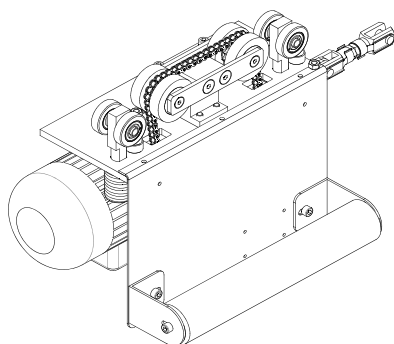


INSTALLATION, OPERATION & MAINTENANCE MANUAL .H120



Model Number:
Serial Number:
Voltage:
Capacities:
Purchase Date:



Prologue:

On the instructions:

The instructions have been written so as to facilitate the use of Power Driven Trolley as much as possible. The information on this form has been checked carefully for their accuracy. However, there is not given guarantee for the correctness of the contents. The information on this form may change without notice.

Copyright:

This document contains information protected by the laws of copyright and includes patents. All the rights of this document belong to the maker company. No part of this form can not be published with any mechanical, electronic or otherwise, in any form, without the previous consent of NIKO.

Brands:

All brands (and their logos) are property of their owners.

NIKO is a brand name of Helm Hellas SA and will be used from herein to describe the company.

Official manufacturer:



HELM HELLAS S.A.
82 Km Athens – Korinthos P.O. Box 209 GR 20100 Korinthos
Tel: 0030 (0) 2741085803-6 Fax: 0030 (0) 2741025368
e-mail: info@niko.eu.com
www.niko.eu.com

	 DANGER Read and fully understand operator's manual and all other safety instructions before using this equipment. Failure to follow operating instructions could result in serious <u>injury</u> or even <u>death</u>.	
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INSTALLATION, OPERATION & MAINTENANCE of Power Driven Trolley

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Copyright

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ANNEX

GUARANTEE

BASIC RULES FOR SAFETY - OPERATION



General hazard



Electrical hazard

Before first use read the instructions carefully

“NIKO®” does not wire the control panel and power driven trolley(s) (included are only the plug in connections and the pendant control system with a 4 m cable) unless is requested by the customer. Some principle safety standards referring to installation, maintenance and operation of the Power Driven Trolley are as follows. (Please note, this list is not exhaustive).

GENERAL RULES AND GUIDELINES

At all stages of installation, operation and maintenance of a “NIKO®” Power Driven Trolley and Carriage System all the safety rules, in accordance with the laws and regulations of each country, should be followed along with the following basic rules:

- Before any work starts, this manual has to be read and understood.
- Any personnel involved with the Power Driven Trolley's installation, operation or maintenance should know where this manual is kept.
- Only trained personnel must be involved with installation, maintenance and operation.
- The area where Power Driven Trolley is installed must be well marked up.
- The personnel involved with installation, maintenance or operation of the Power Driven Trolley must wear appropriate clothing (e.g. helmet, proper shoes etc.).
- Once the installation has been completed, a supervisor must check the proper installation and that the Power Driven Trolley works correctly.
- No modifications on the product are allowed.

BASIC RULES FOR SAFETY - OPERATION

SYMBOL	WARNING
	IMPORTANT! THE POWER DRIVEN TROLLEY MUST ONLY BE USED FOR TRANSFERRING LOADS AND NOT FOR PERSONNEL MOVING
	This product is to be installed 3 m. or more from walking level!
	Only trained personnel must be involved with installation, operation or maintenance of this product.
	Before commencing operation of the power driven trolley or carriage system, its area of movement must be well marked (i.e. warning signs, floor marking etc.).
	ANY PERSONNEL INVOLVED WITH THE INSTALLATION, OPERATION OR MAINTENANCE SHOULD AT ALL TIME WEAR APPROPRIATE CLOTHING (i.e. Helmet, proper shoes etc.).

- All personnel must be made aware of the meaning of warning signs, audible or acoustic or both warnings that will be installed with this product.
- Before any action for installation, operation or maintenance is undertaken this manual should be read and fully understood.

BASIC RULES FOR SAFETY - OPERATION

INSTALLATION – COMMISSIONING RULES AND GUIDELINES:

SYMBOL	WARNING
	Installation must be performed according to chapter 3 “Installation” of this manual.
	If at any point of installation a fitting is not accurate contact our company’s qualified personnel AND DON’T ATTEMPT TO FIX THE FITTING.
	If any abnormal noises or behavior occur during first commissioning follow the installation instructions if the problems persist contact our company’s qualified personnel.
	Before commissioning, all bolts and nuts must be tightened properly, unnecessary cables and hoses must be removed and all safety devices must be placed correctly and their working status checked.
	The carriage system or power driven trolley must not operate if all the track end stops are not installed properly!
	Before commissioning the lifting system (if any) and the carriage system or power driven trolley both must be checked according to the manufacturers’ recommendations (for carriage system or power driven trolley see chapter 3 “installation”).

BASIC RULES FOR SAFETY - OPERATION

OPERATION RULES AND GUIDELINES:

In particular, the rules below should be followed during operation:

BEFORE OPERATION:

- Operation may start once the operator has verified that there is no instruction to the contrary (e.g. a sign to inform that the Power Driven Trolley is off).
- Before operation starts, all the bolts and nuts must be tightened properly, unnecessary cables or hoses must be removed, and all safety devices should have been placed correctly.
- Any lifting device has been checked as the manufacturer recommends.
- Before the operator begins any kind of usage he must make sure that there are no obstructions, warning signs or anything that would suggest otherwise.

SYMBOL	WARNING
	The working area must be free of obstacles.
	The working area must be clear of all unauthorized personnel.

DURING OPERATION:

SYMBOL	DANGER
	THE CARRIAGE SYSTEM OR POWER DRIVEN TROLLEY MUST NEVER TRANSPORT LOADS THAT EXCEED THE MAXIMUM LOAD!
	DO NOT leave a load unattended.
	WARNING
	The power driven trolley must never lift a load which is not under control.

BASIC RULES FOR SAFETY - OPERATION

- Where there is a power failure, the operator should disable all the devices.
- Both the power driven trolley and its load should always be under the control of the operator.
- The operator must be able to reach the controls easily.
- The operator must comply with the instructions given by a competent person and not by any untrained personnel. The operator should only respond to general workers when they are giving an emergency signal.
- Under no circumstances should loads be operated above people.
- A power driven trolley must not be used to make a sideways pull.
- Compressed gases can only be lifted by a cradle or enclosed platform.
- Before any transportation of a load, ensure that it is well balanced and secured.
- Multiple lines must never be twisted around each other.
- Ensure there is no sudden acceleration or deceleration of the moving load.
- The power driven trolley must not operate if all the track end stops are not installed properly.
- The track end stops must never be hit with force or repetitively at speed.

If any unusual sound or behavior becomes apparent, the operation of the power driven trolley must stop immediately. In this case a detailed inspection must be done.

- When there is a power failure, the operator must disable all devices.
- The attached load must always be under the control and eye contact of the operator.
- The operator must have a clear view and be within hearing range to the moving acoustic and visible signs.
- The operator must always be within reach of the controls.
- The operator must comply with the instructions given by an authorized person (i.e. load supervisor) and only respond to emergency signals given by others.
- The carriage system and power driven trolley are not designed for sideways pulls.

BASIC RULES FOR SAFETY - OPERATION

SYMBOL	DANGER
	Loads must never be operated, transported or allowed to hover over people or animals.
	Compressed gases can only be lifted by a cradle or enclosed platform.
	WARNING
	Before any transportation of a load ensure that it is well balanced and secured.
	Ensure there is no sudden acceleration or deceleration of the moving load.
	If attachment lines (i.e. chains, hoisting mechanisms) are used make sure they don't get tangled or twisted together.
	The track end stops must never be hit with force or repetitively at speed.
	If any abnormal sound or behavior becomes apparent, the operation of the carriage system or power driven trolley must stop immediately. A detailed inspection must be performed.

- At all stages of installation, operation and maintenance of “NIKO®” Power Driven Trolley, all the safety rules in accordance with the laws and regulations of each country should be followed.
- Some principle safety standards referring to installation, maintenance and operation of the Power Driven Trolley are as follows. (Please note, this list is not exhaustive).
- Before any work starts, this manual has to be read and understood.
- Any personnel involved with the Power Driven Trolley's installation, operation or maintenance should know where this manual is kept.
- Only trained personnel must be involved with installation, maintenance and operation.
- The area where Power Driven Trolley is installed must be well marked up.
- The personnel involved with installation, maintenance or operation of the Power Driven Trolley must wear appropriate clothing (e.g. helmet, proper shoes etc.).
- Once the installation has been completed, a supervisor must check the proper installation and that the Power Driven Trolley works correctly.
- No modifications on the product are allowed.

BASIC RULES FOR SAFETY - OPERATION

The minimum qualifications for an employee selected to operate the system or power driven trolley are as follows:

- Have understood all the safe operating instructions in this manual.
- Have good or corrected vision (to the standard required for a driver's license)
- Be physically able to operate equipment.
- Have good coordination between eyes, hands, and feet.
- Have had no episodes of epilepsy, seizures or other ailments that may render them unconscious
- Have the ability to understand signs, labels, and instructions.
- Must be re-examined for these qualifications at least once every 3 years.

SYMBOL	WARNING
	DO NOT operate the trolley unless you are physically fit and trained to do so.

All the above should never replace the legislation of any country.

1 SYMBOLS IN THIS MANUAL

Important notes for your safety are distinctively marked.

Give full attention to avoid accidents and damage to the truck-mixer kneading:

	WARNING	Warns you about the health and indicates possible risks of injury
	ATTENTION	Indicates possible risks to the machine or other objects.
	NOTE	Highlights tips and information for you

Special Safety Instructions for Power Driven Trolley:

	NOTE	SAVE THESE INSTRUCTIONS
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1 SYMBOLS IN THIS MANUAL

1.1. Disclaimers

NIKO shall not be liable of any responsibility concerning the installation and if security regulations during/after installation and during usage are not followed.

1.2 Disclaimer of Warranty

All sales are subject to the NIKO Standard Terms and Conditions of Sale (Revision 101707), a copy of which is available at www.niko.eu.com or upon request from NIKO Customer service/sales representatives and the terms of which are incorporated as if fully rewritten herein.

1.3 Disclaimer of Liability

User specifically understands and agrees that NIKO its successors, assigns, officers, agents, employees and members shall not be liable in tort and in contract—whether based on warranty, negligence, strict liability, or any other theory of liability—for any action or failure to act in respect to the recommended operation or inspection or other characteristics of anything covered in this manual. By using or otherwise employing this manual, it is the user's intent and understanding to absolve and protect NIKO its successors, assigns, officers, agents, employees and members from any and all tort, contract, or other liability.

1.4 Indemnity

By referring to, or otherwise employing this manual the user agrees to defend, protect, indemnify, and hold NIKO, its successors, assigns, officers, agents, employees and members harmless of, from and against all claims, losses, expenses, damages and liabilities, direct, incidental or consequential, arising from use of this manual including loss or profits and reasonable counsel fees, which may arise out of the use or alleged use of such manual, it being the intent of this provision and of the user to absolve and protect NIKO, its successors, assigns, officers, agents, employees and members from any and all loss relating in any way to this manual including those resulting from their own negligence.

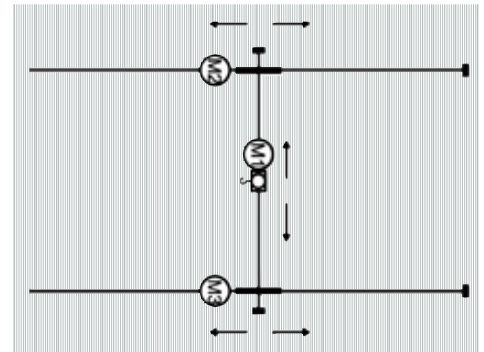
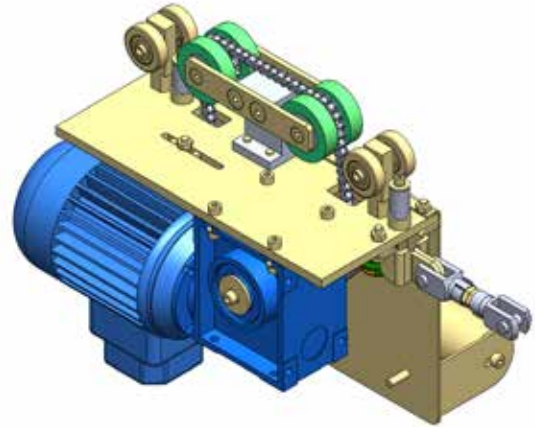
2.1 General description

Light cranes & straight monorails can be electrically driven using our power driven trolleys (not to be used in bends). This is particularly useful for cranes that carry loads greater than 1000 Kg. The power driven trolley operates using 4 high quality friction wheels that ensure long life and accuracy of movement.

Electric travel is possible in 3 options:

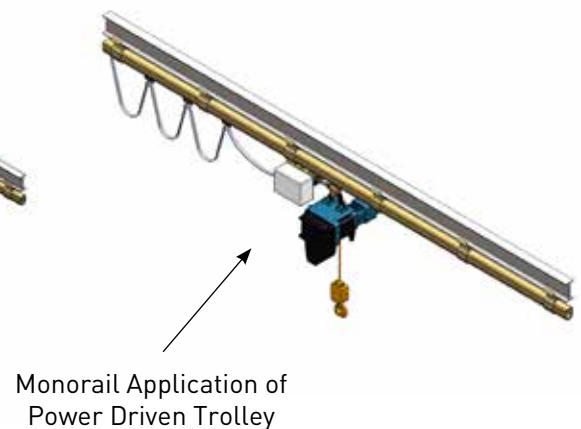
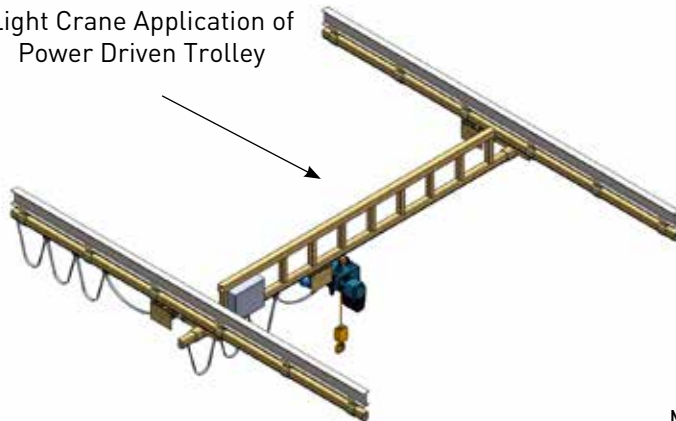
1. Powered hoist trolley traveling across the bridge only (M 1)
2. Powered travel of the crane bridge only (M 2+M 3)
3. Powered travel in all directions (M 1+M 2+M 3)

Our power driven trolleys have inverter controlled motors that allow soft start and soft stop travel.



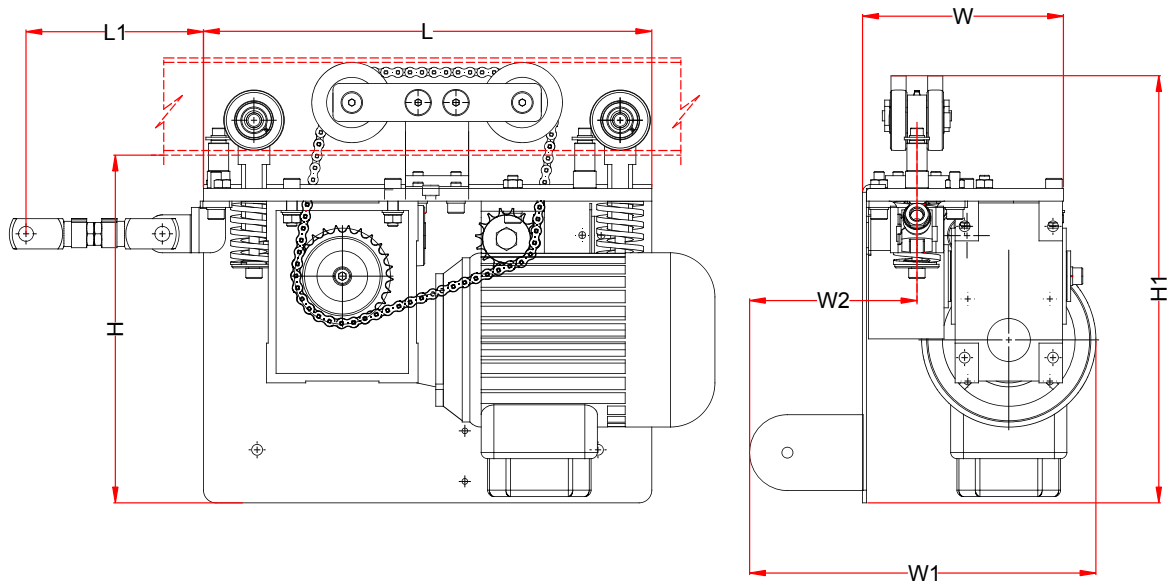
2.2. Typical applications

Light Crane Application of Power Driven Trolley



Monorail Application of Power Driven Trolley

3 TECHNICAL DETAILS



NIKO Profile No.	Power Driven Trolley	Transferred load (kg)	L (mm)	L1 (mm)	W (mm)	W1 (mm)	W2 (mm)	H (mm)	H1 (mm)
25.000	25.H120	500	355	145	160	260	142	275	332
26.000	26.H120	1000	355	145	160	260	142	276	347
27.000	27.H120	2000	355	180	160	260	142	277	380

- Reduction gear for reliable operation and low maintenance.
- Drive wheels molded with rubber for smooth acceleration.
- Standard motor units configured for 3 phase power 230-400 V.
- Power: 0,37 Kw , 1400 rpm motor, current: 230 V - 1,8 A / 400 V - 1,04 A.
- Inverter controlled speed , (lower speed 7m/min , higher speed 20m/min) with soft start & soft stop

3.1. Control Panel & Pendant control

Operation is being achieved through an electrical control panel and pendant control unit.

NIKO does not wire the control panel and power driven trolleys (included are only the plug-in connections and the pendant control with cable 4m). NIKO will wire the power driven trolleys only after customer's request.

Art No.	Description	Use
X3.114	Control Panel for power driven trolley Nr.25.000 - 27.000, with 2 inverter	For control of three power driven trolleys
X3.115	Control Panel for power driven trolley Nr.25.000 - 27.000, with 1 inverter	For control of two power driven trolleys
X3.116	Control Panel for power driven trolley Nr.25.000 - 27.000, with 1 inverter	For control of one power driven trolley
X3.700	Pendant control with emergency button (2 buttons, dual speed) & 4m long cable	For system with one power driven trolley
		For system with two power driven trolleys
X3.701	Pendant control with emergency button (4 buttons, dual speed) & 4m long cable	For system with one power driven trolley and inlet for connection of electr.hoist
		For system with two power driven trolleys and inlet for connection of electr.hoist
		For system with three power driven trolleys
X3.702	Pendant control with emergency button (6 buttons, dual speed) & 4m long cable	For system with three power driven trolleys and inlet for connection of electr.hoist

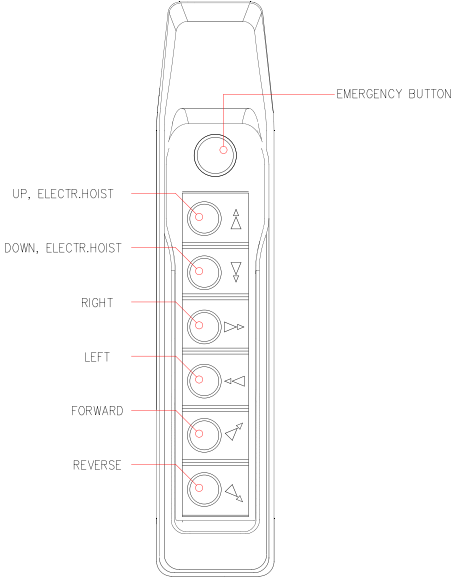
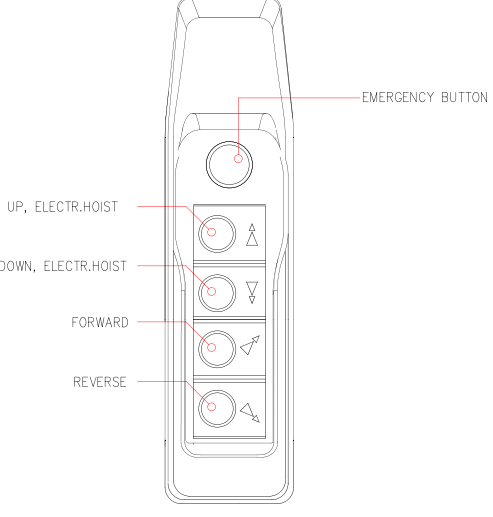
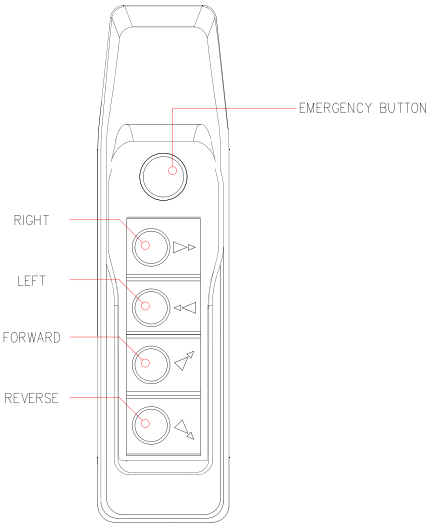
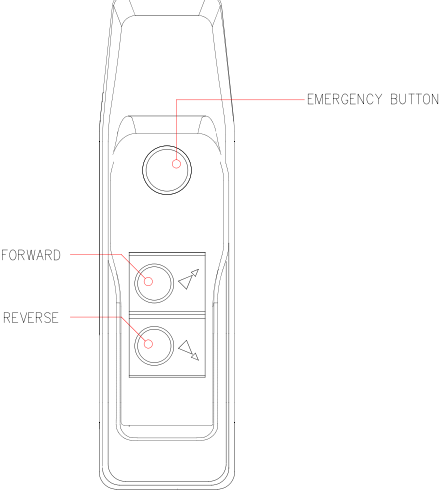
3.2. Unpacking

After opening the packaging of Power Driven Trolley, please check the contents to ensure that it includes the following items:

1. Manual Leaflet
2. Power Driven trolley
3. Electrical diagrams

If any of the above items are missing or appear damaged, please contact immediately with NIKO. Please do not throw away the packaging. You'll find it useful if you need to refer back to it, for any reason, to pack the Power Driven Trolley again.

3.3 Description of basic functions

X3.702 PENDANT CONTROL WITH EMERGENCY BUTTON, 6 BUTTONS DUAL SPEED, OPERATION IS BEING ACHIEVED THROUGH A PENDANT CONTROL UNIT.	X3.701 PENDANT CONTROL WITH EMERGENCY BUTTON, 4 BUTTONS DUAL SPEED, OPERATION IS BEING ACHIEVED THROUGH A PENDANT CONTROL UNIT.
For system with three power driven trolleys and inlet for connection of electrical hoist	For system with one or two power driven trolleys and inlet for connection of electrical hoist
	
X3.701 PENDANT CONTROL WITH EMERGENCY BUTTON, 4 BUTTONS DUAL SPEED, OPERATION IS BEING ACHIEVED THROUGH A PENDANT CONTROL UNIT.	X3.700 PENDANT CONTROL WITH EMERGENCY BUTTON, 2 BUTTONS DUAL SPEED, OPERATION IS BEING ACHIEVED THROUGH A PENDANT CONTROL UNIT.
For system with three power driven trolleys without connection for electrical hoist	For system with one or two power driven trolleys without connection for electrical hoist
	

3.4 Operation Emergency

The emergency safety button is used to perform an emergency stop. With this feature all electrical systems (motors, etc.) are switched off and electrically isolated from the power supply for safety reasons.

To return to operating mode, release the emergency safety button and press start to boot process from the beginning.

4 INSTALLATION INSTRUCTIONS of Power driven trolley

Except the mechanical installation, which includes the installation of the electric guards, the warning light/horn and the requirements of the installment bars (some sold separately by NIKO®) special electrical and safety connections must be made, in case an electrical switchboard is not purchased by NIKO®.

These include:

- a) Special electrical switchboard (key installed, for use only by qualified personnel)
- b) Prior to fuse F0 there should be a cut off circuit preventing startup after power failure if there is no action by the operator (see relay example provided in annex)
- c) Components for electrical installation equal to or better than the ones suggested by NIKO®.

These connections must be performed by a licensed electrician with regard to national and international rules and legislations.

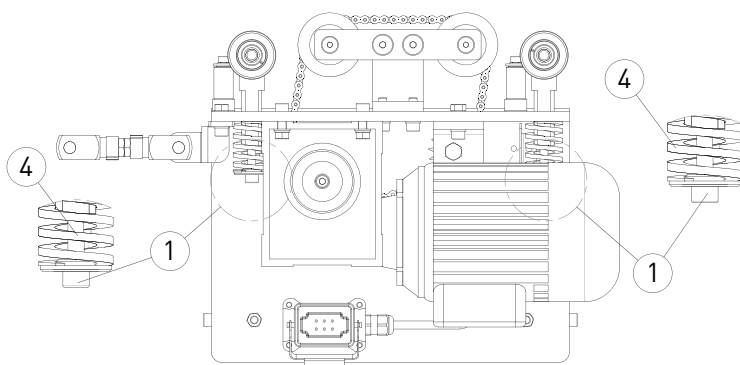


Figure 1.

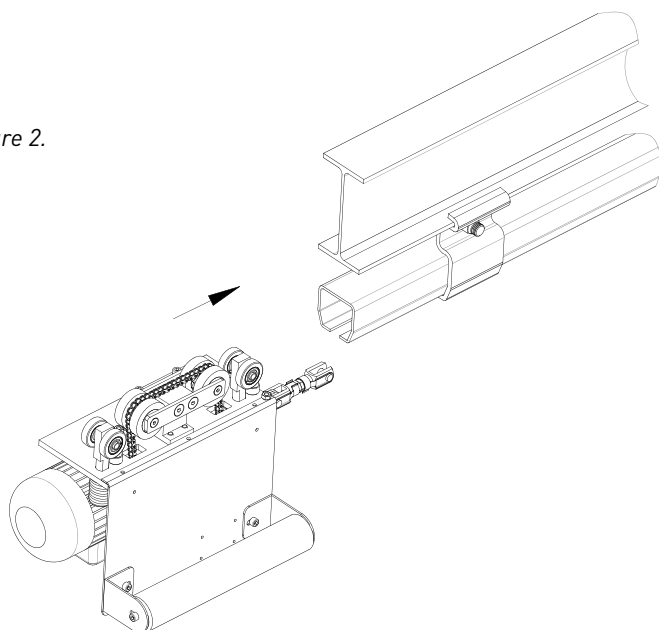
STEP 1: Firstly any load must be removed from system. The track end stops of the long travel tracks must be uninstalled.

STEP 2: Power driven trolleys type .H120 have to pass inside long travel tracks with the correct orientation. This means that the connection clamps will be close to the end carriages or to hoist trolley when they are installed.

STEP 3: Unscrew (do not remove) the socket screws (f/n 1) that hold the adjustable wheel trolleys assembly. See Figure 1

4 INSTALLATION INSTRUCTIONS of Power driven trolley

Figure 2.



STEP 4: Insert the power driven trolley .H120 into the track profile.
See Figure 2.



**For safety reasons
the stoppers on the
track profiles will be
installed in each
step of the
installation.**

STEP 5: The friction wheels (drive wheel f/n 2) should not be in contact with the upper face of the track profile. See Figure 3.

STEP 6: Regulate the balance weight (f/n 3) until the trolley's driven base is parallel to the track profile. See Figure 4.

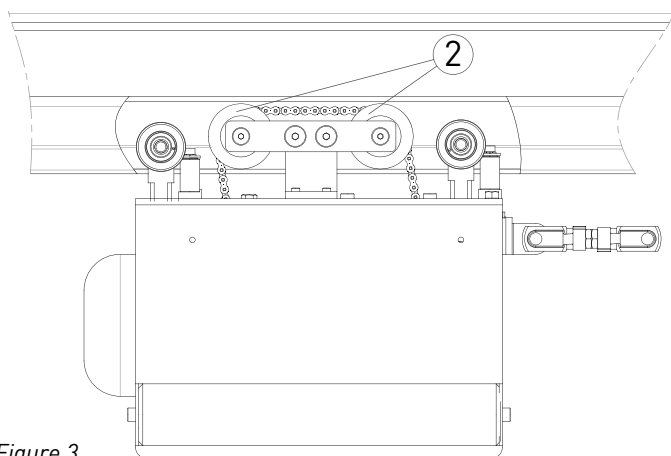


Figure 3.

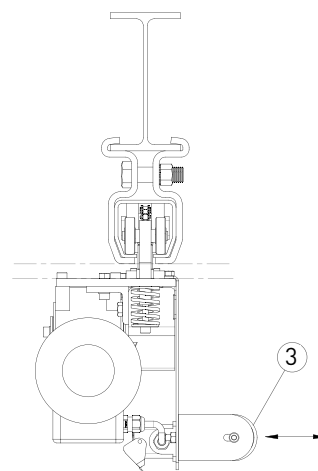


Figure 4.

STEP 7: At this step, connection between hoist trolley and end carriage is done. Then the track end stops must be re-installed. See Figure 5.

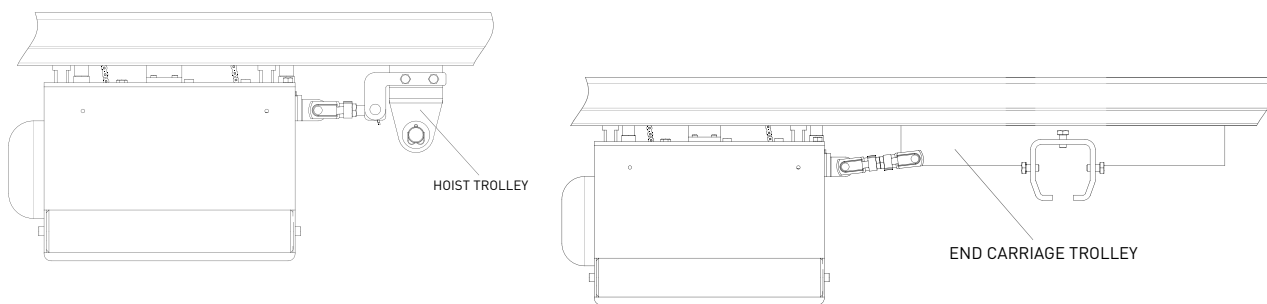


Figure 5.

4

INSTALLATION INSTRUCTIONS of Power driven trolley

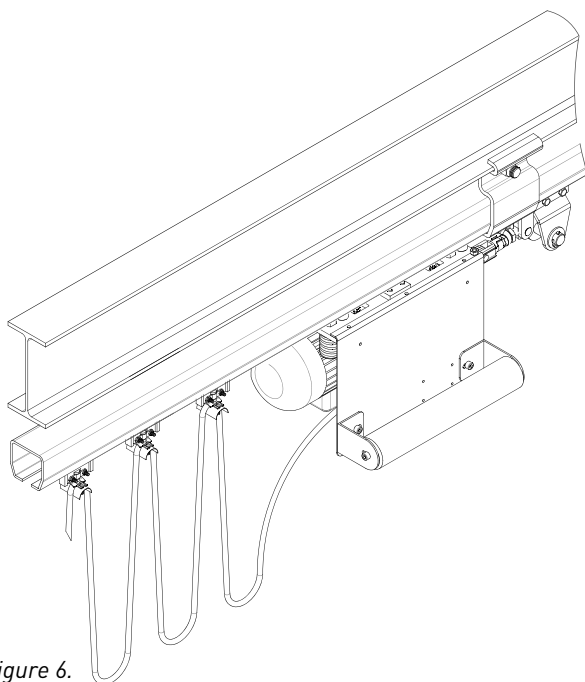


Figure 6.

STEP 8: The control power box is in most cases already installed on the cross bridge by the manufacturer; if not, a qualified person has to install the control power box following the manufacturer's electrical diagrams.

STEP 9: The power supply cable has to pass through the clamps of the cable trolleys that move inside the cross bridge track and long travel track. See Figure 6.

STEP 10: Tighten the socket screws

(Figure 1, f/n 1) against the springs (Figure 1, f/n 4), so that the friction wheels start to contact the upper face of the track profile. See Figure 7.

STEP 11: The installer should now test the trolley's movement without load. The installer should try stopping the trolley. If there is only minimal slippage, you may proceed to the next step. If not, the installer should repeat step 10.

STEP 12: The installer should now test that the trolley's movement with full load. If not, he should repeat step 11. The installer should try stopping the trolley. If there is only minimal slippage, the power driven trolley is ready for use. If not, the installer should repeat the procedure of step 11 & step 12.



Excessive screwing of the socket screws (f/n 1) can damage the rubber wheels.

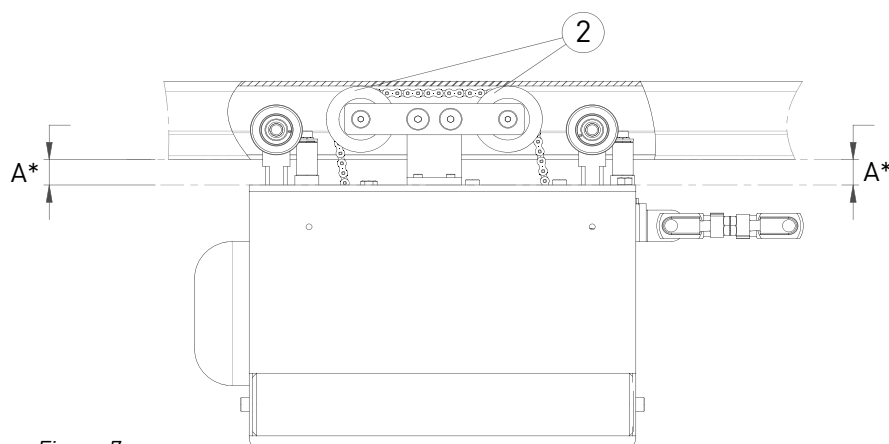


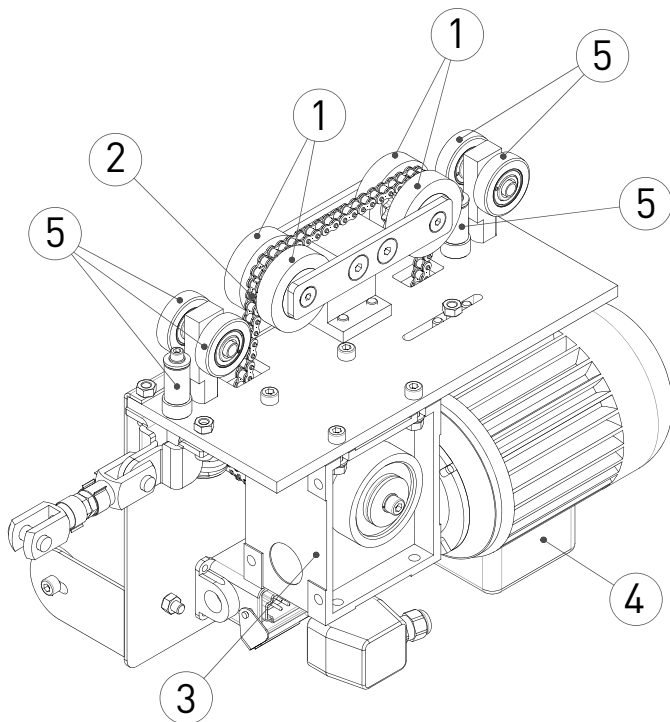
Figure 7.



IMPORTANT!
In all cases
dimension "A"*
must be
the same on
both sides of
trolley.

* Indicative value:
A=26mm

5 INSPECTION AND MAINTENANCE Schedule



This plan should refer to preventive maintenance actions.

DAILY: Visual inspection for damages or uneven wear.

Item	Frequency of Inspection	
	Yearly or every 2000 hrs	
Friction wheels (f/n 1)	✓	Check for uneven wear, tread and separation. If any of these conditions exist, friction wheels may need to be replaced. Uneven wear may be prevented by right balance of power driven trolley and correct track alignment.
Roller chain (f/n 2)	✓	Check if there is any abnormally uneven wear.
		Check and remove any accumulation of dirt or foreign materials. Check if the chain tension is the appropriate one and tension with the tensioner if necessary.
		Clean the chain and apply fresh grease.
Gear box (f/n 3)	✓	Check for chain elongation; if the elongation is more than 2% replace the chain.
		Check for lubricant leaks around the seal rings; replace if necessary. Gear box is sealed with a high grade lubricant. Replacement is not required.
Electrical motor (f/n 4)	✓	While motor is running, check that : Smooth running characteristics and motor noise during operation have not deteriorated.
		While the motor has been shut down, check that : All the fixing bolts for the mechanical and electrical connections are tight. Cables and insulating parts/components are in a good condition and are not discoloured. Cleaning depending on local degree of pollution . Clean the cooling air passages through which the ambient air flows, using dry compressed air.
Ball bearings/ side rollers (f/n 5)	✓	Check for cracks, pits and/or grooves. If any of these conditions has appeared , bearings should be replaced.
		Check ball bearings for easy and smooth rotation. Replace if necessary.
		Lubricate the ball bearings and side rollers. Friction wheels must be clean and free of lubricants.
Check that all hardware is tightened	✓	

This manual should include all technical information on the system and the individual components and units eg inverter, controller etc.

**Protect the environment**

Electrical appliances must not be disposed of with other waste. Use the special collection points available for the collection of electrical appliances and hand appliances you no longer take out after use, there. You will help prevent potential effects of improper waste disposal in the environment and human health and contribute to the reuse, recycling and other forms of utilization of old electrical and electronic devices. Information on where to dispose of these devices can be obtained from the municipality or the municipal authorities.

NOTES

[illegible]

TERMS AND CONDITIONS FOR THE SALE OF GOODS

§ 1.Preamble

1.These Standard Terms and Conditions for the sale of export Goods shall exclusively apply, save as varied by express agreement accepted in writing by both parties. 2.The offer, order acknowledgement, order acceptance or sale of any products covered herein is conditioned upon the terms contained in this instrument. Any conditional or different terms proposed by the buyer are objected to and will not be binding upon the seller unless assented in writing by the seller. Our Terms and Conditions apply exclusively also in the case of goods being delivered without reservation to the buyer despite our full awareness of contradicting or varying terms and conditions of the buyer.3.These conditions shall govern any future individual contract of sale between the seller and the buyer to the exclusion of any other terms and conditions subject to which any such quotation is accepted or purported to be accepted, or any such order is made or purported to be made, by the buyer. 4.Any typographical, clerical or other error or omission in any sales literature, quotation, price list, acceptance of offer, invoice or other document of information issued by the seller shall be subject to correction without any liability on the part of the seller. 5.The provisions of these Standard Terms and Conditions extend to standard contract conditions which are used in a contract with a merchant in the course of business only and apply only to companies, legal persons under public law or public special assets.

§ 2.Orders and Specifications

1.No order submitted by the buyer shall be deemed to be accepted by the seller unless and until confirmed in writing by the seller or the seller's representative within 2 weeks after submittal.2.The quantity and description of and any specification for the goods shall be those set out in the seller's quotation or the buyer's order.3.Any such specification, sales literature, quotation etc. shall be strictly confidential and must not be made available to third parties. 4.The buyer shall be responsible for the seller for ensuring the accuracy of the terms of any order submitted by the buyer, and for giving the seller any necessary information relating to the goods within a sufficient time to enable the seller to perform the contract in accordance with its terms.5.If the goods are to be manufactured or any process is to be applied to the goods by the seller in accordance with the specification submitted by the buyer, the buyer shall indemnify the seller against all loss, damages, costs and expenses awarded against or incurred by the seller in connection with infringement of any patent, copyright, design, trade mark or other industrial or intellectual property rights of any other person which results from the seller's use of the buyer's specification.6.The seller reserves the right to make any changes in the specification of the goods which are required to conform with any applicable statutory requirements or, where the goods are to be supplied to the seller's specification, which do not materially affect their quality or performance.

§ 3.Price of the Goods

1.The price of the goods shall be the seller's quoted price or, where no price has been quoted the price listed in the seller's published price list current at the date of acceptance of the order. 2.The seller reserves the right, by giving notice to the buyer at any time before delivery, to increase the price of the goods to reflect increase in the cost to the seller which is due to any factor beyond the control of the seller (such as foreign exchange fluctuation, currency regulation, alteration of duties, significant increase in the cost of materials or other costs of manufacture) or any change in delivery dates. 3.Except as otherwise stated under the terms of any quotation or in any price list of the seller, and unless otherwise agreed in writing between the buyer and the seller, all prices are given by the seller on an ex works basis, and where the seller agrees to deliver the goods otherwise than at the seller's premises, the buyer shall be liable to pay sellers charges for transport.4.The seller bears the cost of the usual packaging; charges for special packaging will be borne by the buyer 5.On buyers request, the seller will insure the goods at the expense of the buyer.6.Prices are exclusive of VAT, which must then be paid to the seller additionally.

§ 4.Terms of Payment / Prepayments

1.The buyer shall pay the price of the goods immediately upon receipt of invoice, unless a payment deadline is granted in the invoice.2.Payment shall be effected by inter bank payment transaction only; no cheque or bill of exchange will be considered as fulfillment of the payment obligation.3.It may be agreed between the parties that the buyer has to deliver a letter of credit issued by his bank (or any bank acceptable to the seller). In this individual case it is assumed that any letter of credit will be issued in accordance with the Uniform Customs and Practice for Documentary Credits, 1993 Revision; ICC Publication No. 500. 4.If the buyer fails to make any payment on the due date then, without any prejudice to any other right or remedy available to the seller, the seller shall at his discretion be entitled to:

-cancel the contract or suspend any further deliveries to the purchaser; or
-charge the buyer interest on the amount unpaid, at the rate of 4 per cent per annum above Federal Reserve Bank Rate/Bundesbank Discount Rate from then being valid, until payment in full is made. The buyer shall be entitled to prove that the delay of payment caused no or little damage only.

5.Advancements, prepayments and installments paid by the buyer to the seller regarding customized goods or goods which empirically have a rare demand are not refundable by the seller . 6.Payments will first be applied to accumulated costs, then to interest and then to the oldest main demand.

§ 5.Delivery

1.Delivery of the goods shall be made by the buyer collecting the goods at the seller's premises at any time after the seller has notified the buyer that the goods are ready for collection or, if some other place for delivery is agreed by the seller, by the seller delivering the goods to that place.2.If a fixed time for delivery is provided for in the contract, and the seller fails to deliver within such time or any extension thereof granted, the buyer shall be entitled, on giving notice in writing to the seller within a reasonable time, to claim a reduction of 0,5 % per week (and up to a maximum of 5%) of the price payable under the contract, unless it can be reasonably concluded from the circumstances of the particular case that the buyer has suffered no loss. This limit shall not apply if the business had to be settled on a fixed date or if the delay was caused negligently or intentionally by the seller, his agents or representatives or if there is any future breach of any essential contractual obligation.3.If for any reason whatever the seller fails within such time to effect delivery, the buyer shall be entitled by notice in writing to the seller to fix a deadline after the expiry of which the buyer shall be entitled to terminate the contract. After the expiry of the above mentioned fix deadline the buyer may also recover from the seller any loss suffered by the buyer by reason of the failure of the seller.4.If the buyer fails to accept delivery on due date, he shall nevertheless make any payment conditional on delivery as if the goods had been delivered. The seller shall arrange for the storage of the goods at the risk and cost of the buyer. If required by the buyer the seller shall insure the goods at the cost of the buyer.

§ 6.Transfer of Risk

Risk of damage to or loss of the goods shall pass to the purchaser as follows:

•in the case of goods to be delivered otherwise than at the seller's premises, at the time of the delivery or, if the buyer wrongfully fails to take delivery of the goods, the time when the seller has tendered delivery of the goods;

•in the case of goods to be delivered at the seller's premises ["ex works", Incoterms 2000] at that time when the seller notifies the purchaser that the goods are available for collection.

§ 7.Risk of damage to or loss of the goods shall pass to the purchaser as follows:

•in the case of goods to be delivered otherwise than at the seller's premises, at the time of the delivery or, if the buyer wrongfully fails to take delivery of the goods, the time when the seller has tendered delivery of the goods;

•in the case of goods to be delivered at the seller's premises ["ex works", Incoterms 2000] at that time when the seller notifies the purchaser that the goods are available for collection.

1.Notwithstanding delivery and the passing of risk in the Goods, or any other provision of these conditions, the property in the goods shall not pass to the buyer until the seller has received payment in full of the price of the goods and all other goods agreed to be sold by the seller to the buyer for which payment is then due.2.After termination of the contract the seller shall have absolute authority to retake, sell or otherwise deal with or dispose of all or any part of the goods.3.Until such time as the property in the goods passes to the buyer, the buyer shall hold the goods as the seller's fiduciary agent, and shall keep the goods properly stored, protected and insured.Until that time the buyer shall be entitled to resell or use the goods in the ordinary course of business, but shall account to the seller for the proceeds of sale or otherwise of the goods including insurance proceeds, and shall keep all such proceeds separate from any moneys or properties of the buyer and third parties.4.The buyer is only entitled to further disposal or processing in consideration of the following conditions:

•The buyer may only dispose of or process the reserved merchandise in a proper business office and only if there is no lasting decline in his financial circumstances.

•The buyer herewith transfers the demand with all secondary rights resulting from sales of the reserved merchandise -including possible balance demands- to the seller.

•If the goods are processed or reshaped by the buyer and if processing is done with goods that the seller has no property in, the seller shall become co-owner of the goods. The same shall apply if the seller's goods are completely reshaped and mixed with other goods.

•If the buyer has sold the demand within the bounds of a real factoring, he will transfer the newly resulting demand of the factor to the retailer and will forward him a share of his sales proceeds amounting to the value of the seller's right on the merchandise. The buyer is obligated to reveal the transfer to the factor if he is more than 10 days overdue with the payment of an invoice or if his financial circumstances decline substantially. The seller accepts this transfer.

5.If third parties take up steps to pledge or otherwise dispose of the goods, the buyer shall immediately notify the seller in order to enable the seller to seek a court injunction. If the buyer fails to do so in due time he will be held liable for any damages caused.6.The seller shall on demand of the buyer release any part of the collateral if the value of the collateral held in favour of the seller's decision to release those parts of the collateral suitable for him.

§ 8.Warranties, exclusion clauses and limitation period

1.The buyer shall examine the goods as required and raise any objections within 8 days after receiving the goods. 2.The seller warrants that all items delivered under this agreement will be free from defects in material and workmanship, conform to applicable specifications, and, to the extent that detailed designs have not been furnished by the buyer, will be free from design defects and suitable for the purposes intended by the buyer.3.The seller shall not be liable for the normal process of wearing down during use of the goods and goods being fit for a particular purpose unless otherwise agreed upon, to which the buyer intends to put them. 4.The above warranty is given by the seller subject to the following conditions:

-the seller shall not be liable in respect of any defect in the goods arising from any design or specification supplied by the buyer;

-the seller shall not be liable under the above warranty if the total price for the goods has not been paid by the due date for payment;

-the above warranty does not extend to parts, materials or equipment manufactured by or on behalf of the buyer unless such warranty is given by the manufacturer to the seller.

5.This warranty does not cover defects in or damage to the products which are due to improper installation or maintenance, misuse, neglect or any cause other than ordinary application.6.Any discharge from liability will be void if a defect results from negligent or intentional breach of contract on the part of the seller. The same applies if the seller may be held responsible for the breach of any further essential contractual obligation.7.The buyer is entitled to demand the delivery of any substitute goods, or repair.8.Where any valid claim in respect of any goods which is based on any defect in the quality or condition of the goods or their failure to meet specification is notified to the seller in accordance with these conditions, the seller shall be entitled at the seller's sole discretion to either replace the goods free of charge or repair the goods. If the seller is neither ready nor able to either repair or replace the goods the buyer shall be entitled at the buyer's sole discretion to claim for a reduction of price or a cancellation of the contract.9.All the purchaser's demands concerning defects will lapse within a limitation period of 1 year as of the legal lapse beginning.

§ 9.Miscellaneous clauses

1.The seller reserves the right to improve or modify any of the products without prior notice, provided that such improvement or modification shall not affect the form and function of the product. 2.This agreement supersedes and invalidates all other commitments and warranties relating to the subject matter hereof which may have been made by the parties either orally or in writing prior to the date hereof, and which shall become null and void from the date of the agreement is signed.3.This agreement shall not be assigned or transferred by either party except with written consent of the other. 4.Each party shall be responsible for all ist legal, accountancy or other costs and expenses incurred in the performance of ist obligation hereunder.

§ 10.Choice of law: Place of jurisdiction

1.This agreement is subject to the law applicable in the country in which the seller has its registered office. Both parties consent to the exclusive jurisdiction of the court at the registered office of the seller. 2.The seller has the right to sue at the court of competent jurisdiction for the buyer or any other court which may have jurisdiction under national or international law.

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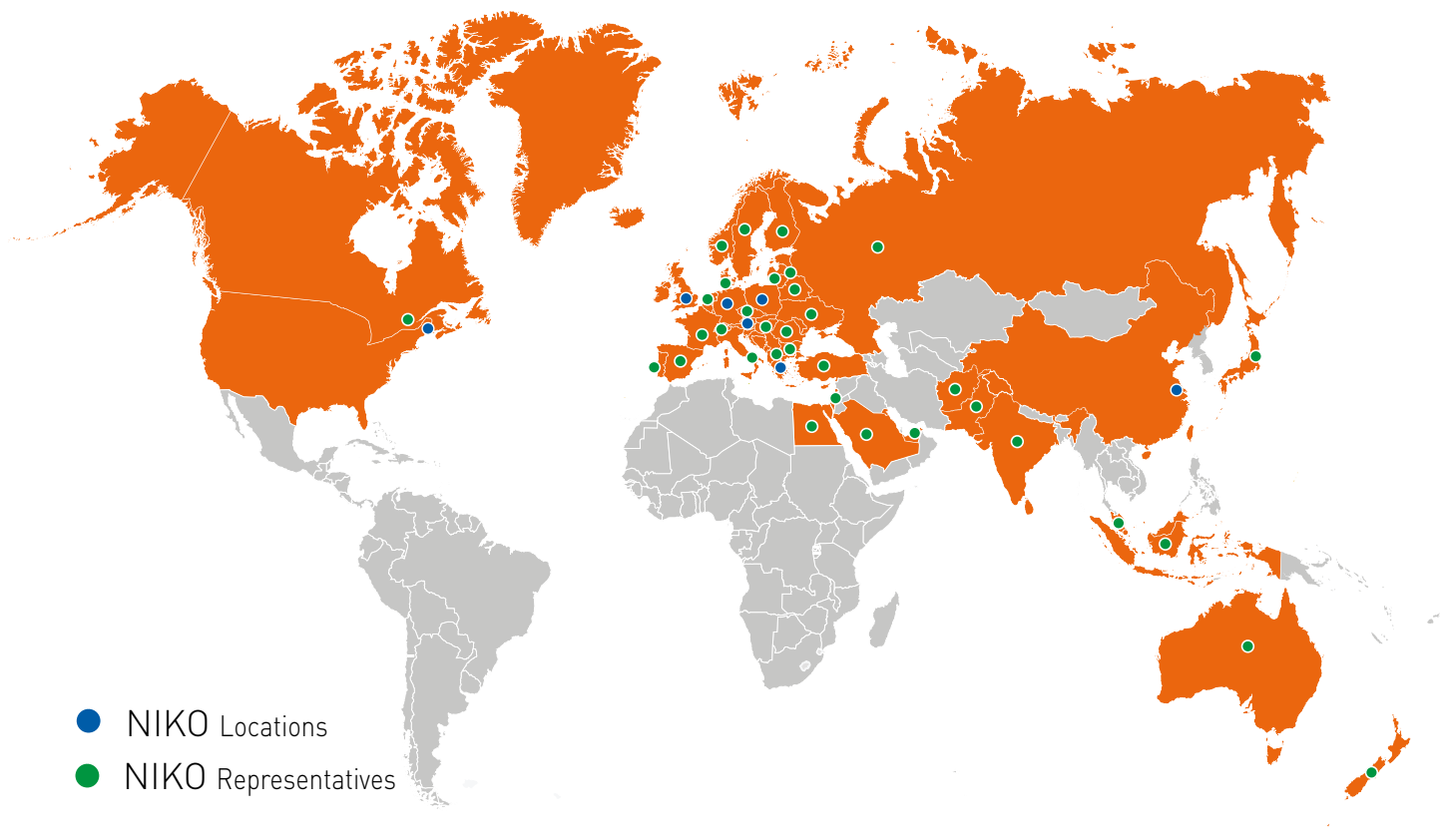
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