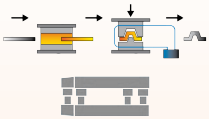
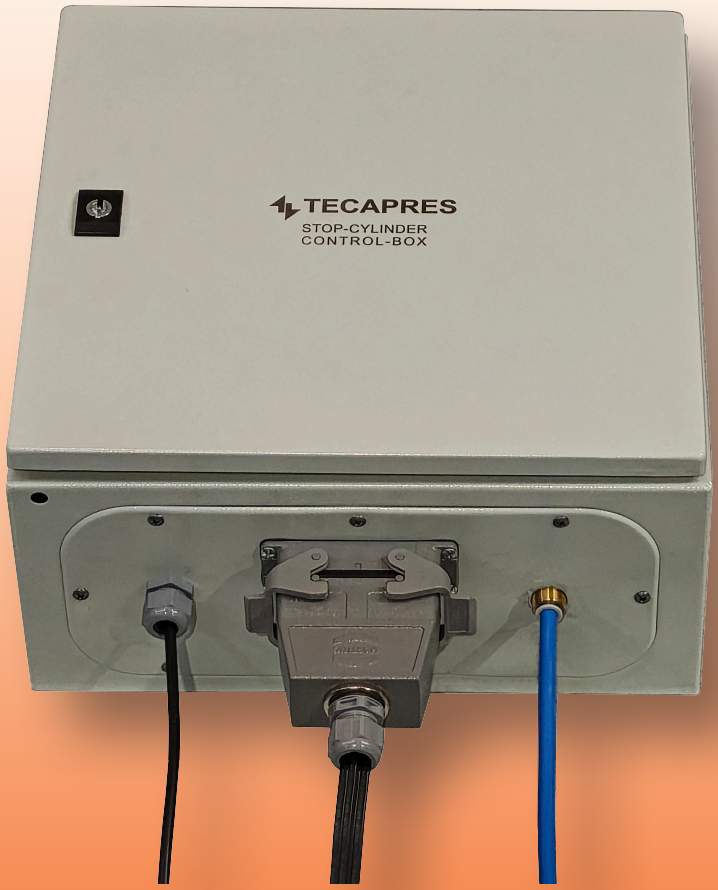
TECAPRES®

STOP-CYLINDER CONTROL BOX



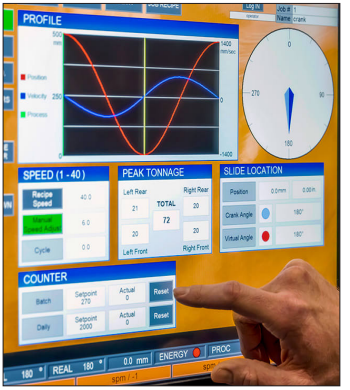
HOT STAMPING

COLD STAMPING



PLUG & PLAY CONCEPT!

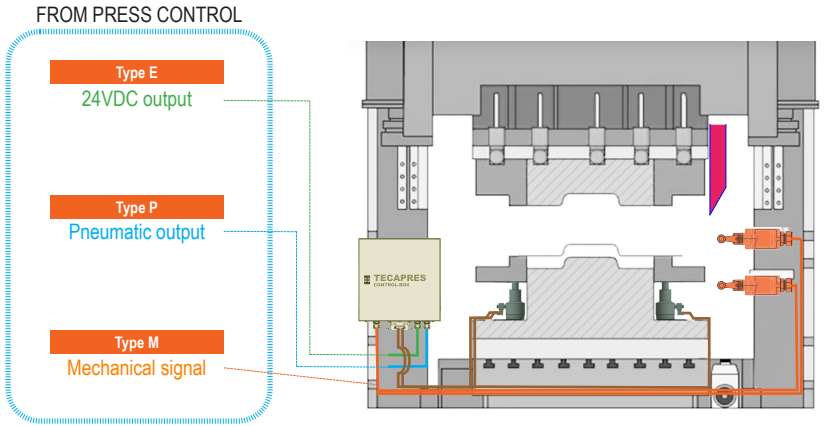
"...Truly simple"



CONTROL-BOX
Designed to provide total control for TECAPRES Stop-cylinders.

Suitable for cold forming and also for hot stamping.

Signal control could be:
- ✓ Electrical (24VDC) → Type E
- ✓ Pneumatic → Type P
- ✓ Mechanical, as limit switch → Type M

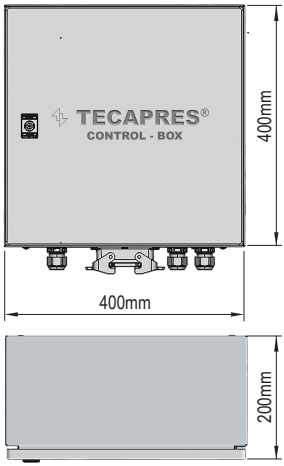


TECAPRES stop cylinders are designed to operate in sync with the press cycle. State-of-the-art presses are equipped with various control signals that can be connected directly to the stop cylinders, allowing for simple installation and full functionality from the very beginning.

In some cases—either due to limited available power or because the press belongs to an earlier generation—it is necessary to use an external control box, ensuring the cylinders receive the power and control required for reliable and effective operation.

As a new offering, TECAPRES presents the CONTROL BOX, designed to meet the specific needs of each customer in a wide range of situations.

The CONTROL BOX guarantees the necessary power to all stop cylinders for any application, as well as the ability to control the stop using an electrical signal, a pneumatic signal, or mechanical limit switch control.



The TECAPRES Control-Box is designed and manufacturing according customer's specific requeriments, according the characteristics of the tool and customer's production press.

For this reason, a minimum of information should be supplied by customer, like number of stop-cylinders in the tool, the type of control signal...

Required information

Number of stop-cylinders in the tool	*(pcs)*
Maximum cycles per minute	*(spm)*
Version / type of signal	*(E, P, M)*
Press control pneumatic signal pressure	*(Bar)* (In case of)

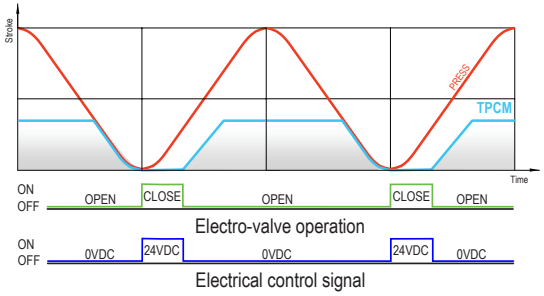
How to order

CONTROL-BOX	-	12	-	E
Ref		Cylinders quantity		Version

IP65 WATERPROOF

Version:
- Type E: type of signal electrical
- Type P: type of signal pneumatic
- Type M: type of signal mechanical

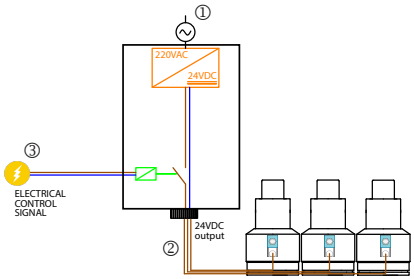
CONTROL BY ELECTRICAL SIGNAL · TYPE E



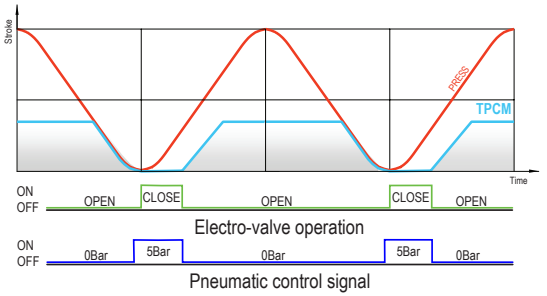
①Supply voltage 220VAC
②Output 24VDC to Stop-cylinders
③Input signal 24VDC from press

TECHNICAL INFORMATION	
Supply voltage	220 VAC / 50Hz
Electrical signal input	24VDC
Max. number of cylinders	16pcs
IP protection	IP 65

System used when the press is capable of providing a 24VDC electrical signal ouput connected to the press cycle.

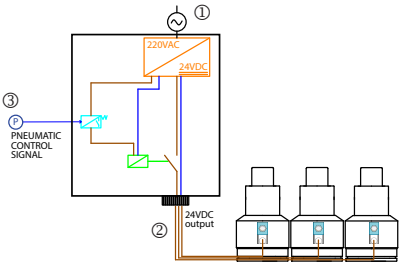


CONTROL BY PNEUMATIC SIGNAL · TYPE P



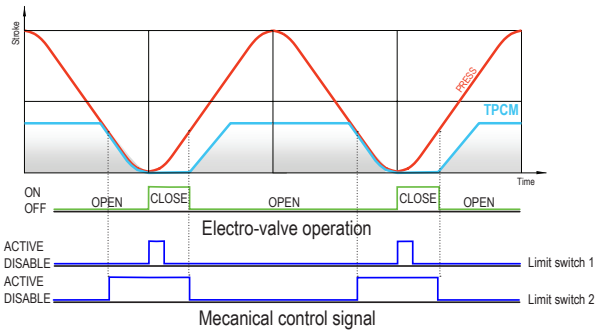
① Supply voltage 220VAC
② Output 24VDC to Stop-cylinders
③ Input signal 5bar from press

TECHNICAL INFORMATION	
Supply voltage	220 VAC / 50Hz
Pneumatic signal input	Min. 4Bar
Max. number of cylinders	16
IP protection	IP 65



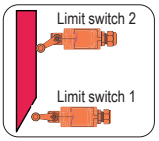
System used when the press is capable of providing a pneumatic signal output connected to the press cycle.

CONTROL BY MECHANICAL SIGNAL · TYPE M

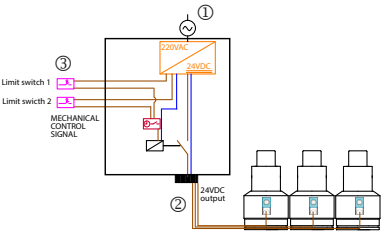


① Supply voltage 220VAC
② Output 24VDC to Stop-cylinders
③ Input signal from limit switches

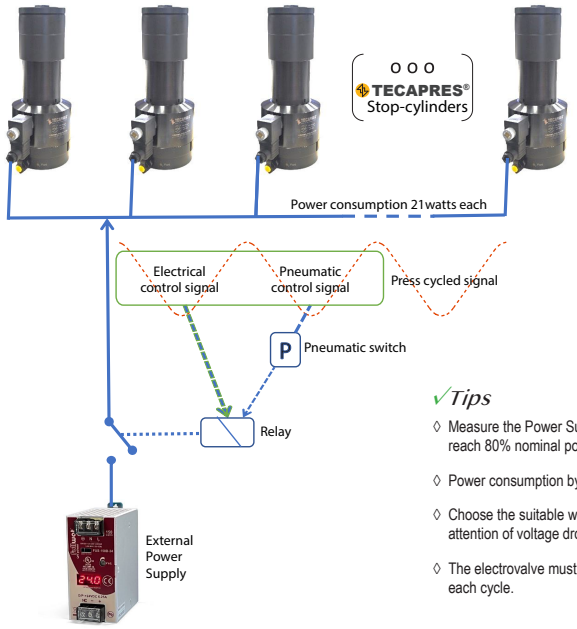
TECHNICAL INFORMATION	
Supply voltage	220 VAC / 50Hz
Cam approach angle	30°
Max. number of cylinders	16
IP protection	IP 65



In the case that the customer's press is from an older generation and lacks automated control signals, it is possible to install mechanical detection systems to determine the desired stop and release point.

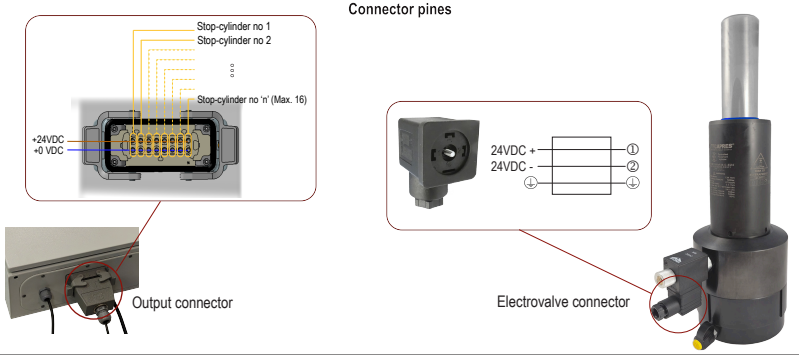


Electrical installation guide

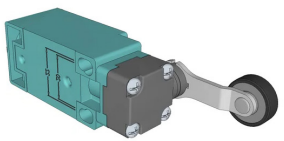


✓Tips

- ◊ Measure the Power Supply according your necessity (please do not reach 80% nominal power).
- ◊ Power consumption by each Stop-cylinder unit 21w.
- ◊ Choose the suitable wire according the power and lengths, paying attention of voltage drop.
- ◊ The electrovalve must to be linked to the press, open and close in each cycle.



Limit switch characteristics / Ref. TPLIM-100



TECHNICAL INFORMATION	
Type	Limit switch
Design	Fixed body, rotary head
Operator type	Roller level
Approach direction	Lateral, both directions (30°)
Contacts	1 NC / 1 NO
Actuation	Cam based operation, 30° actuation angle
IP protection	IP 66
Electrical ratings	DC-13 (Ue=250V): Ie=0,1A
Ambient temperature	-25°C to 70°C
Dimensions	30x94x16mm