optional or in different positions, allowing the use with machines whose stop space is included within ranges of different values
- Function of check, at switch-on, of the presence/absence of the stop space
- 24Vdc power supply for TX and RX modules
- 24Vdc power module and OSSD relay outputs (ALdc)
- Power supply module with filter and power supply transformer by 220Vac or 24Vac (AL1B)
- Power supply module with filter and power supply transformer by 220Vac or 24Vac and OSSD outputs with relay (AL2B)

The codes identifying RX module of DSP LASER with the corresponding configuration are:



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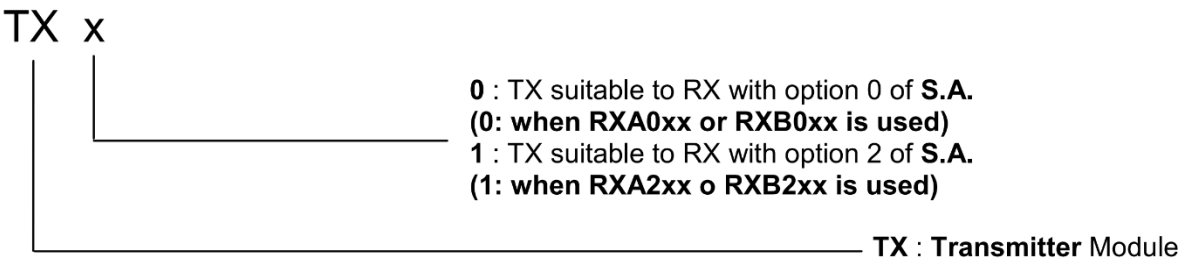
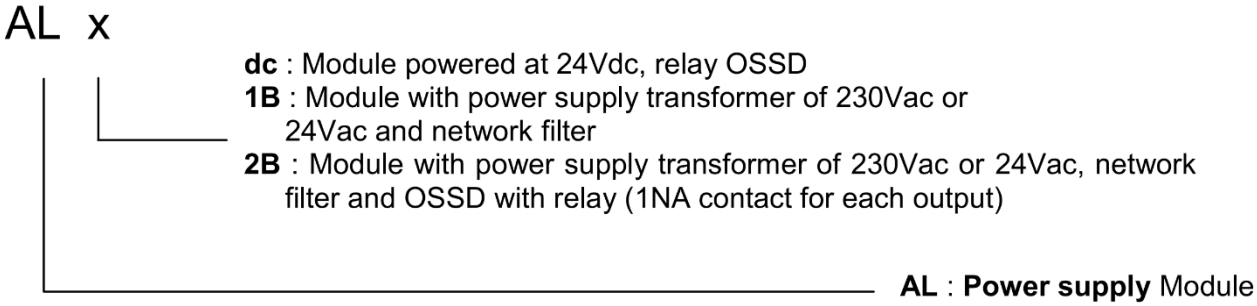
Kit Base - DSP Standard+AL2

COD. 001 G A001

The codes identifying TX module of DSP LASER with the corresponding configuration are:



The codes identifying AL module of DSP LASER with the corresponding configuration are:



The examples here below help to order the proper DSP model.
If you wish to order one DSP LASER module for a machine with stopping distance of 10mm, out-of-stroke test, anti-repetition pedal, Blanking of type A and 24Vdc power supply, the proper code to order is: RX A211 DC.
As consequence, you have to associate the transmitter TX 1.
If you wish the solid state outputs, the auxiliary AL module is not necessary. Otherwise, if you wish the relay outputs, even the ALdc module has to be ordered.

If you wish to order one DSP LASER module for a machine with stopping distance of 3mm, WITHOUT out-of-stroke test, WITHOUT anti-repetition pedal, with Blanking of type B and 230Vac power supply, the proper code to order is: RX B000. As consequence, you have to associate the transmitter TX 0.
If you wish the solid state outputs, the auxiliary module AL1B 230Vac will be necessary. Otherwise, if you wish the relay outputs, the AL2B 230Vac module shall be ordered.

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Kit Base - DSP Standard+AL2

COD. 001 H B200

KIT BASE WITH DSP LASER STANDARD B200 - 230V AC

DSP
LASER TX + RX
B200

DSP emits a **visible laser barrier** which, made and placed as described in the EN12622 standard, **protects the press brake operator** against the risk of being crushed between the upper and lower part during the closing of the fold in high speed.

Module AL2 is an electronic module whose logic has been planned to **monitor and manage the systems and components present on a press brake** to ensure the safety of the bending process itself according to the EN12622 standard.

MODULO AL2
230V AC

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Kit Base - DSP Standard+AL2

COD. 001 H B200

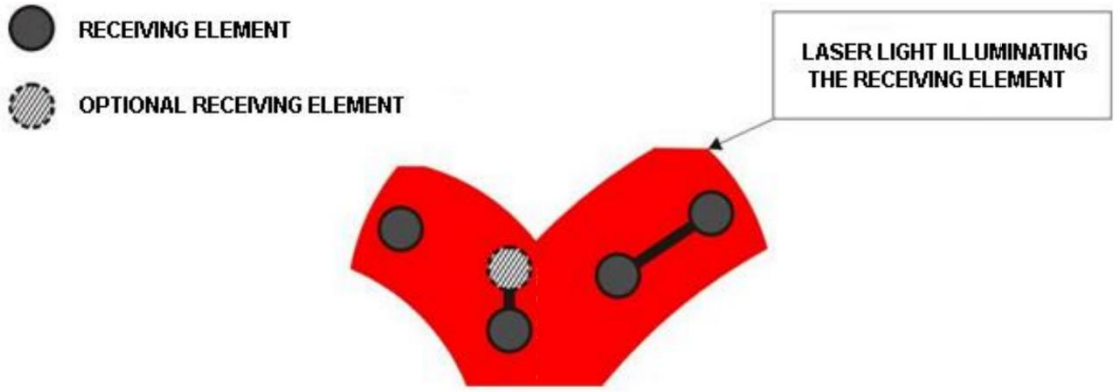
The safety device DSP LASER is a visible laser emission guard which, inserted in a more general control system, contributes to protect the operator in the use of press brakes for the cold working of the metals and is constituted by:

- one transmitter DSP LASER TX powered at 24Vac or 24Vdc,
- one receiver DSP LASER RX powered at 24Vac or 24Vdc which moreover includes: the logic for the control of the operation modes, the function of automatic monitoring of the overtravel and the two solid-state outputs OSSD,
- one DSP LASER AL module (optional) with a series of variations.

Each of them is enclosed within its own case.

The activation of the receiver is made possible only by the emission generated by the transmitter, which is electrically connected to by the synchronism. An emission generated by an identical transmitter, but not electrically connected with the receiver, cannot activate it.

Main task of “DSP LASER” is detecting, within the limits defined by the detection capacity of the instrument, the intrusion of any opaque physical element into the “detection area”. The detection area can be defined as a “laser light solid” which starts from the transmitter and arrives to the receiver and whose section is represented in Fig. 9.1. The interruption of the laser beams illuminating the receiving elements, causes the detection of the occurred interruption. The detection of the interruption of one or more of the receiving elements is then managed by the system to issue or not the passage to state OFF of the OSSD outputs. The device has been then designed to activate, in dangerous conditions, the functions for the stop of the movement of the dangerous parts.



WHOLE DETECTION AREA

These functions have been realized providing, in output from the two OSSD, two different ON/OFF electrical signals. The state ON corresponds to the condition for which the DSP LASER system does not detect the conditions for which the downwards movement of the machine must be inhibited or stopped, while the state OFF detects them. Various can be the causes for which the outputs are set to the state OFF. The main ones are: the lack of collimation between the two TX and RX components (caused, for example, by the intrusion of an element into the detection area), the lack of power supply to DSP LASER, 30 hours of continue operation, failed check of the stop space, failure of the DSP LASER equipment itself.

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Kit Base - DSP Standard+AL2

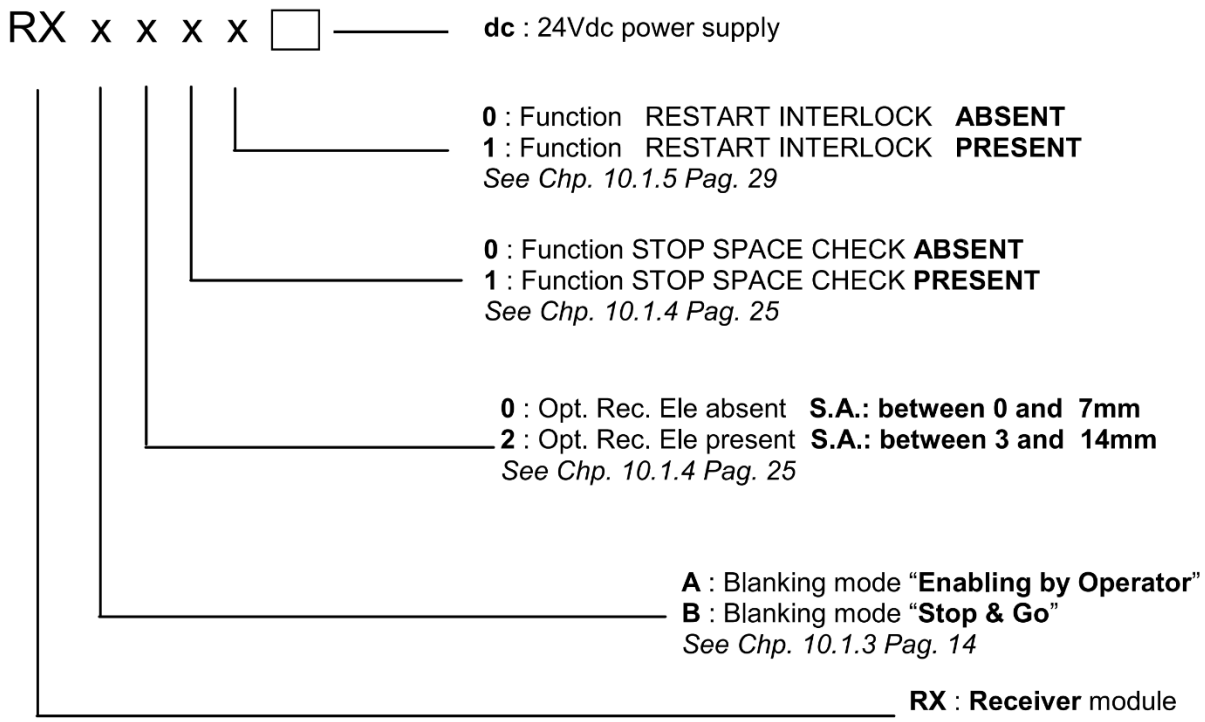
COD. 001 H B200

The main causes of fault or wrong operation are signalled by a precise configuration of the LEDs present in RX. For information see par.12.1. The OSSD outputs, properly inserted in the electric circuit of command of the dangerous part of the equipment, enable, in ON state, the possibility to command the movement (start function) and, vice versa, to inhibit or stop it in OFF state (stop function).

At last, the management of the procedures of stop, suspension and reactivation of the machine are entrusted to the main control board of the machine itself. DSP LASER is available in more versions which differ for the following main characteristics:

- Blanking type: “Stop&Go” or with “Enabling by operator”
- Central receiver: optional or in different positions, allowing the use with machines whose stop space is included within ranges of different values
- Function of check, at switch-on, of the presence/absence of the stop space
- 24Vdc power supply for TX and RX modules
- 24Vdc power module and OSSD relay outputs (ALdc)
- Power supply module with filter and power supply transformer by 220Vac or 24Vac (AL1B)
- Power supply module with filter and power supply transformer by 220Vac or 24Vac and OSSD outputs with relay (AL2B)

The codes identifying RX module of DSP LASER with the corresponding configuration are:



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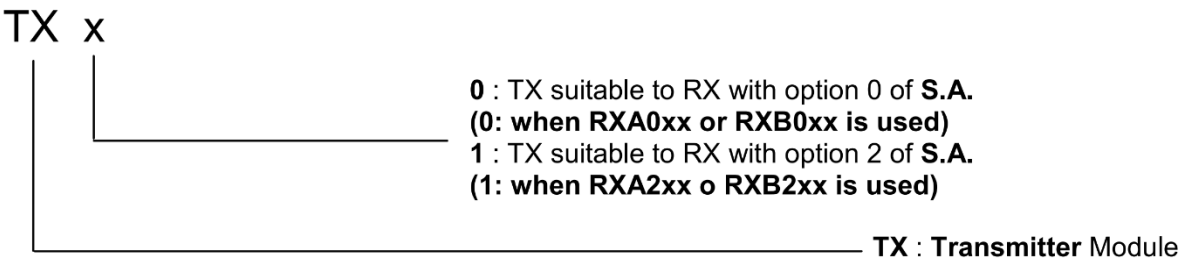
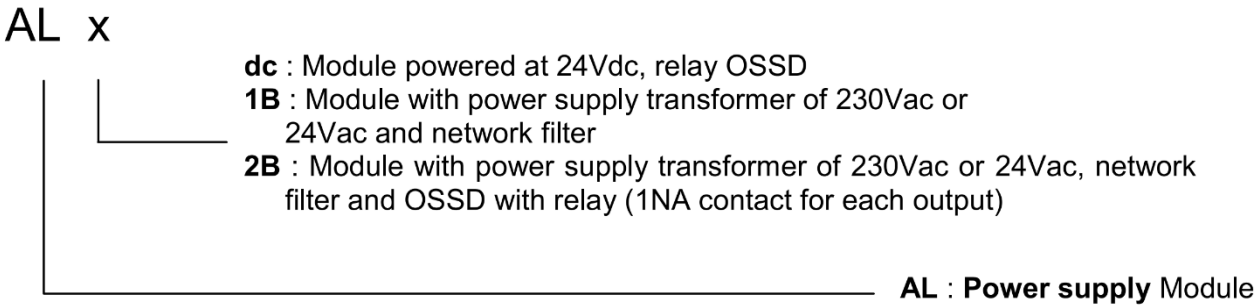
Kit Base - DSP Standard+AL2

COD. 001 H B200

The codes identifying TX module of DSP LASER with the corresponding configuration are:



The codes identifying AL module of DSP LASER with the corresponding configuration are:



The examples here below help to order the proper DSP model.
If you wish to order one DSP LASER module for a machine with stopping distance of 10mm, out-of-stroke test, anti-repetition pedal, Blanking of type A and 24Vdc power supply, the proper code to order is: RX A211 DC.
As consequence, you have to associate the transmitter TX 1.
If you wish the solid state outputs, the auxiliary AL module is not necessary. Otherwise, if you wish the relay outputs, even the ALdc module has to be ordered.

If you wish to order one DSP LASER module for a machine with stopping distance of 3mm, WITHOUT out-of-stroke test, WITHOUT anti-repetition pedal, with Blanking of type B and 230Vac power supply, the proper code to order is: RX B000. As consequence, you have to associate the transmitter TX 0.
If you wish the solid state outputs, the auxiliary module AL1B 230Vac will be necessary. Otherwise, if you wish the relay outputs, the AL2B 230Vac module shall be ordered.

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Kit Base - DSP Standard+AL2

COD. 001 I A211

KIT BASE WITH DSP LASER STANDARD A211 - 24V DC

DSP
LASER TX + RX
A211

DSP emits a **visible laser barrier** which, made and placed as described in the EN12622 standard, **protects the press brake operator** against the risk of being crushed between the upper and lower part during the closing of the fold in high speed.

Module AL2 is an electronic module whose logic has been planned to **monitor and manage the systems and components present on a press brake** to ensure the safety of the bending process itself according to the EN12622 standard.

MODULO AL2
24V DC

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Kit Base - DSP Standard+AL2

COD. 001 I A211

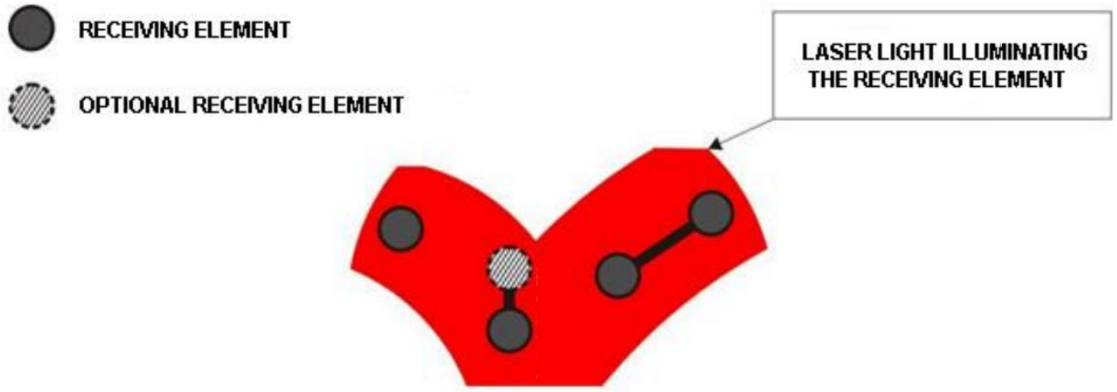
The safety device DSP LASER is a visible laser emission guard which, inserted in a more general control system, contributes to protect the operator in the use of press brakes for the cold working of the metals and is constituted by:

- one transmitter DSP LASER TX powered at 24Vac or 24Vdc,
- one receiver DSP LASER RX powered at 24Vac or 24Vdc which moreover includes: the logic for the control of the operation modes, the function of automatic monitoring of the overtravel and the two solid-state outputs OSSD,
- one DSP LASER AL module (optional) with a series of variations.

Each of them is enclosed within its own case.

The activation of the receiver is made possible only by the emission generated by the transmitter, which is electrically connected to by the synchronism. An emission generated by an identical transmitter, but not electrically connected with the receiver, cannot activate it.

Main task of “DSP LASER” is detecting, within the limits defined by the detection capacity of the instrument, the intrusion of any opaque physical element into the “detection area”. The detection area can be defined as a “laser light solid” which starts from the transmitter and arrives to the receiver and whose section is represented in Fig. 9.1. The interruption of the laser beams illuminating the receiving elements, causes the detection of the occurred interruption. The detection of the interruption of one or more of the receiving elements is then managed by the system to issue or not the passage to state OFF of the OSSD outputs. The device has been then designed to activate, in dangerous conditions, the functions for the stop of the movement of the dangerous parts.



WHOLE DETECTION AREA

These functions have been realized providing, in output from the two OSSD, two different ON/OFF electrical signals. The state ON corresponds to the condition for which the DSP LASER system does not detect the conditions for which the downwards movement of the machine must be inhibited or stopped, while the state OFF detects them. Various can be the causes for which the outputs are set to the state OFF. The main ones are: the lack of collimation between the two TX and RX components (caused, for example, by the intrusion of an element into the detection area), the lack of power supply to DSP LASER, 30 hours of continue operation, failed check of the stop space, failure of the DSP LASER equipment itself.

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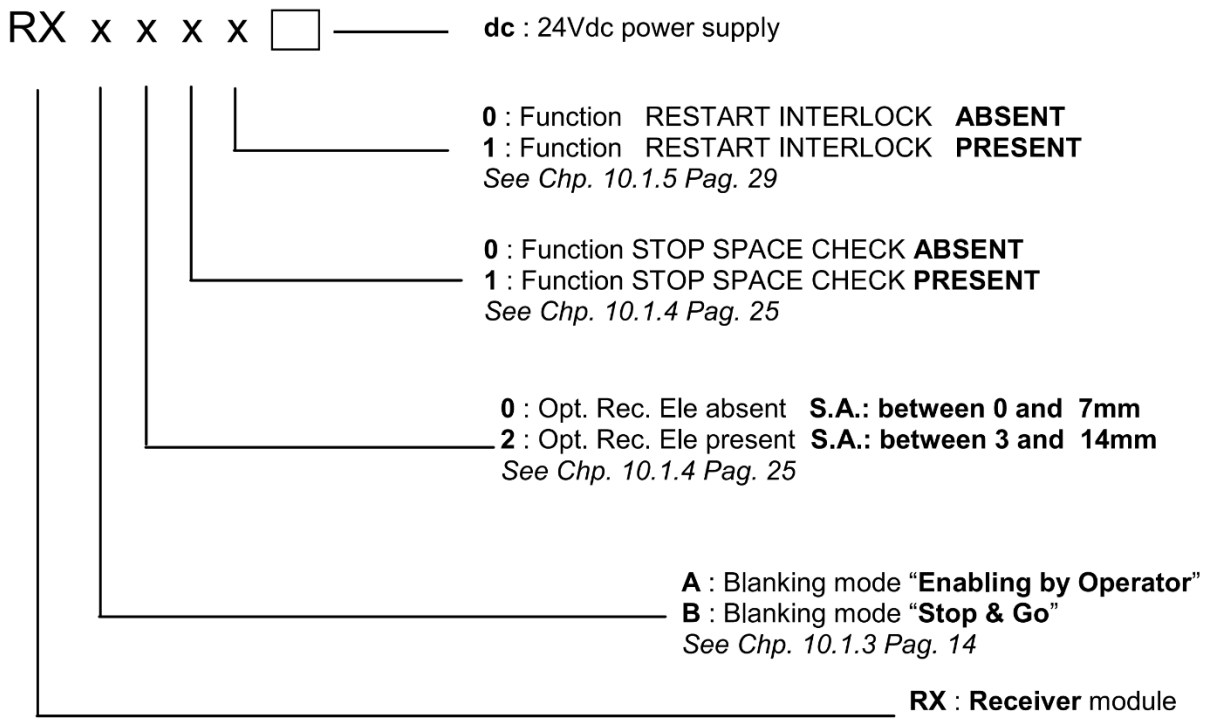
The main causes of fault or wrong operation are signalled by a precise configuration of the LEDs present in RX. For information see par.12.1. The OSSD outputs, properly inserted in the electric circuit of command of the dangerous part of the equipment, enable, in ON state, the possibility to command the movement (start function) and, vice versa, to inhibit or stop it in OFF state (stop function).

At last, the management of the procedures of stop, suspension and reactivation of the machine are entrusted to the main control board of the machine itself. DSP LASER is available in more versions which differ for the following main characteristics:

- Blanking type: “Stop&Go” or with “Enabling by operator”
- Central receiver: optional or in different positions, allowing the use with machines whose stop space is included within ranges of different values
- Function of check, at switch-on, of the presence/absence of the stop space
- 24Vdc power supply for TX and RX modules
- 24Vdc power module and OSSD relay outputs (ALdc)
- Power supply module with filter and power supply transformer by 220Vac or 24Vac (AL1B)
- Power supply module with filter and power supply transformer by 220Vac or 24Vac and OSSD outputs with relay (AL2B)

The codes identifying RX module of DSP LASER with the corresponding configuration are:



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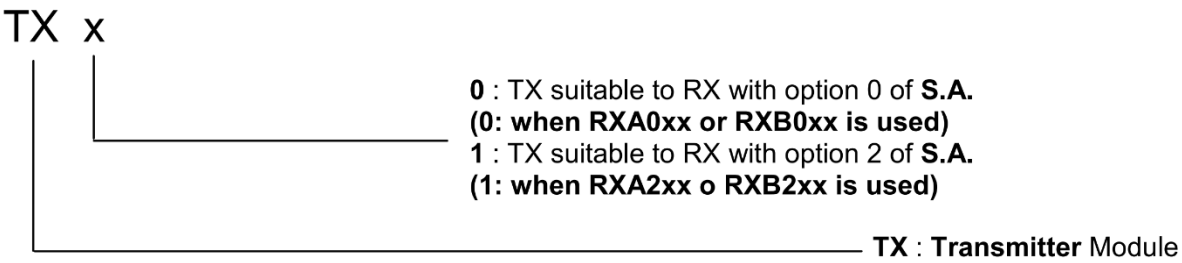
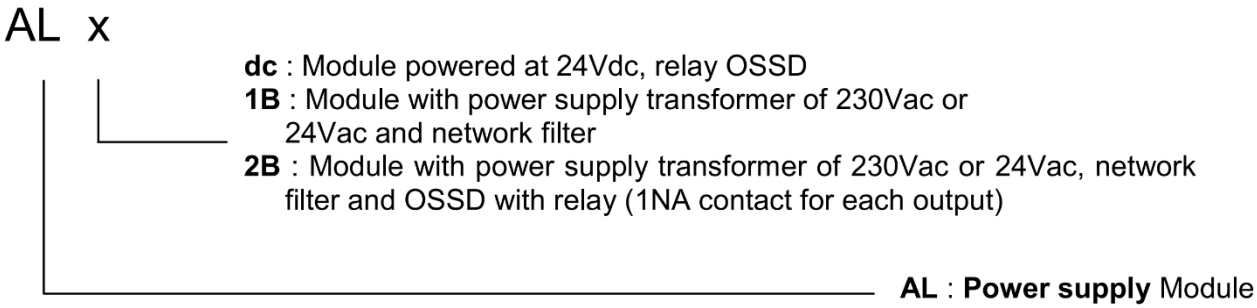
Kit Base - DSP Standard+AL2

COD. 001 I A211

The codes identifying TX module of DSP LASER with the corresponding configuration are:



The codes identifying AL module of DSP LASER with the corresponding configuration are:



The examples here below help to order the proper DSP model.
If you wish to order one DSP LASER module for a machine with stopping distance of 10mm, out-of-stroke test, anti-repetition pedal, Blanking of type A and 24Vdc power supply, the proper code to order is: RX A211 DC.
As consequence, you have to associate the transmitter TX 1.
If you wish the solid state outputs, the auxiliary AL module is not necessary. Otherwise, if you wish the relay outputs, even the ALdc module has to be ordered.

If you wish to order one DSP LASER module for a machine with stopping distance of 3mm, WITHOUT out-of-stroke test, WITHOUT anti-repetition pedal, with Blanking of type B and 230Vac power supply, the proper code to order is: RX B000. As consequence, you have to associate the transmitter TX 0.
If you wish the solid state outputs, the auxiliary module AL1B 230Vac will be necessary. Otherwise, if you wish the relay outputs, the AL2B 230Vac module shall be ordered.

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Kit Base - DSP Standard+AL2

COD. 001 L A200

KIT BASE WITH DSP LASER STANDARD A200 - 24V DC

DSP
LASER TX + RX
A200

DSP emits a **visible laser barrier** which, made and placed as described in the EN12622 standard, **protects the press brake operator** against the risk of being crushed between the upper and lower part during the closing of the fold in high speed.

Module AL2 is an electronic module whose logic has been planned to **monitor and manage the systems and components present on a press brake** to ensure the safety of the bending process itself according to the EN12622 standard.

MODULO AL2
24V DC

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Kit Base - DSP Standard+AL2

COD. 001 L A200

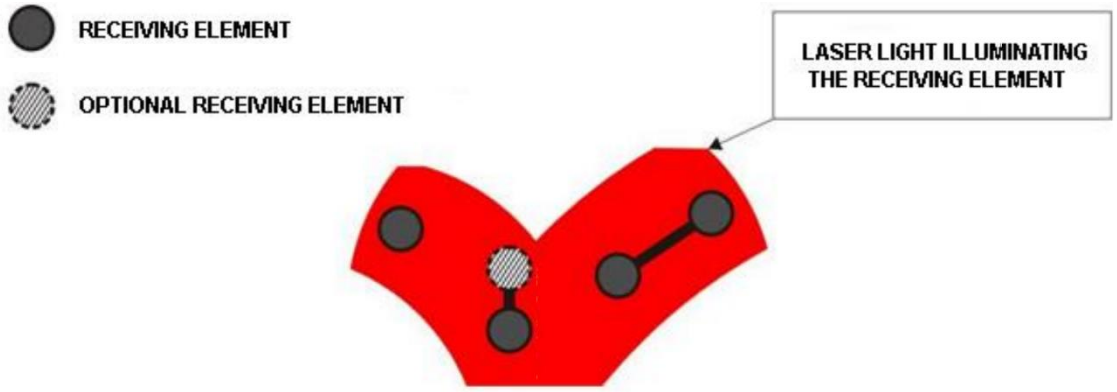
The safety device DSP LASER is a visible laser emission guard which, inserted in a more general control system, contributes to protect the operator in the use of press brakes for the cold working of the metals and is constituted by:

- one transmitter DSP LASER TX powered at 24Vac or 24Vdc,
- one receiver DSP LASER RX powered at 24Vac or 24Vdc which moreover includes: the logic for the control of the operation modes, the function of automatic monitoring of the overtravel and the two solid-state outputs OSSD,
- one DSP LASER AL module (optional) with a series of variations.

Each of them is enclosed within its own case.

The activation of the receiver is made possible only by the emission generated by the transmitter, which is electrically connected to by the synchronism. An emission generated by an identical transmitter, but not electrically connected with the receiver, cannot activate it.

Main task of “DSP LASER” is detecting, within the limits defined by the detection capacity of the instrument, the intrusion of any opaque physical element into the “detection area”. The detection area can be defined as a “laser light solid” which starts from the transmitter and arrives to the receiver and whose section is represented in Fig. 9.1. The interruption of the laser beams illuminating the receiving elements, causes the detection of the occurred interruption. The detection of the interruption of one or more of the receiving elements is then managed by the system to issue or not the passage to state OFF of the OSSD outputs. The device has been then designed to activate, in dangerous conditions, the functions for the stop of the movement of the dangerous parts.



WHOLE DETECTION AREA

These functions have been realized providing, in output from the two OSSD, two different ON/OFF electrical signals. The state ON corresponds to the condition for which the DSP LASER system does not detect the conditions for which the downwards movement of the machine must be inhibited or stopped, while the state OFF detects them. Various can be the causes for which the outputs are set to the state OFF. The main ones are: the lack of collimation between the two TX and RX components (caused, for example, by the intrusion of an element into the detection area), the lack of power supply to DSP LASER, 30 hours of continue operation, failed check of the stop space, failure of the DSP LASER equipment itself.

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Kit Base - DSP Standard+AL2

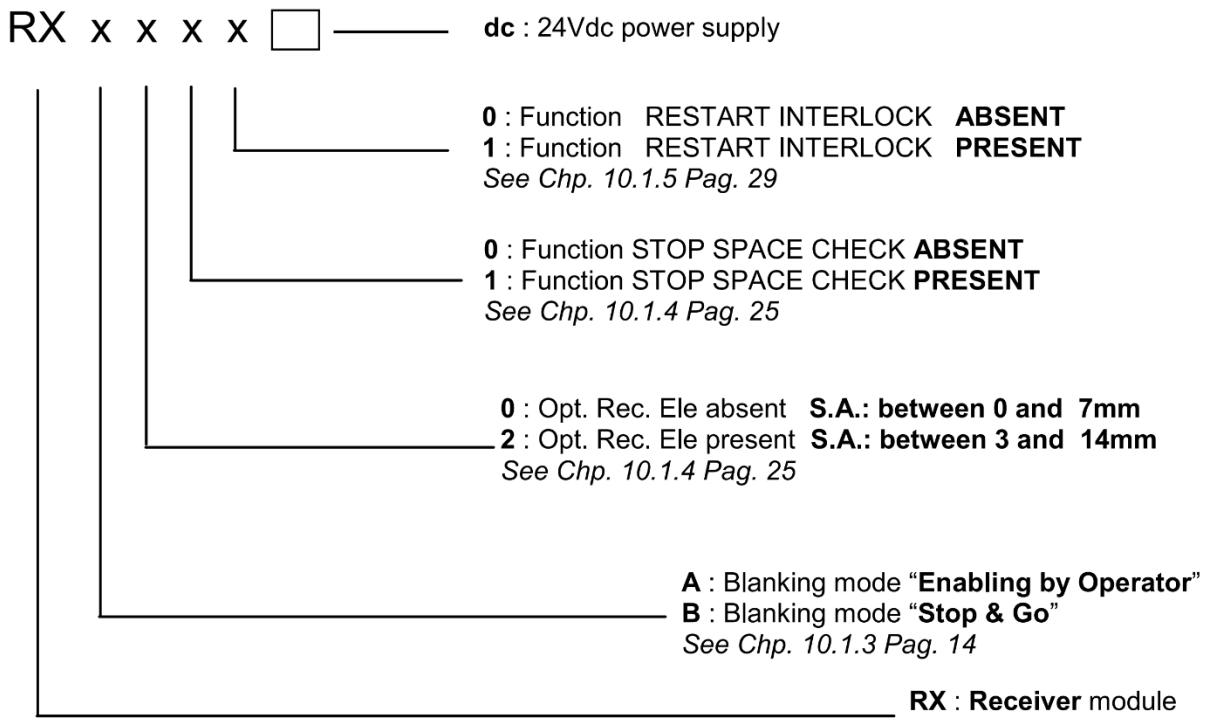
COD. 001 L A200

The main causes of fault or wrong operation are signalled by a precise configuration of the LEDs present in RX. For information see par.12.1. The OSSD outputs, properly inserted in the electric circuit of command of the dangerous part of the equipment, enable, in ON state, the possibility to command the movement (start function) and, vice versa, to inhibit or stop it in OFF state (stop function).

At last, the management of the procedures of stop, suspension and reactivation of the machine are entrusted to the main control board of the machine itself. DSP LASER is available in more versions which differ for the following main characteristics:

- Blanking type: “Stop&Go” or with “Enabling by operator”
- Central receiver: optional or in different positions, allowing the use with machines whose stop space is included within ranges of different values
- Function of check, at switch-on, of the presence/absence of the stop space
- 24Vdc power supply for TX and RX modules
- 24Vdc power module and OSSD relay outputs (ALdc)
- Power supply module with filter and power supply transformer by 220Vac or 24Vac (AL1B)
- Power supply module with filter and power supply transformer by 220Vac or 24Vac and OSSD outputs with relay (AL2B)

The codes identifying RX module of DSP LASER with the corresponding configuration are:



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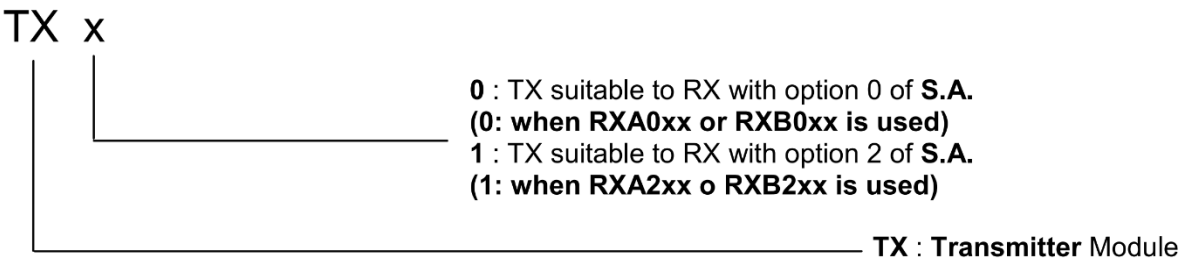
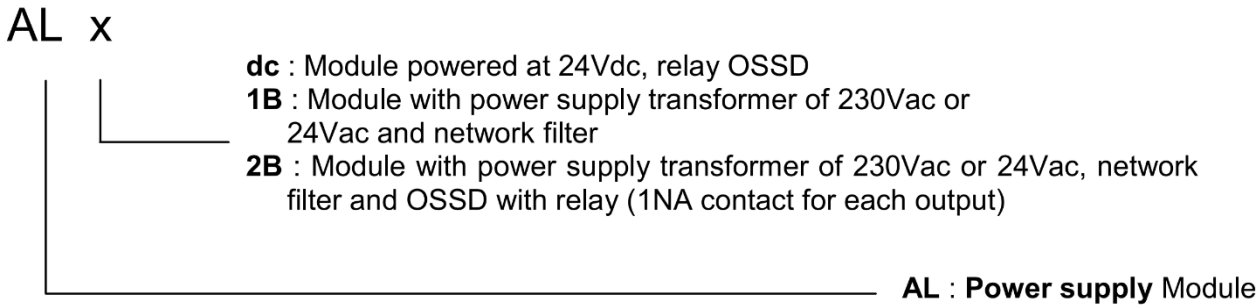
Kit Base - DSP Standard+AL2

COD. 001 L A200

The codes identifying TX module of DSP LASER with the corresponding configuration are:



The codes identifying AL module of DSP LASER with the corresponding configuration are:



The examples here below help to order the proper DSP model.
If you wish to order one DSP LASER module for a machine with stopping distance of 10mm, out-of-stroke test, anti-repetition pedal, Blanking of type A and 24Vdc power supply, the proper code to order is: RX A211 DC.
As consequence, you have to associate the transmitter TX 1.
If you wish the solid state outputs, the auxiliary AL module is not necessary. Otherwise, if you wish the relay outputs, even the ALdc module has to be ordered.

If you wish to order one DSP LASER module for a machine with stopping distance of 3mm, WITHOUT out-of-stroke test, WITHOUT anti-repetition pedal, with Blanking of type B and 230Vac power supply, the proper code to order is: RX B000. As consequence, you have to associate the transmitter TX 0.
If you wish the solid state outputs, the auxiliary module AL1B 230Vac will be necessary. Otherwise, if you wish the relay outputs, the AL2B 230Vac module shall be ordered.

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Kit Base - DSP Standard+AL2

COD. 001 M A001

KIT BASE WITH DSP LASER STANDARD A001 - 24V DC

DSP
LASER TX + RX
A001

DSP emits a **visible laser barrier** which, made and placed as described in the EN12622 standard, **protects the press brake operator** against the risk of being crushed between the upper and lower part during the closing of the fold in high speed.

Module AL2 is an electronic module whose logic has been planned to **monitor and manage the systems and components present on a press brake** to ensure the safety of the bending process itself according to the EN12622 standard.

MODULO AL2
24V DC

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Kit Base - DSP Standard+AL2

COD. 001 M A001

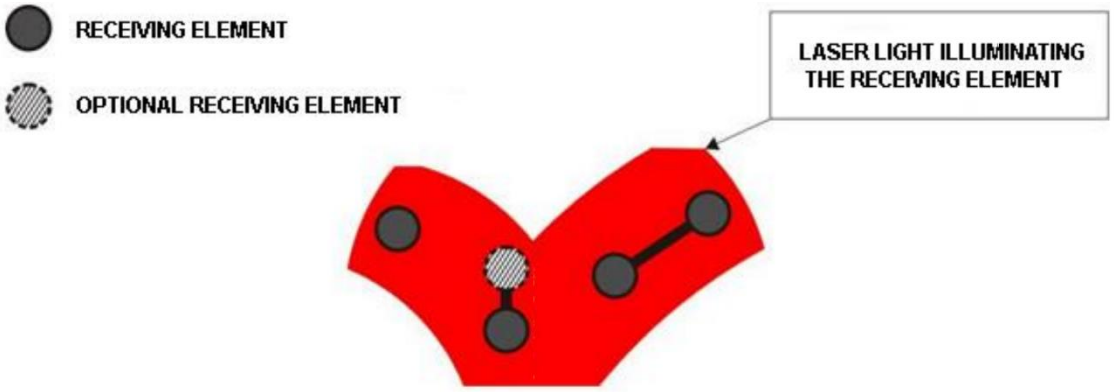
The safety device DSP LASER is a visible laser emission guard which, inserted in a more general control system, contributes to protect the operator in the use of press brakes for the cold working of the metals and is constituted by:

- one transmitter DSP LASER TX powered at 24Vac or 24Vdc,
- one receiver DSP LASER RX powered at 24Vac or 24Vdc which moreover includes: the logic for the control of the operation modes, the function of automatic monitoring of the overtravel and the two solid-state outputs OSSD,
- one DSP LASER AL module (optional) with a series of variations.

Each of them is enclosed within its own case.

The activation of the receiver is made possible only by the emission generated by the transmitter, which is electrically connected to by the synchronism. An emission generated by an identical transmitter, but not electrically connected with the receiver, cannot activate it.

Main task of "DSP LASER" is detecting, within the limits defined by the detection capacity of the instrument, the intrusion of any opaque physical element into the "detection area". The detection area can be defined as a "laser light solid" which starts from the transmitter and arrives to the receiver and whose section is represented in Fig. 9.1. The interruption of the laser beams illuminating the receiving elements, causes the detection of the occurred interruption. The detection of the interruption of one or more of the receiving elements is then managed by the system to issue or not the passage to state OFF of the OSSD outputs. The device has been then designed to activate, in dangerous conditions, the functions for the stop of the movement of the dangerous parts.



WHOLE DETECTION AREA

These functions have been realized providing, in output from the two OSSD, two different ON/OFF electrical signals. The state ON corresponds to the condition for which the DSP LASER system does not detect the conditions for which the downwards movement of the machine must be inhibited or stopped, while the state OFF detects them. Various can be the causes for which the outputs are set to the state OFF. The main ones are: the lack of collimation between the two TX and RX components (caused, for example, by the intrusion of an element into the detection area), the lack of power supply to DSP LASER, 30 hours of continue operation, failed check of the stop space, failure of the DSP LASER equipment itself.

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Kit Base - DSP Standard+AL2

COD. 001 M A001

The main causes of fault or wrong operation are signalled by a precise configuration of the LEDs present in RX. For information see par.12.1. The OSSD outputs, properly inserted in the electric circuit of command of the dangerous part of the equipment, enable, in ON state, the possibility to command the movement (start function) and, vice versa, to inhibit or stop it in OFF state (stop function).

At last, the management of the procedures of stop, suspension and reactivation of the machine are entrusted to the main control board of the machine itself. DSP LASER is available in more versions which differ for the following main characteristics:

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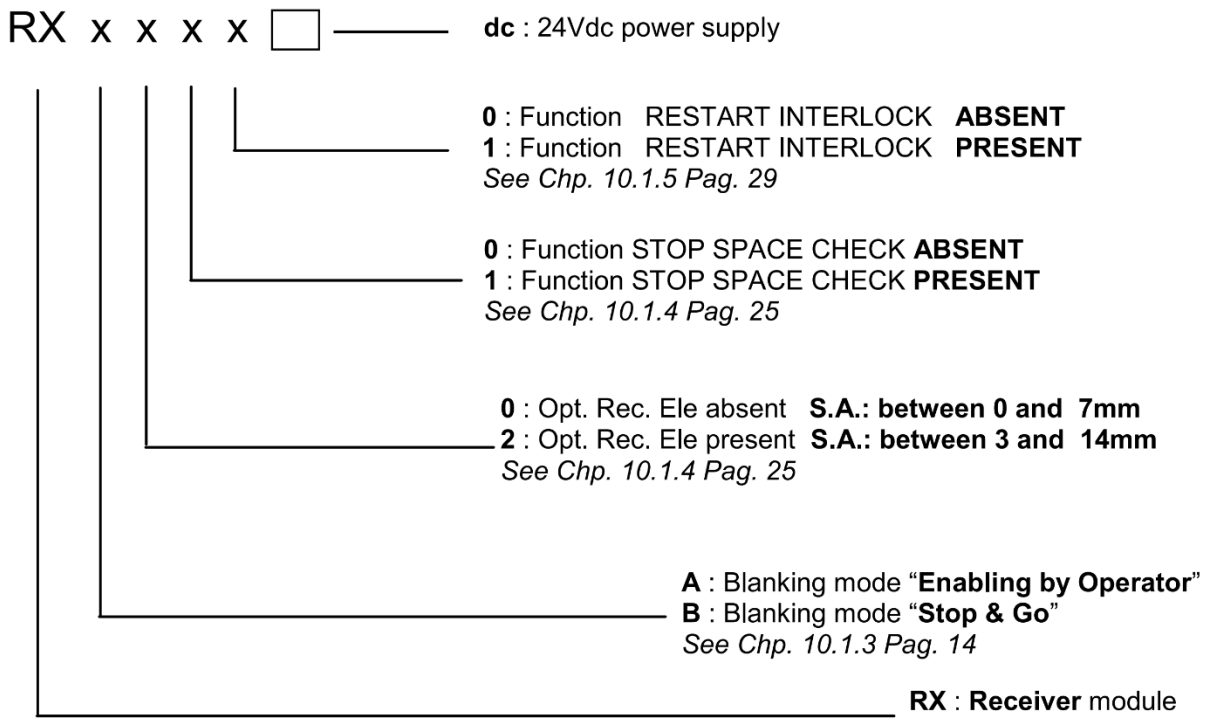
- Central receiver: optional or in different positions, allowing the use with machines whose stop space is included within ranges of different values
- Function of check, at switch-on, of the presence/absence of the stop space
- 24Vdc power supply for TX and RX modules
- 24Vdc power module and OSSD relay outputs (ALdc)
- Power supply module with filter and power supply transformer by 220Vac or 24Vac (AL1B)
- Power supply module with filter and power supply transformer by 220Vac or 24Vac and OSSD outputs with relay (AL2B)

The codes identifying RX module of DSP LASER with the corresponding configuration are:



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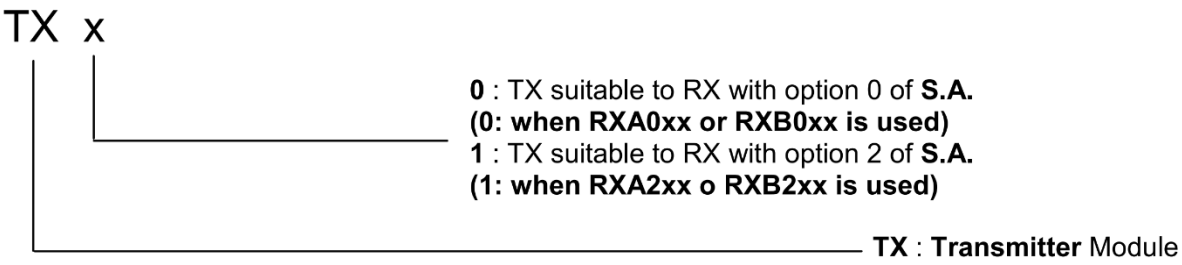
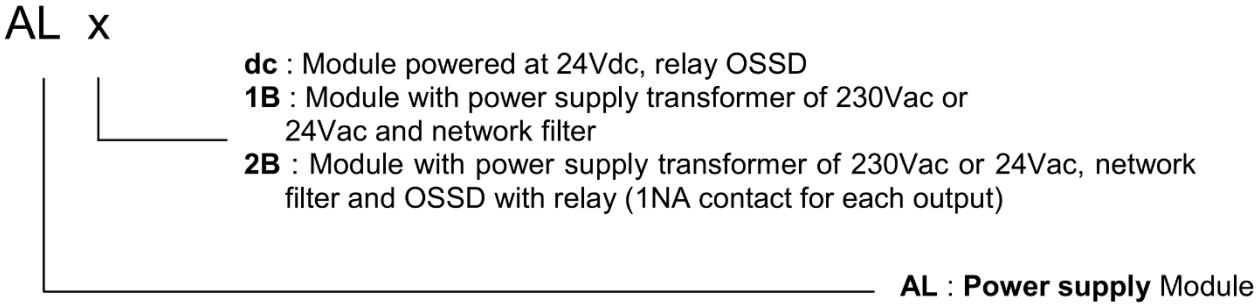
Kit Base - DSP Standard+AL2

COD. 001 M A001

The codes identifying TX module of DSP LASER with the corresponding configuration are:



The codes identifying AL module of DSP LASER with the corresponding configuration are:



The examples here below help to order the proper DSP model.
If you wish to order one DSP LASER module for a machine with stopping distance of 10mm, out-of-stroke test, anti-repetition pedal, Blanking of type A and 24Vdc power supply, the proper code to order is: RX A211 DC.
As consequence, you have to associate the transmitter TX 1.
If you wish the solid state outputs, the auxiliary AL module is not necessary. Otherwise, if you wish the relay outputs, even the ALdc module has to be ordered.

If you wish to order one DSP LASER module for a machine with stopping distance of 3mm, WITHOUT out-of-stroke test, WITHOUT anti-repetition pedal, with Blanking of type B and 230Vac power supply, the proper code to order is: RX B000. As consequence, you have to associate the transmitter TX 0.
If you wish the solid state outputs, the auxiliary module AL1B 230Vac will be necessary. Otherwise, if you wish the relay outputs, the AL2B 230Vac module shall be ordered.

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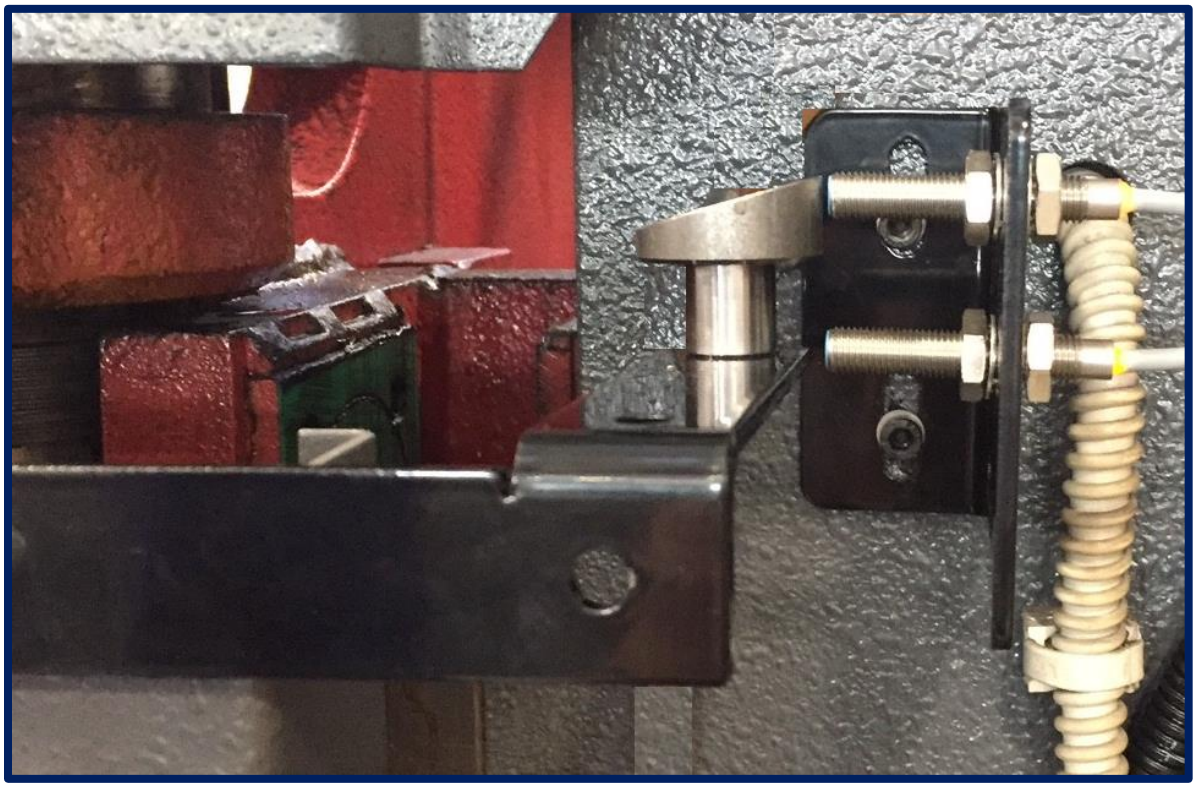
Kit Stpping Distance

COD. 034

The Kit Stopping Space
is complete with
inductive sensors diameter 8
and relative
cam for stopping distance.



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RUN 400mm

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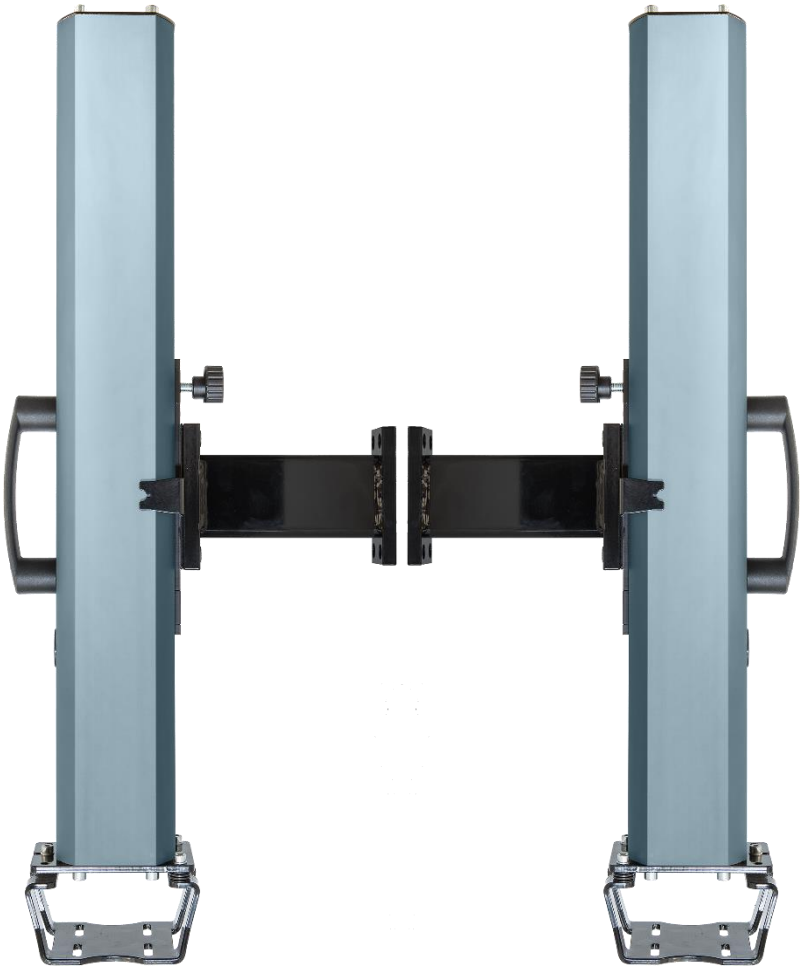

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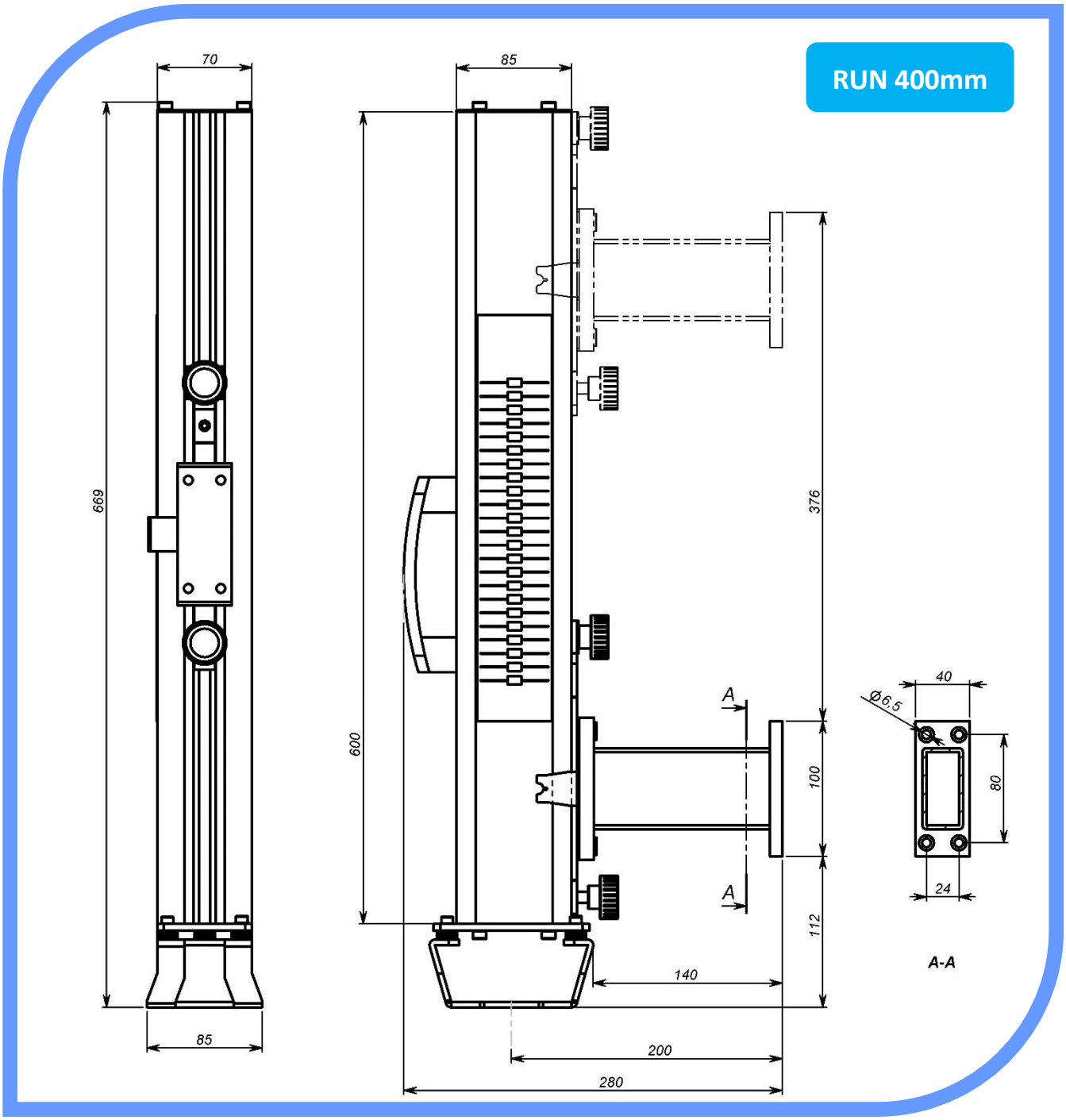

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SMART Brackets with Support

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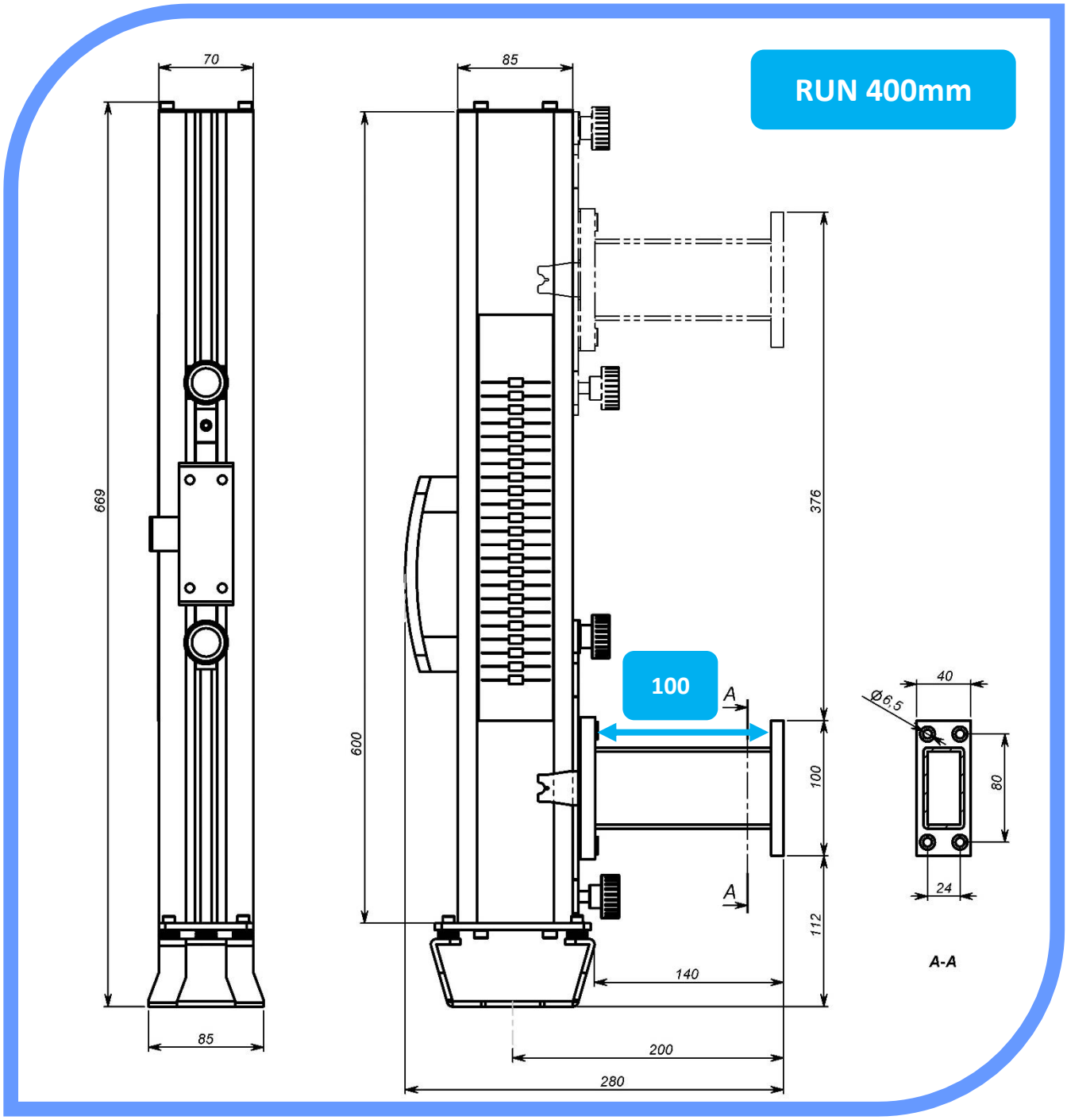

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RUN 600mm

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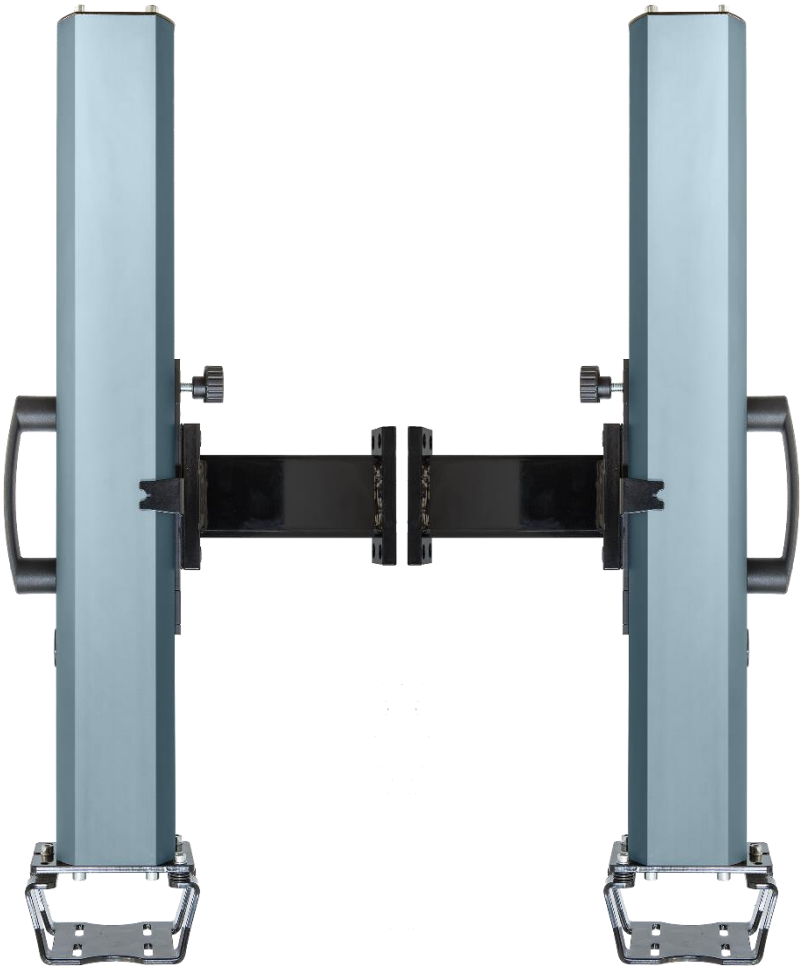

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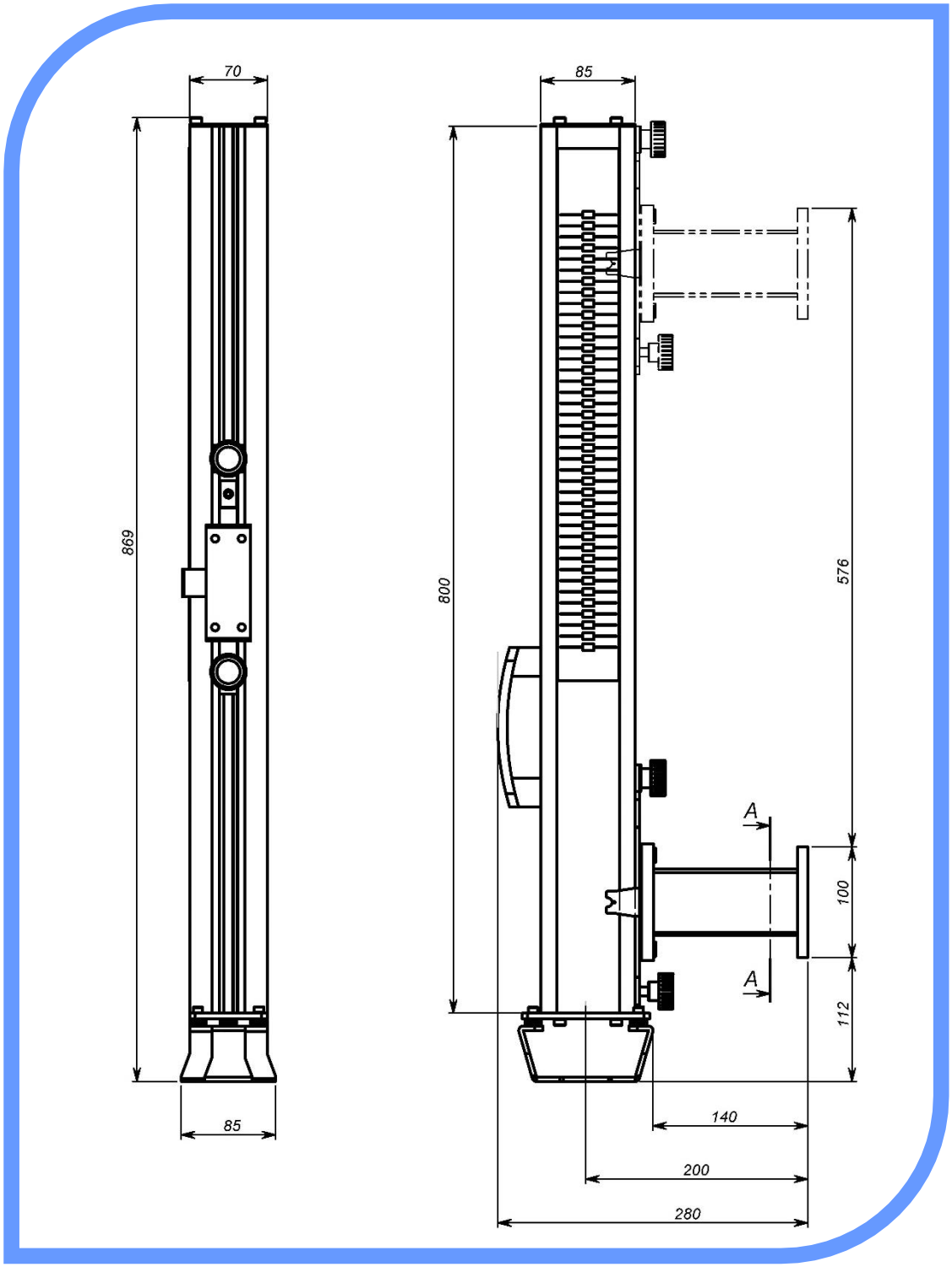
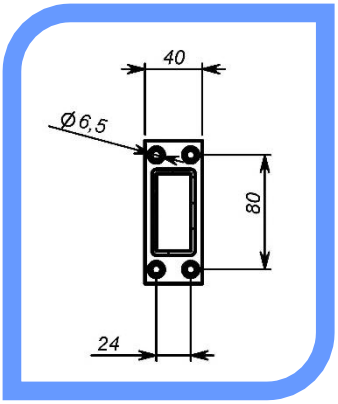
MBS SMART Brackets

COD. 003 600



RUN 600mm



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TRIVENETA SISTEMI

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RUN 800mm

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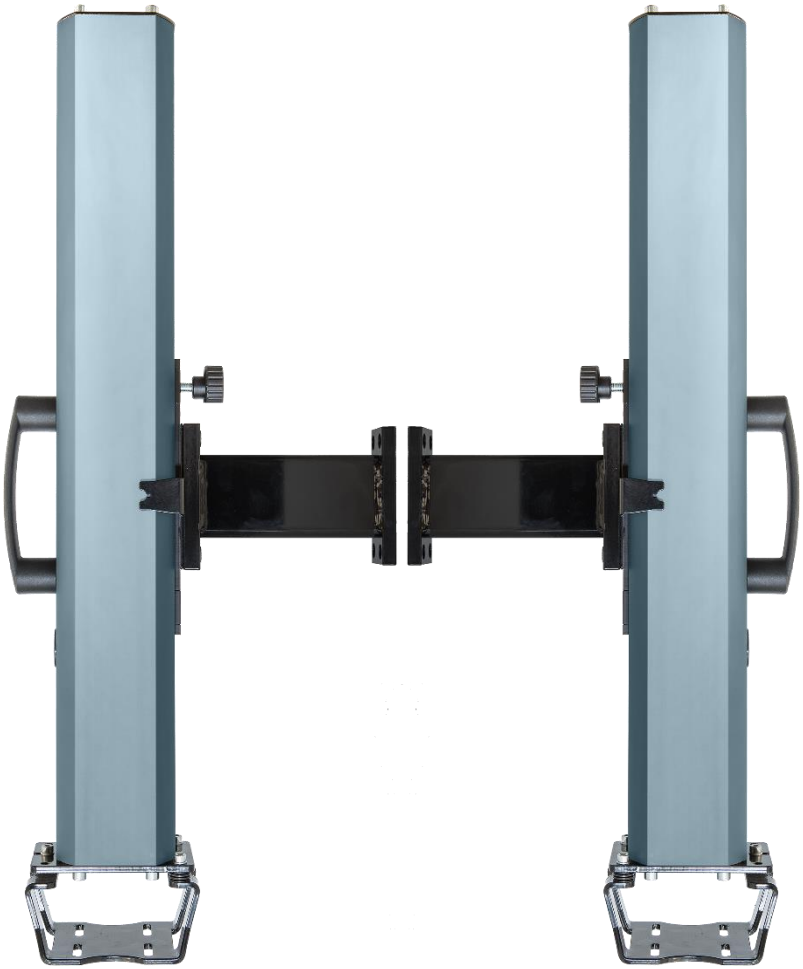

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MBS SMART Brackets

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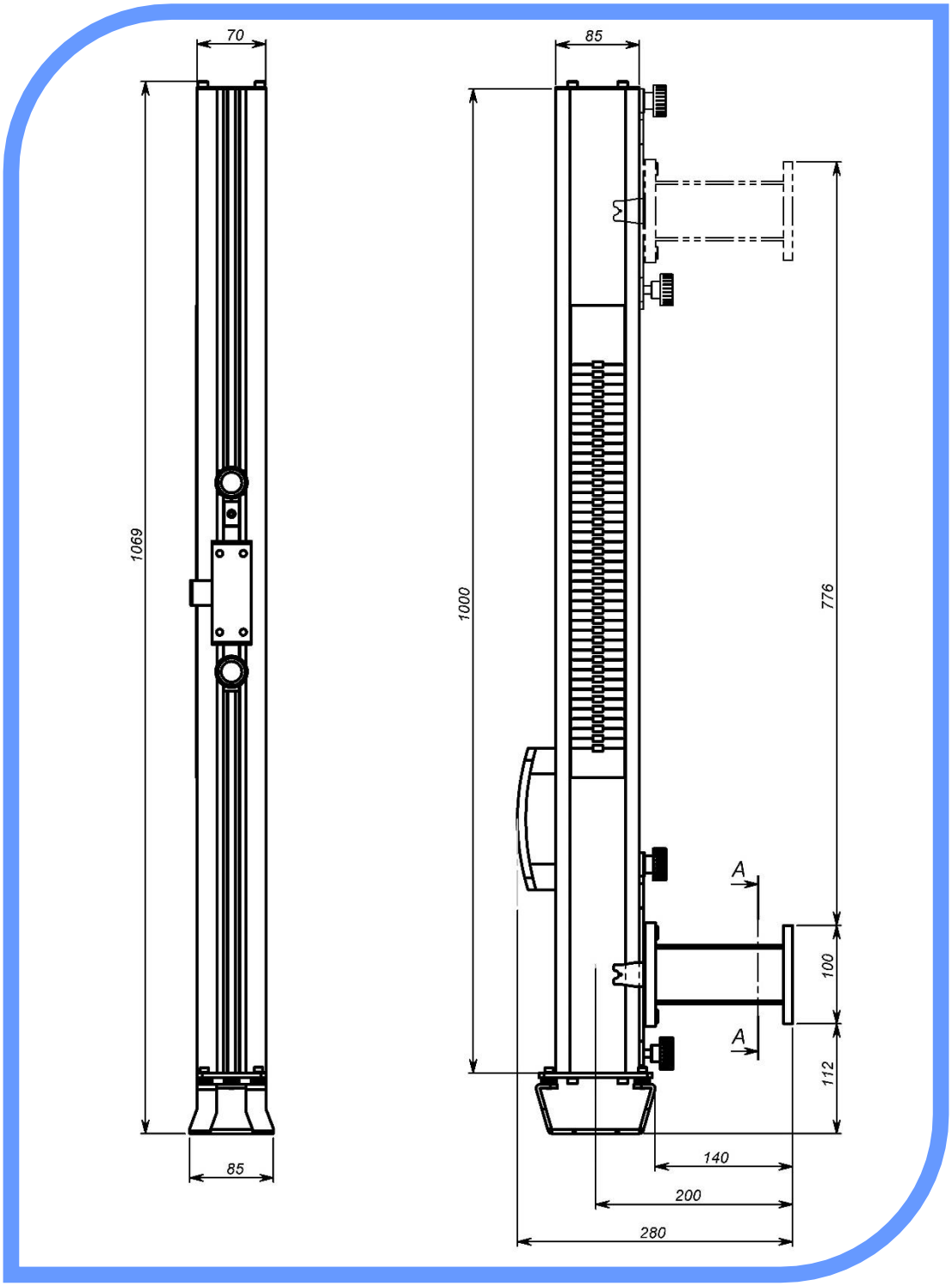
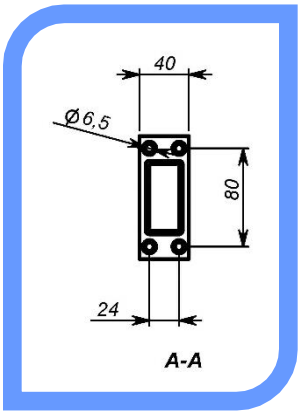


RUN 800mm



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TRIVENETA SISTEMI

MBS SMART Brackets

COD. 003 1000

RUN 1000mm

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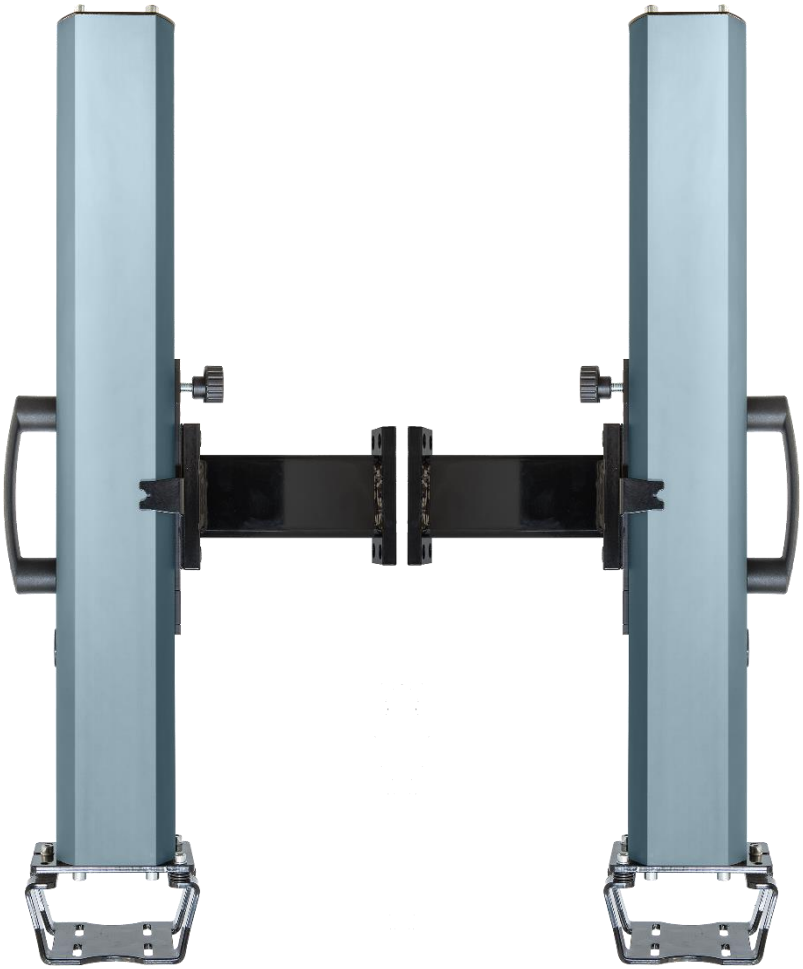

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MBS SMART Brackets

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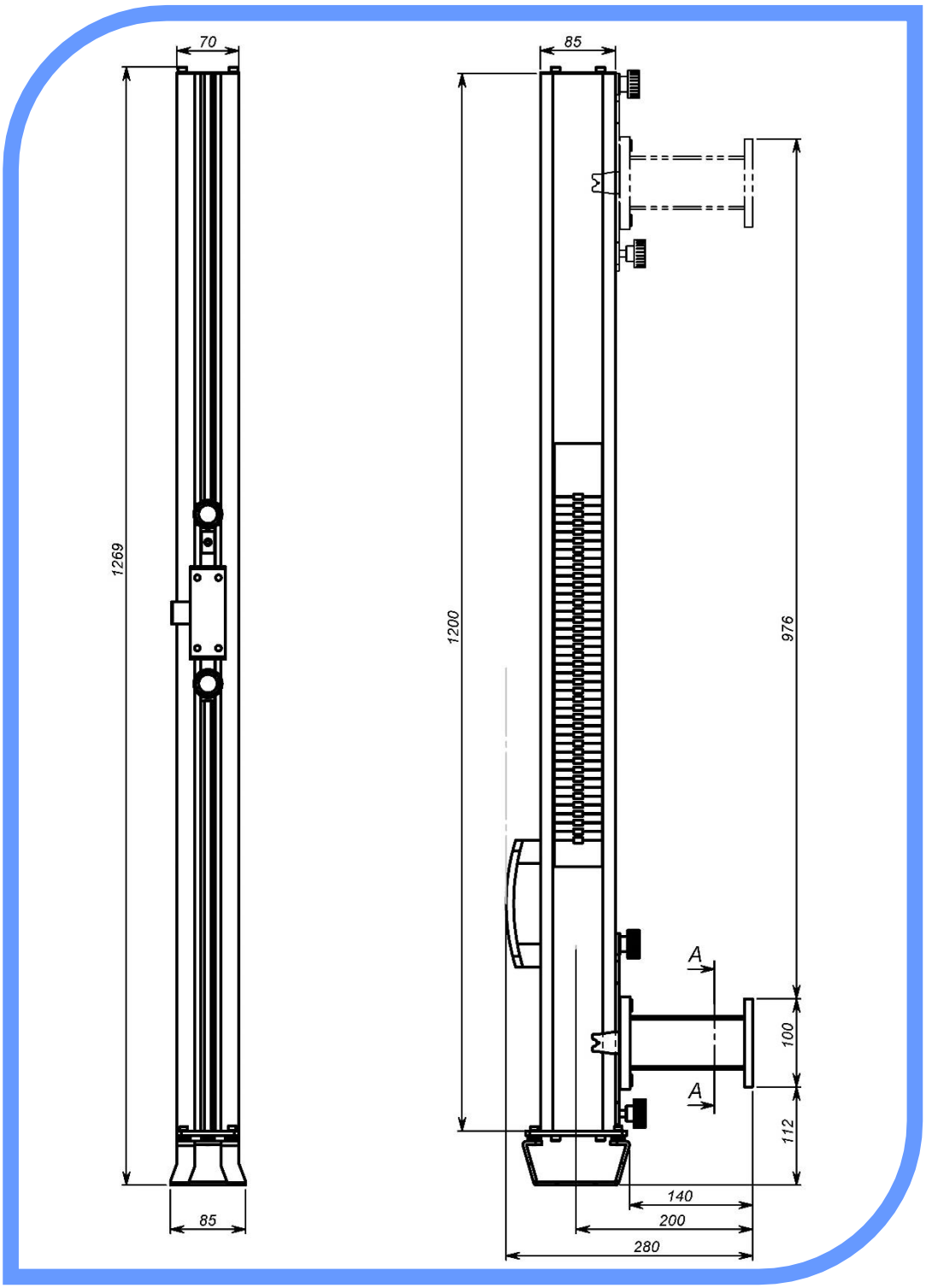
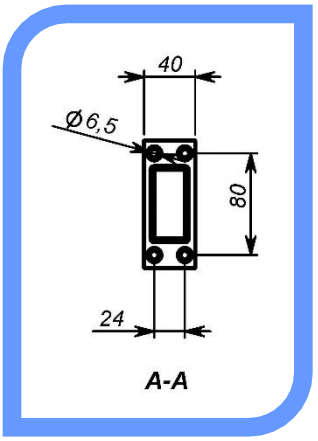


RUN 1000mm



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TRIVENETA SISTEMI

STRATOS Brackets

COD. 060 400

RUN 400mm

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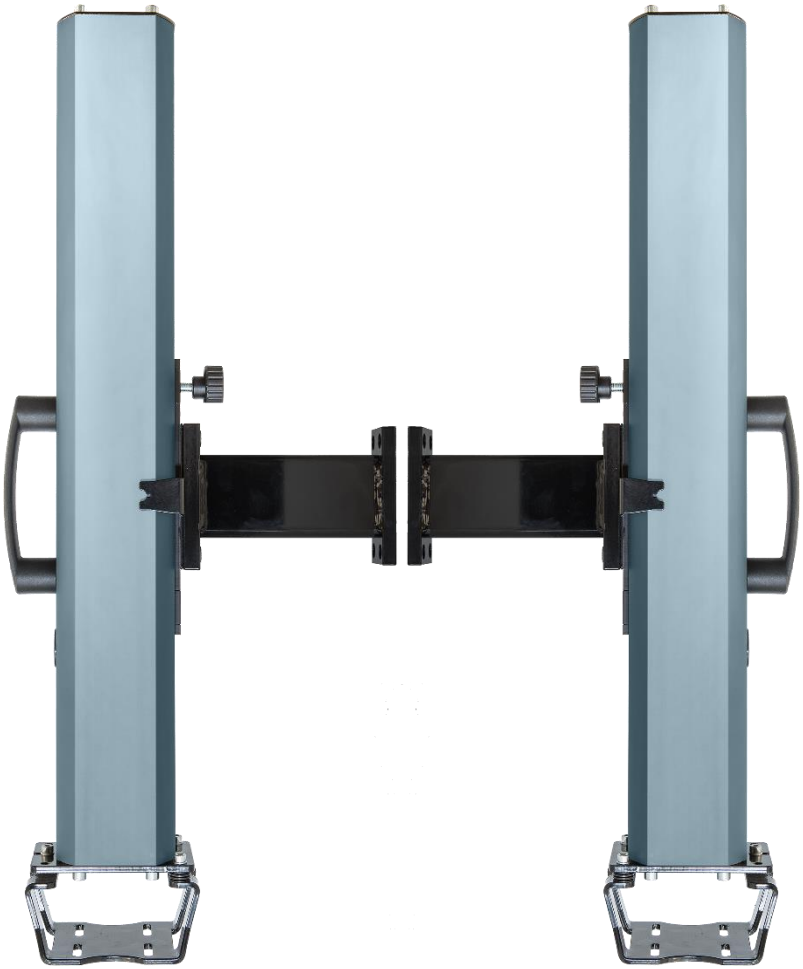
Movement on recirculating ball bearing.

The solution for securing your press brake at a highly competitive price.

- → Manual adjustment
- → Suitable for every type of machine
- → Practical, fast and competitive



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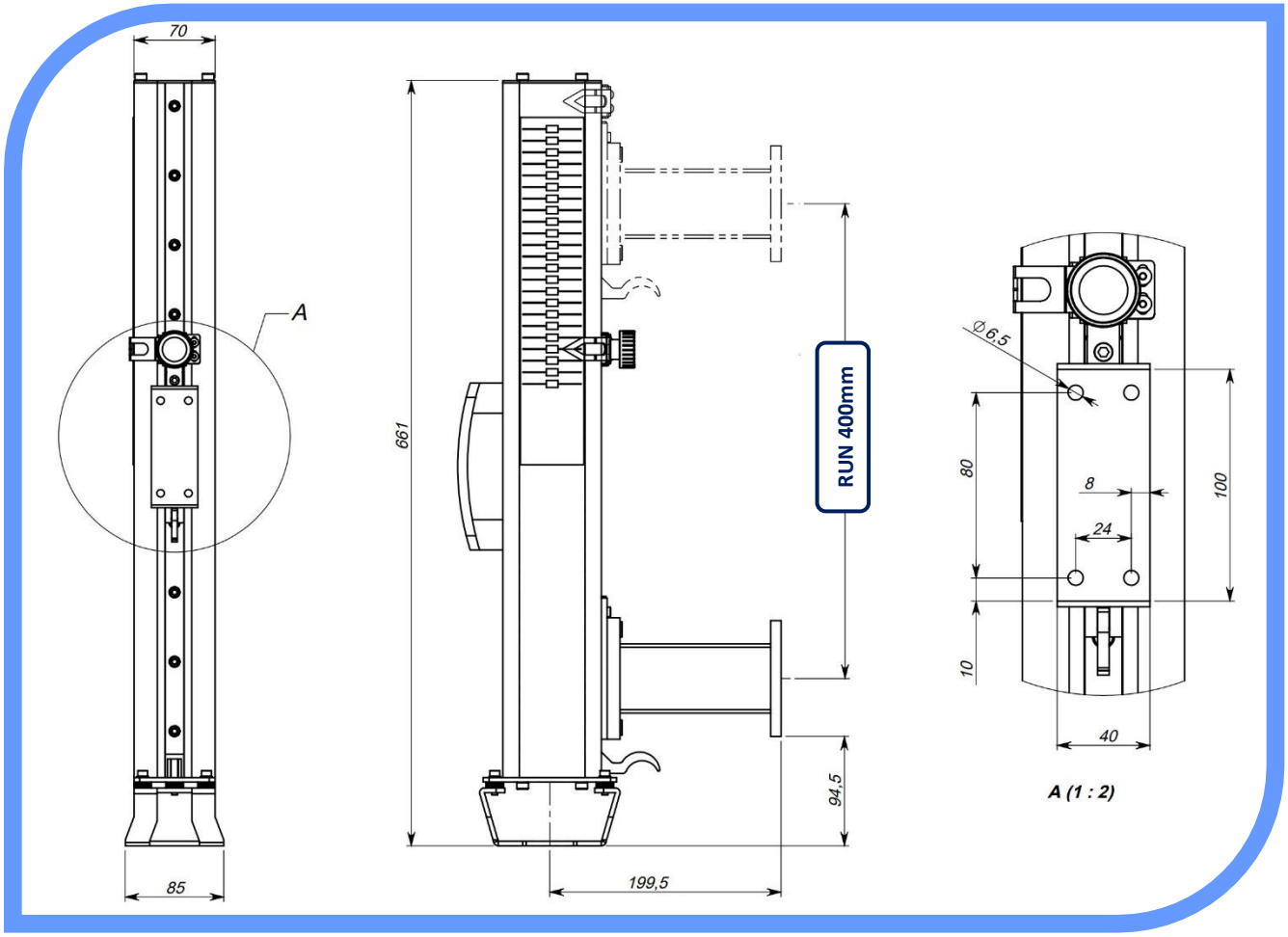
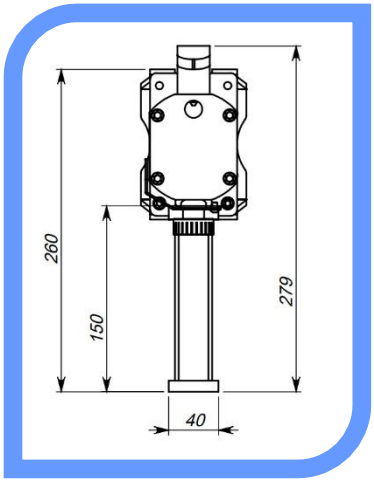
STRATOS Brackets

COD. 060 400





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TRIVENETA SISTEMI

STRATOS Brackets

COD. 060 600

RUN 600mm

Simple and effective manual drive devices.
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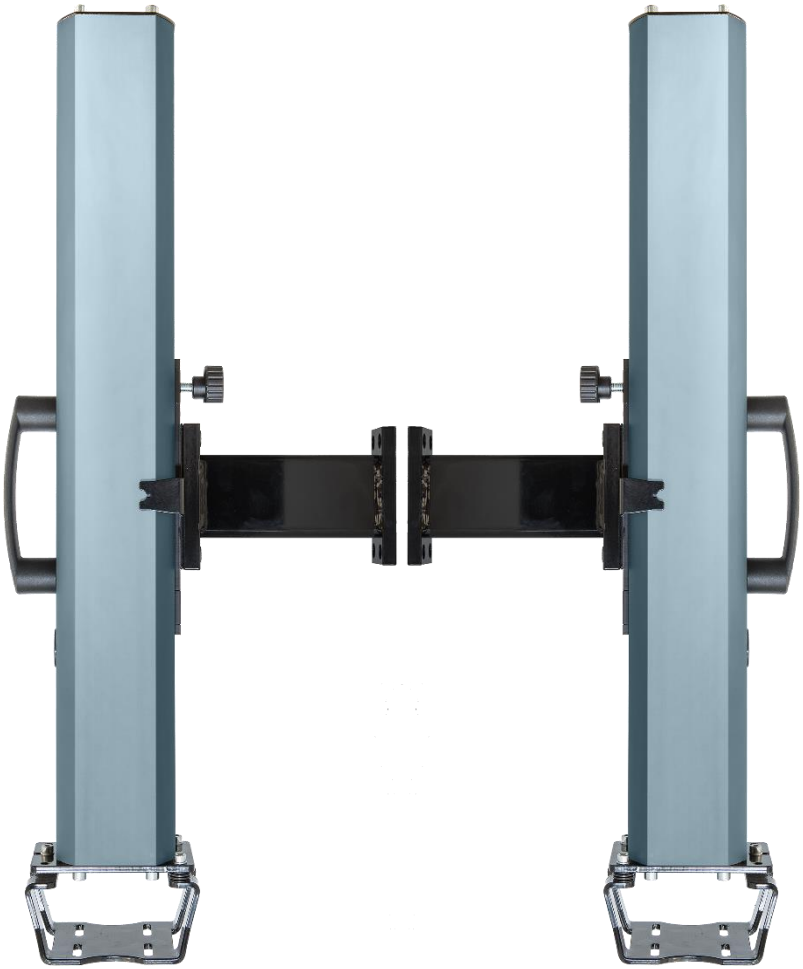

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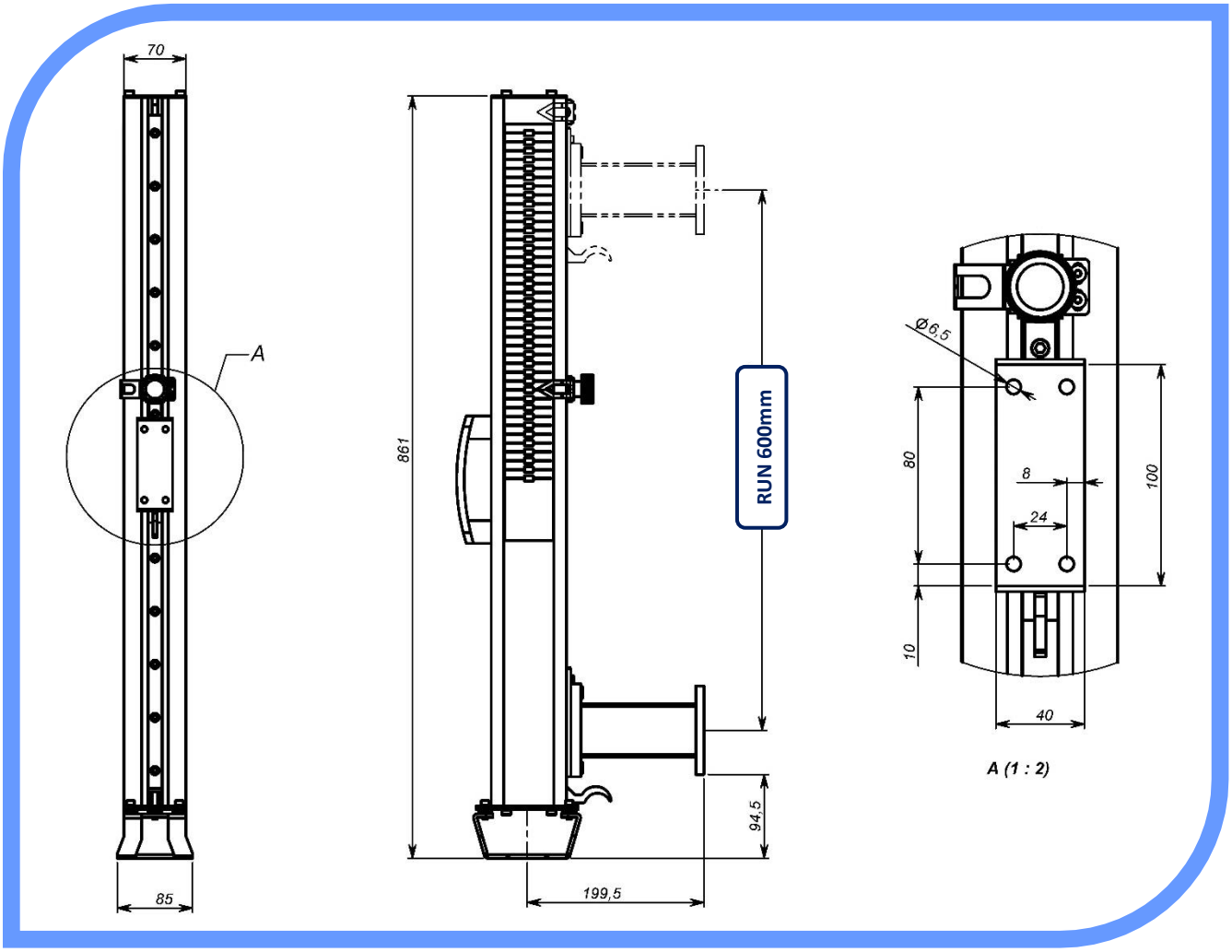

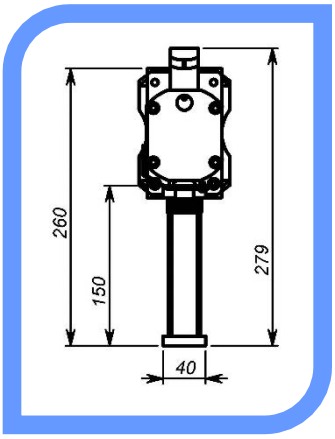

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STRATOS Brackets

COD. 060 800

RUN 800mm

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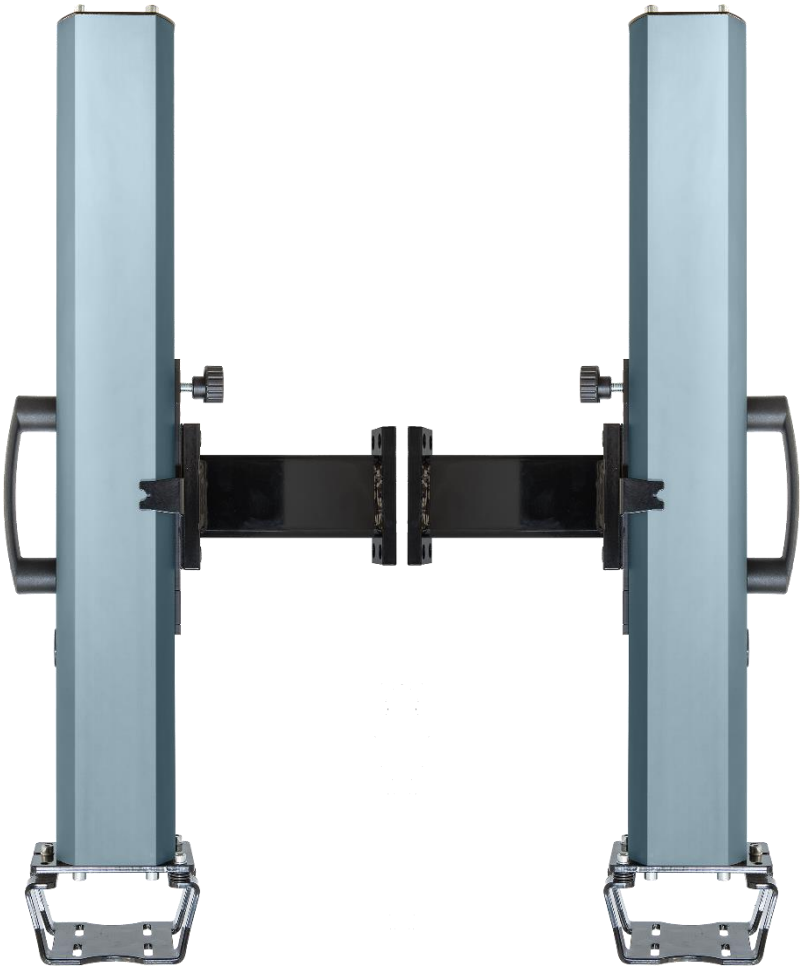

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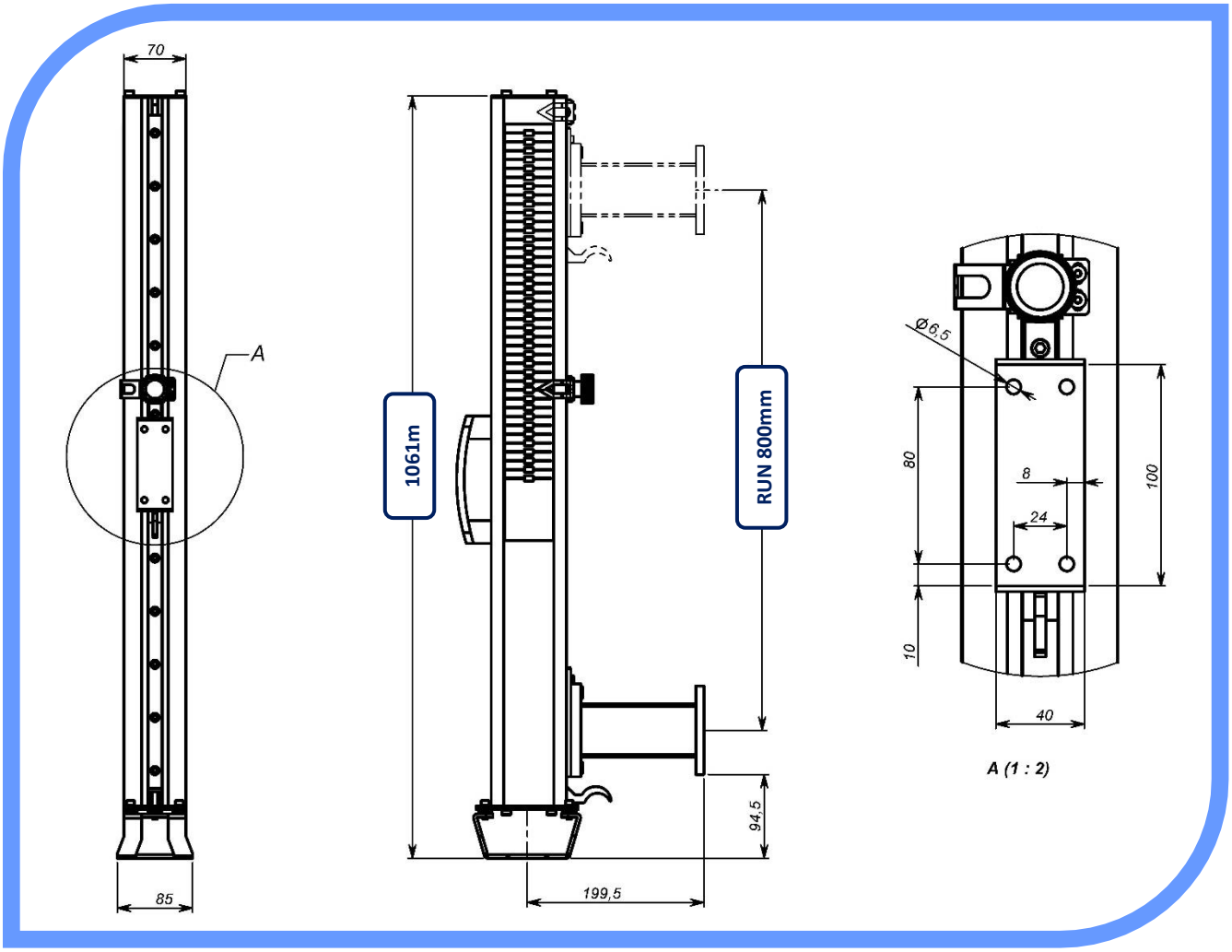

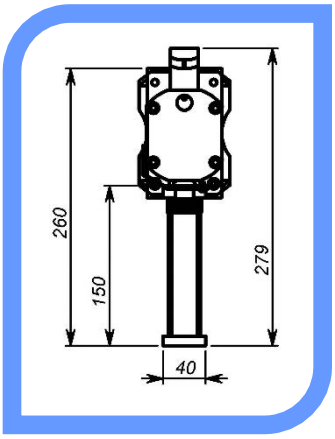

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STRATOS Brackets

COD. 060 1000

RUN 1000mm

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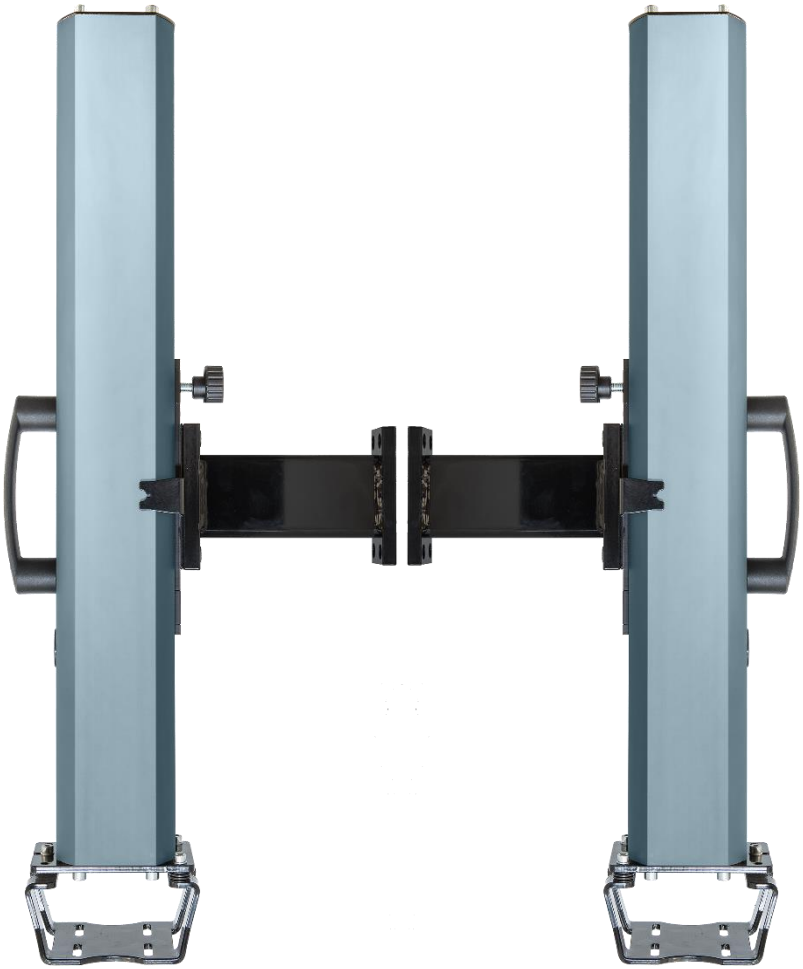

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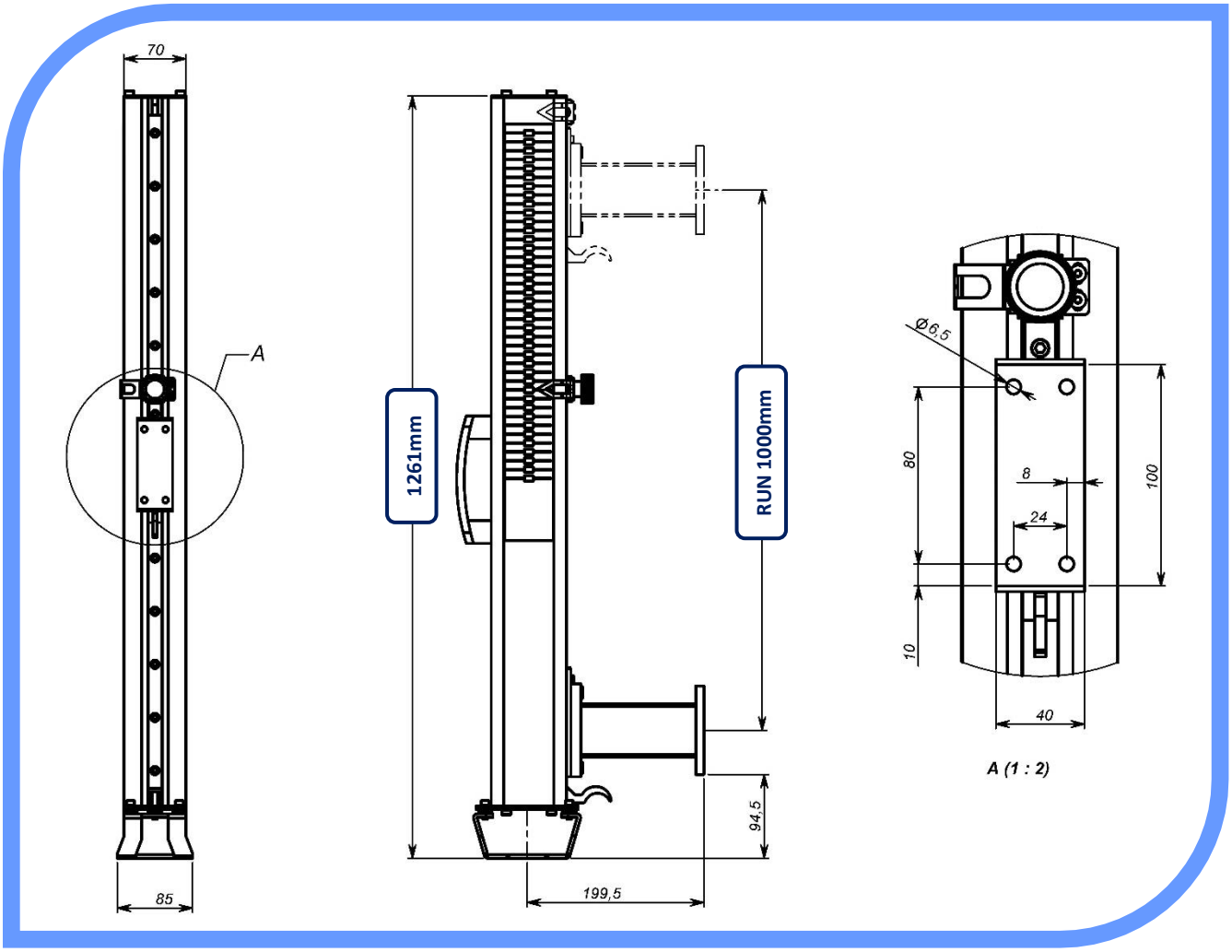

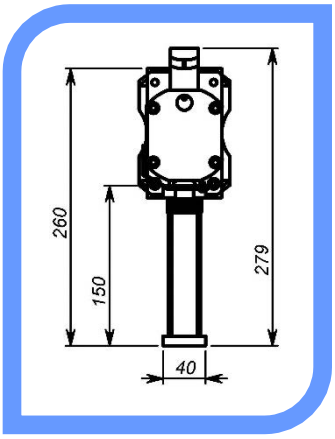

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Automatic Brackets

COD. 004 400

Motorized Brackets
RUN 400mm

They allow an immediate setting of the photocell height according to the installed punch.
Manageable through CNC and barcode scanner reading device.

- → Immediate adjustment
- → Great range of movement
- → Suitable for any type of machine

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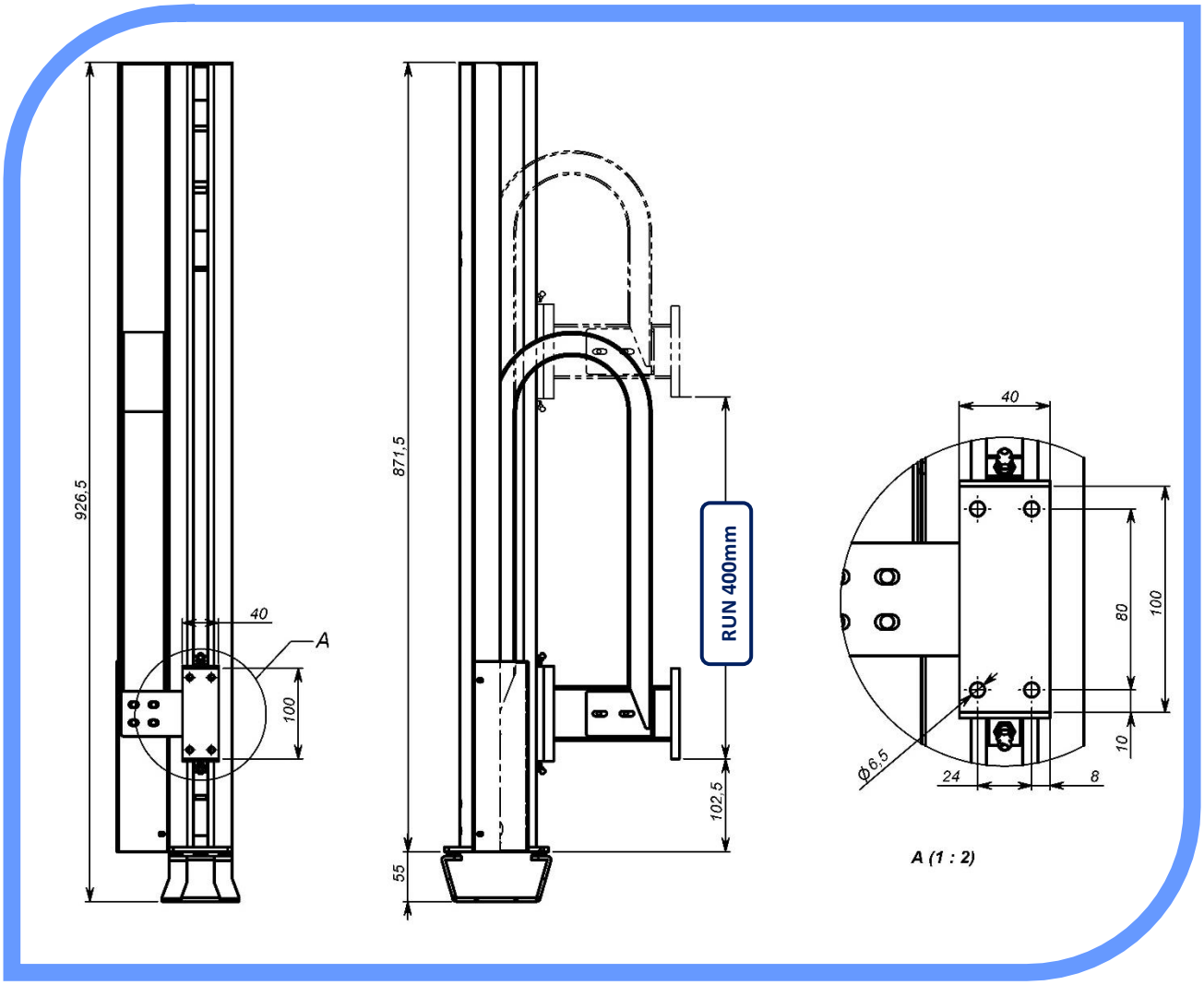
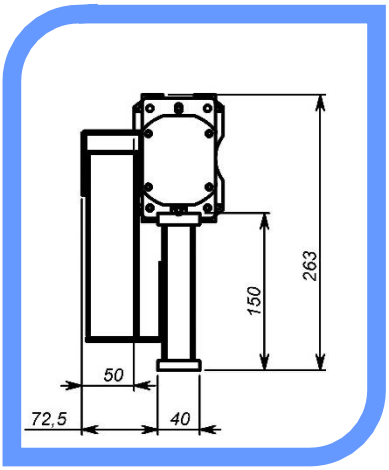
COD. 004 400





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Automatic Brackets

COD. 004 600

Motorized Brackets
RUN 600mm

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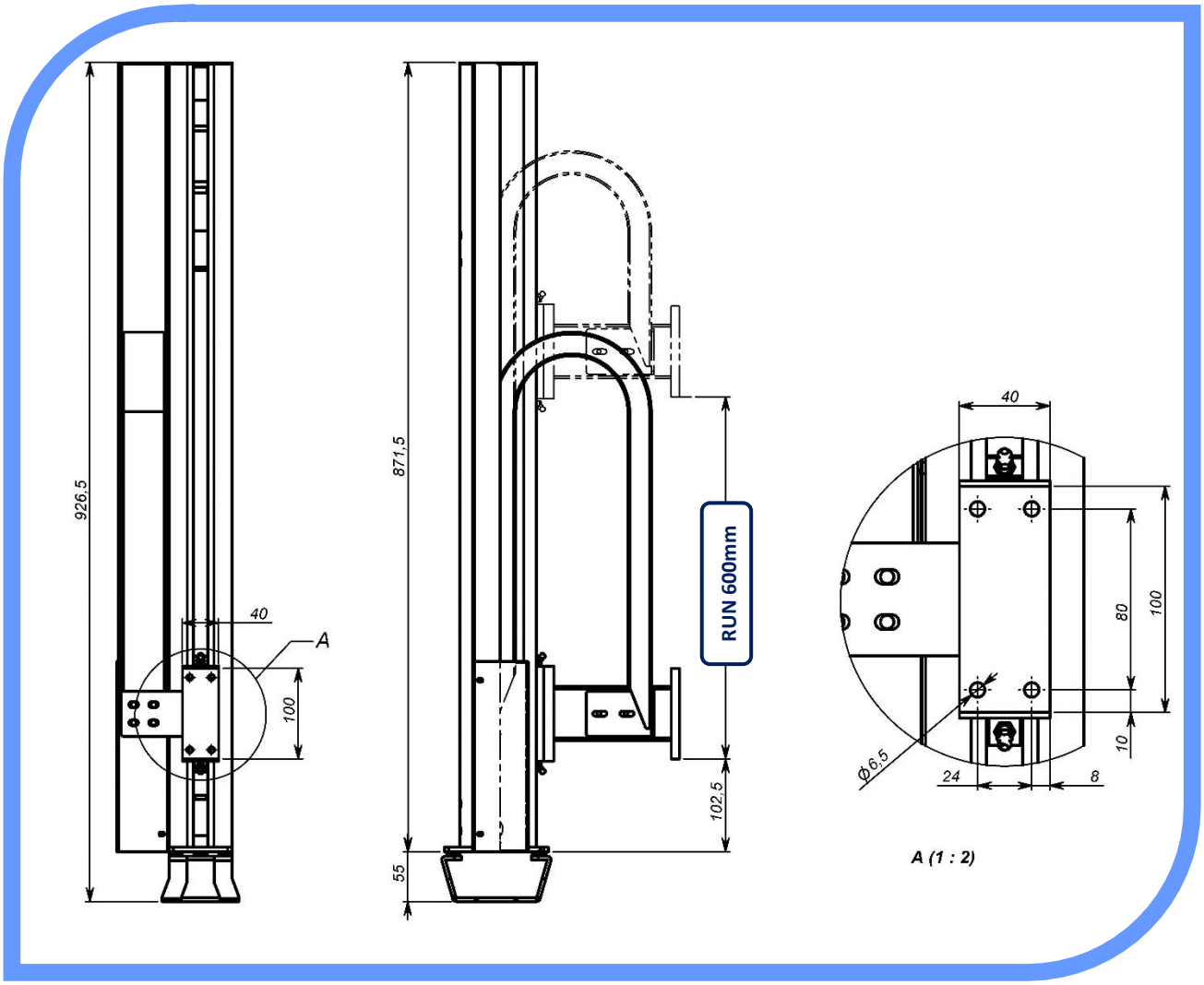
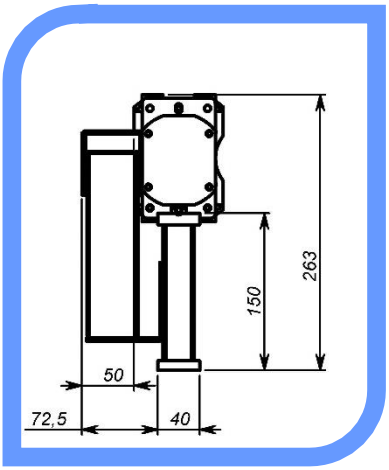
Automatic Brackets

COD. 004 600





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Automatic Brackets

COD. 004 800

Motorized Brackets
RUN 800mm

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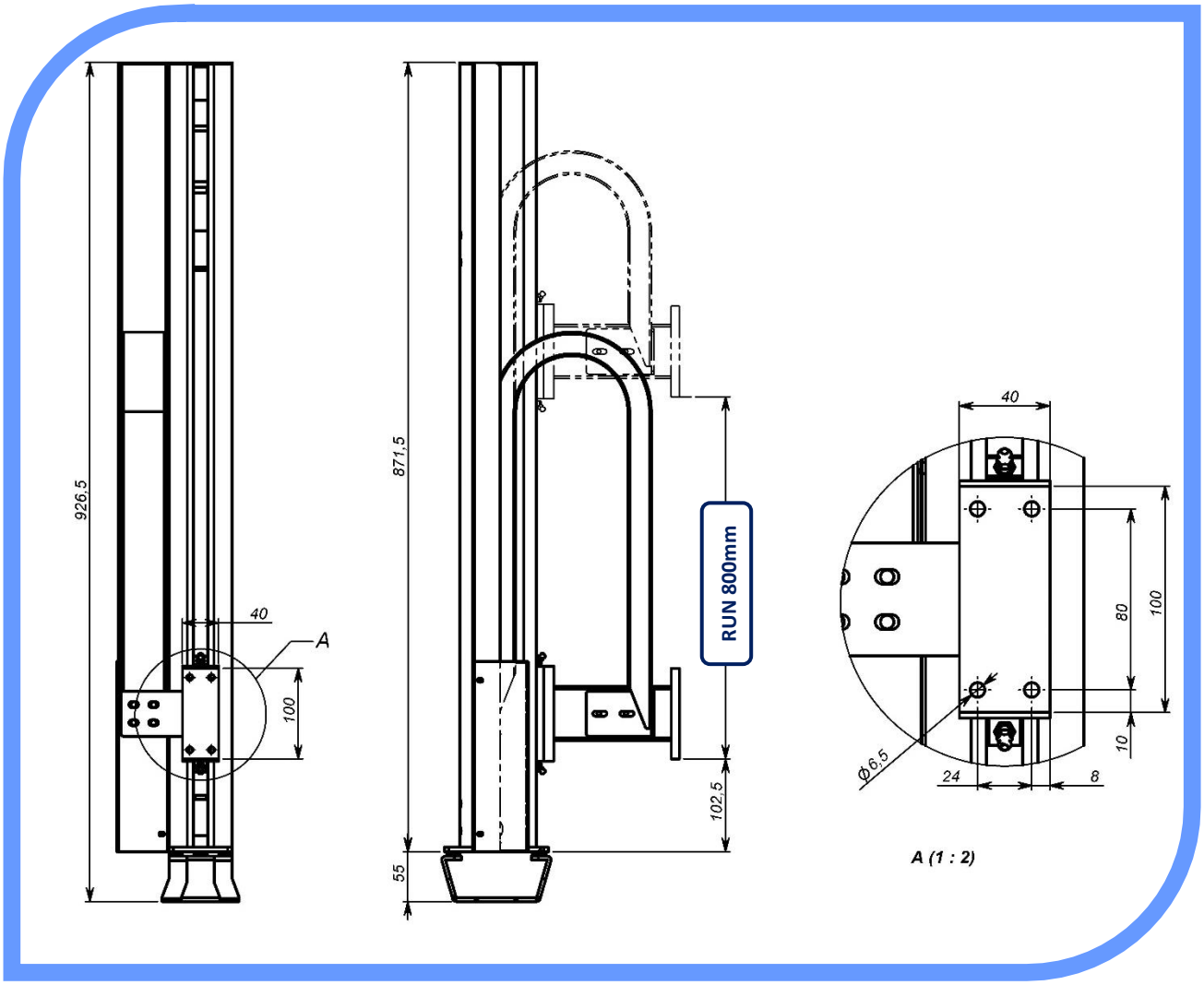
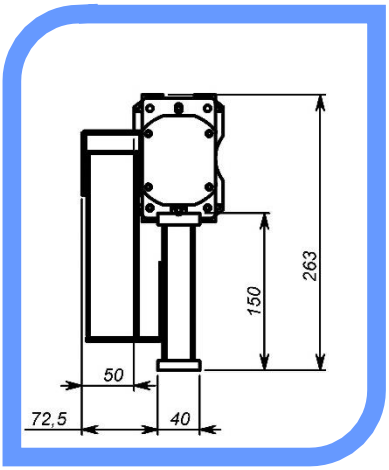
Automatic Brackets

COD. 004 800





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Automatic Brackets

COD. 004 1000

Motorized Brackets
RUN 1000mm

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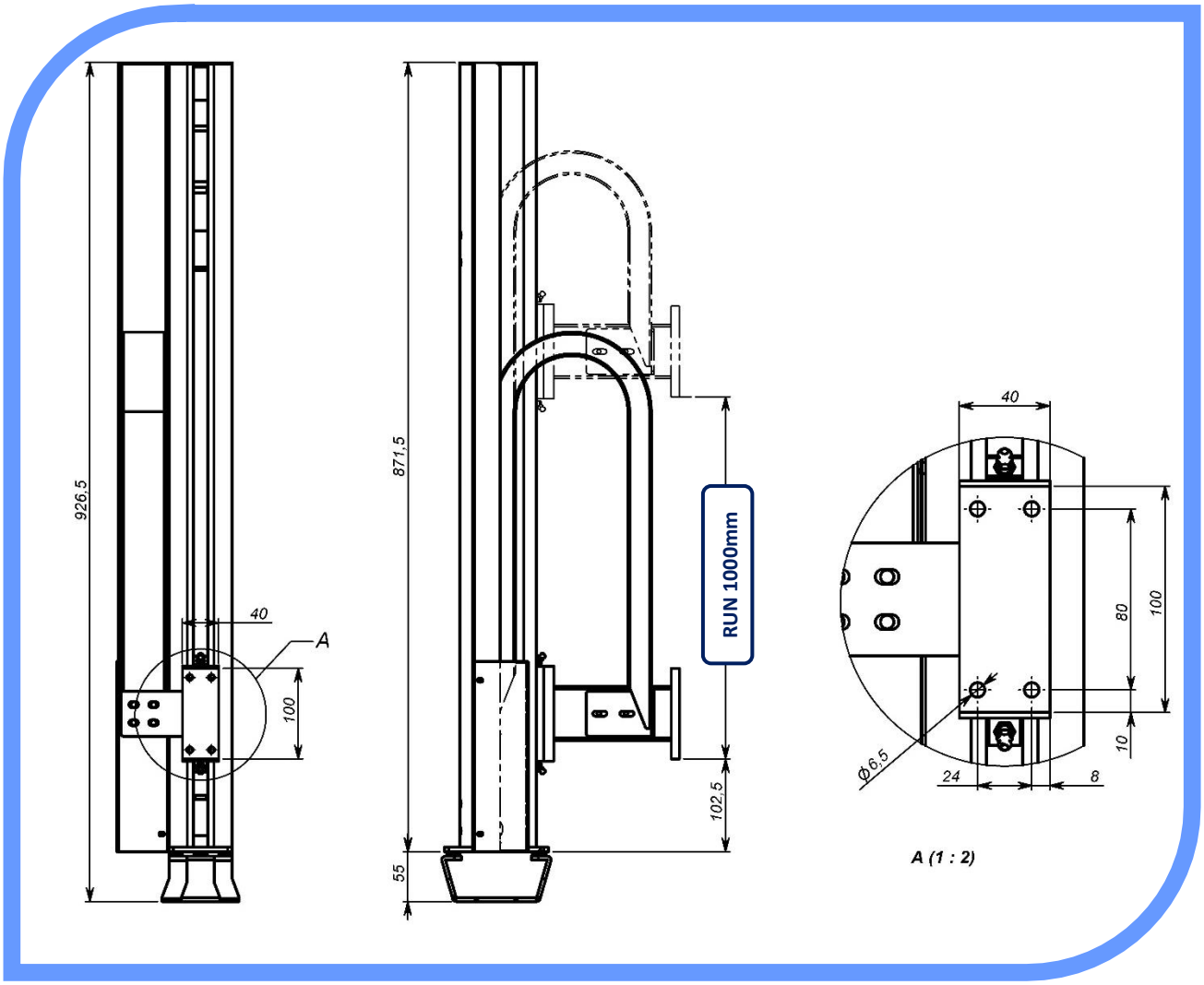

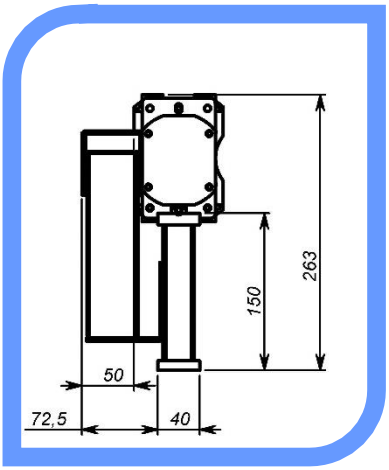

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Kit Motorized Bracket

COD. 004 K

The first complete kit with a motorized bracket ready to be installed
and which already includes everything necessary for operation on your machine.

Kit Motorized Bracket includes these components:

- Motorized bracket with integrated command button and switches
- Drive Hiwin with connectors
- 10m alimentation cable
- 10m connection cable

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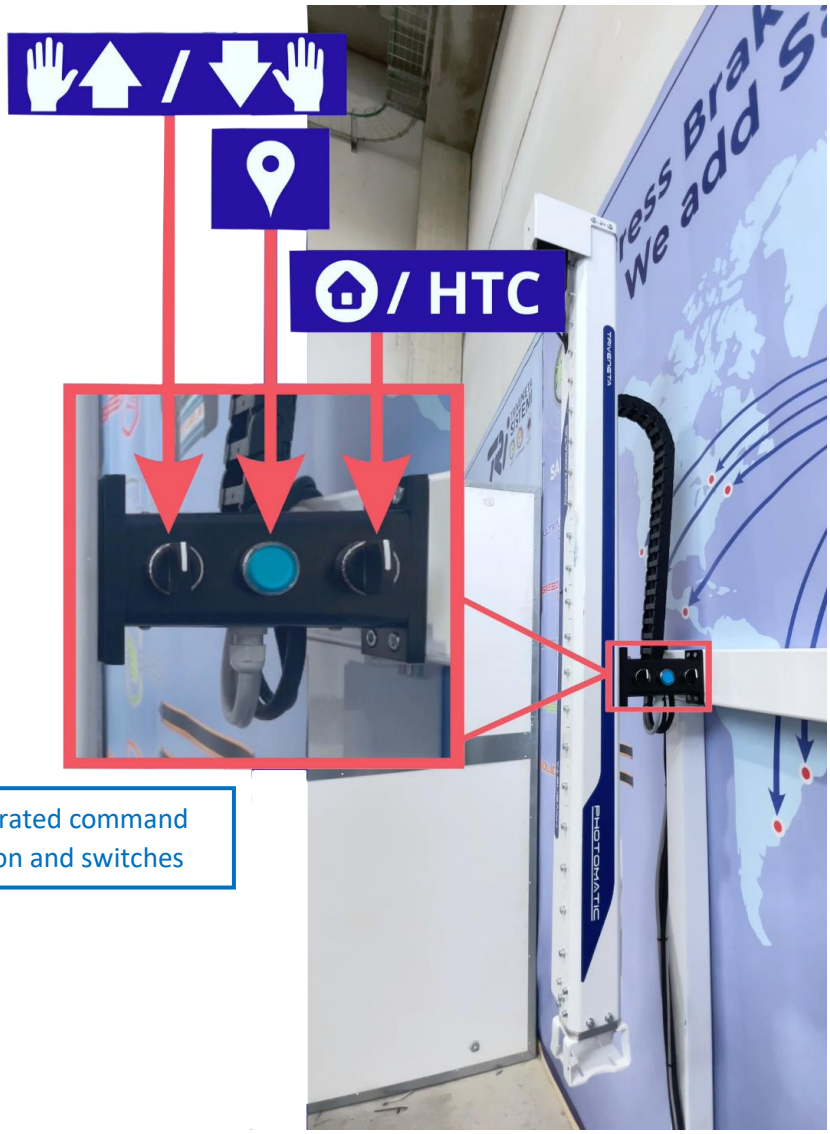
Kit Motorized Bracket

COD. 004 K

KIT COMPONENTS AND FUNCTIONING

One motorized bracket



Drive with connectors

Integrated command button and switches

10m connection and alimentation cables

Take a look at the motorized bracket's functioning step by step by watching the video that illustrates it.
Scan the QR code if you have received this paper brochure **or click on it** if you are viewing the PDF file.

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Kit Motorized Bi-Bracket

COD. 004 K2

The first complete kit of self-aligning motorized brackets without numerical control.
Our kit is ready to install and includes everything needed for operation.

Kit Motorized Bi-Bracket includes the following components:

- Nr. 2 Motorized self-aligning brackets with integrated command buttons and switches
- Nr. 2 Drive Hiwin with connectors (one each bracket)
- Nr. 2 10m alimentation cables (one each bracket)
- Nr. 2 10m connection cables (one each bracket)

Take a look at the motorized bracket's functioning step by step by watching the video that illustrates it.
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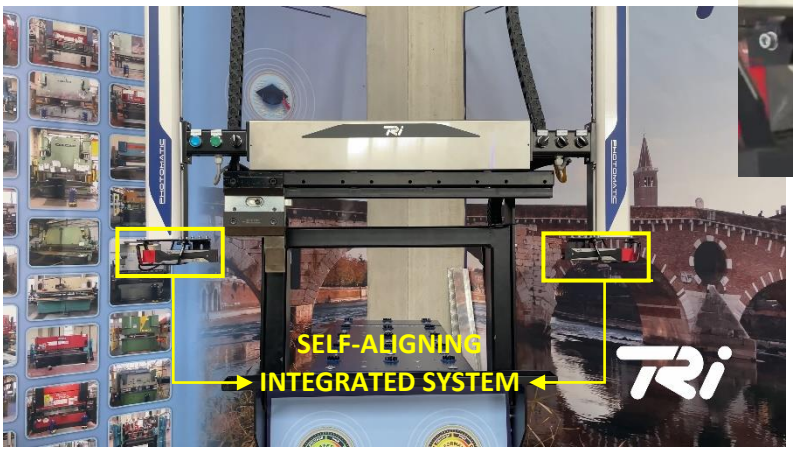
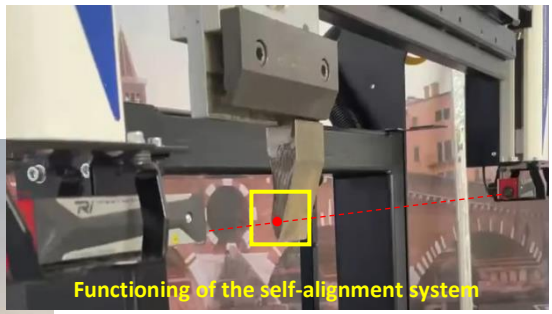
Kit Motorized Bi-Bracket

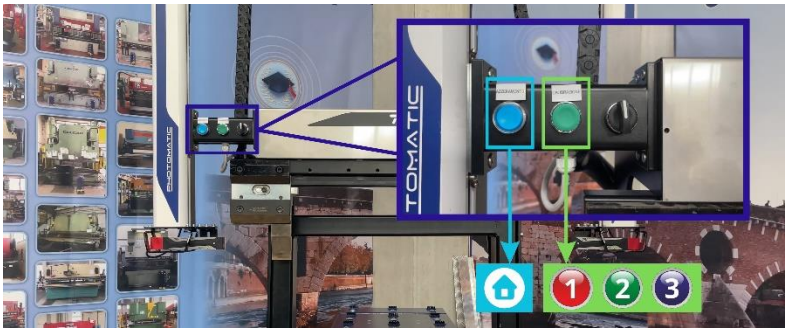
COD. 004 K2

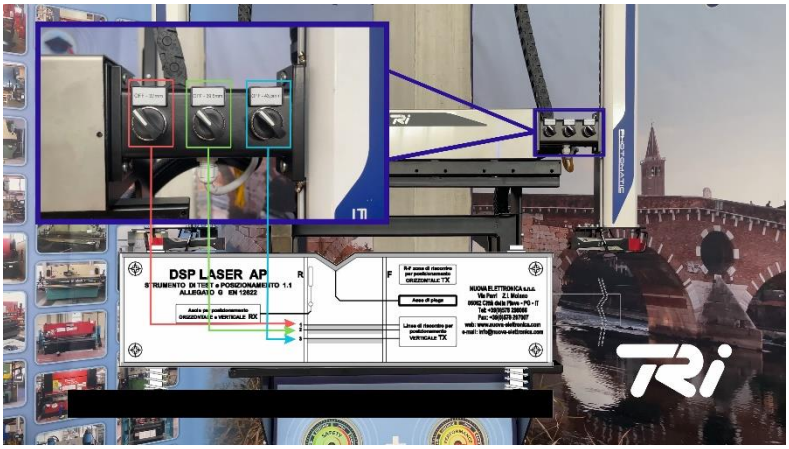
KIT COMPONENTS:

Two motorized brackets with command buttons and switches









10m right bracket cables
(connection and alimentation)

10m left bracket cables
(connection and alimentation)

Two drive with connectors
(one each bracket)

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TRIVENETA SISTEMI

Safety Light Barrier for Finger Protection 800mm

COD. 008 D

FLOATING MUTING

Multi-beam safety light barrier with floating muting function for press brakes and shears.
Ideal for the protection of operators exposed to machine tools or other dangerous plants according to IEC 61496-1, 2 and EN 61496-1 standards.

TECHNICAL FEATURES

- → Resolution: 14,30mm
- → Height monitored: 90mm
- → Protected height: from 300mm to 1800mm with 150mm step
- → Operating distance: from 0,2 to 7m
- → Absence of dead zone
- → Type (EN61496-1): 4
- → PL (EN ISO 13849-1): e
- → SIL (IEC 61508): 3
- → Mechanical protection: IP 65 (EN60529)
- → Restart: manual/automatic
- → Anti-interference coding
- → Muting T/Muting L
- → Partial muting
- → Filter on muting signals
- → Muting dependent override
- → Floating Blanking
- → Fixed Blanking
- → Maximum number of Blanking zones: 5

DATI ELETTRICI

Alimentazione (Vdd)	24 Vcc ± 20	
Uscite	2 PNP, con protezione contro il cortocircuito 2 PNP	
Corrente di uscita	0,5 A max/per uscita	
Carico capacitivo	2,2 uF a 24Vcc max	
Tempo di risposta	13 ... 22 ms a seconda del modello A	13 ... 33 ms a seconda del modello A
Lunghezza dei cavi (per alimentazione)	50 m max	

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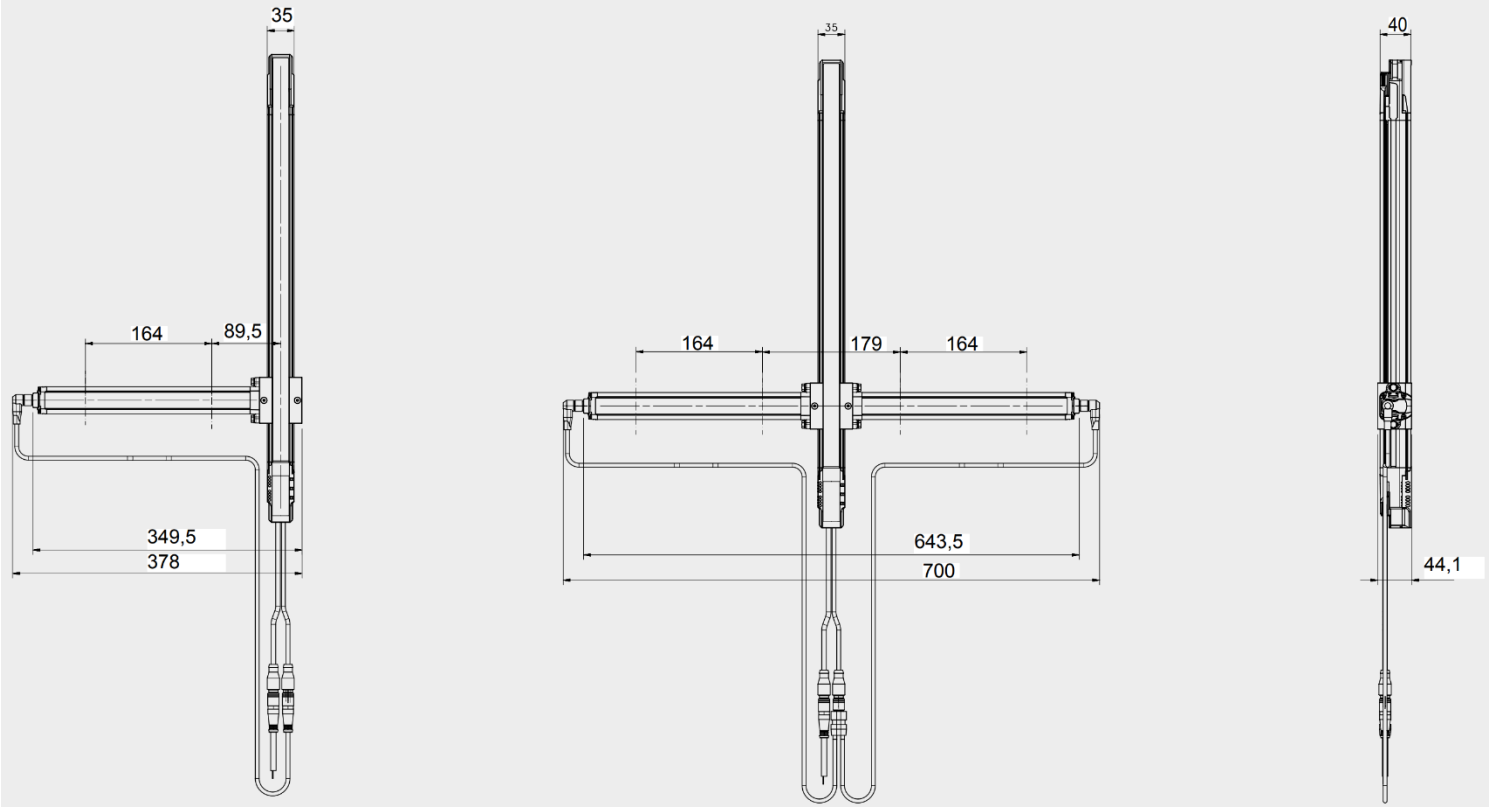
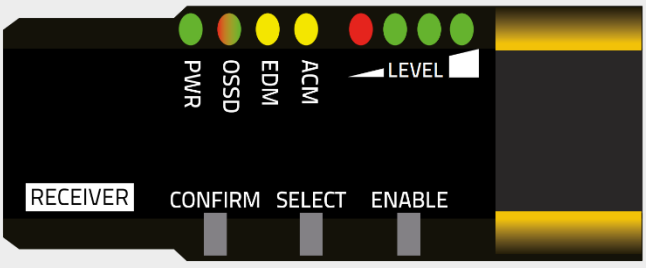
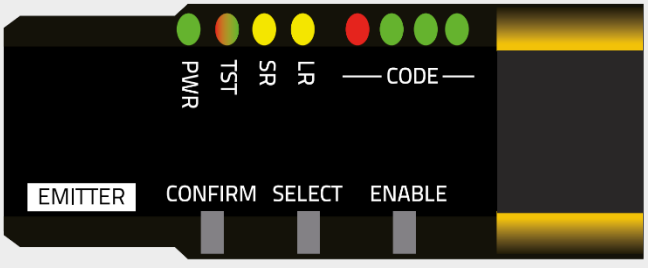
Safety Light Barrier for Finger Protection 800mm

COD. 008 D







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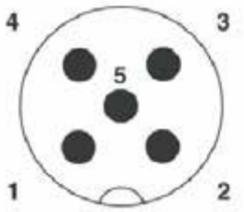
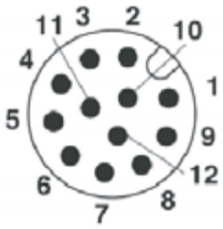
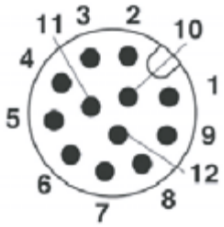
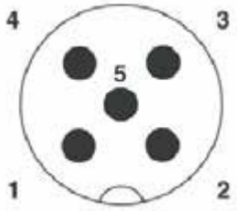
Safety Light Barrier for Finger Protection 800mm

COD. 008 D

	SG2 MUTING [SG2-30-XXX-00-W]	SG4 EXTENDED [SG4-XX-XXX-00-P]	SG4 EXTENDED [SG4-XX-XXX-00-P]
		CONFIGURAZIONE PER MUTING	**CONFIGURAZIONE PER BLANKING**
CAVO PIG-TAIL PER EMETTITORE*	CS-G1-50-B-002 (Numero d'ordine 95A252820)		
EMETTITORE	M12, 5 poli, maschio 1 = marrone = 24Vcc; 2 = bianco = TEST; 3 = blu = 0V; 4 = nero = TERRA; 5 = grigio = RIDUZIONE RANGE. 		
CAVO PIG-TAIL PER RICEVITORE [A]	CS -R1-75-B-002 (Numero d'ordine 95A252810)		CS -G1-70-B-002 (Numero d'ordine 95A252830)
CONNETTORE PRINCIPALE RICEVITORE	M12, 12 poli, maschio 1 = marrone = 24Vcc 2 = blu = 0V 3 = bianco = RIPRISTINO/RIAVVIO/ALLINEAMENTO 4 = verde = OVERRIDE1 5 = rosa = OSSD2 6 = giallo = EDM 7 = nero = DISABILITAZIONE MUTING 8 = grigio = OSSD1 9 = rosso = OVERRIDE2 10 = viola = LAMPADA DI MUTING 11 = grigio-rosa = STATO OVERRIDE 12 = rosso-blu = TERRA 		M12, 12 poli, maschio 1 = marrone = 24Vcc 2 = blu = 0V 3 = bianco = RIPRISTINO/RIAVVIO/ALLINEAMENTO 4 = verde = TEACH IN 5 = rosa = OSSD2 6 = giallo = EDM 8 = grigio = OSSD1 9 = rosso = TOLLERANZA 10 = viola = LAMPADA 12 = rosso-blu = TERRA 
CONNETTORE SECONDARIO RICEVITORE	M12, 5 poli, maschio 1 = marrone = 24Vcc 2 = bianco = MUTING2 3 = blu = 0V 4 = nero = MUTING1 		---

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TRIVENETA SISTEMI

Safety Light Barrier for Finger Protection 800mm

COD. 008 D

FLOATING MUTING

Multi-beam safety infrared light barrier with floating muting function for press brakes and shears.

SAFETY INFRARED LIGHT BARRIER SUPPLIED COMPLETE WITH:

- → M12 Connector (Axial) - 5 poles - U.L., Black, P.V.C. - 10m
- → M12 Connector (Radial 90°) - 12 poles - Black - 10m
- → M12 Connector (Axial) - 12 poles - SG Extended Blank rx - 0,2m
- → M12 Connector (Axial) - 5 poles - SG Extended tx - 0,2m

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Safety Light Barrier for Body Protection

COD. 008 U

3-rays infrared light barrier for body protection suitable for press brakes and shears

TECHNICAL FEATURES

- → Rays number: 3
- → Protected height: 815mm
- → Operating distance: da 0,5 a 50m
- → BASE Version: automatic and manual restart, EDM
- → Type (EN61496-1): 4
- → PL (EN ISO 13849-1): e
- → SIL (IEC 61508): 3
- → 3 rays resolution: 415mm
- → Mechanical protection: IP 65 (EN60529)
- → Test Input: on the receiver

Power supply (Vdd)	24 Vdc ± 20%
Outputs	2 PNP
Output current	0.5 A max / each output
Capacitive load	65 nF max at 25°C
Response time	14 ... 16 ms depending on model *
Cables length (for power supply)	50 m max.

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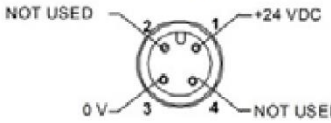
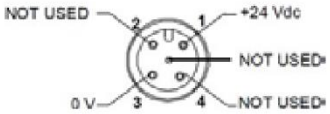
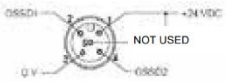
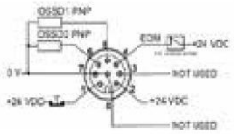
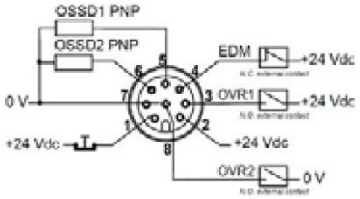
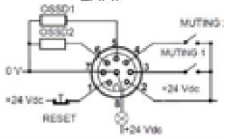
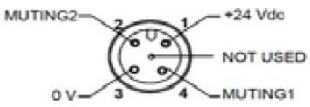
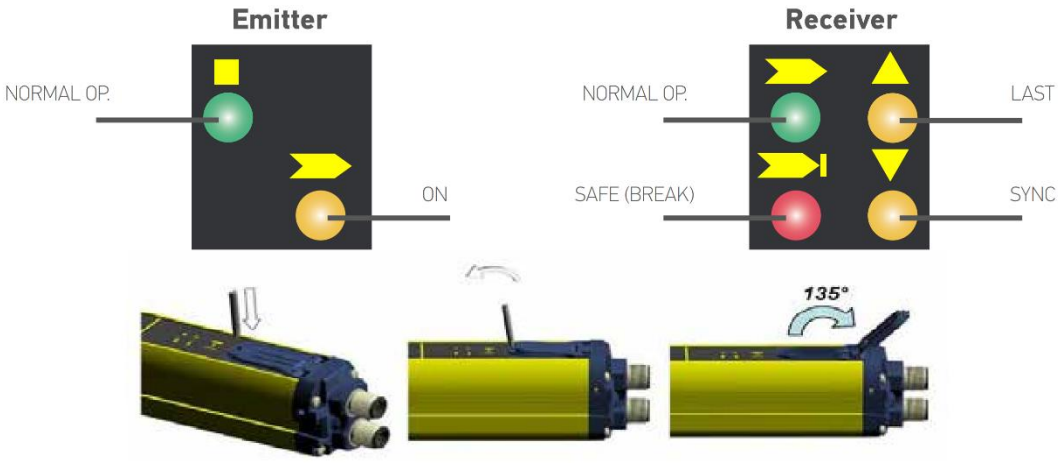
Safety Light Barrier for Body Protection

COD. 008 U

	SG4 BODY COMPACT BASE [SG4-SX-XXX-PP-X]	SG2 BODY COMPACT BASE [SG2-SX-XXX-PP-E] SG4 BODY COMPACT BASE [SG4-SX-XXX-PP-E]	SG2 BODY COMPACT MUTING [SG2-S/L/TX-XXX-PP-W]	SG4 BODY COMPACT MUTING [SG4-S/L/TX-XXX-PP-W]	SG4-N BODY COMPACT MUTING [SG4-SX-XXX-PP-N]
EMITTER MAIN CONNECTOR	M12, 4 poles, male 1 = Brown = 24Vdc 3 = Blue = 0 V 				
EMITTER SECONDARY CONNECTOR	------		M12, 5 poles, male 1 = Brown = 24 Vdc 3 = Blue = 0 V 		
RECEIVER MAIN CONNECTOR	M12, 5 poles, male 1 = Brown = 24Vdc 2 = White = OSSD1 3 = Blue = 0 V 4 = Black = OSSD2 	M12, 8 poles, male 1 = white = TEST /START 2 = brown = 24 Vdc 4 = yellow = EDM 5 = grey = OSSD 1 6 = pink = OSSD 2 7 = blue = 0V 	M12, 8 poles, male 1 = white = TEST / START 2 = brown = 24 VDC 3 = green = OVERRIDE 1 4 = yellow = EDM 5 = grey = OSSD 1 6 = pink = OSSD 2 7 = blue = 0V 8 = red = OVERRIDE 2 	M12, 8 poles, male 1 = white = RESTART / RESET / EDM / OVERRIDE 2 = brown = 24 VDC 3 = green = MUTING 1 4 = yellow = MUTING 2 5 = grey = OSSD 1 6 = pink = OSSD 2 7 = blue = 0V 8 = red = MUTING LAMP 
RECEIVER SECONDARY CONNECTOR	------		M12, 5 poles, male 1 = Brown = 24 Vdc 2 = White = MUTING2 3 = Blue = 0 V 4 = Bl ack = MUTING1 		



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Safety Light Barrier for Body Protection

COD. 008 U

3-rays infrared light barrier for body protection suitable for press brakes and shears

SUPPLIED COMPLETE WITH:

CABLES:

→ 3m axial shielded 4-pole cable

OR

→ 4-pole axial shielded cable 10m

+

→ 3m axial shielded 8-pole cable

OR

→ Axial shielded 8-pole 10m cable

SAFETY RELAY:

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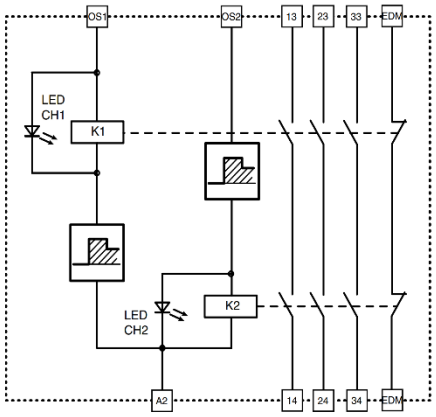
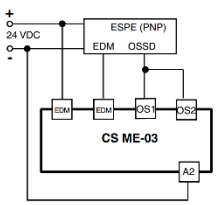
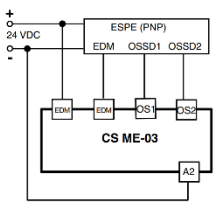
Safety Light Barrier for Body Protection

COD. 008 U

Characteristics of the safety relay:

PL (EN ISO 13849-1)	up to e (depending on ESPE)
SIL (IEC 61508)	up to 3 (depending on ESPE)
Power supply	24 Vdc -/+20%
Outputs	
Safe outputs (Cat. 4)	3 NO
Auxiliary outputs	1 NC
Response time	
Following input going OFF	20 ms
With power failure	20 ms
Recovery time	
Following inputs going ON	40 ms
After power on	40 msz
Operating temperature	-25 ... +55°C
Humidity	15 ... 95 % (no condensation)
Mechanical protection	IP20
Reset modes	Automatic
External Device Monitoring	Must be activated on Safety Light Curtain (ESPE)



Electro-sensitive protection devices ESPE	
1 channel	2 channels
	

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MASTER Foot Switch

COD. 006 M

Mobile foot switch for press brakes

Built in sturdy painted steel structure that wraps the housed equipment with a shaped shell **protecting them from possible crushing** due to accidental falls of workpieces, this foot switch can be **easily integrated to all the press brakes**.

Main Features

- The main feature of MASTER Foot Switch is that **it can work as an indipendent safety foot switch or as the principal one with a second safet foot switch** - its subordinate - named SLAVE
- Provision for main control commands on a large button panel in the upper part
- Double pedal with maintained action:
  → The pedal commanding the ascent is a **one-position foot switch**
  → The pedal controlling the descent is a **three-position pedal safety positions** with a third emergency "panic" position in accordance with EN 292-1

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MASTER Foot Switch

COD. 006 M

Mobile foot switch for press brakes

Lowered lever and pressed pedal:

Stop

Press the pedal to stop

Wrong position

A very important feature is
the function of foot switch's descent.

From the illustrations on the side, it can be understood that the passage through pressure from the central working position to the stop position **occurs through a pressure** on the pedal equal to **no more than 350 newtons**.

The generated consent will have to block the press brake's downhill.

The pedal unit is supplied with a **power cable** covered with a heavy super flexible metal sheath, to facilitate re-positioning operations, complete with **socket and multipolar socket** to be applied to the electrical panel.

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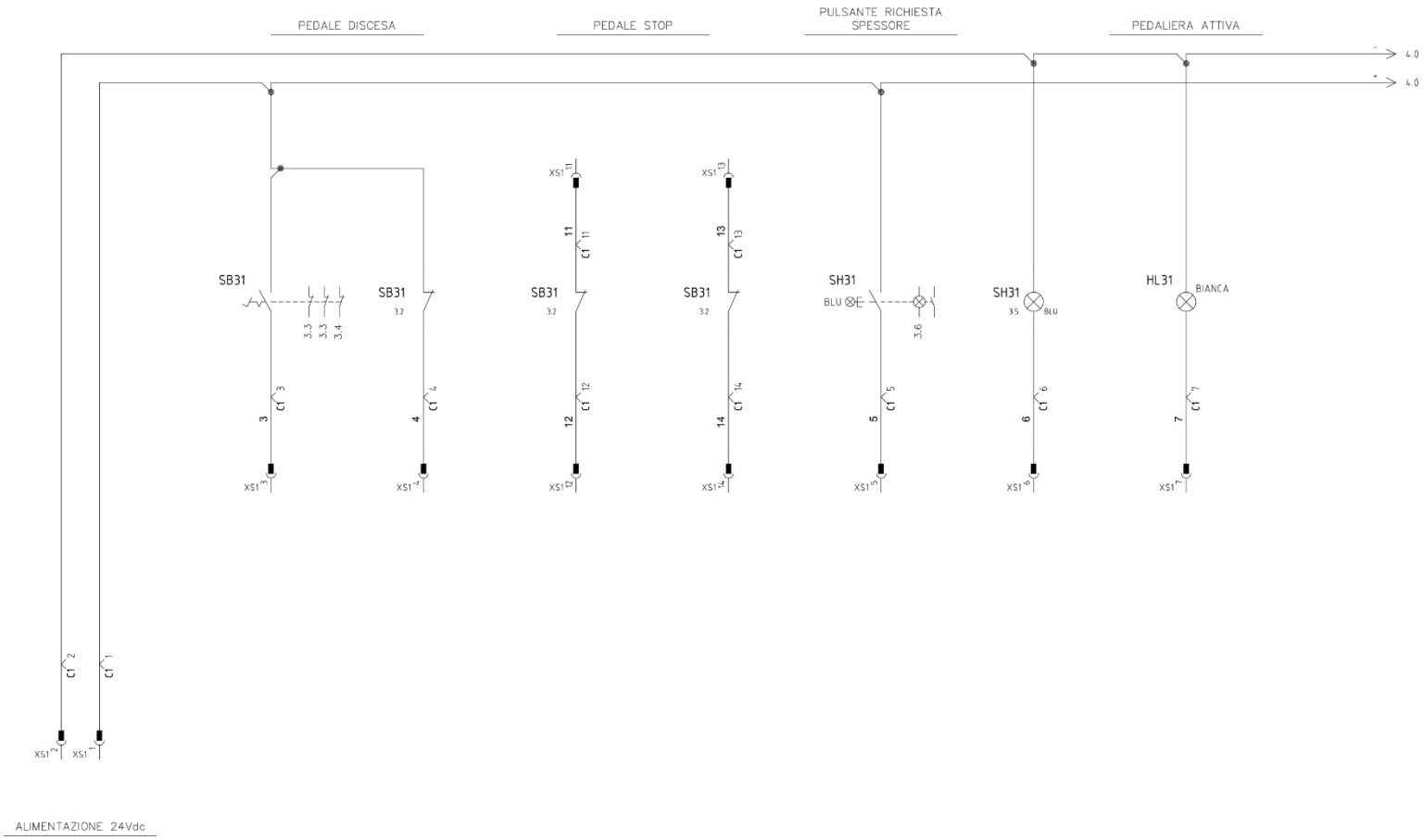
MASTER Foot Switch

COD. 006 M

ELECTICAL DIAGRAM OF MASTER FOOT SWITCH



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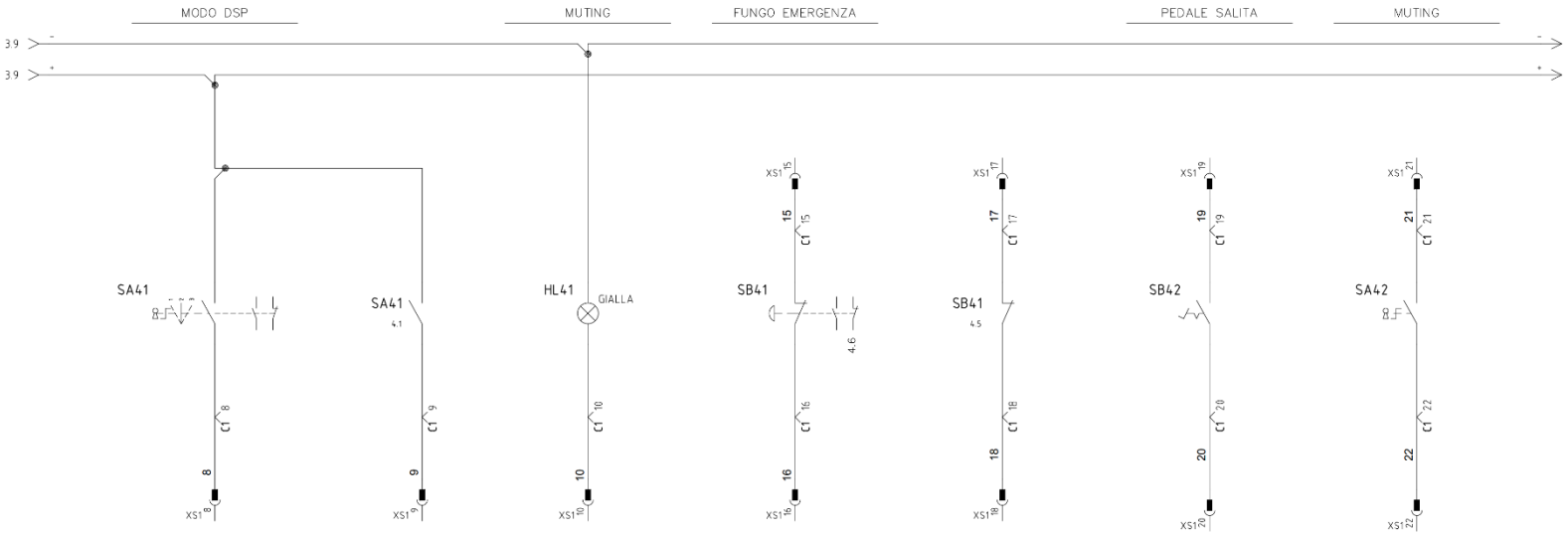
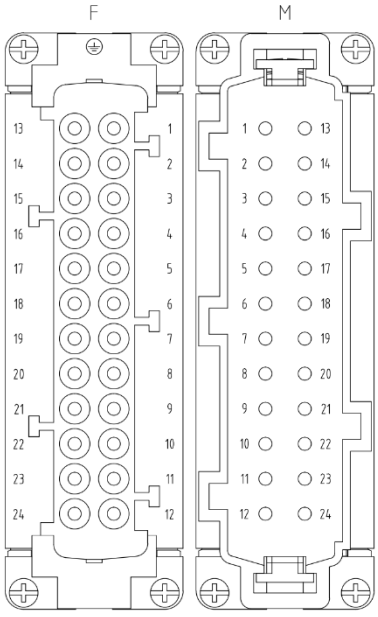


EP - XS1

Connettore esterno

+	1	P1 – SB31 – PEDALE DISCESA
-	2	P1 – SH31 – PULSANTE RICHIESTA – SPESSORE
3	3	P1 – SB31 – PEDALE DISCESA
4	4	P1 – SB31 – PEDALE DISCESA
5	5	P1 – SH31 – PULSANTE RICHIESTA – SPESSORE
6	6	P1 – SH31 – PULSANTE RICHIESTA – SPESSORE
7	7	P1 – HL31 – PEDALIERA ATTIVA
8	8	P1 – SA41 – MODO DSP
9	9	P1 – SA41 – MODO DSP
10	10	P1 – HL41 – MUTING
11	11	P1 – SB31 – PEDALE DISCESA
12	12	P1 – SB31 – PEDALE DISCESA
13	13	P1 – SB31 – PEDALE DISCESA
14	14	P1 – SB31 – PEDALE DISCESA
15	15	P1 – SB41 – FUNGO EMERGENZA
16	16	P1 – SB41 – FUNGO EMERGENZA
17	17	P1 – SB41 – FUNGO EMERGENZA
18	18	P1 – SB41 – FUNGO EMERGENZA
19	19	P1 – SB42 – PEDALE SALITA
20	20	P1 – SB42 – PEDALE SALITA
21	21	P1 – SA42 – MUTING
22	22	P1 – SA42 – MUTING
	23	
	PE	



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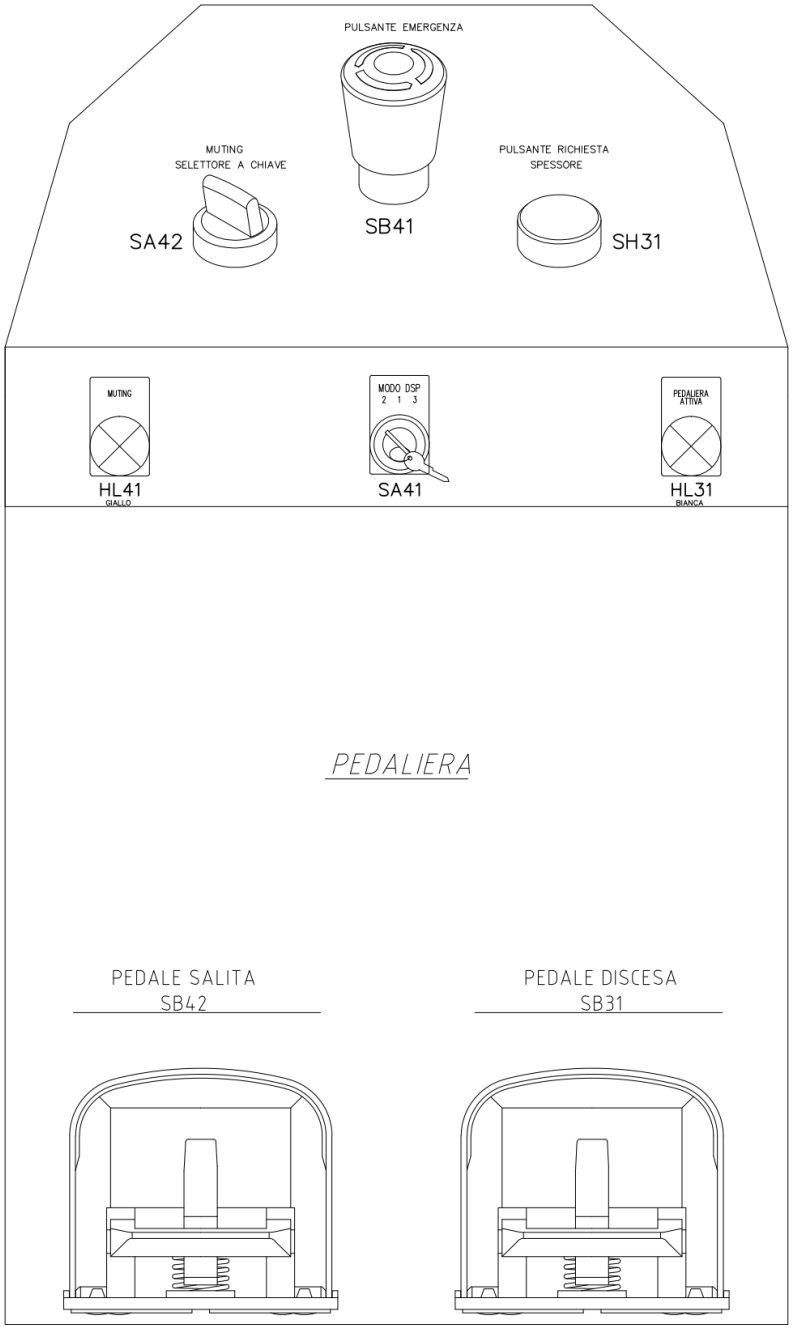

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MASTER Foot Switch

COD. 006 M

ELECTICAL DIAGRAM OF MASTER FOOT SWITCH

CAVI ESTERNI \ EXTERNAL CABLES

QUADRO \ BOARD								DESTINAZIONE \ LOCATION			
QUADRO BOARD	FOGLIO SHEET	NR. MORSETTO TERMINAL NO.	NR. FILO CONDUCTOR NO.	ID SUL CAVO ID IN CABLE	CAVO CABLE	LUNGHEZZA LENGHT [mt]	DISTURBO NOISE LEVEL	ID SUL CAVO ID IN CABLE	NR. FILO CONDUCTOR NO.	NR. MORSETTO TERMINAL NO.	FOGLIO SHEET	QUADRO BOARD
EP XS1	3/0	1	+	1				1	+		3/3	P1 SB31
EP XS1	3/0	2	-	2				2	-		3/7	P1 SH31
EP XS1	3/2	3	3	3				3	3		3/2	P1 SB31
EP XS1	3/3	4	4	4				4	4		3/3	P1 SB31
EP XS1	3/6	5	5	5				5	5		3/6	P1 SH31
EP XS1	3/7	6	6	6				6	6		3/7	P1 SH31
EP XS1	3/8	7	7	7				7	7		3/8	P1 HL31
EP XS1	4/1	8	8	8				8	8		4/1	P1 SA41
EP XS1	4/2	9	9	9				9	9		4/2	P1 SA41
EP XS1	4/3	10	10	10				10	10		4/3	P1 HL41
EP XS1	3/4	11	11	11				11	11		3/4	P1 SB31
EP XS1	3/4	12	12	12				12	12		3/4	P1 SB31
EP XS1	3/5	13	13	13	C1 1135125			13	13		3/5	P1 SB31
EP XS1	3/5	14	14	14	COLLEGAMENTO PEDALIERA			14	14		3/5	P1 SB31
EP XS1	4/5	15	15	15				15	15		4/5	P1 SB41
EP XS1	4/5	16	16	16				16	16		4/5	P1 SB41
EP XS1	4/6	17	17	17				17	17		4/6	P1 SB41
EP XS1	4/6	18	18	18				18	18		4/6	P1 SB41
EP XS1	4/7	19	19	19				19	19		4/7	P1 SB42
EP XS1	4/7	20	20	20				20	20		4/7	P1 SB42
EP XS1	4/8	21	21	21				21	21		4/8	P1 SA42
EP XS1	4/8	22	22	22				22	22		4/8	P1 SA42
				23				23				
				25				25				
				YE/GN				YE/GN				

Nome/Item	Tipo/Type	Costruttore/Marke	Quadro/Board	Fg/Sh	Q.ta/Q.ty	Descrizione IT
HL31	XB4BVB1	Schneider Electric	EP	3	1	LAMPADA SPIA BIANCA LED 24V
HL41	XB4BVB5	Schneider Electric	EP	4	1	LAMPADA SPIA GIALLA LED 24V
SA41	XB4BG03	Schneider Electric	EP	4	1	SELETTORE A CHIAVE 3 POSIZIONI
SA42	XB4BG41	Schneider Electric	EP	4	1	SELETTORE A CHIAVE 2 POSIZIONI
SB31	2337	Elettromeccanica GS	EP	3	1	Pedaliera tipo PM2/P pacco molla
SB41	XB4BS8444	Schneider Electric	EP	4	1	PULSANTE A FUNGO ROSSO EMERGENZA
SB42	2085	Elettromeccanica GS	EP	4	1	Pedaliera tipo PM2/P
SH31	XB4BW36B5	Schneider Electric	EP	3	1	PULSANTE LUMINOSO BLU LED 24V
XS1	CNEF 24 T+ CHP24	Ilme	EP		1	Connettore 24 poli + terra, 16A - 500V, connessioni a vite, frutto Femmina
	CNEM 24 T + CHO24	Ilme			1	Connettore 24 poli + terra, 16A - 500V, connessioni a vite, frutto Maschio

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SLAVE Foot Switch

COD. 006 S

Mobile foot switch for press brakes

Built in sturdy painted steel structure that wraps the housed equipment with a shaped shell **protecting them from possible crushing** due to accidental falls of workpieces, this foot switch can be **easily integrated to all the press brakes**.

Main Features

- The main feature of the SLAVE foot control is that **it can only function as a second safety foot switch** - subordinate to a MASTER Foot Switch
- Provision for main control commands on a large button panel in the upper part
- Double pedal with maintained action:
  → The pedal commanding the ascent is a **one-position foot switch**
  → The pedal controlling the descent is a **three-position pedal safety positions** with a third emergency "panic" position in accordance with EN 292-1

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SLAVE Foot Switch

COD. 006 S

Mobile foot switch for press brakes

Lowered lever and pressed pedal:

Stop

Press the pedal to stop

Wrong position

A very important feature is
the function of foot switch's descent.

From the illustrations on the side, it can be understood that the passage through pressure from the central working position to the stop position **occurs through a pressure** on the foot switch equal to **no more than 350 newtons**.

The generated consent will have to block the press brake's downhill.

The foot switch is supplied with a **power cable** covered with a heavy super flexible metal sheath, to facilitate re-positioning operations, complete with **socket and multipolar socket** to be applied to the electrical panel.

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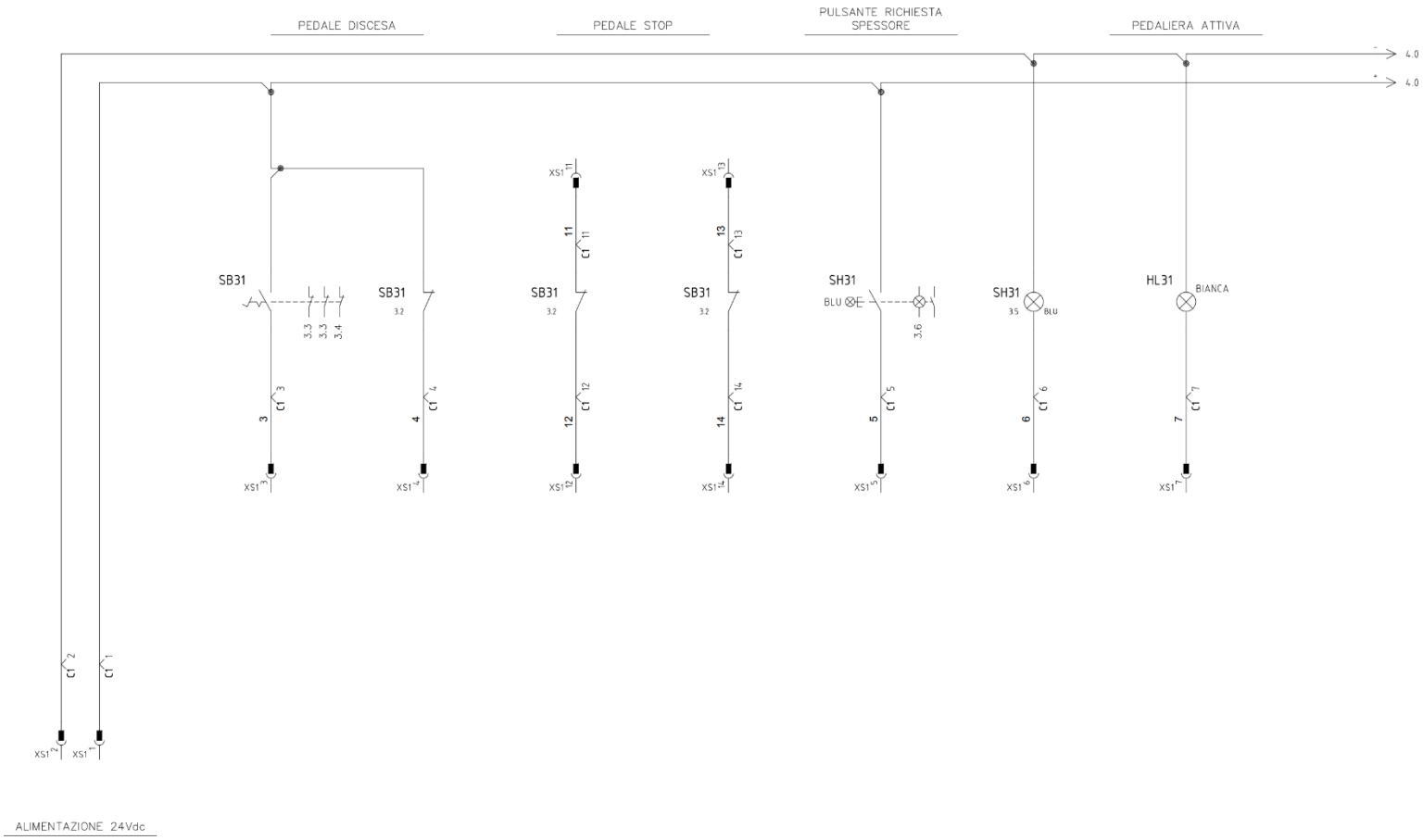
SLAVE Foot Switch

COD. 006 S

ELECTICAL DIAGRAM OF SLAVE FOOT SWITCH



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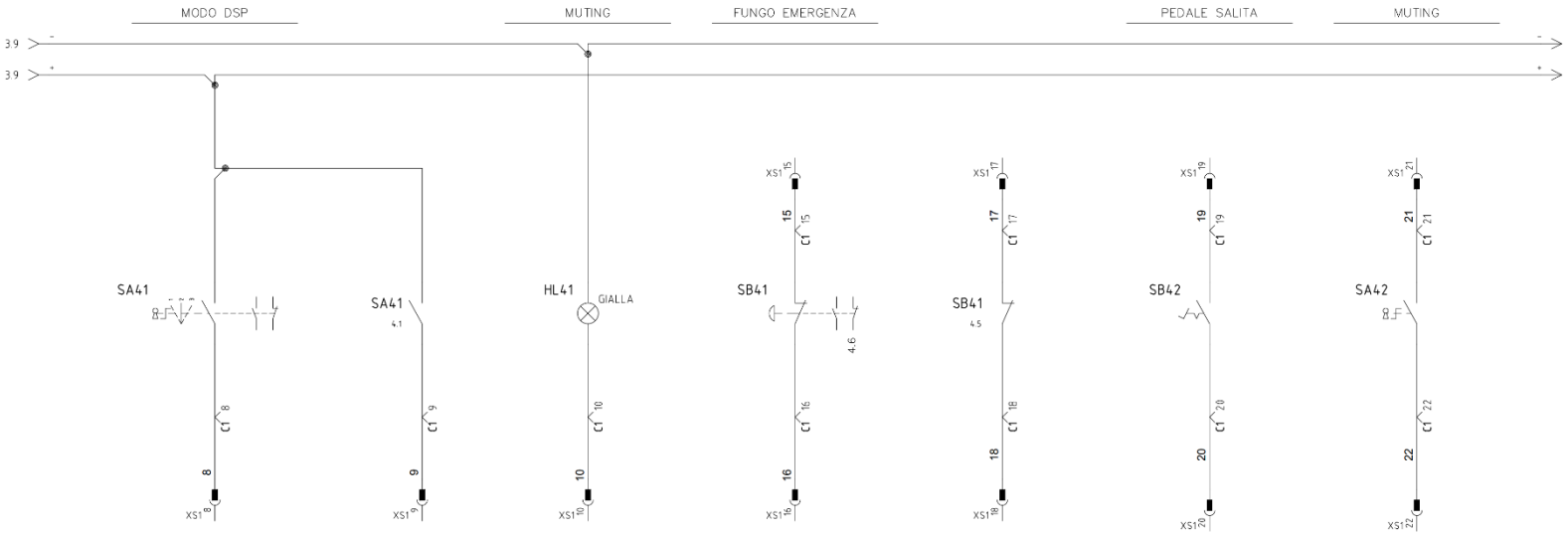
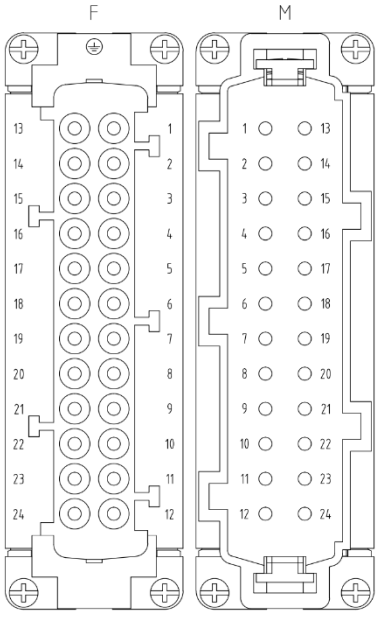


EP - XS1

Connettore esterno

+	1	P1 – SB31 – PEDALE DISCESA
-	2	P1 – SH31 – PULSANTE RICHIESTA – SPESSORE
3	3	P1 – SB31 – PEDALE DISCESA
4	4	P1 – SB31 – PEDALE DISCESA
5	5	P1 – SH31 – PULSANTE RICHIESTA – SPESSORE
6	6	P1 – SH31 – PULSANTE RICHIESTA – SPESSORE
7	7	P1 – HL31 – PEDALIERA ATTIVA
8	8	P1 – SA41 – MODO DSP
9	9	P1 – SA41 – MODO DSP
10	10	P1 – HL41 – MUTING
11	11	P1 – SB31 – PEDALE DISCESA
12	12	P1 – SB31 – PEDALE DISCESA
13	13	P1 – SB31 – PEDALE DISCESA
14	14	P1 – SB31 – PEDALE DISCESA
15	15	P1 – SB41 – FUNGO EMERGENZA
16	16	P1 – SB41 – FUNGO EMERGENZA
17	17	P1 – SB41 – FUNGO EMERGENZA
18	18	P1 – SB41 – FUNGO EMERGENZA
19	19	P1 – SB42 – PEDALE SALITA
20	20	P1 – SB42 – PEDALE SALITA
21	21	P1 – SA42 – MUTING
22	22	P1 – SA42 – MUTING
	23	
	PE	



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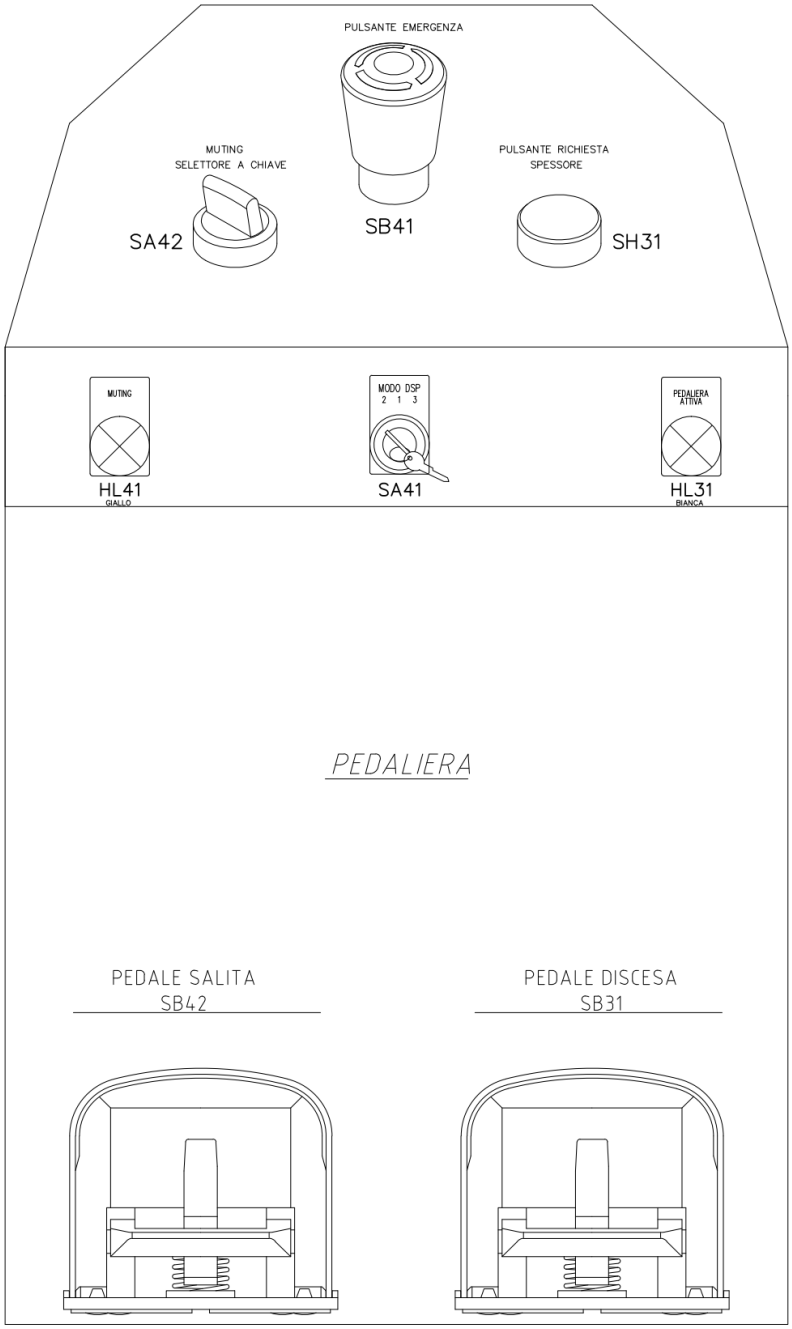

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SLAVE Foot Switch

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ELECTICAL DIAGRAM OF SLAVE FOOT SWITCH

CAVI ESTERNI \ EXTERNAL CABLES

QUADRO \ BOARD								DESTINAZIONE \ LOCATION			
QUADRO BOARD	FOGLIO SHEET	NR. MORSETTO TERMINAL NO.	NR. FILO CONDUCTOR NO.	ID SUL CAVO ID IN CABLE	CAVO CABLE	LUNGHEZZA LENGHT [mt]	DISTURBO NOISE LEVEL	ID SUL CAVO ID IN CABLE	NR. FILO CONDUCTOR NO.	NR. MORSETTO TERMINAL NO.	FOGLIO SHEET	QUADRO BOARD
EP XS1	3/0	1	+	1				1	+		3/3	P1 SB31
EP XS1	3/0	2	-	2				2	-		3/7	P1 SH31
EP XS1	3/2	3	3	3				3	3		3/2	P1 SB31
EP XS1	3/3	4	4	4				4	4		3/3	P1 SB31
EP XS1	3/6	5	5	5				5	5		3/6	P1 SH31
EP XS1	3/7	6	6	6				6	6		3/7	P1 SH31
EP XS1	3/8	7	7	7				7	7		3/8	P1 HL31
EP XS1	4/1	8	8	8				8	8		4/1	P1 SA41
EP XS1	4/2	9	9	9				9	9		4/2	P1 SA41
EP XS1	4/3	10	10	10				10	10		4/3	P1 HL41
EP XS1	3/4	11	11	11				11	11		3/4	P1 SB31
EP XS1	3/4	12	12	12				12	12		3/4	P1 SB31
EP XS1	3/5	13	13	13	C1 1135125			13	13		3/5	P1 SB31
EP XS1	3/5	14	14	14	COLLEGAMENTO PEDALIERA			14	14		3/5	P1 SB31
EP XS1	4/5	15	15	15				15	15		4/5	P1 SB41
EP XS1	4/5	16	16	16				16	16		4/5	P1 SB41
EP XS1	4/6	17	17	17				17	17		4/6	P1 SB41
EP XS1	4/6	18	18	18				18	18		4/6	P1 SB41
EP XS1	4/7	19	19	19				19	19		4/7	P1 SB42
EP XS1	4/7	20	20	20				20	20		4/7	P1 SB42
EP XS1	4/8	21	21	21				21	21		4/8	P1 SA42
EP XS1	4/8	22	22	22				22	22		4/8	P1 SA42
				23				23				
				25				25				
				YE/GN				YE/GN				

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	CNEM 24 T + CHO24	Ilme			1	Connettore 24 poli + terra, 16A - 500V, connessioni a vite, frutto Maschio

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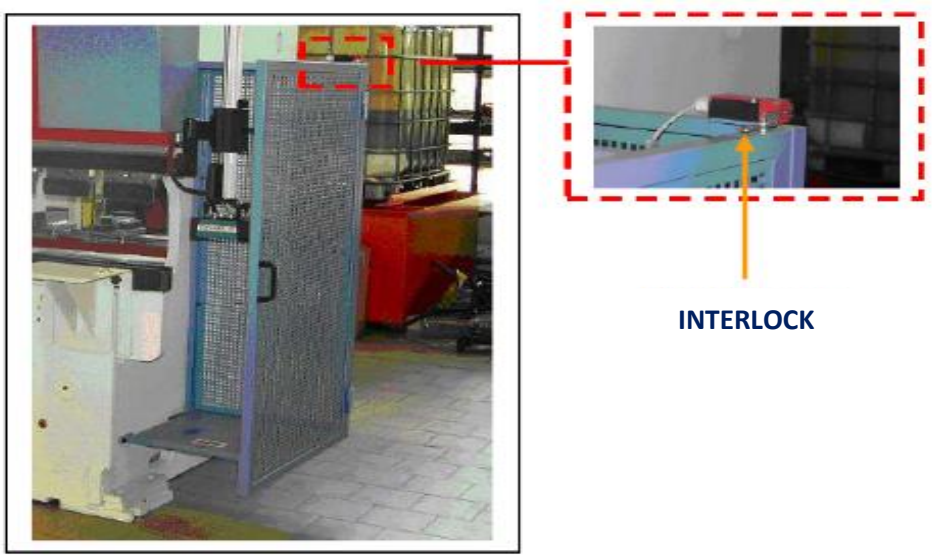
Lateral Protection

COD. 007

The actual solution to adapt the safety systems of a press brake related to lateral intrusion to the current regulations is a **side-opening mechanical barrier capable of handling precisely the eventual intrusion into the side of the machine tool**, safeguarding the operator from possible accidents at work caused by the sudden movement of the backgauge and the bending crossbar.

The function of these safety protections is **dependent on the opening of one of the two during slow speed work**, while, in the event of the **opening of both side guards, the press brake will go immediately into stop mode** thanks to two safety limit switches suitably connected to an equally safe circuit that will allow the press brake itself to function perfectly.



INTERLOCK

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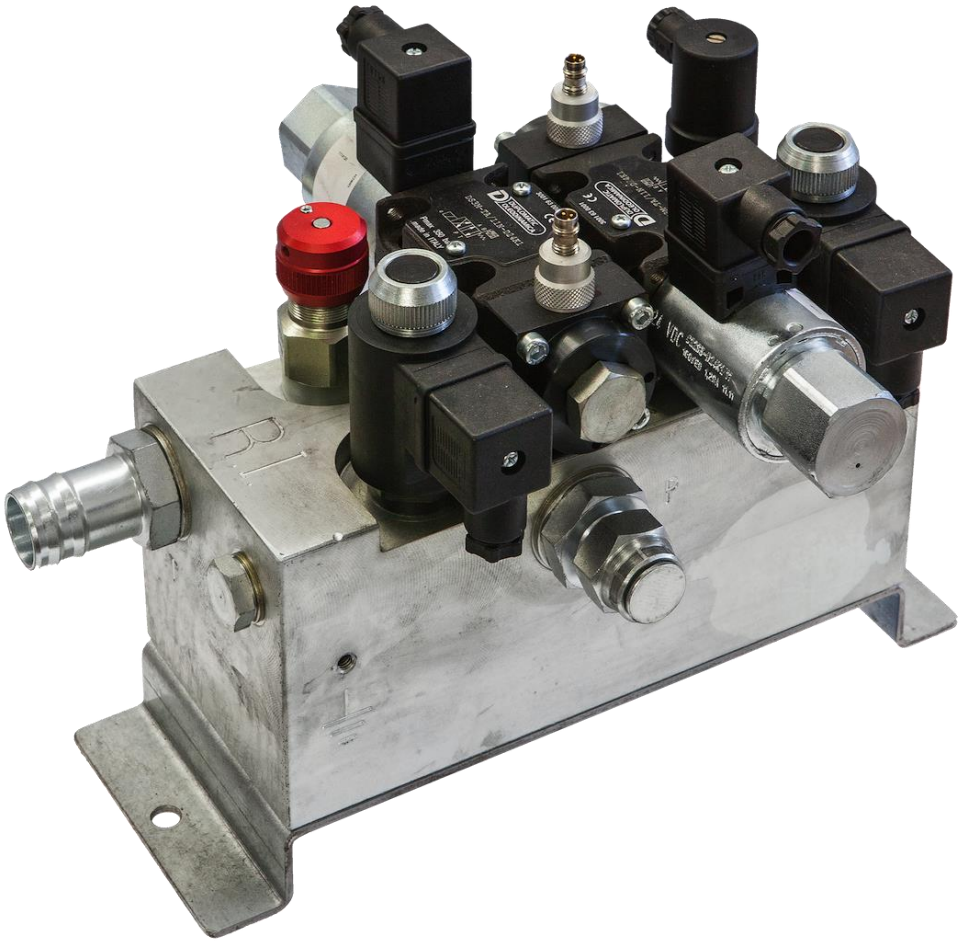
Hydraulic Block

COD. 009

Hydraulic Block 10mm/sec

ONLY SLOW



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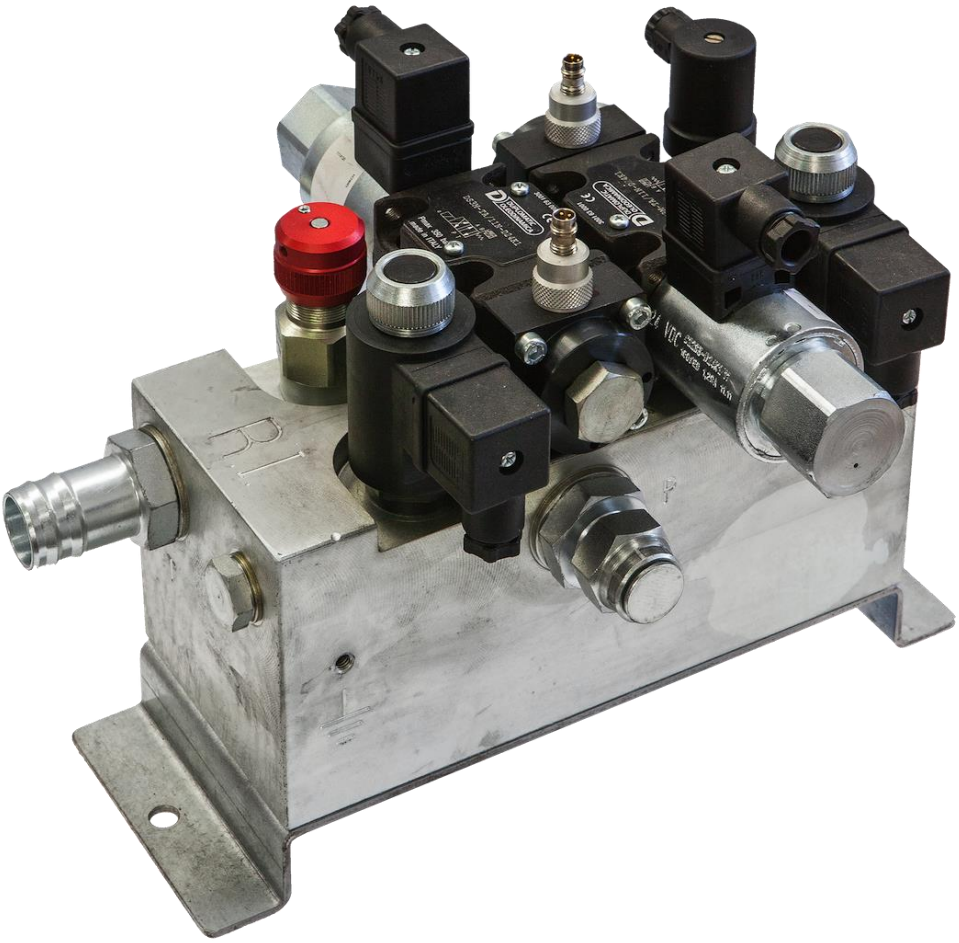
Hydraulic Block

COD. 009 A

Hydraulic Block RG NORMAL



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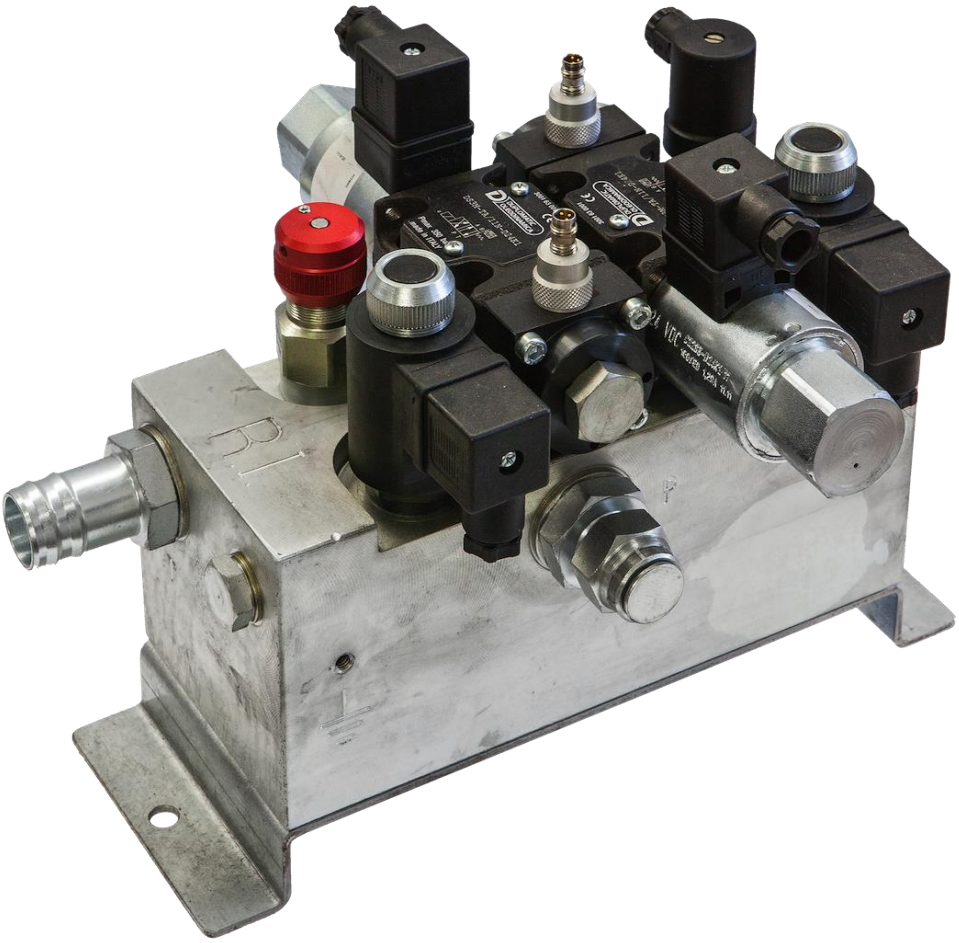
Hydraulic Block

COD. 009 B

Hydraulic Block RG SUPER SLOW
+ Valve + Pressure Switch



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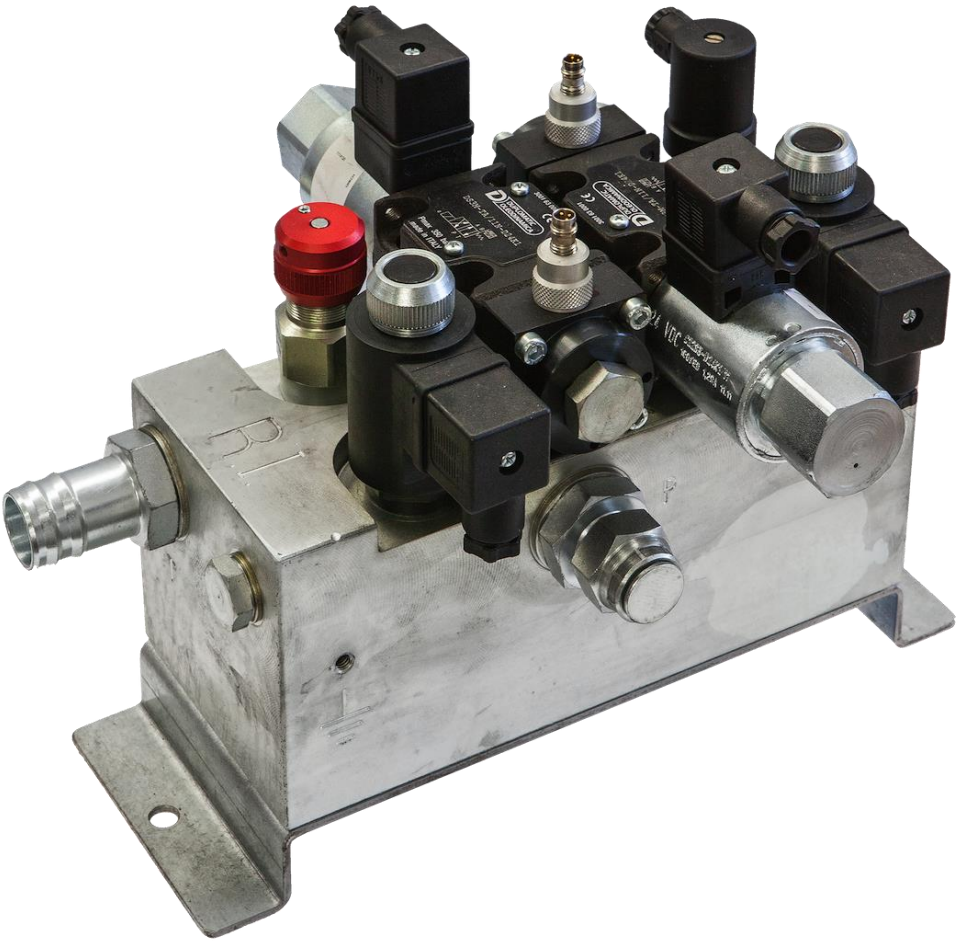
TRIVENETA SISTEMI

Hydraulic Block

COD. 009 C

Hydraulic Block for
TORSION BAR PRESS BRAKES



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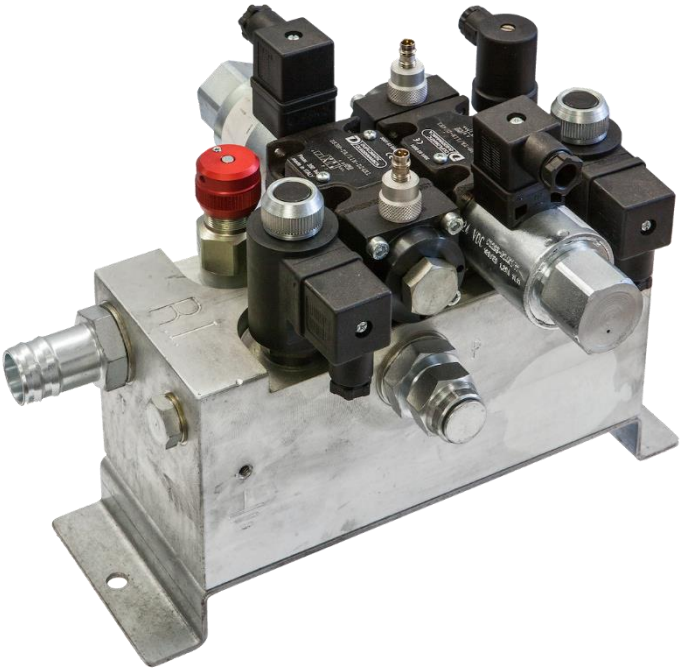
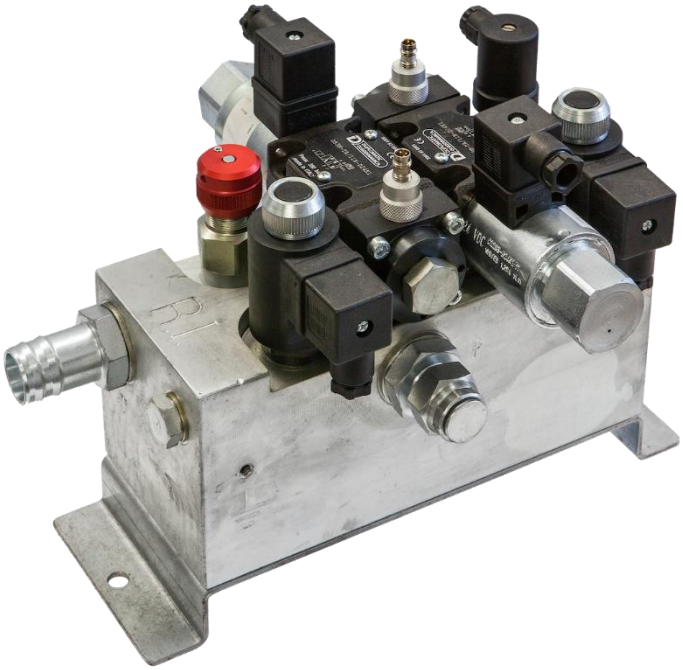
TRIVENETA SISTEMI

Pair of Hydraulic Blocks

COD. 009 D

Pair of hydraulic blocks for TORSION BAR PRESS BRAKES





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Kit Fast Bend Torsion Bar

COD. 011.001 SAFE

Safety Kit for Torsion Bar Press Brake

Do not throw anything away: just add an upgrade!
You do not have to replace a machine that works well,
directly at your company, our team will **maximize the safety** of your press brake
adapting it to current legislation **in less than a week**.

EN 12622

Kit Fast Bend Torsion Bar meets the **most updated** version of the EU regulations specific for press brakes, EN 12622

Laser Multifascio Protezione Totale

Multi Beam Laser System **avoid accidents** without reducing **working speed**

Our interventions

1. Safety Device Multi Beam Laser System DSP AP
2. Support Brackets for DSP AP
3. External Pedal Unit with emergency control
4. PLC MCS to command and control DSP AP
5. Redundant safety management of speed and slowdown
6. Magnetic speed control line

Kit Fast Bend Torsion Bar **is certified** Triveneta Impianti Srl can give you **quality assurance** about:

→ **its work**, thanks to our competent and qualified staff
→ **its products**, because of our continuous search of the best materials

TÜV PROFI CERT ISO 9001 73 100 4683

ISO 9001

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TRIVENETA SISTEMI

Kit Fast Bend Torsion Bar

COD. 011.001 SAFE

Safety Kit for Torsion Bar Press Brake

1.

1. Safety Device Multi Beam Laser System DSP AP Nuova Elettronica
2. Support Brackets available in different versions
3. External Pedal Unit with:
   - emergency control
   - option one or two operators
   - double safety pedal on unit 1 and 2
4. Safety PLC MCS Nuova Elettronica
5. Redundant safety management of speed and slowdown (10 mm/sec - one hydraulic block)
6. Magnetic Linear Encoder (speed control line)

2.

3.

Kit Fast Bend Torsion Bar is a kit for retrofitting
that upgrades your press brake
without reducing its original performance.

The Kit upgrades **only the safety** of your press brake,
but it covers all the aspect:
mechanical, hydraulic and electronic.

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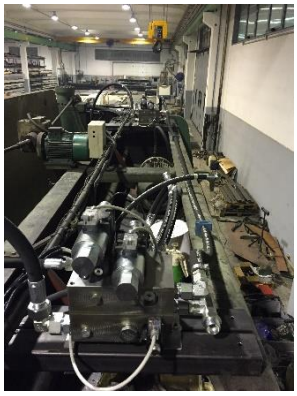

6.

4.

A certified retrofitting is the best solution if you want safety and performance, but with a significant cost savings compared to buying a new press brake.

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TRIVENETA SISTEMI

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COD. 011.002 SAFE

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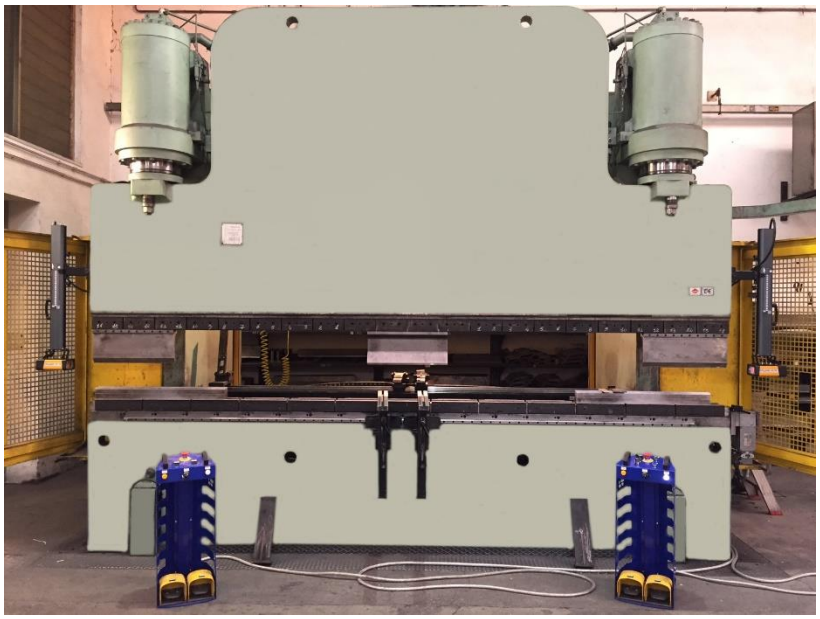

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INTERTEK ETL LISTED US

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TÜV PROFI CERT ISO 9001 73 100 4683

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TÜV KNOW-HOW CLUB TÜV Hessen PROFI Member

EURO Certificates

ISO 9001

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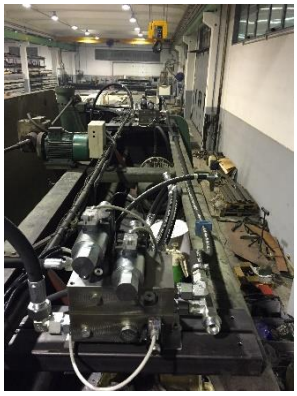

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TRIVENETA SISTEMI

Kit Standard Bend Synchro

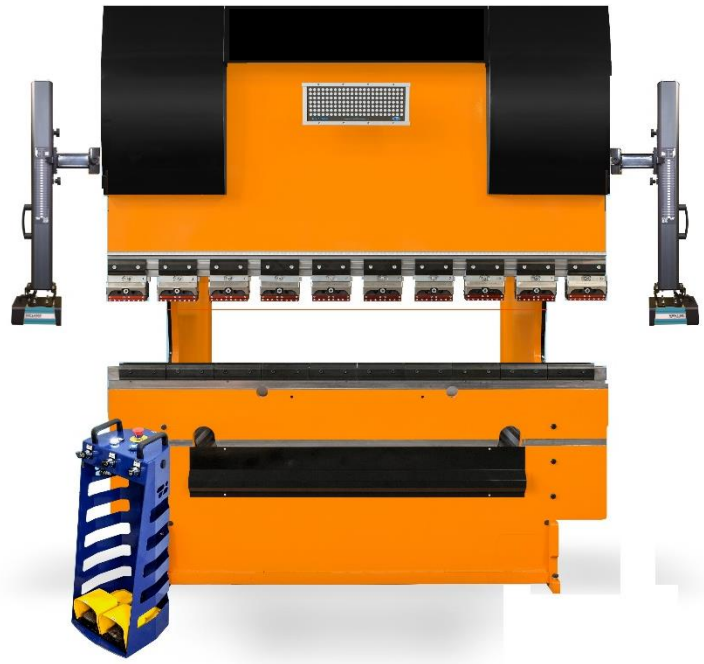
COD. 012.001

Safety Kit for Synchronized Press Brakes

Do not throw anything away: just add an upgrade!
You do not have to replace a machine that works well,
directly at your company, our team will **maximize the safety** of your press brake
adapting it to current legislation **in less than a week**.

EN 12622

Kit Standard Bend Synchro meets the **most updated** version of the EU regulations specific for press brakes, EN 12622



Laser Multifascio Protezione Totale

Multi Beam Laser System **avoid accidents** without reducing **working speed**

Our interventions

1. Safety Device Multi Beam Laser System DSP Standard
2. Support Brackets for DSP Standard
3. PLC AL2 to command DSP Standard
4. Safety PLC to control the third pedal's position
5. Kit to control the space to stop
6. External Pedal Unit with emergency control

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Kit Standard Bend Synchro **is certified** Triveneta Impianti Srl can give you **quality assurance** about:

→ **its work**, thanks to our competent and qualified staff

→ **its products**, because of our continuous search of the best materials

TÜV PROFI CERT ISO 9001 73 100 4683

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TÜV KNOW-HOW CLUB TÜV Hessen PROFI Member

EURO Qualità Garantita

ISO 9001

Kit Standard Bend Synchro

COD. 012.001

Safety Kit for Synchronized Press Brakes

1.

1. Safety Device Multi Beam Laser System DSP Standard Nuova Elettronica
2. Support Brackets available in different versions
3. Safety PLC AL2 Nuova Elettronica
4. Safety PLC to control the third pedal's position
5. Kit to control the space to stop
6. External Pedal Unit with:
   - emergency control
   - option one or two operators
   - double safety pedal on unit 1 and 2

2.

6.

Kit Standard Bend Synchro
is a kit for retrofitting that upgrades your press brake
without reducing its original performance.

The Kit upgrades **only the safety** of your press brake,
but it covers all the aspect:
mechanical and electronic.

4.

5.

3.

A certified retrofitting is the best solution if you want safety and performance, but with a significant cost savings compared to buying a new press brake.

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Kit Fast Bend Synchro

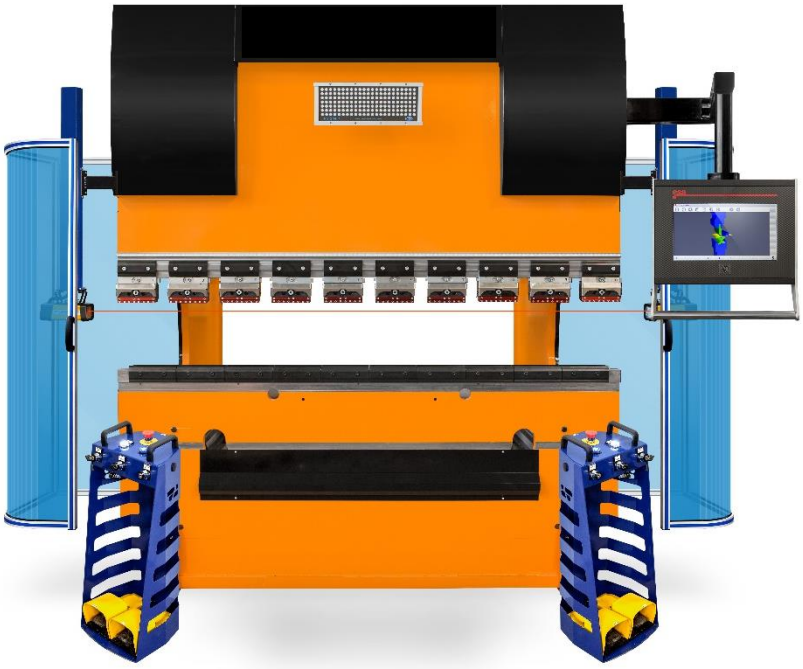
COD. 012.002

Safety Kit for Synchronized Press Brakes

Do not throw anything away: just add an upgrade!
You do not have to replace a machine that works well,
directly at your company, our team will **maximize the safety** of your press brake
adapting it to current legislation **in less than a week**.

EN 12622

Kit Fast Bend Synchro meets the **most updated** version of the EU regulations specific for press brakes, EN 12622



Laser Multifascio Protezione Totale

Multi Beam Laser System **avoid accidents** without reducing **working speed**

Our interventions

1. Safety Device Multi Beam Laser System DSP AP
2. Support Brackets for DSP AP
3. PLC MCS to command and control DSP AP
4. External Pedal Unit with emergency control

Kit Fast Bend Synchro **is certified** Triveneta Impianti Srl can give you **quality assurance** about:

→ **its work**, thanks to our competent and qualified staff
→ **its products**, because of our continuous search of the best materials

TÜV PROFI CERT ISO 9001 73 100 4683

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ISO 9001

Kit Fast Bend Synchro

COD. 012.002

Safety Kit for Synchronized Press Brakes

1.

1. Safety Device Multi Beam Laser System DSP AP Nuova Elettronica
2. Support Brackets available in different versions
3. Safety PLC MCS Nuova Elettronica
4. External Pedal Unit with:
    - emergency control
    - option one or two operators
    - double safety pedal on unit 1 and 2

2.

Kit Fast Bend Synchro
is a kit for retrofitting
that upgrades
your press brake
without reducing its original performance.

4.

The Kit upgrades
only the safety
of your press brake, but it
covers all the aspect:
mechanical and electronic.

3.

A certified retrofitting is the best solution if you want safety and performance, but with a significant cost savings compared to buying a new press brake.

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Kit RGeneration RG

COD. 010 SAFE

Safety Kit for RG Press Brake
AMADA – PROMECAM – SCHIAVI

Do not throw anything away: just add an upgrade!
You do not have to replace a machine that works well,
directly at your company, our team will **maximize the safety** of your press brake
adapting it to current legislation **in less than a week**.

Kit RGeneration RG meets the **most updated** version of the EU regulations specific for press brakes, EN 12622

EN 12622

Multi Beam Laser System **avoid accidents** without reducing **working speed**

Laser Multifascio – Protezione Totale

Kit RGeneration RG is suitable for:

- → RG25/12
- → RG25/12A
- → RG35/20
- → RG35/25
- → RG50/20
- → RG50/25
- → RG75/25
- → RG75/30
- → RG100
- → RG104

Our interventions

1. Multi Beam Laser System DSP AP
2. Support Brackets DSP AP
3. Integrated Emergency Panel
4. Magnetic speed control line
5. Electric control panel with PLC MCS
6. Redundant safety management
7. Limit stop unit to control the machine pedal
8. Wiring Kit (Cabling)

Kit RGeneration RG **is certified** Triveneta Impianti Srl can give you **quality assurance** about:

- → **its work**, thanks to uor competent and qualified staff
- → **its products**, because of our continuous search of the best materials

TÜV PROFI CERT ISO 9001 73 100 4683

ISO 9001

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TRIVENETA SISTEMI

Kit RGeneration RG

COD. 010 SAFE

Safety Kit for RG Press Brake
AMADA – PROMECAM – SCHIAVI

1.

1. Safety Device Multi Beam Laser System DSP AP Nuova Elettronica
2. Support Brackets available in different versions
3. Emergency Panel integrated on the Support Brackets
4. Magnetic Linear Encoder (speed control line)
5. Safety PLC MCS Nuova Elettronica
6. Redundant safety management of speed and slowdown (10 mm/sec)
7. Limit stop unit to control the machine pedal
8. Wiring Kit (Cabling)

2.

3.

6.

Il Kit RGeneration RG
does not modify the original performance
your press brake

The Kit upgrades **only the safety** of your press brake, but it covers all the aspect: mechanical, hydraulic and electronic.

7.

5.

8.

4.

A certified retrofitting is the best solution if you want safety and performance, but with a significant cost savings compared to buying a new press brake.

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