

LIFTING BEAM EQUIPMENT FOR LIFTING LOADS

INSTRUCTION MANUAL

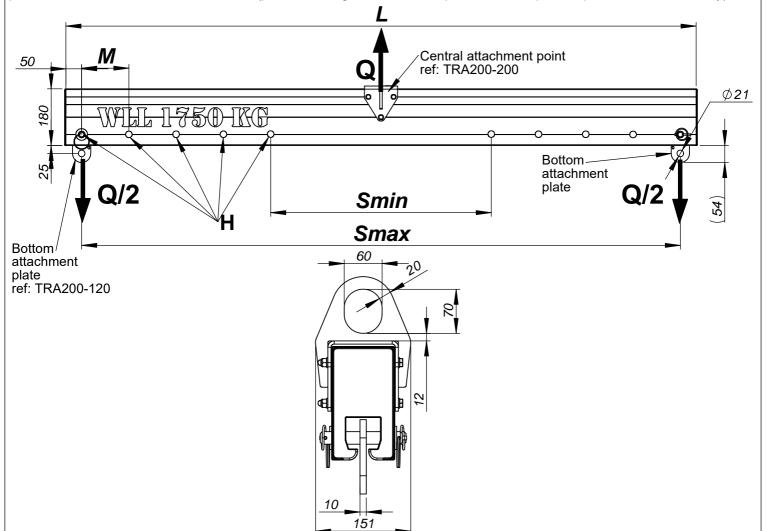
Reference number:

TRAxxx-Hy-zzzz-wwww

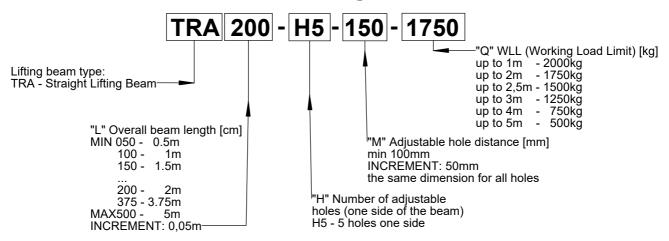
READ CAREFULLY BEFORE USE THE EQUIPMENT

DESCRIPTION

TRA series straight lifting beam is a lifting device designed to perform manipulation of the suspended long load with maximum weight "Q" [kg]. Maximum length of the beam is marked as "L" [m]. Lifting beam span "S" [m] can be changed between "Smax" and "Smin" with "M" [mm] increment of "H" [pcs] holes. Hooks and shackels are sold separately. TRA device consist of beam (made of anodized aluminium alloy), central attachment point (mode of powder painted steel) and two bottom attachment plates for shackles and hooks connection (pins made of galvanized steel, plates made of powder painted aluminium alloy).



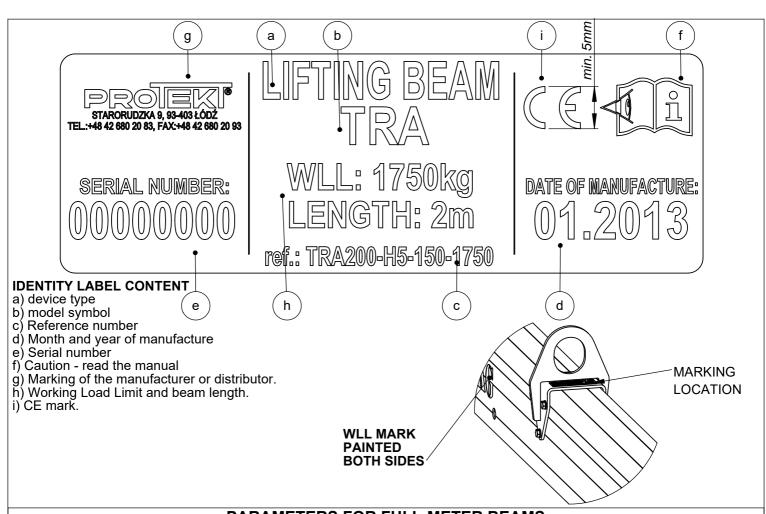
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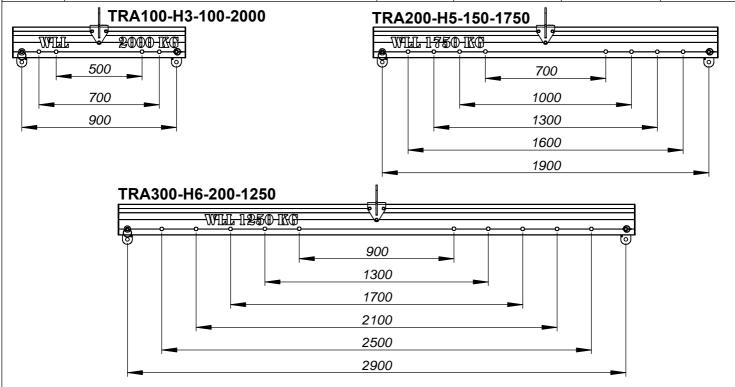
- WLL of the beam cannot be changed (up to 1m WLL=2000kg, up to 2m WLL=1750, etc.)
- "L" Beam length increment: 0,05m (min length 0,5m / max length 5,0m).
- "M" Adjustable hole spacing increment 50mm (min length 100mm).
- Smax [m] = L [m] 0,1m
- When number of holes "H"=1 then "Smax" = "Smin" ("M" parameter is not applicable).



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PARAMETERS FOR FULL-METER BEAMS								
FULL BEAM LENGTH	BEAM SPAN RANGE	WORKING LOAD LIMIT (WLL)	HOLE SPACING IN ADJUSTABLE BEAM	NUMBER OF ADJUSTABLE HOLES (ONE SIDE)	BEAM WEIGHT (without hooks and shackles)			
L [m]	S [m]	Q [kg]	M [mm]	H [pcs]	[kg]			
1m	0,9 / 0,7 / 0,5m	2000kg	100mm	3 pcs.	9,5kg			
2m	1,9 / 1,6 / 1,3 / 1 / 0,7 m	1750kg	150mm	5 pcs.	16kg			
3m	2,9 / 2,5 / 2,1 / 1,7 / 1,3 / 0,9 m	1250kg	200mm	6 pcs.	22,6kg			
4m	3,9 / 3,4 / 2,9 / 2,4 / 1,9 / 1,4 / 0,9 m	750kg	250mm	7 pcs.	29,1kg			
5m	4,9 / 4,3 / 3,7 / 3,1 / 2,5 / 1,9 / 1,3 m	500kg	300mm	7 pcs.	35,7kg			



INSPECTION

- Before first use examine all components of the device, in orderd to exclude damage caused by improper handling or storage.
- Before each use of the beam, carry out thorough inspection to check the beam condition and proper operation. Carefully check all elements of the beam, paying particular attention to any damage, wiping (loss 10% or more of the nominal value of part thickness), excessive wear, corrosion, abrasion, cuts and malfunction.
- Before each use check legibility of the marking.
- Inspect all additional connected parts (sling, shackles, hooks, etc.) to prevent accidental detachment of the load.

PERIODIC INSPECTION

At least once a year, after 12 months of use the beam should be withdrawn from use for a detailed interim inspection. The inspection can be carried out by the person responsible in the workplace for the interim inspections of lifting equipment and trained for this purpose. Periodic inspections can also be carried out by the equipment manufacturer or a person or a company authorized by the manufacturer. When device is used in difficult working conditions mentioned period can be shortened.

WITHDRAWAL FROM USE

The beam must be immediately withdrawn from use if there is any doubt about the condition of the device during inspection or its operation. The device may be readmitted for use only after a manufacturer's detailed inspection, and manufacturer's written consent for its use.

THE ESSENTIAL SAFETY RULES AND ESSENTIAL PRINCIPLES OF USE

- Plan the lifting operation, establish the weight of the load and prepare the landing area ensuring that it will take the weight.
- Beam must be visually and mechanically inspected before use. Do not use beam if any devective material is detected.
- The operator must wear the obligatory security equipment during the whole operation (hard hat, safety shoues, safety gloves and hi-vis vest). If necessary use safety harnesses.
- Only qualified operators should use this device. The operator should be trained to use the device.
- In addition to this manual, follow the health and safety regulations in force during operation in the working area. Always use more restrictive rules and principles.
- Beam is used for lifting and lowering loads weighing up to WLL indicated on the beam.
- Never apply more force than the WLL marked on the beam.
- Do not overload beam with any dynamic action.
- The weight of the beam, together with attachments, must be added to the weight of the load when calculating the total load that will be imposed on the crane hook.
- Beam is not an emergency device for lifting people and it should not be used for this purpose.
- Do not use beam contrary to its intended use.
- Do not lift loads over an area occupied by people.
- Do not leave suspended load unattended.
- Do not change the beam design, repair or replaceable elements included in the kit.
- Any modifications / repairs should be made by qualified personnel.
- Before operation always check connection between all connected parts (shackles, slings, wires, hooks, etc).
- Check the stability of the load attached to the beam.
- The center of gravity of the load should be directly below the point of the hook device or exactly between the point of the hook.
- Maintain the horizontal of the suspension beam. Maximum inclination 6°.
- The use of the beam with other devices for lifting loads must be in accordance with the instruction for use of these devices.
- It is forbidden to use the kits in which the beam is included, in which the operation of any component disrupts the operation of other components.
- Avoid working where user may swing and hit an object or where lines may cross or tangle with that of another worker in the
- The auxiliary elements used with beam should be equipped with locking devices to avoid unvoluntary unlashing the load.
- Always pay attention to the position of the suspension beam.
- Watch carefully the suspension beam when elevated, both when loaded and when not.
- Avoid suddenly stops and jerks while using the beam.
- Always secure bottom attachment plate pins with cotter.
- Do not use the device in acidic and chemically aggresive environment.
- Use in temperature range from -20° to +100°. The beam should not be used in difficult weather conditions (ice, snow, fog, strong wind, storm).
- In case of any doubts as to the condition and usage of the beam, please contact the manufacturer of the device.

BEAM LOAD CARRYING CAPACITY (WLL)

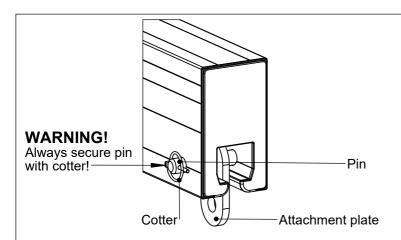
The load suspended under the beam should be alway's connected to two of the bottom attachment plates, which are connected to the beam with pins secured by cotter. Maximum operating load carrying capacity (WLL) is always indicated on the beam.

TRANSPORTATION

The beam should be transported in packaging protecting it from damage or getting wet, e.g. bags made of impregnated fabric or in steel / plastic / waterproof wooden cases or boxes.

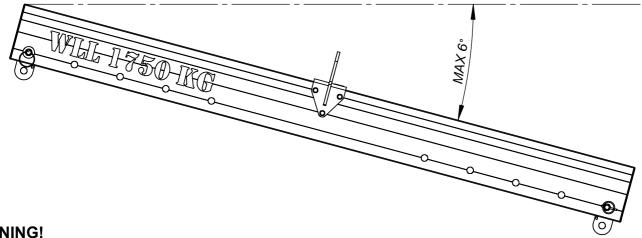
MAINTENANCE AND STORAGE

When using the beam, protect it against mechanical, chemical and thermal damage. Do not use a damaged or malfunctioning device. Clean a dirty device with a damp cloth. Store the beam indoors, away from moisture and sources of heat. Store the suspension beam in a horizontal position.



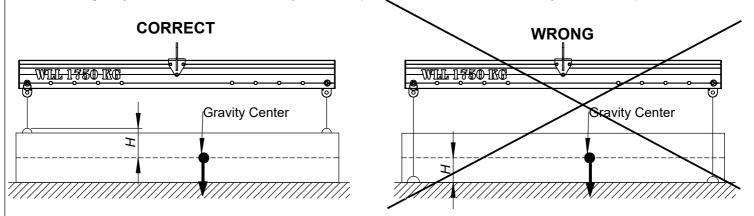
WARNING!

The beam cannot exceed 6° inclination with respect to the horizontal.



WARNING!

The center of gravity of the load should be directly below the point of the hook device or exactly between the point of the hook.



IDENTITY CARD

IT IS RESPONSIBILITY OF THE USER ORGANISATION TO PROVIDE THE IDENTITY CARD AND TO FILL IN THE DETAILS REQUIRED. THE IDENTITY CARD SHOULD BE FILLED IN ONLY BY COMPETENT PERSON RESPONSIBLE FOR PROTECTIVE EQUIPMENT. THE IDENTITY CARD SHOULD BE FILLED IN BEFORE THE FIRST USE OF THE EQUIPMENT. ANY INFORMATION ABOUT THE EQUIPMENT LIKE: PERIODIC INSPECTIONS, REPAIRS, REASONS OF EQUIPMENT'S WITHDRAWN FROM USE SHALL BE NOTED. THE IDENTITY CARD SHOULD BE STORAGED DURING A WHOLE PERIOD OF EQUIPMENT UTILIZATION. DO NOT USE THE EQUIPMENT WITHOUT THE IDENTITY CARD.

MODEL AND TYPE OF EQUIPMENT	
REF. NUMBER	
SERIAL NUMBER	
DATE OF MANUFACTURE	
DATE OF PURCHASE	
DATE OF FIRST USE	
USER NAME	

PERIODIC EXAMINATION AND REPAIR HISTORY

	DATE	REASON FOR SERVICING / REPAIR	REPAIRS CARRIED OUT	NAME AND SIGNATURE OF COMPETENT PERSON	DATE OF NEXT EXAMINATION			
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PRODUCER: