

HYDRA, the versatile door



safety **in** motion™

FEATURES

HYDRA: the versatile door.

Wittur Hydra is the door system designed for the maximum flexibility.



MULTIPURPOSE

Hydra is available in a wide range of executions, accessories, options to offer the best solution for any installation situation: residential buildings, public buildings, hotels.



STURDY AND RELIABLE

Reduced number of components, cathaphoresis painting of mechanism to increase corrosion resistance, sealed bearings guarantee the high reliability of Hydra, certified by endurance tests combined with load tests and confirmed by more than 1,000,000 installations all over the world.



SIMPLE MAINTENANCE

Same wear and tear components for both car door and landing door; sliding guides which can be individually replaced; easy access to each components: Hydra maintenance intervention are dramatically simple, with a lifecycle in excess of 15 years / 6 million cycles.



CERTIFICATIONS

Hydra door complies with Lift Directive 96/16/EC, EN 81-1/2 + A3:2009 standard and technical rule nr. 782 01/10/2009.

EVO version, supplied for the most common dimensions and executions, is certified according to the new norm EN 81-20/50.

Fire rated certifications include EN81-58, BS 476-22, DIN 18091, COC, GOST.



EASY INSTALLATION

Hydra door system features many adjustment possibilities on each component to adapt to shaft geometry and obtain the best installation results. It is available in disassembled or assembled version as an option.



The design of EVO version allows the use of screw guns for fast assembly. Door operators are pre-adjusted and factory tested (Plug & Play).

COMFORT, PERFORMANCE AND ENERGY EFFICIENCY

Wittur high-efficiency brushless motors with VWF vector control are designed to reduce energy consumption during operation and are equipped with 0 Watt standby mode.



Wittur drives are able to move panels of different weight installed in the same elevator thanks to their continuous mass detection features.

Rollers of specific material for each kind of application ensure the highest comfort and a reduced operating noise.

EXECUTIONS AND FINISHES

Hydra is available in a wide range of finishes and claddings and can be inserted in any architectural style.



- RAL powder painting
- Stainless steel AISI 304 or AISI 316 cladding
- Patterned stainless steel cladding, various available patterns
- Coloured stainless steel cladding, various available colours and patterns
- Plasticized metal sheet cladding, various available colours

MODERNIZATION SOLUTIONS

Hydra is the main component of a series of modernization kits for most elevator door OEM's.

Please contact Wittur for more information about the available range of kits.

FEATURES

HYDRA: the versatile door.



STANDARD AUTOMATIC LANDING DOOR

- EN 81-1/2 compliant mechanism with cataphoresis painting
- RAL 7032 powder painted frames and panels
- Aluminium sill
- Spring-activated reclosing device
- Also available with glass window on panels

AUTOMATIC LANDING DOOR WITH GLASS PANELS

- EN 81-1/2 compliant mechanism with cataphoresis painting
- Tempered laminated glass (thickness: 16.76 mm thick)
- Slam profile in methacrylate
- Aluminium sill
- Counterweight reclosing device

AUTOMATIC LANDING DOOR WITH GLASS FRAMED PANELS

- EN 81-1/2 compliant mechanism with cataphoresis painting
- Flushed glass frames prearranged for laminated glass Ante (thickness: 12.76 mm)
- Safety profiles compliant with EN 81-1/2
- Aluminium sill
- Counterweight reclosing device

DOOR FOR EXTREME ENVIRONMENT CONDITIONS

- Door lock and components in waterproof IP54 execution
- Full stainless steel execution

SPECIAL FRAMES

- Angular frames
- Tubular frames
- Ideal for the modernization of existing elevators thanks to reduced dimensions



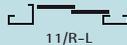
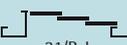
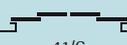
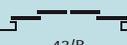
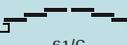


CERTIFICATIONS

HYDRA

FIRE RATED CERTIFICATION EN 81-58



TYPE	SILL WIDTH	CLASS & CERTIFICATE NO. according to EN81-58
 11/R-L	90 mm	E 15 E 30 E 45 E 60 E 90 E 120 Cert. No. GLD 427
 01/C	75 mm	
 31/R-L	136 mm	Ei 15 Ei 20 Ei 30 Ei 45 Ei 60 Cert. No. E58-012
 41/C	90 mm	
 43/R	90 mm	Ei 90 Ei 120 Cert. No. E58-003/1
 61/C	136 mm	
 65/R	136 mm	EW 20 EW 30 EW 60 Cert. No. GLD 433
 71/R-L	75 mm	



FIRE RATED CERTIFICATION EN 81-58 FOR FIRE RESISTANT DOORS WITH GLASS-FRAMED PANELS

TYPE	SILL WIDTH	CLASS & CERTIFICATE NO. according to EN81-58
 11/R-L	120 mm	E 15 E 30 E 45 E 60 E 90 Cert. No. GLD 472
 01/C	75 mm	
 41/C	120 mm	EW 20 EW 30 Cert. No. GLD 472
 43/R	120 mm	

Contact Wittur for further information about available certifications. (BS476-22, GOST, DIN18091)

CERTIFICATIONS

HYDRA

EN 81-71 VANDAL RESISTANT EXECUTION

Hydra is available in vandal resistant execution according to European Standard EN 81-71:2005 Category 1, both with standard panels and with glass framed panels.

The vandal resistant certification is also available in combination with EN 81-58 fire rated certification.

DIN 18091 EXECUTION

Hydra is available in DIN 18091 execution with double skin panels.

EXPLOSION PROOF EXECUTION (ATEX)

Hydra is available in explosion proof execution in full stainless steel with special components according to European Standard EN 1127-1:1997.

FIREFIGHTERS ELEVATORS EXECUTION

Hydra is designed to comply with European Norms EN81-72:2003 and can be inserted in firefighters elevators.

MARINE EXECUTION

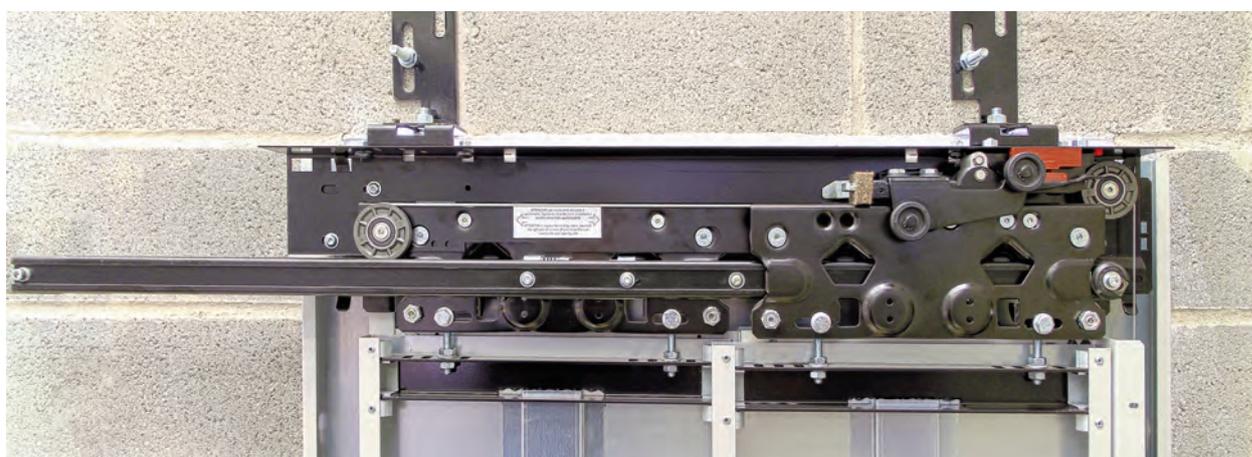
Hydra doors in marine executions are designed and manufactured to withstand extreme conditions according to Lift Directive 96/98/EC, MED (Marine Equipment Directive) and IMO (International Marine Organization) standards.



HIGH EFFICIENCY CAR DOOR OPERATOR

HYDRA PLUS

HYDRA PLUS CAR DOOR OPERATOR



Hydra car door with Wittur PLUS brushless permanent magnets synchronous motor (PMSM) offers the latest technology available on the market. Designed for low power consumption during operation and standby, Hydra PLUS with ECO+ offers a power consumption reduction up to 48% compared to previous drive designs.

Hydra PLUS is available with three high efficient drives:

- "ECO PLUS" for low traffic installations (residential, small offices)
- "MIDI PLUS" for medium-high traffic installations (public buildings, offices, prestigious buildings)
- "SUPRA" for high traffic and/or high performance installations (hotels, hospitals, public building, marine installations, prestigious buildings)

FEATURES

- EN 81-1/2 compliant mechanism with cataphoresis painting
- Pre-configured from factory - no on site adjustments (plug and play)
- Fully electronically controlled closing force
- 24 V emergency battery supply input
- Adjustable open force limitation
- Different settings for modernisation purposes
- 24 V supply output signal to light curtains or photocells
- Self-diagnostic system
- CAN-Open interface available as option on Wittur door drives
- Energy certification according to VDI 4707-2.

HIGH EFFICIENCY CAR DOOR OPERATOR

HYDRA PLUS



"ECO PLUS" drive:
for low traffic elevator (residential buildings, small offices).



"MIDI PLUS" drive:
for medium-high traffic elevators (public buildings, offices, prestigious residential buildings).



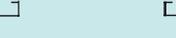
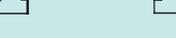
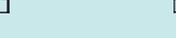
"SUPRA" drive:
for high traffic elevators (hotels, hospitals, ships, public buildings, offices, prestigious residential buildings).

Drives	ECO	MIDI	SUPRA
Motor Characteristics	AC 3 Phase Motor		
Drive	V3F - Converter		
Average Power Consumption	60W	120W	170W
Max Momentary Power Consumption	100W	550W	900W
Power Supply	Univ. (127V; 2A) \pm 20% (230V; 1A) \pm 20% 50/60Hz	Univ. (127V; 6A) \pm 20% (230V; 4A) \pm 20% 50/60Hz	Univ. (127V; 6A) \pm 20% (230V; 4A) \pm 20% 50/60Hz
Noise Level (Door Operator)	average 55 dB, max 60 dB	average 55 dB, max 60 dB	average 50 dB, max 55 dB
Protection Class	IP20	IP20, option IP54	IP20, option IP54
Regulations and Standards	EN81, PUBEL, Lift directive 95/16/EC	EN81, PUBEL, Lift directive 95/16/EC	EN81, PUBEL, Lift directive 95/16/EC
Electromagnetic Compatibility	Immunity and Emission Protection acc. EN12015/16		
Maximum Movable Masses (Car and Landing Door Panels)	130 kg	300 kg	700 kg
Passenger Protective Device	Photocell and Light Curtain (WSE PLUS - 81 or WSE PLUS - 155)		
Car Door Lock (Optional)	●		

● AVAILABLE – NOT AVAILABLE

PRODUCTION RANGE

HYDRA

POS.	SERIE	LANDING DOORS		CAR DOORS		C.O. mm.		LH mm.	
		TYPE	ILLUSTRATION	TYPE	ILLUSTRATION	Min.	Max.	Min.	Max.
DOOR WITH OPERATOR ABOVE	3201	01/C		02/C		600	1800	1900	NOTE: MAXIMUM CLEAR OPENING HEIGHT 3500 mm. - SUBJECT TO CLEAR OPENING WIDTH
		11/R		12/R		600	1800		
		11/L		12/L					
		31/R		32/R		600	2100		
		31/L		32/L					
		31/R		35/R		600	1400		
		31/L		35/L					
		41/C		42/C		1200	3200		
		43/R		44/R		600	1150		
		61/C		62/C		1500	3200		
		65/R		66/R		900	1450		
		71/R		72/R		600	1400		
		71/L		72/L					



04_mar_2014

Subject to change without notice.



WITTUR

YOUR GLOBAL PARTNER FOR COMPONENTS, MODULES AND SYSTEMS IN THE ELEVATOR INDUSTRY

Albania
Algeria
Argentina
Australia
Austria
Azerbaijan
Belarus
Belgium
Brazil
Bulgaria
China
Colombia
Croatia
Cuba
Czech Republic
Denmark
Egypt
Estonia
Finland
France
Georgia
Germany
Hong Kong
Hungary
Iceland
India
Indonesia
Iran
Iraq
Israel
Italy
Japan
Kazakhstan



Latvia
Lebanon
Liechtenstein
Lithuania
Malaysia
Mexico
Moldova
Morocco
Netherlands
Norway
Poland
Portugal
Romania
Russia
Saudi Arabia
Serbia
Singapore
Slovakia
Slovenia
South Africa
South Korea
Spain
Sweden
Switzerland
Taiwan
Tajikistan
Turkey
Turkmenistan
Ukraine
United Kingdom
USA
Uzbekistan
Vietnam

safety **in** *motion*™

www.wittur.com

More information
about Wittur Group
available on-line.

