

*Simple Box  
Low Cost  
Maintenance Off*



**CLEAN · SIMPLE · PERFECT**



***Flexibility,  
simplicity, efficiency, durability  
and security***

HYDRAULIC TELESCOPIC TECHNOLOGY

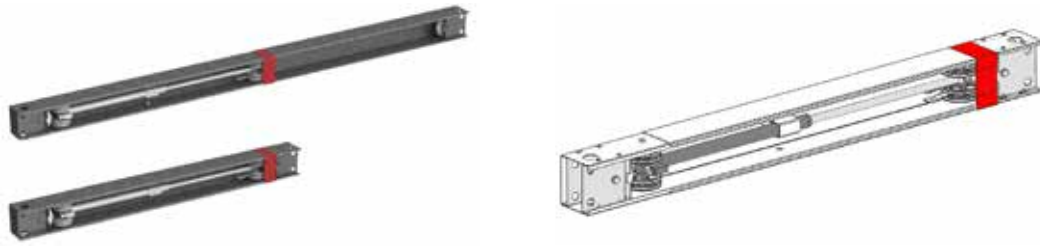


- Compatible with all commercially available sectional overhead doors.
- Adjustable at the installation Telescopic System, with freight reduced by 50%.
- Maximum safety anti-derailment, certified cables, pressure relief valve, option for interlocking to Dock leveller.
- Top economy with centralised services.
- Enclosed drive system ensures maximum hygiene and cleanliness with removal of exposed counterbalance springs and cable drums.
- High resistance to cold and heat.



## INSTALLATIONS

Solves every installation problem, allows you to do all that you cannot do with spring balanced sectional doors. Above is an example of what is possible thanks to the natural gravity force: up to now we have never said "it is impossible."



The genius of a hydraulic motor with over 70.000 installations in 26 countries, with total security and minimal maintenance. Four standard units, adapted at the point of installation, serve every requirement up to openings of 8.5 m in width and 6.5 m in height and 730 kg in door panels weight. Tested in Class C3 - 50.000 cycles in compliance with EN16034:2014.

Installing a drive is simple. Install the drive system above the tracks of the sectional door and secure by screwing in two brackets. To choose the type, simply make sure the measurements and weight of the door fall within those supported by one of the four drives listed here, which refer to panels with a minimum 25 mm overlap on each side.

Size	Opening width min. mm	Opening height max mm	Opening width max mm	Maximum weight of leaf kg	Opening - closing speed cm/s (0,75 kW motor)	Opening - closing speed cm/s (1,1 kW motor)	Packing dim. mm
<b>S</b>	2000	3500	3500	325	22 - 33	30 - 33	210 x 2230 x 170 h
<b>M</b>	2500	4500	4500	325	22 - 33	30 - 33	210 x 2730 x 170 h
<b>L</b>	3350	6500	6250	510	14 - 28	20 - 28	210 x 3580 x 170 h
<b>XL</b>	4500	6500	8500	730	14 - 28	20 - 28	210 x 4730 x 170 h

Quoted installation dimensions on shop drawings



## "S" SIZE

**For doors min. 2000 up to 3500 mm opening width and up to 3500 mm opening height**

Telescopic adjustable sectional overhead door hydraulic opening system, easy and safe installation. Space saving packing, only 2230 mm long.

**Door opening height:** up to 3500 mm

**Door opening width:** from 2000 up to 3500 mm with 25+25 mm panel overlap

**Door leaf weight:** up to 325 kg

**Lifting Cylinder:** bore 40 mm/ Stroke 700 mm

**Opening speed with 0,75 kW motor (1,1 kW motor):** 22 (30) cm/s

**Lowering speed:** 33 cm/s

**Free side space required:** 120 mm each side



### **Nominal dimensions:**

Transport length 2230 mm

Totally extended length 3720 mm  
(max door opening width 3500 mm)

## "M" SIZE

**For doors min. 2500 up to 4500 mm opening width and up to 4500 mm opening height**

Telescopic adjustable sectional overhead door hydraulic opening system, easy and safe installation. Space saving packing, only 2730 mm long.

**Door opening height:** up to 4500 mm

**Door opening width:** from 2500 up to 4500 mm with 25+25 mm panel overlap

**Door leaf weight:** up to 325 kg

**Lifting Cylinder:** bore 40 mm/ Stroke 900 mm

**Opening speed with 0,75 kW motor (1,1 kW motor):** 22 (30) cm/s

**Lowering speed:** 33 cm/s

**Free side space required:** 120 mm each side



### **Nominal dimensions:**

Transport length 2730 mm

Totally extended length 4720 mm  
(max door opening width 4500 mm)

## "L" SIZE

**For doors min. 3350 up to 6250 mm opening width and up to 6500 mm opening height**

Telescopic adjustable sectional overhead door hydraulic opening system, easy and safe installation. Space saving packing, only 3580 mm long.

**Door opening height:** up to 6500 mm

**Door opening width:** from 3350 up to 6250 mm with 25+25 mm panel overlap

**Door leaf weight:** up to 510 kg

**Lifting Cylinder:** bore 50 mm/ Stroke 1300 mm

**Opening speed with 0,75 kW motor (1,1 kW motor):** 14 (20) cm/s

**Lowering speed:** 28 cm/s

**Free side space required:** 120 mm each side



### **Nominal dimensions:**

Transport length 3580 mm

Totally extended length 6470 mm  
(max door opening width 6250 mm)

## "XL" SIZE

**For doors min. 4500 up to 8500 mm opening width and up to 6500 mm opening height**

Telescopic adjustable sectional overhead door hydraulic opening system, easy and safe installation. Space saving packing, only 4730 mm long.

**Door opening height:** up to 6500 mm

**Door opening width:** from 4500 up to 8500 mm with 25+25 mm panel overlap

**Door leaf weight:** up to 730 kg

**Lifting Cylinder:** bore 50 mm/ Stroke 1300 mm

**Opening speed with 0,75 kW motor (1,1 kW motor):** 14 (20) cm/s

**Lowering speed:** 28 cm/s

**Free side space required:** 120 mm each side



### **Nominal dimensions:**

Transport length 4730 mm

Totally extended length 8720 mm  
(max door opening width 8500 mm)

# CONSOLE

The Console is an electrohydraulic unit that provides the power to the drive. It can serve only one machine (e.g. a door) or two machines (e.g. two doors or a door and a dock leveller). Installed at about 1.5 m height, elegantly combines motor, tank and controls.



Perfectly safe, factory tested, includes all the required safety systems: maximum pressure valve, oil tank, manual pump where necessary. If centralised two functions, it allows the operation of one at a time, for safety. The wall installation allows a clean and easy inspection without risks.

Supplied service	Opening typology	REMARKS:
1 sectional door	Dead man	Safe system, if under direct sight control
2 sectional doors	Dead man	Safe system, if under direct sight control
1 sectional door	Automatic	Requires safety systems (not supplied)
2 sectional doors	Automatic UP / Dead man DOWN	Safe system, if under direct sight control
1 sectional door 1 sw. lip dock leveller	Dead man	Safe system, if under direct sight control
1 sectional door 1 tel. lip dock leveller	Dead man	Safe system, if under direct sight control
1 sectional door 1 sw. lip dock leveller	Automatic UP / Dead man DOWN	Safe system, if under direct sight control
1 sectional door 1 tel. lip dock leveller	Automatic UP / Dead man DOWN	Safe system, if under direct sight control

Quoted installation dimensions on shop drawings



# CONSOLE for SECTIONAL DOORS

The Console is mounted on the wall, at about 1500 mm finished floor level. It contains in an elegant cover the electrohydraulic motor 400 V three phase 50 - 60 Hz, 0,75 kW, the high temperature resistant plastic tank and has front commands with door-switch.

The tank and door controls are housed within a steel enclosure. The hydraulic system contains 4.5 Lts of oil which is sufficient to operate two units i.e. 2 sectional doors or a sectional door and leveller.

The system includes a manual override to open the door in the case of emergency.

Where 2 sectional doors are operated by one drive system the operation of the door is dead man. This provides a safe system as the operator is in full sight of the doors.

The Console for one automatic door requires safety systems (not supplied). The automatic Console is provided with an emergency stop-switch.



## CENTRALISED CONSOLE

The centralised Consoles serve the two connected hydraulic machines of the loading bay: the sectional door and the dock leveller, with the connected hydraulic hoses protected by a steel cover.

The leveller is interlocked to door fully open opposition, preventing collision with traffic over the leveller.

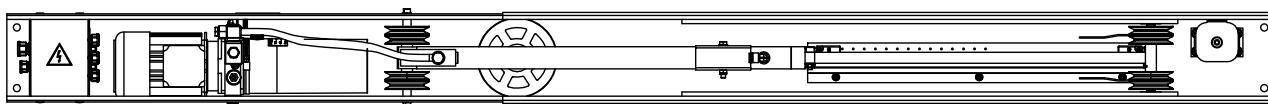
The centralised Console can be used with a sectional door and either a swing or telescopic leveller. Operation of the leveller is standard Dead man controls.

The Console for one door and one telescopic lip dock leveller can have the "auto-retract" automatic return to rest position.

Telescopic adjustable hydraulic opening system for sectional overhead doors, easy and safe installation.

Has the power unit, the hydraulic motor and the cylinder in one casing.

For doors min. 2100 up to 5000 mm opening width and up to 5000 mm opening height.



**Door opening height:** up to 5000 mm

**Door opening width:** from 2100 up to 5000 mm with 25+25 mm panel overlap

**Door leaf weight:** from 150 up to 250 kg

**Lifting Cylinder:** "S" bore 30 mm / Stroke 600 mm - "M" bore 40 mm / Stroke 800 mm - "L" bore 50 mm / Stroke 1000 mm

**Lowering speed:** 15 cm/s

**Free side space required:** 100 mm each side



Size	Feeding	Power kW	Opening width min. mm	Opening width max. mm	Opening height max mm	Max door weight kg	Opening typology	Opening / closing speed cm/s	Packing dim. mm
<b>S</b>	400/3P Vac	0,18	2100	3000	3000	150	Dead Man / Automatic / Full Automatic	15	200 x 2200 x h 160
<b>M</b>	400/3P Vac	0,18	2500	4000	4000	200	Dead Man / Automatic / Full Automatic	15	200 x 2600 x h 160
<b>L</b>	400/3P Vac	0,37	2900	5000	5000	250	Dead Man / Automatic / Full Automatic	15	Work in progress
<b>S</b>	220/1P Vac	0,5	2100	3000	3000	150	Dead Man / Automatic / Full Automatic	15	200 x 2200 x h 160 *
<b>M</b>	220/1P Vac	0,5	2500	4000	4000	200	Dead Man / Automatic / Full Automatic	15	200 x 2600 x h 160 *
<b>L</b>	220/1P Vac	0,5	2900	5000	5000	250	Dead Man / Automatic / Full Automatic	15	Work in progress

\* Work in progress





## ACCESSORIES



### CONSOLE "TOTEM"

Where there is limited space on the wall a free standing galvanised totem unit can be supplied which is bolted directly to the floor providing a simple solution.

### CONSOLE MOUNTING PLATE

Provides a simple solution when mounting the system to composite insulated walls.



### CUSTOM - MADE

The telescopic powering solves the necessity of manufacturing it on dimension for each order and the telescopic system allows a reduction of the transport volumes of about 50%. For at least 20 identical for doors maximum 4750 mm wide, finished to the dimensions can be supplied without overprice.



# WHY CHOOSE HYDRAULIC SYSTEM?

*Complete loading bays with electrohydraulic Dock leveller and Sectional door:*



## THE TRADITIONAL SYSTEM VS HYDRAULIC SYSTEM:

1. Electrohydraulic dock leveller with motor pump unit in the pit
2. Spring balanced overhead door, manual or Spring balanced overhead door, with electro- mechanic operator

- 
1. Electrohydraulic leveller WITHOUT motor into pit, with wall Console
  2. Hydraulically operated overhead door

## DOCK LEVELLER WITH MOTOR PUMP UNIT IN THE PIT:

1. Accident risks during maintenance
2. Motor pump unit in a dirty environment

## LEVELLER WITHOUT MOTOR PUMP IN THE PIT:

1. No maintenance under the leveller
2. No under the leveller maintenance - no accident risks during the maintenance
3. Electrohydraulic reliability
4. Dramatically reduced risks and costs, added value

## SECTIONALS OVERHEAD DOOR WITH SPRINGS VS HYDRAULICALLY POWERED OVERHEAD DOORS:

1. Working cycles
2. Springs re-loading
3. Springs substitution
4. Maintenance times
5. Damages - spare parts costs
6. Unaesthetic and uncleanness

1. Absence of the springs
2. Maximum reliability - 1 year warranty
3. Inspection and servicing times reduced
4. Door damaging risk nullified accident risks nullified
5. Operational efficiency and reduced down time
6. Aesthetic, cleanness and added value
7. Emergency operation

# MAINTENANCE COSTS SPRINGS VS **HYDRAULIC SYSTEM**

Working day / year

	<b>SPRINGS</b>	HYDRAULIC
Opening cycles / day	220	220
Opening cycles year	40	40
Life time without replacement (cycles)	8800	8800
Life time (years)	20.000	<b>50.000*</b>
Life time with replacement (cycles)	2,3	<b>5,7</b>
Number of replacements during the life time	500.000	500.000
	25,0	<b>10,0</b>

	<b>SPRINGS</b>	HYDRAULIC
Springs (average price for 2 springs)	480 €	X
Oil	X	80 €
Seals	X	40 €
Materials Cost for each maintenance	480 €	<b>120 €</b>
Spares costs in the life time	12.000 €	<b>1.200 €</b>

\* Tested by CSI - EN16034:2014