

Электромеханические пружинные тормоза серии КТН

Инструкция по сборке

По вопросам продаж и поддержки обращайтесь:

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1- Symbols

Symbol	Meaning	Description
	DANGER!	Danger of personal damage caused by a general source of danger It refers to an imminent danger that could give place to serious personal damage or death if the correspondent measures of protection are not respected.
	RISK OF ELECTROCUTION!	Danger of personal damage caused by high electrical voltage It refers to an imminent danger that could give place to serious personal damage or death if the correspondent measures of protection are not respected.
	STOP!	Danger of property damage It refers to an imminent danger the could give place to property damage, if the correspondent measures of protection are not respected.
	NOTE!	Important note to ensure troublefree operation
	TIP!	Useful tip for simple handling

2- General Alerts

	FEEDING VOLTAGE	The brake feeding voltage may vary of a $\pm 6\%$ in observance to the nominal tension signed on the label. The electromagnet requires a tension near the nominal value: an insufficient tension may cause a general bad working of the brake.
	ROOM TEMPERATURE	The room temperature for the brake correct working is between 5°C and 40°C. Call technical office for different or further requirements.

3- Toolbox

To follow without troubles the following manual, you need the following tools:



Wrench set



Allen key set





Thickness gauge set




	USE STANDARD KEYS	Use standard keys only, without the help of extensions to have a correct bolts and nuts tightening.
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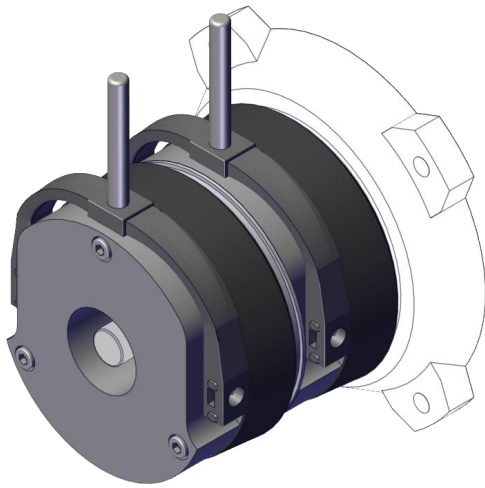
4- Static Torque Values

	K02TH	K03TH	K04TH	K05TH	K06TH	K07TH	K08TH	K09TH
Nominal Static Torque per single brake [Nm]	8	12	16	35	55	90	150	250

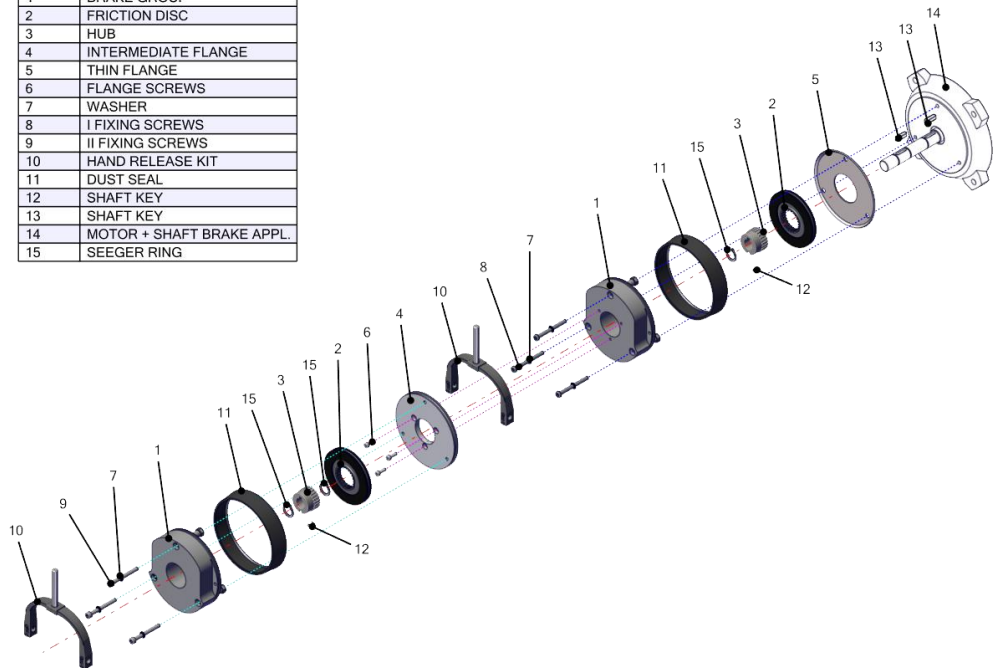
	BRAKE RUNNING-IN	The braking static torque value of the brake without the running-in period may have up to -20% of the plate value and up to -35% with the special antisticking friction material. Always run-in the brake before use		The values in the chart are approximate. Real torque values must be always verified by measurement
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5- Installation and Regulation

	KEEP METICULOUSLY THE DIRECTIONS ON THE PRESENT MANUAL	Adjusting operations carried out without following the operations of this manual, lead to a bad brake working.
	DISCONNECT THE BRAKE FROM POWER SUPPLY	Carry out the inspection, servicing and adjusting operations only after the brake electrically disconnection.
	SURFACES CLEANING	Good plane and braking surfaces cleaning, by using de-greasers that do not leave oily wasters, is necessary for good brake performance

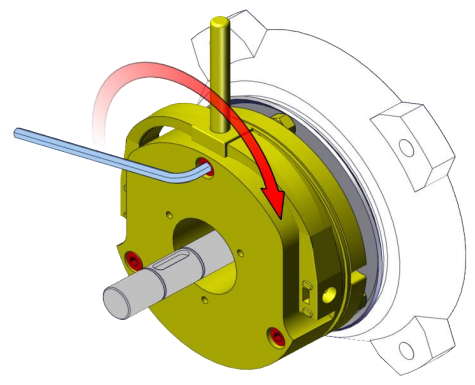
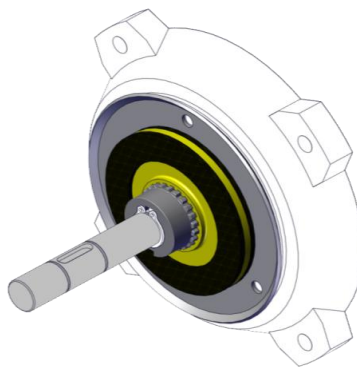
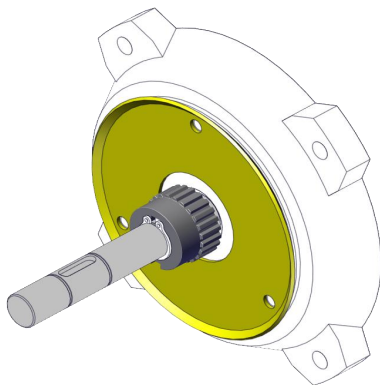
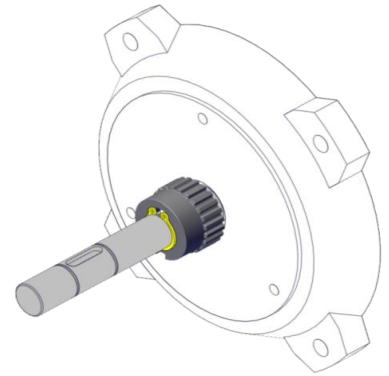
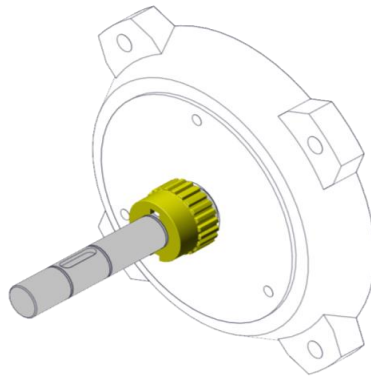
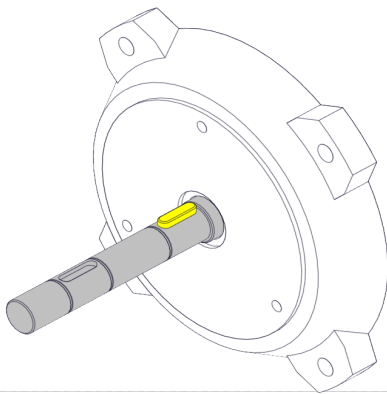


ID BOM	Description
1	BRAKE GROUP
2	FRICTION DISC
3	HUB
4	INTERMEDIATE FLANGE
5	THIN FLANGE
6	FLANGE SCREWS
7	WASHER
8	I FIXING SCREWS
9	II FIXING SCREWS
10	HAND RELEASE KIT
11	DUST SEAL
12	SHAFT KEY
13	SHAFT KEY
14	MOTOR + SHAFT BRAKE APPL.
15	SEEGER RING



MOTOR PART NOT SUPPLIED BY TEMPORITI SRL

Temporiti srl does not supply motor parts as n-shield, shaft, fan cover, shaft key, hub seeger and sealing ring



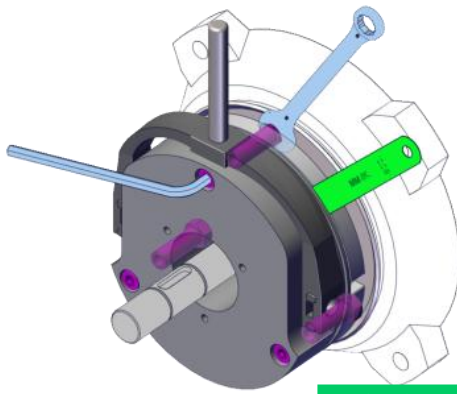
Remove

Install

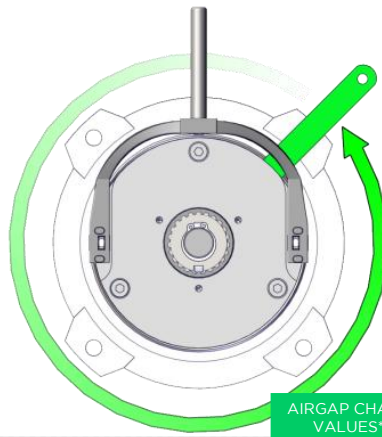
Adjust

Measure

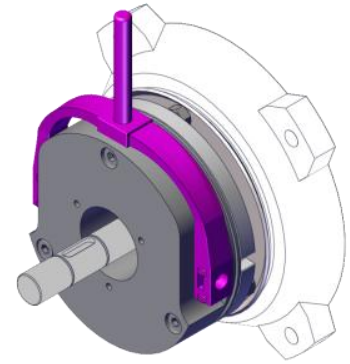
Torque



AIRGAP CHART
VALUES*



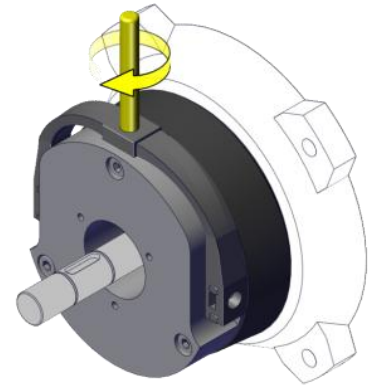
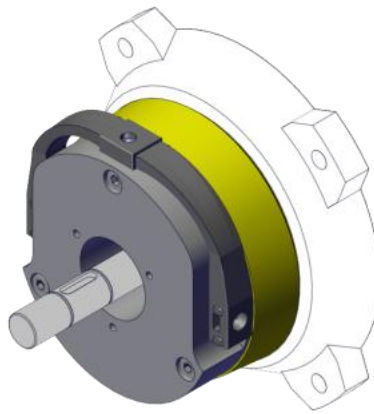
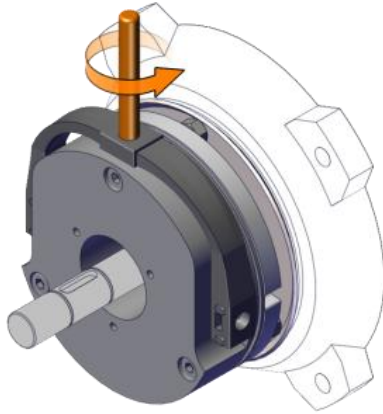
AIRGAP CHART
VALUES*



To choose the right thickness gauges dimensions, following the chart at point 5.2, page 7 and use starting airgap value as thickness gauge dimension for this step

To choose the right thickness gauges dimensions, following the chart at point 5.2, page 7 and use control airgap value as thickness gauge dimension for this step

Adjust hand release system following the point 6, page 9



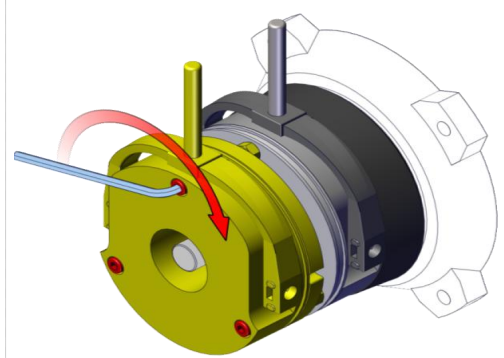
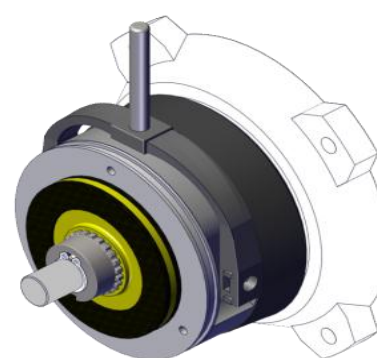
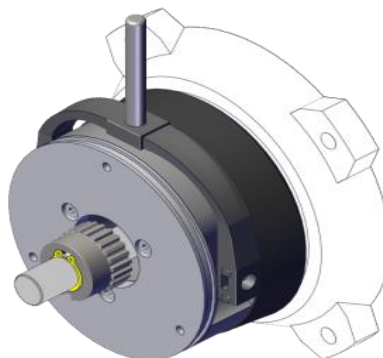
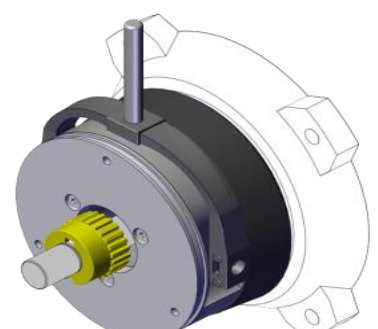
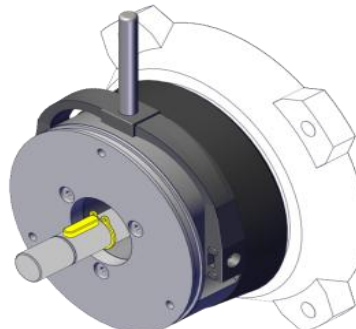
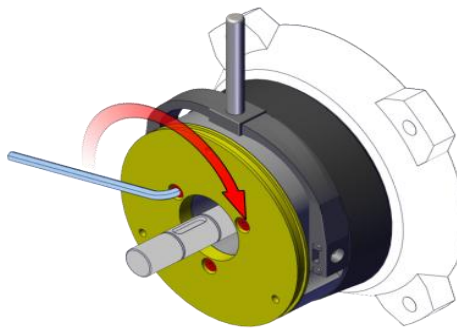
Remove

Install

Adjust

Measure

Torque



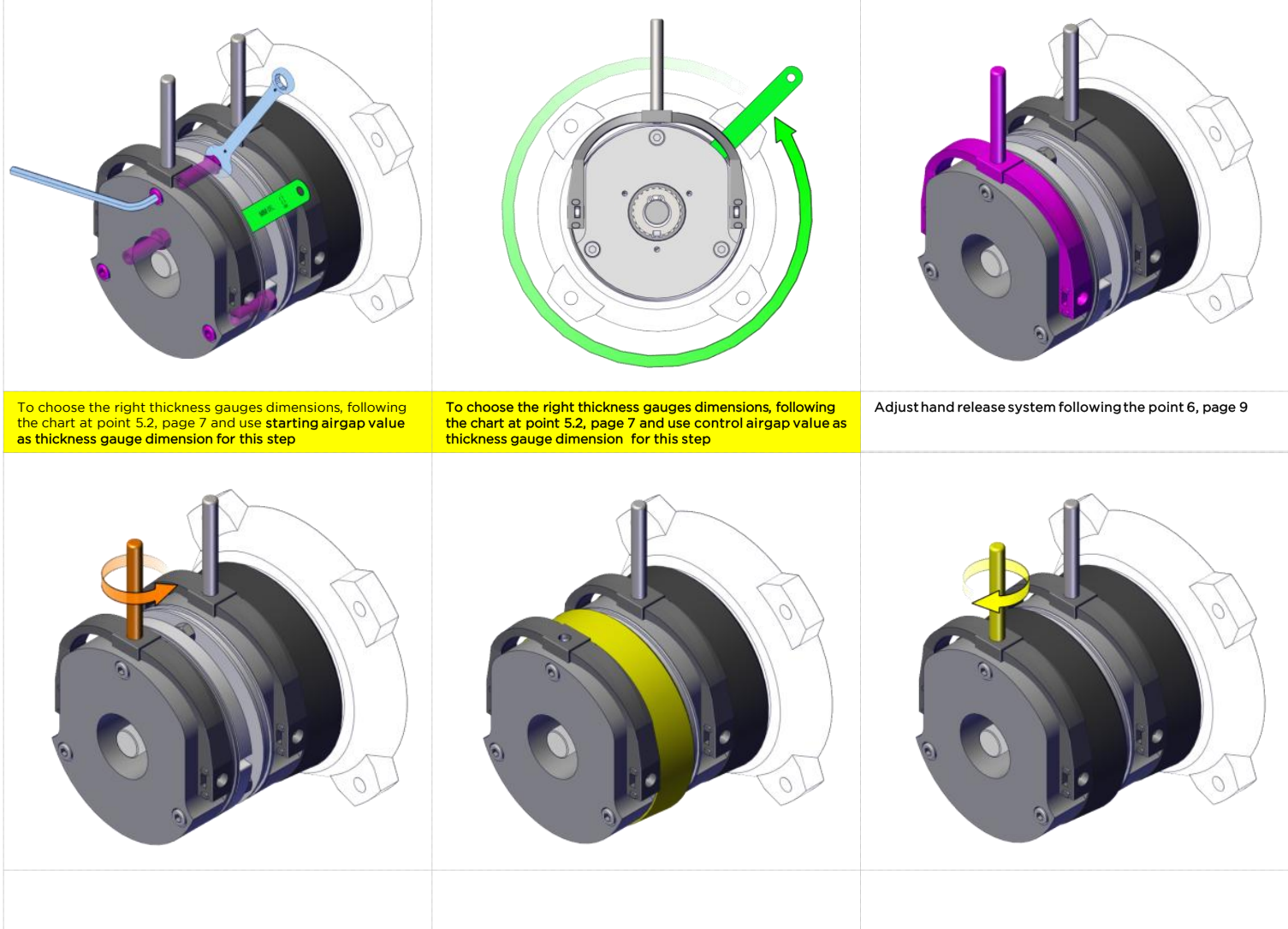
Remove

Install

Adjust

Measure

Torque



To choose the right thickness gauges dimensions, following the chart at point 5.2, page 7 and use starting airgap value as thickness gauge dimension for this step

To choose the right thickness gauges dimensions, following the chart at point 5.2, page 7 and use control airgap value as thickness gauge dimension for this step

Adjust hand release system following the point 6, page 9

Remove Install Adjust Measure Torque

5.2- Airgap values

AIRGAP CHART

K02TH		K03TH		K04TH		K05TH		K06TH		K07TH		K08TH		K09TH	
CONTROL		CONTROL		CONTROL		CONTROL		CONTROL		CONTROL		CONTROL		CONTROL	
0.20 GO - 0.25 NO GO		0.20 GO - 0.25 NO GO		0.20 GO - 0.25 NO GO		0.20 GO - 0.25 NO GO		0.20 GO - 0.25 NO GO		0.20 GO - 0.25 NO GO		0.20 GO - 0.25 NO GO		0.20 GO - 0.25 NO GO	
STARTING	MAX	STARTING	MAX	STARTING	MAX	STARTING	MAX	STARTING	MAX	STARTING	MAX	STARTING	MAX	STARTING	MAX
0.20	0.50	0.20	0.50	0.20	0.70	0.20	0.70	0.20	0.70	0.20	0.70	0.20	0.70	0.20	0.70



MAX AIRGAP VALUE

Max airgap value is the airgap value for which, once reached, it is compulsory restore to starting airgap value

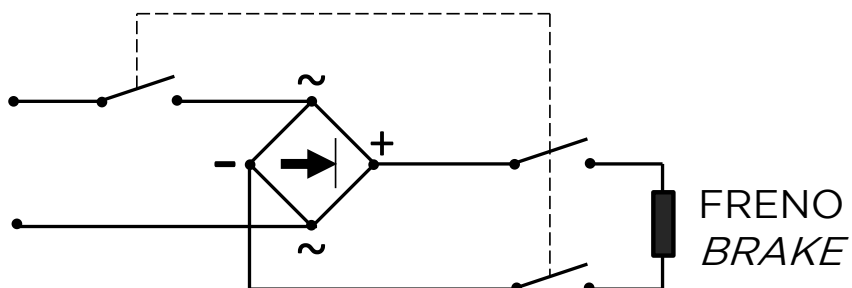


THICKNESS GAUGE POSITIONING

For a correct airgap measuring, the thickness gauge has to be positioned in correspondence of the magnet surface and not on the external border of the magnet container or resin

5.3- Electrical connection

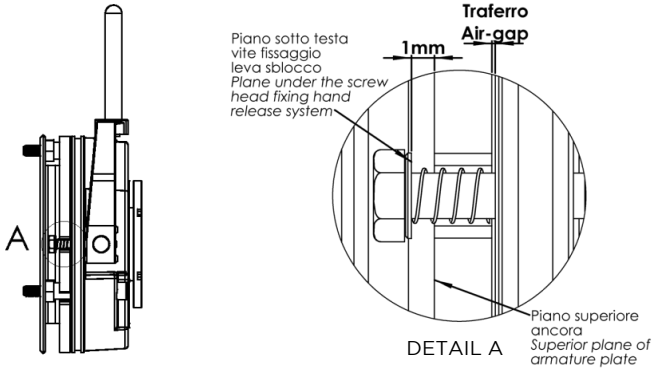
Connect the brake to motor following the following schema:



6- Hand release system adjusting

Manual release allows manual and temporary release of the brake. After the manoeuvre, the device returns to its original position.

By acting on the hexagonal screw with a standard hexagonal wrench, screw/unscrew the same screw, so that the distance between the surface under the head of the blocking screw, including the washer, and the top surface of the armature plate is of about 1mm.



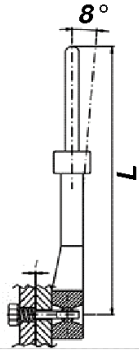
The free stroke of the lever expressed in millimeters (mm) corresponds to a shift of about 8° of the same lever: the unhooking phase and consequent release of the brake must take place after this excursion

	K02TH	K03TH	K04TH	K05TH	K06TH	K07TH	K08TH	K09TH
Free stroke without strain [mm]	6	6	6	6	8	8	9	9
Maximum strain on the lever [kg]	3,5	4,5	11	11	12	17	19,5	24



BLOCKING SCREWS OF THE RELEASE LEVER SUPPLIED WITH NON ACTIVE THREADLOCKER

The fixing screws of the release lever are only partially screwed by Temporiti srl and have a part of threadlocker, which activates, on the remaining thread, carrying out the mentioned function, only after the adjusting of the distance of , by the installer: verify the presence of threadlocker at each further adjusting and replace if necessary (Loctite medium strength 243 o equivalent threadlocker suggested).



7-Servicing

A frequent brake inspection is necessary for all parts as the wear depends on a series of factors and mainly on the load inertia, the shaft speed and the operation frequency. Verify the main parts of the brake group and, in case, replace them with original spare parts supplied by Temporiti SRL. Servicing may be roughly determined according to what is pointed out on the site.

7.1- Braking torque regulation

The disc must be replaced after a consumption of 1,5mm per friction material ring, that is when the minimum total thickness value is reached.

Disc replacement thickness limit - B [mm]								
BRAKE SIZE	K02TH	K03TH	K04TH	K05TH	K06TH	K07TH	K08TH	K09TH
THICKNESS LIMIT [mm]	8	8	8	8.8	8.8	10	10.6	10.8



8-Disposal and recycle information



Recycle in eco-friendly way the packaging, metals and all the parts of no longer working brakes.
DO NOT THROW USED ELECTROBRAKES, OR PARTS THEREOF IN THE HOUSEHOLD RUBBISH!

Dispose separately from household rubbish the friction material (asbestos-free) after removing it from the metal part of the disk with a proper tool. Remove the resin from the electromagnet with a proper tools and dispose of it in accordance with current law regulations. According the European Directive 2002/96/CE on waste electrical and electronic equipments (RAEE) and its implementation of national law, the electrical equipments no longer usable must be collected separately and must be sent to a recycling step

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