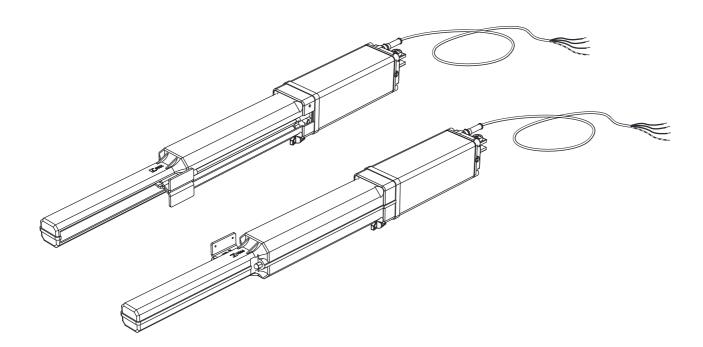


HINDI 880 SPRINT

Oil-hydraulic KIT operator for swinging gates up to 2,3 m per leaf











GENERAL WARNINGS FOR PEOPLE SAFETY

THANK YOU

Thank you for purchasing a Fadini product.

Please read these instructions carefully before using this appliance. The instructions contain important information which will help you get the best out of the appliance and ensure safe and proper installation, use and maintenance. Keep this manual in a convenient place so that you can always refer to it for the safe and proper use of the appliance.

INTRODUCTION

This operator is designed for a specific scope of applications as indicated in this manual, including safety, control and signaling accessories as minimum required with Fadini equipment. \square Any applications not explicitly included in this manual may cause operation problems or damages to properties and people. \square Meccanica Fadini S.r.l. is not liable for damages caused by the incorrect use of the equipment, or for applications not included in this manual or for malfunctioning resulting from the use of materials or accessories not recommended by the manufacturer. \square The manufacturer reserves the right to make changes to its products without prior notice. \square All that is not explicitly indicated in this manual is to be considered not allowed.

BEFORE INSTALLATION

Before commencing operator installation assess the suitability of the access, its general condition and the structure.

Make sure that there is no risk of impact, crushing, shearing, conveying, cutting, entangling and lifting situations, which may prejudice people safety.

Do not install near any source of heat and avoid contacts with flammable substances.

Keep all the accessories able to turn on the operator (transmitters, proximity readers, key-switches, etc) out of the reach of the children.

Transit through the access only with stationary operator.

Do not allow children and/or people to stand in the proximity of a working operator.

To ensure safety in the whole movement area of a gate it is advisable to install Use yellow-black strips or proper signals to identify dangerous spots.

Before cleaning and maintenance operations, disconnect the appliance from the mains by switching off the master switch.

If removing the actuator, do not cut the electric wires, but disconnect them from the terminal box by loosening the screws inside the junction box.

INSTALLATION

All installation operations must be performed by a qualified technician, in observance of the Machinery Directive 2006/42/CE and safety regulations EN 12453 - EN 12445.
Verify the presence of a thermal-magnetic circuit breaker 0,03 A - 230 V - 50 Hz upstream the installation.
Use appropriate objects to test the correct functionality of the safety accessories, such as photocells, sensitive edges, etc.
Carry out a risk analysis by means of appropriate instruments measuring the crushing and impact force of the main opening and closing edge in compliance with EN 12445.
Identify the appropriate solution necessary to eliminate and reduce such risks.

□ In case where the gate to automate is equipped with a pedestrian entrance, it is appropriate to prepare the system in such a way to prohibit the operation of the engine when the pedestrian entrance is used. □ Apply safety nameplates with CE marking on the gate warning about the presence of an automated installation. □ The installer must inform and instruct the end user about the proper use of the system by releasing him a technical dossier, including: layout and components of the installation, risk analysis, verification of safety accessories, verification of impact forces and reporting of residual risks.

INFORMATION FOR END-USERS

The end-user is required to read carefully and to receive information concerning only the operation of the installation so that he becomes himself responsible for the correct use of it.

The end-user shall establish a written maintenance contract with the installer/maintenance technician (on -call).

Any maintenance operation must be done by qualified technicians.

Keep these instructions carefully.

WARNINGS FOR THE CORRECT OPERATION OF THE INSTALLATION

For optimum performance of system over time according to safety regulations, it is necessary to perform proper maintenance and monitoring of the entire installation: the automation, the electronic equipment and the cables connected to these.

The entire installation must be carried out by qualified technical personnel, filling in the Maintenance Manual indicated in the Safety Regulation Book (to be requested or downloaded from the site www.fadini.net/supporto/downloads).

Operator: maintenance inspection at least every 6 months, while for the electronic equipment and safety systems an inspection at least once every month is required.
The manufacturer, Meccanica Fadini S.r.l., is not responsible for non-observance of good installation practice and incorrect maintenance of the installation.

DISPOSAL OF MATERIALS

Dispose properly of the packaging materials such as cardboard, nylon, polystyrene etc. through specializing companies (after verification of the regulations in force at the place of installation in the field of waste disposal). Disposal of electrical and electronic materials: to remove and dispose through specializing companies, as per Directive 2012/19/UE. Disposal of substances hazardous for the environment is prohibited.



Director in charge

CE DECLARATION OF CONFORMITY of the manufacturer:

Meccanica Fadini S.r.l. (Via Mantova, 177/A - 37053 Cerea - VR - Italy) declares under own responsibility that: **Hindi 880 Sprint** complies with the 2006/42/CE Machinery Directive, and also that it is sold to be installed in an "automatic system", along with original accessories and components as indicated by the manufacturing company. An automatic gate operator is, by law, a "machinery" and therefore the installer must fit the equipment with all of the applicable safety norms. The installer is also required to issue the installer's Declaration of Conformity. The manufacturer is not liable for possible incorrect use of the product. The product complies with the following specific norms: analysis of the risks and subsequent action to cure them as per EN 12445 and EN 12453, Low Voltage Directive 2014/35/UE, Electromagnetic Compatibility 2014/30/UE. In order to certify the product, the manufacturer declares under own responsibility the compliance with the EN 13241-1 PRODUCT NORMS.

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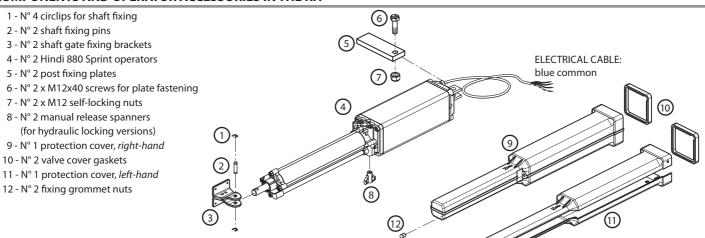
Pic. 1

GENERAL DESCRIPTION OF THE PRODUCT

HINDI 880 SPRINT is an oil-hydraulic operator for external applications, designed to open and close swinging gates. It is an oil-hydraulic product and has, therefore, all the advantages and reliability that hydraulic units ensure in smoothness of movements. The valves controlling high and low pressure are adjustable to meet any requirements with swinging gates.

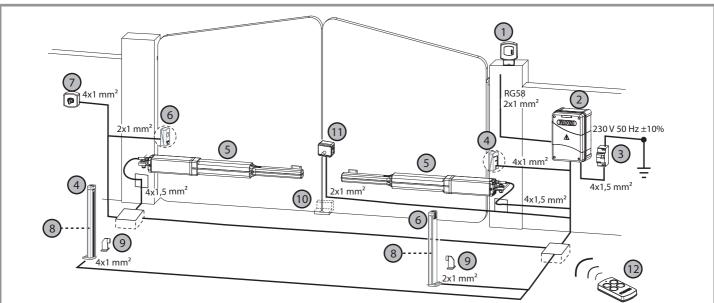
HINDI 880 SPRINT is available in various options, bidirectional locking, locking in closed gate position or non locking ie. reversible and the operator can be operated by hand. For the operator to work automatically, an external electronic control board is needed and is to be installed in a sheltered place. Automatic or semiautomatic operations are possible to meet the site requirements. A range of accessories ensure safe and easy operations and turn this operator into an extremely versatile unit for public and private applications.

COMPONENTS AND OPERATOR ACCESSORIES IN THE KIT

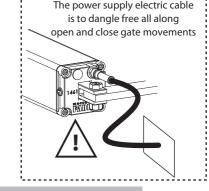


GENERAL WIRING DIAGRAM AND ACCESSORIES

Before installing Hindi 880 Sprint, carry out the preparatory work for at least the minimum safety and commad accessories. General layout: it is the installer's care to properly lay the pipes and tubes required for the connections.



- 1 Flasher (in the kit)
- 2 Controller item 7047L with plug-in receiver (in the kit)
- 3 230 V 50 Hz 0,03 A magneto-thermal differential circuit breaker (not included) (2,5 mm² cable section beyond 100 m)
- 4 Photocell receiver (only one pair in the kit)
- 5 Hindi 880 Sprint
- 6 Photocell transmitter (only one pair in the kit)
- 7 Key-switch (in the kit)
- 8 Post for photocell
- 9 Open gate stop (mandatory, not included)
- 10 Close gate stop (mandatory, not included)
- 11 Electric lock required if Hindi 880 Sprint non locking (reversible) version is mounted (not in the kit)
- 12 Transmitter (in the kit)





IMPORTANT: gate stops in open and closed gate positions are absolutely required for the correct functioning of Hindi 880 Sprint.

Pic. 2

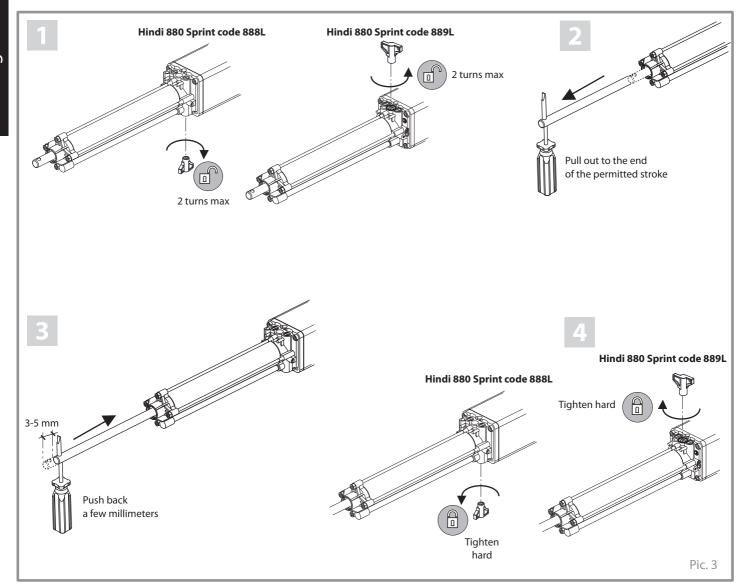




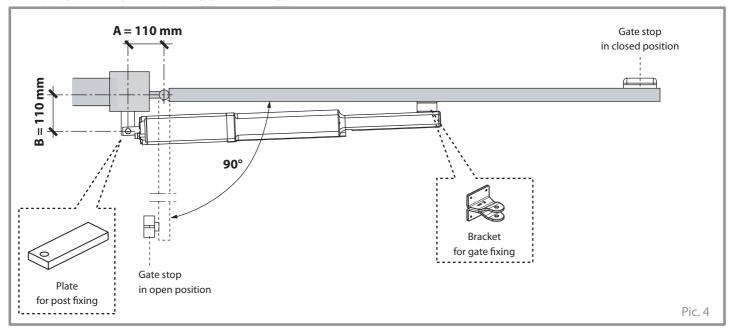
FIRST OPERATIONS TO PULL THE SHAFT OUT

HINDI 880 SPRINT

Before fixing the operator to the gate and gate post, pull the shaft out (Pic. 3). Release by the spanner provided with the equipment (version with hydraulic locking valve); with the non locking (reversible) version, this operation is not required.



FIXING GEOMETRY FOR THE GATE TO OPEN INWARDS

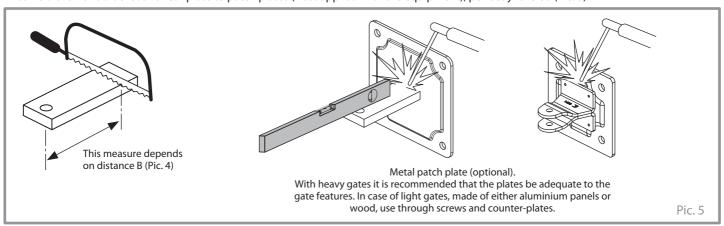






FIXING PREPARATION

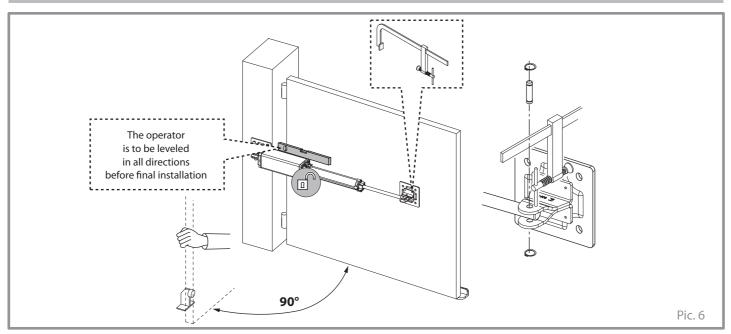
First weld the front bracket and rear plate to patch plates (not supplied with the equipment), perfectly leveled (Pic. 5).





It is advised to temporary fasten Hindi 880 Sprint operator to the gate by clamps and make sure it is perfectly leveled.

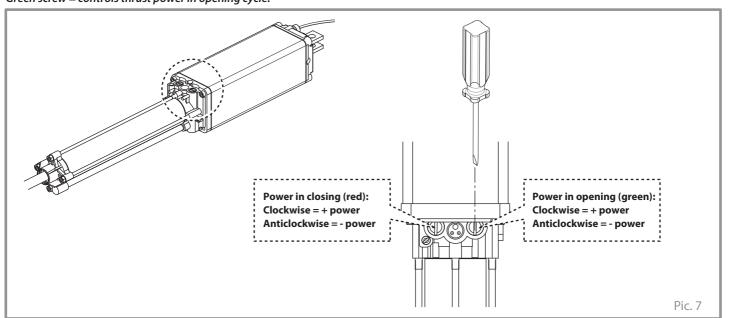
Then release the operator and open and close the gate by hand to asses correctness of the installation distances and get 90° opening.



ADJUSTING THRUST POWER

To adjust thrust power in opening and closing unscrew or tighten the adjusting screws under the protection cover (Pic. 7). Red screw = controls thrust power in closing cycle.

Green screw = controls thrust power in opening cycle.







TECHNICAL SPECIFICATIONS OIL-HYDRAULIC OPERATOR AND HYDRAULIC PUMP

OLE TITO MODELE OF ENVIRONMENT FIND MODELE FORM					
Working pressure	10 atm (max 35 atm)				
Opening/closing linear speed	~15 mm/s				
Opening thrust power	0 ÷ 5.100 N				
Closing thrust power	0 ÷ 6.200 N				
Oil type	Oil Fadini - Item 708L				
Piston stroke	235 mm				
Piston diameter	45 mm				
Shaft diameter	16 mm				
Working temperature	-25 °C +80 °C [A]				
Weight complete with accessories	9,5 kg				
Max. gate weight per leaf	400 kg				
Max. gate width per leaf	2,3 m				
Protection standards	IP 67				
Overall dimensions (length x width. x height.)	980x86x86 mm				
[A] 40.0C ::	16 . 1				

ELECTRIC MOTORS

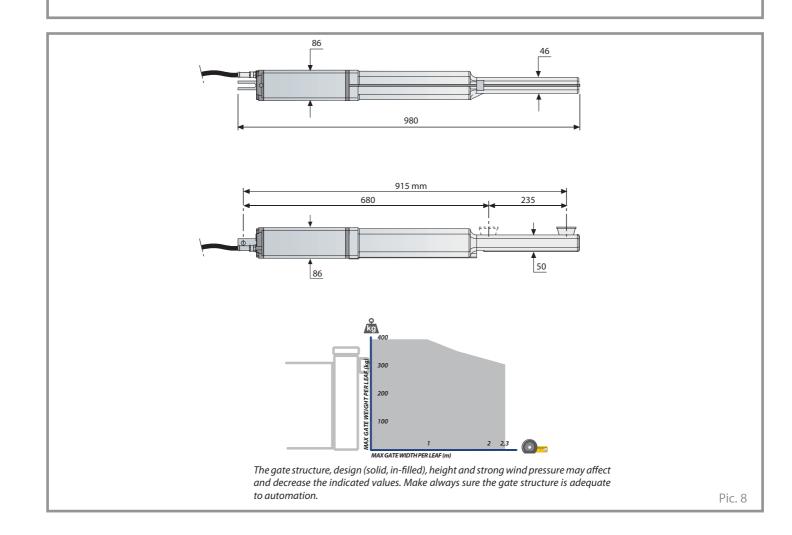
Power output	0,18 kW (0,25 HP)			
Supply voltage	230 Vac			
Frequency	50 Hz			
Absorbed current	1,2 A			
Absorbed power	250 W			
Capacitor	12,5 μF			
Motor rotation speed	1.350 rpm			
Intermittent service	S3			

[A]: -40 °C with specific optional accessories (Ref. General Catalogue).

NOTE: It is always recommended to install an electric lock with gate leafs wider than 2,0 m.

PERFORMANCE

Frequency of use	intensive
Service cycle	16 s opening - 20 s dwell - 18 s closing - 20 s dwell
Complete cycle time	74 s
Complete opening - dwell - closing - dwell cycles	No. 50/hour



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MAINTENANCE RECORD hand over to the end user of the installation									
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	tallation type:			_	Operator model:		Quantity of models installed:		
	ding gate	M	Folding door	<u> </u>	Dimensions per gate leaf				
	inging gate	A	Road barrier	_	Dimensions per gate leaf	•			
	er-head door eral folding or		Bollard		Weight per gate leaf: Ins		Installation	Installation date:	
NOTE WELL: this document must record any ordinary and extraordinary services including installation, maintenance, repairs and replacements to be made only by using Fadini original spare parts. This document, for the data included in it, must be made available to authorized inspectors/officers, and a copy of it must be handed over the end user/s. The installer/maintainer are liable for the functionalities and safety features of the installation only if maintenance is carried on by qualified technical people appointed by themselves and agreed upon with the end user/s.									
N°	Service date		Service (desci	ription	Technical	lmaintainer	End user/s	
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	installation technician/maintainer end user buyer								



hand over to the end user of the installation





GUIDANCE FOR PROPER USE (for the end user)

WARNINGS

- Transit across the gate is allowed only if motor is stopped; stand at safe distance during opening and/or closing cycles of the gate.
- Do not touch any components of the system while the operator is working.
- Do not allow children and/or people to stand in the proximity of a working operator.
- Keep all the accessories able to turn on the operator (transmitters, proximity readers, key-switches, etc.) out of the reach of the children.
- Do not run the system in case of anomalies.

DISPOSAL OF MATERIAL: dispose properly of the packaging materials such as cardboard, nylon, polystyrene etc. through specializing companies (after verification of the regulations in force at the place of installation in the field of waste disposal). Disposal of electrical and electronic materials: to remove and dispose through specializing companies, as per Directive 2012/19/UE. Disposal of substances hazardous for the environment is prohibited.

MAINTENANCE

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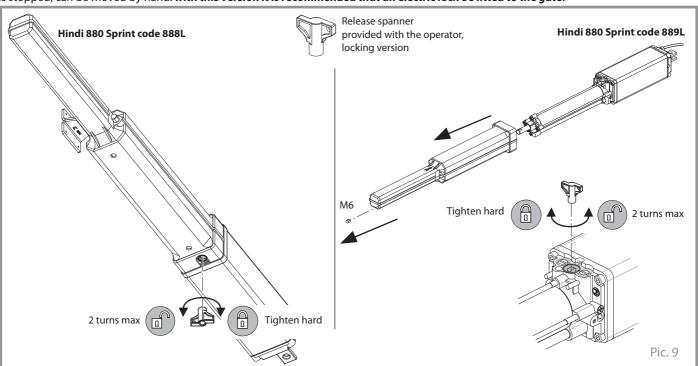
Advice for the end user:

- clear the site of materials that may have deposited in the equipment and hinder its correct functioning (such as rests of insects, foliage, stones, etc.); before carrying out this operation, switch off voltage supply;
- clean regularly the equipment by using a damp cloth. Do not use flammable substances such as alcohol, solvents or benzene: these substances may cause explosions and/or damage the system.

Actuator releasing for manual operations of the gate

With the version *Hindi 880 Sprint with hydraulic locking device (bidirectional or in closed gate position only)*, it is required that the unit be released by means of the provided spanner.

With the version *Hindi 880 Sprint without hydraulic locking device (reversible)*, there's no need to release by spanner; the gate, once motor is stopped, can be moved by hand: *with this version it is recommended that an electric lock be fitted to the gate*.



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