

Product overview

This swing door is certainly the most field tested, reliable door on the market for industrial and commercial applications. The quality materials used and COIL's exclusive construction technology ensure a maintenance free, smooth virtually limitless operating life. The torsion spring accumulating the force applied to open the door panels releases it for closing them. The AISI 304 Stainless Steel version is recommended for rooms requiring frequent cleansing, in the food or chemical industry and in community centres. All door hinged parts move on ball bearings.

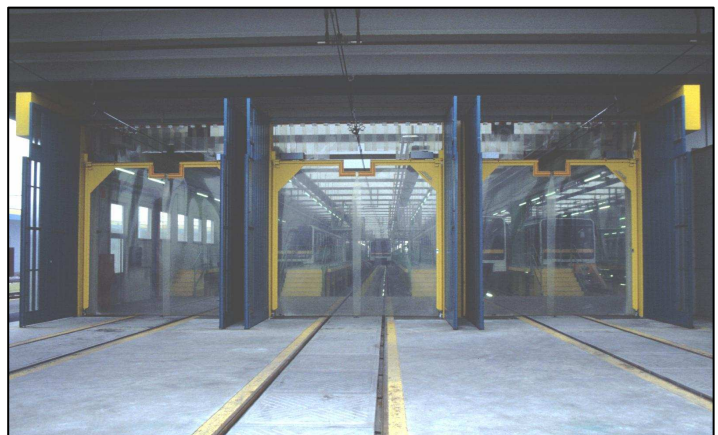
Backed by decades of manufacturing experience COIL developed a complete range of special air-operated devices for automatic door opening (see optional device section).

WINDOR flexible swinging doors are warranted for 12 months from the date of delivery.



WINDOR for special applications

Special large dimension Automated Swing Doors are available for train/streetcar depots or special installations for Hospital Emergency entries



Technical specifications

Framework

This is a sturdy construction made of cold-galvanised "Sendzmir" steel profile, with dimensions suitable to ensure maximum swing door resistance and elasticity.

Door panels swing operation

Mounted on upper and lower rotating supports with ball bearings.

Automatic door closing

This option comprises two torsion springs positioned in the door upper section and in the lower guide supports. The spring torque resistance is adjustable as required by operating conditions.

Flexible swing panels

Made of high-quality, flexible, self-extinguishing clear PVC for sound insulation and resistance to impact wear and low temperatures or, with a combination of bottom black rubber or opaque PVC and top or central clear PVC sections, as follows:

KRISTALL : fully transparent PVC panels in 5, 6, 7 mm thickness, for total visibility and safety.

KRISTALL GUM : Reinforced Bottom black rubber panels 1300 mm. height with double thickness and Top panels in 9 mm thick clear transparent PVC for visibility and safety.

KRISTALL OPACO "A" : Opaque Grey or Yellow lower PVC panels with 1300mm height. Top section made of clear transparent 5 mm thick PVC panels..

KRISTALL OPACO "B" : Lower and top sections in opaque grey or yellow PVC, with central section made of clear transparent 5 mm thick PVC for visibility and room lighting.

ALLOPACO : Fully opaque grey or yellow 5mm thick PVC panels, with clear portholes,

KRISTALL BT : special clear PVC version for subzero temperatures (min.temp.-45°C/-58°F.). Recommended for deep freeze storage room applications..

COIL's unique installation of perfectly flat PVC panels on its WINDOR door frames is assured by a "pre-heating" process. This vouches for many years of reliable door operation with plane plastic panels.



Automation options for WINDOR flexible swing doors

SP device

Air operated , automatic dual directional door opening device

When the closed door panels are pressed lightly, the door opens in both directions automatically. The system is made up by a of two quality ISO standard anodized aluminium air cylinders fitted with individual opening/closing speed control with damping at stroke-end. The device also includes a galvanized metal guard with a small shield for clearance compensation between the cylinders. A light pressure actuates the air loaded cylinders and the closed door opens in both directions. In case of a temporary lack of plant air, the system allows a safe mechanical door opening.

SE device

Electro-pneumatic remote-controlled single direction automatic door opening.

This remote controlled electro-pneumatic device allows automatic door opening in a single direction. The system consists of two quality ISO standard anodized aluminium air cylinders fitted with individual opening/closing speed control with damping at stroke end. The device also includes a galvanized metal guard with a small shield for clearance compensation between the cylinders. A light pressure actuates the air loaded cylinders and the closed door opens in a single direction. In case of a temporary lack of plant air, the system allows a safe mechanical door opening. An electro-pneumatic control panel is imbedded in a sturdy cabinet with IP 55 protection complying with updated EC/CEI 44/5 -DIN standards performs all necessary functions and interfaces with remote controls.

The system includes:

- mains power switch
- programme selector switch
- programmable electronic logic controls
- low voltage transformer 220 Volt to 24 Volt
- 3-way electro valve

DE device

"double action" electro-pneumatic device

For large entries, we recommend installations of big flexible swing doors featuring DE "dual action" pneumatic cylinders to avoid door opening caused by strong wind force or negative pressures.

In such a contingency the air cylinders which actuate the door opening are permanently kept under pressure when the door is closed. In this situation, the door cannot open without a command from a remote control. In case of plant air failure, the door can be opened manually and automatic closing is ensured mechanically by the torsion spring incorporated in the door frame.

SAM modular automation for swing doors

Pneumatic or electro-pneumatic opening controls for swing doors. Automatic single or bi-directional opening of impact swing doors, or remote-controlled single or bi-directional automatic door opening..

Exclusively designed and patented by COIL, this device can operate automatically all types of swing doors on the market, without any structural modification. The automation system is particularly recommended for sanitation and environmental hygienic requirements.

This door automation device is available for the door impact "push" version and for the remote command. The remote commanded version allows both single direction and dual direction door opening.

The SAM system includes :

- a self supporting box enclosure made of galvanized steel or AISI 304 Stainless Steel, complete with the actuating stirrup and a hinged inspection cover.
- a pneumatic impact actuator (SAM SP) or electro-pneumatic actuators (SAM SE or remote SAM)
- an air cylinder with aluminium tubing complying with ISO standards.
- dual adjustable damping device
- speed regulators
- air discharge ports
- 5-way electric valve with solenoids having 24 V .coils (SAM & SAM SE)
- Electro-pneumatic control panel with a rugged cabinet complying with IP 55 protection and updated EC/IEC 44/5 + DIN standards, providing full controls and interface with remote commands..

The door panel opening and closing speeds are individually adjustable for each transit direction. The function logic for remote controlled version can be programmed to connect with traffic lights. In case of power failure , the door can be operated manually.

The best benefit of the SAM system is its installation possibility on all kinds and makes of swing impact doors on the market, with no structural alterations.

