



Automatic Industrial Overhead Doors



DITEC automatic overhead doors The ideal solution for all industrial needs

- ▶ **Best use of transit openings**
- ▶ **Weather resistant**
- ▶ **Maximum safety**

DITEC overhead doors offer a range of real and amazing advantages.

- ▶ **Their compact size leaves more available space both inside and outside the premises**
DITEC overhead doors ensure a better use of inside space as the side runners vertically move the door along the wall and parallel to the ceiling. The doors are installed above the opening, thus ensuring a better use of the transit opening.
- ▶ **Easy and practical to open and operate**
As DITEC overhead doors slide vertically, stopping in the proximity of the ceiling, they blend in with the architectural features of the building.
Their compact size ensures more available space both inside and outside the premises.
The doors are also easy and practical to use, specially if the original DITEC motors are installed.
- ▶ **More environmental control**
Heat insulation and soundproofing ensured by heat-insulated panels improve working conditions on the premises and ensure energy savings.
- ▶ **Light and aesthetically pleasing environments**
The panels can also be manufactured with the addition of practical portholes or full aluminium sections featuring polycarbonate or unbreakable glass panels, wire meshing or air grilles.
- ▶ **They add value to the premises and meet all requirements**
The design and different solutions offered ensure the door to be aesthetically pleasing and perfectly suited in any architectural environment - from modern and traditional industrial buildings to fine commercial buildings. The doors can meet any industrial and commercial requirement and add value to the building they are installed on. DITEC doors are built to ensure the highest ease and flexibility of use which, in turn, ensures a quick, hassle free and accurate replacement of old doors.
- ▶ **Reliability**
DITEC has been awarded ISO 9001-VISION 2000 and IQ NET certifications. All products are affixed with a CE mark.

Technical features of the product range

- ▶ **For transit openings up to 7 m wide**
- ▶ **Minimum space required on the lintel - 200 mm**
- ▶ **Distinctive features of models offered**
DITEC overhead door panels are sturdy and ensure a high heat insulation and soundproofing. The galvanised material used and the sandwich-type frame effectively protect it from the elements.
The core insulated with high-density (40 kg/m³), CFC-free polyurethane foam offers high protection from outside temperatures. DITEC overhead door panels are 40 mm thick and are available in two heights - 500 mm and 610 mm.
The doors are available with streaked effect horizontal louvre motif.

One of the highest heat insulation coefficient!
Value calculated with door installed
(certified) $k = 1.51 \text{ W/m}^2\text{K}$





Gold Alu

Steel doors with window sections for commercial premises.



Lisbon

Doors for industrial vehicle transit.



Bay

Loading bays for logistic operations.

▶ Available colours and finishes



White
similar to RAL 9003W



Blue
similar to RAL 5010W



Silver
similar to RAL 9006W



Green
similar to RAL 6005W



Dark Brown
similar to RAL 8014W



Inside
RAL 9003W

Colours printed on paper may not match the original colour;
it is therefore advisable to refer to official RAL tables, also when selecting customised colours.

Lisbon Model

This is the universal door for your working environment.

The door is ideal for opening and closing transit openings to take goods to your own vehicles or to your suppliers' vehicles.

This door is suitable for any installation requirement and leaves all the space required inside the building. Lisbon is offered in the medium and large size configuration with insulated steel panels.

To select the correct installation solution and to check all standard and optional parts, see the technical data sheets and ask information on safety standards, which are a major issue in all DITEC projects.



Bay Model

Bay is a Lisbon door specifically designed to close a goods loading bay.

Bay is equipped with a mechanically-operated sliding device specially designed to be installed in series, as required in logistics centres.

The shape of the vertical guides and the location of the torsion springs ensure an easy and rational installation and make the Bay model a very cost-effective solution.



▶ Gold Alu Model

- ▶ Light and pleasant environments
- ▶ Maximum internal/external visibility
- ▶ Modern and attractive frame

Gold Alu is DITEC overhead door which has been designed by combining extruded aluminium panels, shaped to house methacrylate or glass window panels. This combination gives the door a very distinctive look, which enhances the face of both commercial and industrial buildings, where Gold Alu blends in perfectly as a practical and decorative feature.

Gold Alu makes the environment light and pleasant to work in as it allows natural light to go through the large clear area.

The aluminium profiles and the methacrylate or 3+3 chamber glass window sections are highly resistant to the elements and ensure a longer life of the door.

- ▶ Door thickness - 40 mm
- ▶ Panel height ranges from 500 mm to 610 mm
- ▶ Colours available are shown in the colour table or additional colours can be used, on customer's request



Acrylic panel with 3+9+3 mm chamber

See-through acrylic or satin-finish 3 mm panel
See-through or satin-finish 3+3 mm unbreakable glass

Aluminium air grille

Painted drawn wire meshing



Safety devices give peace of mind during operation

All DITEC doors are fitted with standard or optional safety devices.

Torsion springs

The torsion springs (manufactured in compliance with DIN 17223 standards) are made of steel and have been designed to ensure a typical life of more than 20,000 operation cycles.

With standard compliant spring safety.

Anti-pinching guard

Avoids the risk of fingers from being pinched if a hand is rested on the door moving panel.

Safety device against spring breakage

This special device immediately stops the door panel from closing in the event of balancing spring breakage.

Safety device against cable breakage

This special device immediately stops the door panel from moving in case of breakage of the return cables.

Infra-red photocells

Installed on the runners, they immediately stop and reverse direction of the door panel downward movement if the infra-red beam is broken.

Safety rib

Installed on the bottom section of the panel, it is designed to absorb the impact in the event of an obstruction being present and immediately reverses the moving direction of the door.



Accessories meet all business requirements

Perimeter Seals

The seals are made of special anti-ageing rubber and are located on the ends of the doors and on the side of the transit opening. They ensure total insulation thus avoiding the ingress of air, dust and water.



Handles

Sturdy and ergonomic, they have been designed to ensure ease of manual door operation.



Window sections

Natural or lacquered aluminium window, with single or double methacrylate panels.



Portholes

Oval or rectangular in acrylic material, with polycarbonate panels with chamber.



PVC air grilles

These avoid condensation and vent any fumes to the outside.



Motor lock or release

Knob used to operate the safety latch or unlock the drive motor.



Pedestrian door

When the door is frequently used for pedestrian access, a side entrance can be fitted to the door or a pedestrian passage can be added in the door panel, without interfering with its look.

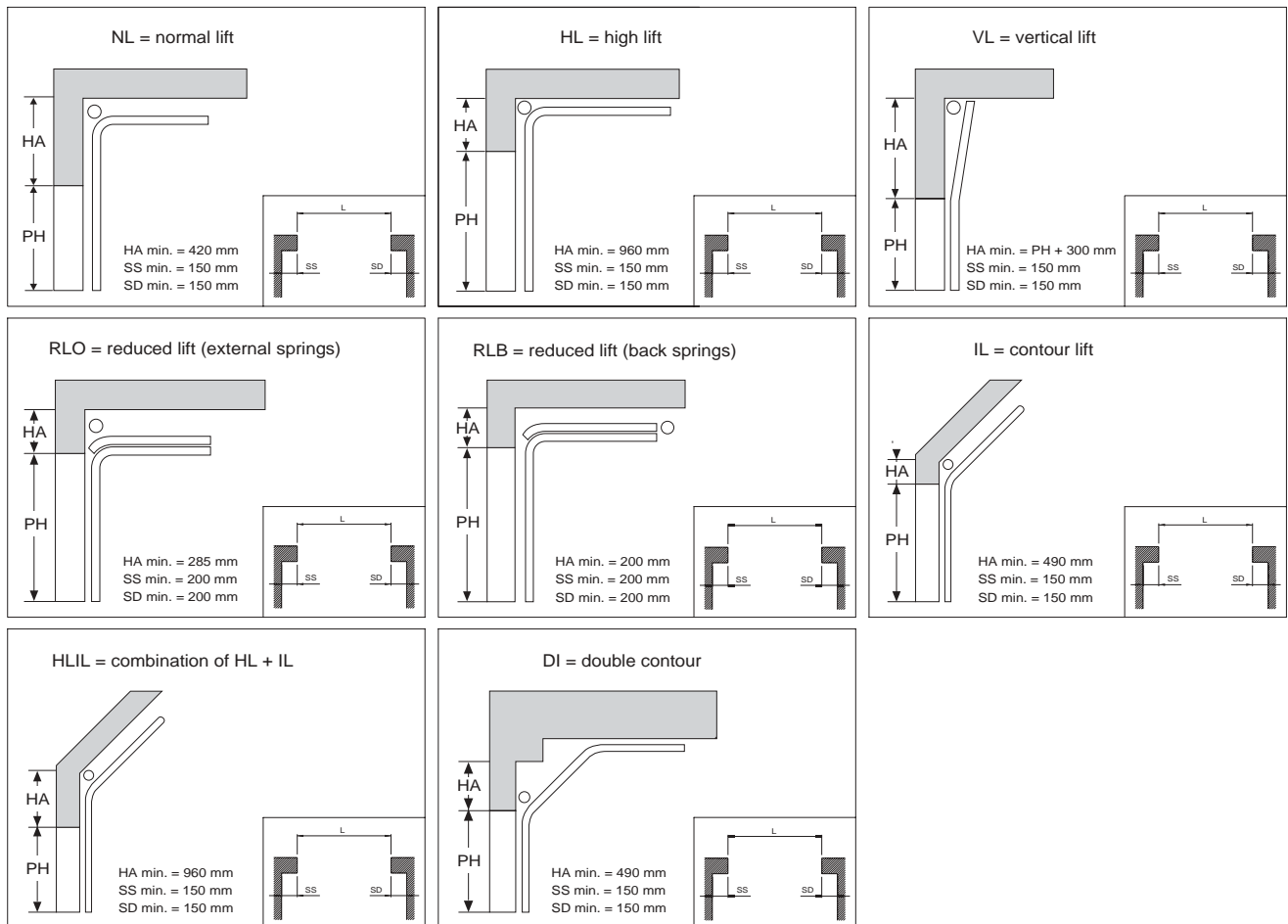


Vertical Lift Tracking System Sectional Drawings

Types of installation

DITEC offers several technical solutions, suited to any type of frame.

Minimum lintel size - 200 mm.



Overall Size and Tracking Table

INDUSTRIAL OVERHEAD DOORS										
	PL (mm)		PH (mm)		HA (mm)		SS (mm)	SD (mm)	G (mm)	Panel weight
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.	Min.	Max.
Normal (NL)	1800	7000	1800	5570	420		150	150	PH+1060	500 kg
				5930	510					700 kg
High (HL)	1800	7000	1800	5930	960	2860	150	150	PH-HA+1100	650 kg
						4460				575 kg
Vertical (VL)	1800	7000	1800	4000	PH+300		150	150		600 kg
				5950						500 kg
Reduced (RLO)	1800	7000	1800	5570	285		200	200	PH+1030	275 kg
Reduced (RLB)	1800	7000	1800	5570	200		200	200	PH+1330	275 kg
Contour (IL)	1800	7000	1800	5930	490		150	150	PH+560	500 kg
					550					700 kg
Double Contour (DI)	1800	7000	1800	5930	490	550	150	150		700 kg
HLIL= HL+IL	1800	7000	1800	5930	960		150	150	PH-HA+560	650 kg

Key

NL - Normal lift

HL - Lift with height extended guides

VL - Vertical lift

RLB - Reduced lift with back springs

RLO - Reduced lift with front springs

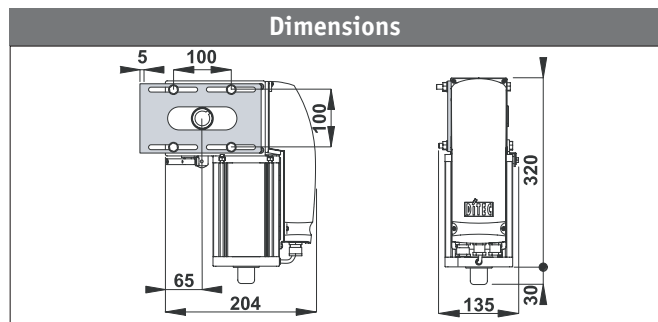
IL - Contour lift

DI - Double contour lift

Dod The Ideal Automation

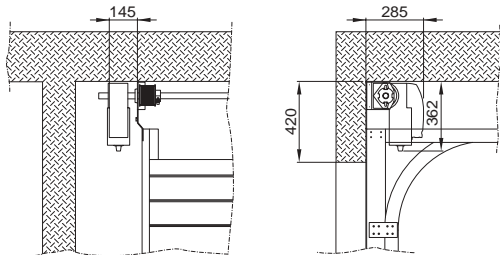
- **Heavy-duty motor, for total reliability**
- **DITEC original automation**

Dod drive unit automatically and reliably operates any type of overhead door.

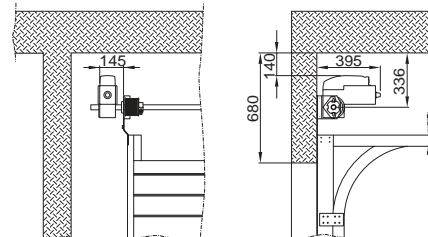


Motor configurations

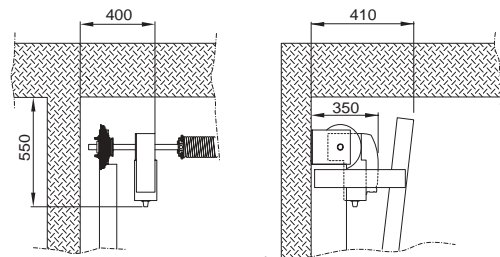
External and vertically mounted



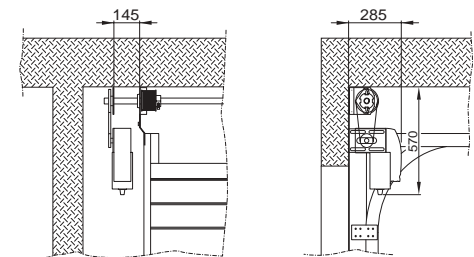
External and horizontally mounted



Internal and vertically mounted



Pinion and chain driven



Distinctive features

- Availability of different applications on overhead doors:
 - Mounted on drive shaft
 - Mounted on pinion and chain gear.
 - Ease of installation, connected directly to the drive shaft or moved by pinion and chain, avoids the use of other moving parts.
 - Fully tested and reliable components, already applied on other DITEC automations.
 - Its compact size enables it to be used where space is at a premium.
 - Modern and elegant design.
 - Rotating and adjustable mechanical stop unit.
 - Two release devices:
 - By cable: with a quick release.
 - Operated by a rod or a chain.
























When the automation is released, door operations can be manually carried out.
 - Installation with pinion and chain gear enables the automation speed to be adjusted to specific requirements or solves the problem of lack of side clearance.
- Dod automations are supplied with safety, control and monitoring devices compliant with current standards.



Technical specifications

	MOTORISED VERSION	AUTOMATIC VERSION	THREE-PHASE AUTOMATIC VERSION
Description: Electromechanical actuators	DOD 14 PS	DOD 14	DOD 15
Code		XQCF	SP3F
Duty class	4 - heavy duty	4 - heavy duty	4 - heavy duty
Intermittent operation	S2 = 30 min / S3 = 50%	S2 = 30 min / S3 = 50%	S2 = 30 min / S3 = 50%
Power supply	230 V~/50 Hz	230 V~/50 Hz	400 V~/50 Hz
Insulation class	class 1	class 1	class 1
Input	3 A	3 A	1,2 A
Torque / Thrust	60 Nm	60 Nm	65 Nm
Drive shaft rpm	22 RPM	22 RPM	32 RPM
Release for manual opening	by cable / with crank	by cable / with crank	by cable / with crank
Operating temperature	-20°C / +55°C	-20°C / +55°C	-20°C / +55°C
Protection rating	IP 54	IP 54	IP 54
Product dimensions	135x264x350	135x264x350	135x264x350
Open-close control	pre-wired switch	push-button panel on board panel	push-button panel on board panel
Control panel		E1F	LOGIC TF

System functions

		AUTOMATIC VERSION	THREE-PHASE AUTOMATIC VERSION
Description: Electronic control panels		E1F	LOGIC TF
Type of use		for 1 motor 230 V~ built-in radio	for 1 three-phase motor 400 V~ (multifunction)
Mains power supply		230 V~/50 Hz	400 V~/50 Hz
Motor power supply		230 V~/5 A	400 V~/6 A
Accessories power supply		24 V~/0.5 A	24 V~/0.3 A
Flashing light gives 3 seconds warning before automatically closing the gate		230 V	24 V
Gate open warning light warns the user if gate is not fully closed		limit switch	limit switch
Courtesy light			
Limit switch provision			
Force adjustment control		transformer	
ODS - Obstruction detection system causes the gate to stop or reverses operation when an obstruction is detected			
Operation time adjustment			
Open control		 (with dip-switch)	
Partly open control		 (with radio only)	
Close control			
Automatic timed close control			
Inching control			
Hold-to-run control			
Stop safety device			
Reverse operation safety device			
Autotest function			
Operating temperature		-20°C / +55°C	-20°C / +55°C
Protection rating		IP 55	IP 55
Product dimensions (mm)		180x250x100	225x320x120

Accessories

All accessories are genuine DITEC accessories and have been designed to add value to the door, to ensure long and reliable operation and peace of mind.



GO L4 transmitters
Fixed-code four-channel transmitters, with cloning option, or with rolling code system. Certified and compliant with current standards.

Standards

The system has been manufactured by using only DITEC manufactured accessories and safety devices.

All DITEC automations are affixed with the CE mark and are designed and manufactured in compliance with the Machinery Directive (98/37/EC), the Electromagnetic Compatibility Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC).

DITEC S.p.A. operates a policy of continuous development and reserves the right to make changes and improvements to their products. The technical data contained within this document is therefore not binding. Further information can be found in our on-line technical manuals at: www.ditec.it



DITEC S.p.A.

Via Mons. Banfi, 3 - 21042 Caronno Pertusella (VA) - ITALY
Tel. +39 02 963911 - Fax +39 02 9650314
www.ditec.it - ditec@ditecva.com

DITEC BELGIUM
DITEC DEUTSCHLAND
DITEC ESPAÑOLA
DITEC FRANCE
DITEC SVIZZERA
DITEC AMERICA
DITEC CHINA

LOKEREN
OBERURSEL
ARENYS DE MAR
PALAISEAU
BALERNA
ORLANDO-FLORIDA-USA
SHANGHAI

Tel. +32 9 3560051
Tel. +49 6171 9141550
Tel. +34 937958399
Tel. +33 1 64532860
Tel. +41 91 6463339
Tel. +1 407 8880699
Tel. +86 21 62363861/2

Fax +32 9 3560052
Fax +49 6171 9141555
Fax +34 937959026
Fax +33 1 64532861
Fax +41 91 6466127
Fax +1 407 8882237
Fax +86 21 62363863

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Dod accessories

- Compatible with DOD 14 and DOD 15 (also suitable for already existing automations as long as they are correctly configured - version 1.0)
- The full system includes the motor plus the DOD SBC chain-operated release with standard chain plus a 3800 mm long extension if required

H DOD	DOD LCG Chain extension
≤ 5000	NO
≤ 9000	YES

► **Xel 2 infra-red photocell**
Enables the automation to operate at the highest safety levels. Can be wall- or column-mounted. Modulated infra-red beam.



► **Deb 04 key-operated handle**
Key-operated handle with 5 m cord for remote release.



► **Lamp H**
24 V flashing light with flashing controlled from the control panel.



ISO 9001
Cert. n° 0957