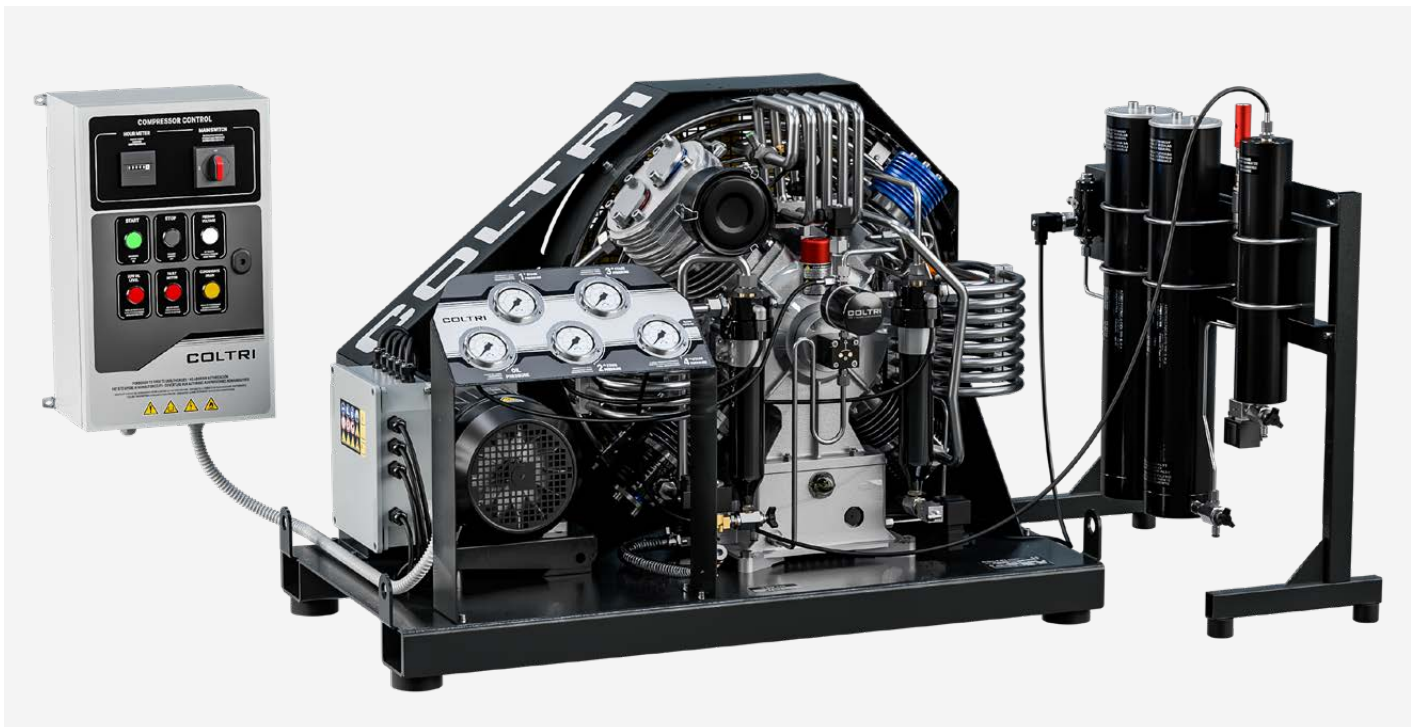


# Coltri News

July, 2023

# New Force Four.

It goes out of its way  
to give you the best.



The new compact compressor that completes the Heavy Duty line, the highest performing of Coltriad high-pressure compressors.

Available with 2 4-stage pumping units with the flow rate of 450 l/min and 650 l/min. Equipped with 7.5 kW single-phase (Force Four 400 EM), 7.5 kW 3-phase (Force Four 450 ET) or 11 kW (Force Four 650 ET) electric motor.



## Stand-alone filter system with Hyperfilter

The Hyperfilter filter system, with double cartridge, is mounted on a stand-alone and includes:

- Safety valve (variable according to customer's request).
- Pressure maintenance valve.
- External Hyperfilter separator and filter kits
- Stand-alone structure.
- Automatic condensate drain. Removes water from the intermediate separator and the final separator automatically during operation.

The system can be optionally requested with the new Megafilters.



## Compressor control and automatic condensate drain system

FORCE FOUR is equipped with an electrical panel to control the compressor and has:

- Motor protection switch.
- Pressure switch at 230 or 330 bar.
- Automatic condensate drain of all separators.
- Pressure gauges for displaying interstage pressure.



# New ACE VII.

## Big performance, small consumption.



**A new model has been added to Coltri's Booster line: the ACE VII.**

Equipped with a 4-stage pumping unit with gas recovery, the new compact booster has a 5.5 kW electric motor. A "stand-alone" filter system with Hyperfilter or Megafilter is available upon request.





## Hyperfiltered stand-alone filter system with Hyperfilter Megafilter (optional on request)

The filter system, with activated carbon cartridges, is mounted on a stand-alone stand and includes:

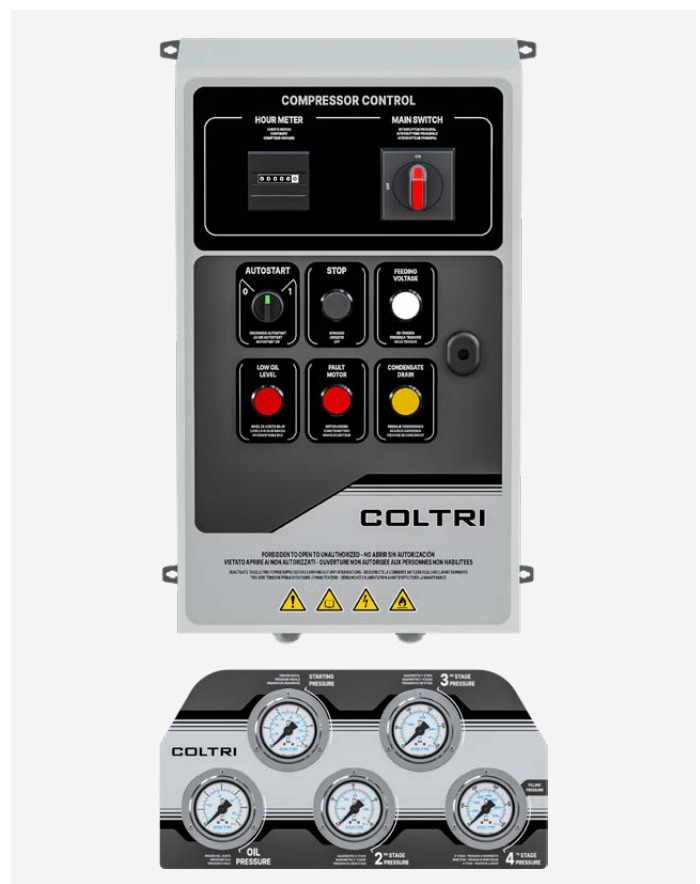
- Safety valve (variable according to customer's request)
- Pressure maintenance valve.
- External Hyperfilter and separator kit.
- Stand-alone structure.
- Automatic condensate drain. Removes water from the intermediate separator and the final separator automatically during operation.



## Compressor control and automatic condensate drainage system (included)

ACE VII is equipped with an electrical panel to control the compressor and has:

- Motor protection switch
- Autostart at 40 bar hysteresis.
- Transformer.
- Pressure switch
- Drainage of all separators.
- Timer for automatic condensate drainage.
- Pressure gauges for displaying interstage pressure.

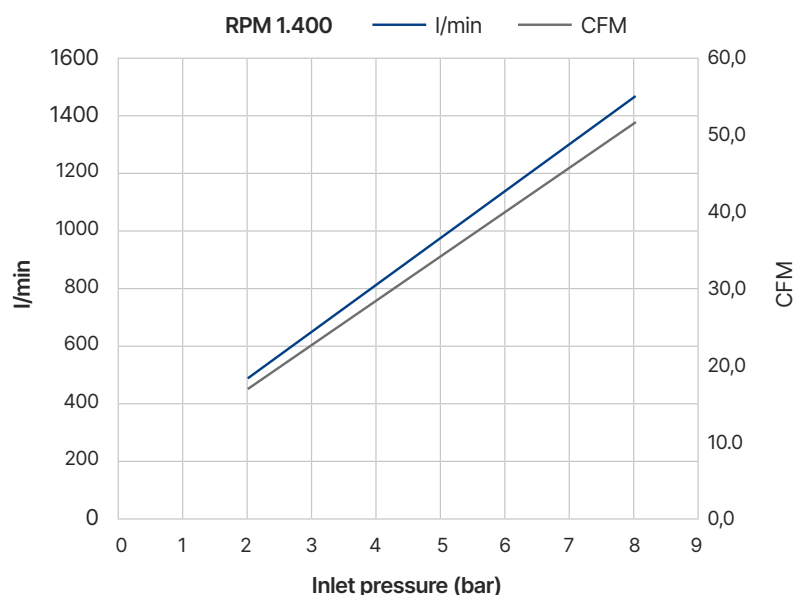


# Booster Indy I, Booster Indy III. The new mid-pressure boosters.



**An important addition for the Booster line: the introduction of medium pressure with the BOOSTER INDY I and BOOSTER INDY III models.**

The new booster work with a maximum operating pressure of 40 bar and a suction pressure between 2 and 8 bar. Equipped with a 3-stage pumping unit.



## Booster Indy I

The new BOOSTER INDY I is equipped with a 5.5 kW three-phase electric motor. Its flow rate ranges from 489 l/min to 1,466 l/min, and it is equipped with an electric panel to control the booster, an hour meter and an electromechanical pressure switch. The frame, available in the color Black RAL 9005.



## Indy Booster III

The BOOSTER INDY III is equipped with a 7.5 kW three-phase electric motor. Its flow rate ranges from 489 l/min to 1,466 l/min and is equipped with:

- Electrical panel for booster control.
- Digital hour meter.
- Temperature control.
- Automatic condensate drain.
- Pressure gauges for pressure control.
- Electromechanical pressure switch with automatic shutdown.
- ON/OFF switch with motor protection switch.



# Ergo Petrol and Diesel become “Fully Automatic”

Available Ergo petrol or diesel (Efficient Line) compressor in “Fully Automatic” version.

Coltri's list is expanded with two new models for the **Ergo Petrol and Diesel compressor of the Efficient line**: fully automatic (identified by the initials “FA”).

The “FA” models differ from the “standard” models in the equipment provided; in fact, we already find automatisms as standard:

- Electric startup with battery
- Automatic shutdown with pressure switch.
- Automatic condensate drain with conveyance system into the tank.



Ergo 270 SH FA



Ergo 280 DY FA



# Filling panels restyling.

## New design, improved quality.

The new remote filling panels are provided for recharging cylinders through storage stations or from high-pressure compressors. They can perform recharging from 225 to 300 bar. Compatible gases for refilling are: nitrogen, helium, nitrox 40% max O<sub>2</sub>.

In order to ensure maximum reliability Coltri Compressors makes a careful selection of materials and components to be used in the construction of charging panels, subjecting them to regular testing before delivery.

Available in the following versions:

- [Filling panel single pressure](#)
- [Filling panel double pressure](#)
- [Filling panel single pressure, lever taps](#)
- [Filling panel double pressure, lever taps](#)



# Priority panel

The priority panel, **available on dual-pressure refill panels**, is an ideal solution for simple and effective storage management. It automatically manages the flow of air in the filling station between the compressor, storage and cylinders. The user can simply connect empty cylinders to the filling panel and open their valves.

## OPERATION

- Compressed air from the storage system is siphoned into the cylinder.
- If the pressure drop in storage exceeds the delta P set in the pressure switch, the compressor will turn on.
- Transferring lasts until the pressure equalizes between the compressed air cylinder and the storage system.
- When pressure equilibrium is reached, the compressor fills, until the cylinder's filling pressure is reached, the cylinder with compressed air.
- When the cylinder has been filled, a new switchover occurs through a holding valve, and the compressor fills the storage system until it automatically shuts off when the maximum filling pressure is reached.

**This procedure is carried out without manual intervention.**

## Components

- ① Frame
- ② Mounting holes
- ③ Usage pressure gauge
- ④ Line pressure gauge
- ⑤ Priority panel
- ⑥ Recharge ramp block
- ⑦ Pressure reducer
- ⑧ Safety valve
- ⑨ Power connection fitting
- ⑩ Filling hose holder

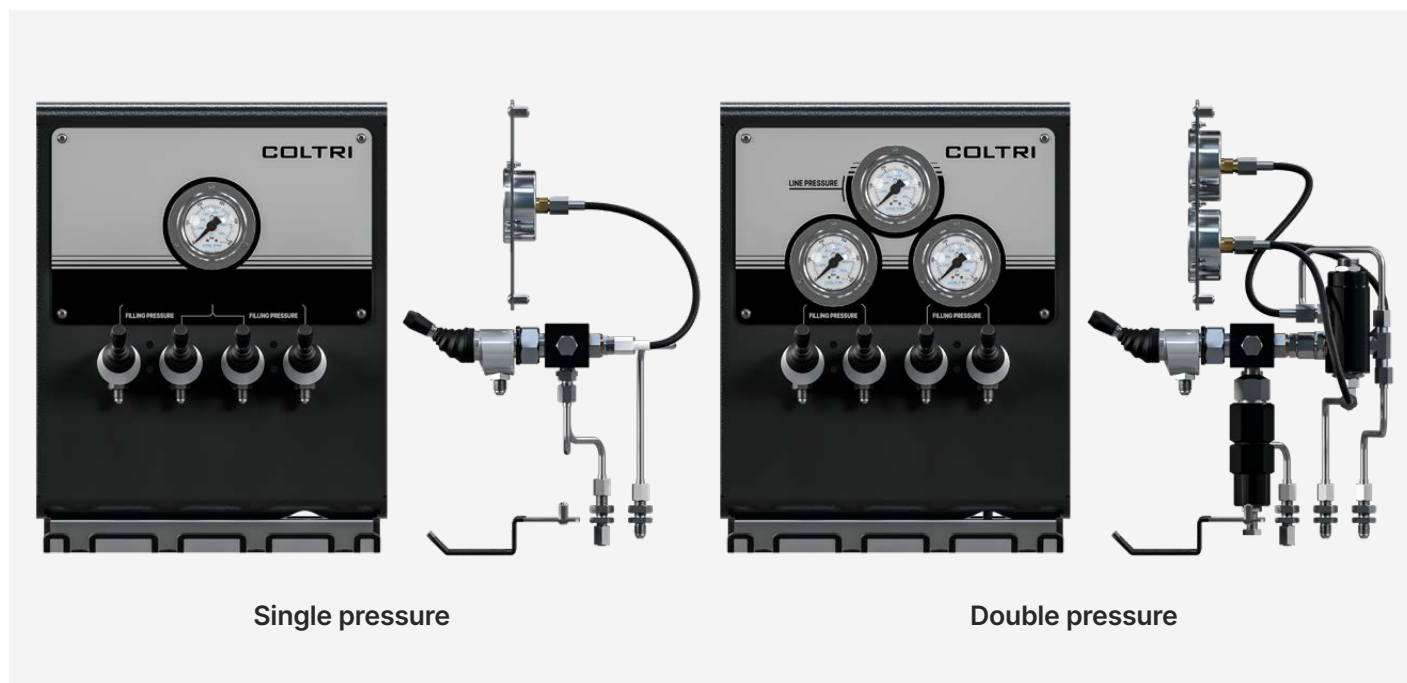


The example refers to a double-pressure charging panel with DRV connections.

## Detail of new filling panel.



## Detail of new filling panel with lever taps.



# High pressure reduction stations.

A concentrate of quality and functionality to support the storage system.

Coltri's new high pressure reduction stations are available in two versions:

## HIGH PRESSURE REDUCING STATION IN 360 OUT 250

The application has a reducer that works with **inlet pressure at 360 bar** and adjustable **outlet pressure between 50 and 250 bar**.

## HIGH PRESSURE REDUCING STATION IN 360 OUT 50

The application has a reducer that works with the **inlet pressure at 360 bar** and an adjustable **outlet pressure between 0 and 50 bar**.



IN 360 OUT 250



IN 360 OUT 50



**All stations are equipped with high-efficiency pressure reducers, pressure gauges, ball valves and safety valves.**

**In addition to being quick and easy to install, the quality of materials and strict controls in production ensure excellent operational safety.**

The new pressure reducing stations are delivered fully assembled and consist of:

- Locking valves
- Pressure gauge with inlet and outlet side
- Pressure reducer
- Safety valve
- Bleeder valves
- Panel for wall mounting



IN 360 OUT 250




IN 360 OUT 50

# Security is for everyone.


The safety cable to prevent hazards in the event of hose tearing, already standard for all new compressors, is now also available for sale. Also online\*!

\*E-commerce sales are only available to qualifying countries (Art. 10 <https://coltri.com/en/terms-of-sale/>)



**Eable AS**  
La protezione antistrappo per tubi flessibili ad alta

**Estratti dalle**  
**regolamentazioni**  
**europee**



**Direttive e norme europee vincolanti in materia di:**  
**tubazioni flessibili idrauliche - pericolo in caso di strappo del tubo flessibile**

Molte tubazioni flessibili idrauliche comportano dei notevoli rischi per l'incolumità e la vita. Per principio è prevedibile che sia le tubazioni flessibili nuove che quelle più vecchie scoppino o possano staccarsi con enorme violenza dal raccordo pressato e causare colpi di frusta. Per questo motivo le macchine vendute nell'UE devono soddisfare i requisiti di sicurezza menzionati in basso! In parole povere, le norme stabiliscono:

**"Se una tubazione flessibile può essere una fonte di pericolo a causa di colpi di frusta o scoppi, deve essere protetta con mezzi idonei."**

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**Il Parlamento europeo descrive requisiti di sicurezza generali per le macchine al momento della messa in circolazione nello spazio economico europeo nonché in Svizzera e nella Turchia nella**  
**Direttiva macchine 2006/42/CE**, che stabilisce:

"Le tubazioni rigide o elastiche contenenti fluidi, in particolare ad alta pressione, devono poter sopportare le sollecitazioni interne ed esterne previste e devono essere solidamente fissate e/o protette affinché, in caso di rottura, esse non presentino rischi."

La direttiva suddetta deve essere rispettata obbligatoriamente da ogni produttore. In caso di violazione della stessa, l'applicazione della targhetta CE NON È CONSENTITA!

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**I requisiti di sicurezza generali ai sensi della suddetta direttiva macchine 2006/42/CE vengono concretizzati tramite le norme di sicurezza integrative come la UNI EN ISO.** Anche nelle norme di dettaglio, l'utilizzo di sistemi di bloccaggio per tubi flessibili è richiesto in modo univoco. Seguono alcuni estratti delle norme in materia:

**UNI EN ISO 12100 Sicurezza del macchinario:**

"I dispositivi pneumatici e idraulici delle macchine devono essere costruiti in modo da far sì che: - annerimento o la rottura di componenti non comportano pericoli dovuti alla fuoriuscita sotto pressione di liquidi o all'improvviso movimento pericoloso di tubi flessibili (colpi di frusta)."

**UNI EN ISO 4413 Oleidraulica: Regole generali e requisiti di sicurezza degli impianti idraulici e dei loro componenti:**

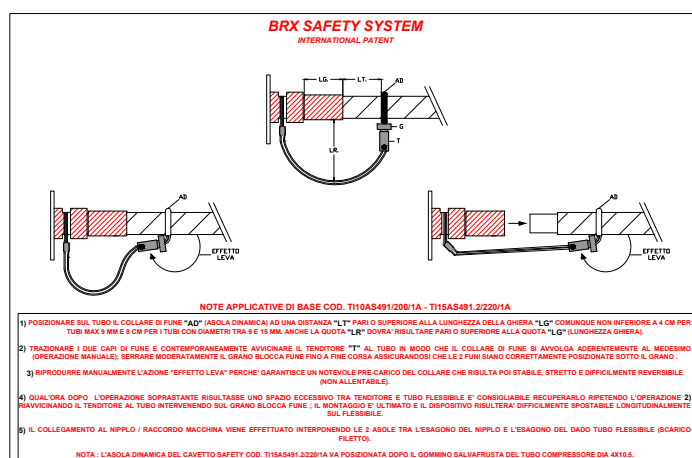
"Quando il guasto di una tubazione flessibile può comportare il rischio di un colpo di frusta, la tubazione flessibile deve essere trattenuta o schermata con mezzi idonei. Se ciò non fosse possibile a causa di movimenti della macchina a cui è destinata, è necessario fornire delle informazioni sui rischi residui."

**UNI EN 201 Macchine per materie plastiche e gomma - Macchine a iniezione - Requisiti di sicurezza:**

"I pericolosi colpi di frusta di tubazioni flessibili con pressioni superiori a 5 MPa (50 bar) devono essere impediti con ripari fissi (vedi EN 953:1997, 3.2.1) e/o fissaggi supplementari delle tubazioni flessibili, ad es. mediante catene, funi o morse."

Le regolamentazioni di cui sopra sono state compilate secondo scienza e coscienza ed esprimono il senso del contenuto. Tuttavia le regolamentazioni possono cambiare, pertanto non possiamo garantire la correttezza dello stesso. È quindi necessario verificare ogni singolo caso anche personalmente sotto la propria responsabilità!

Pagina 21 Con riserva di modifiche senza preavviso e salvo errori. Si applicano esclusivamente le nostre condizioni generali di contratto. È vietato qualsiasi tipo di riproduzione.



# New robotic lapping machine.

In order to automatethe production process and ensure precision and quality of the finished product, the Coltri workshop is expanding with a new robotic lapping machine.



The lapping stage aims to remove a specific amount of material from a cylinder, using abrasive materials, in order to give it the perfect roughness for oil-free compression.

