

USER MANUAL

Competition pole vault electric stand set - wireless operation

STT11-65E



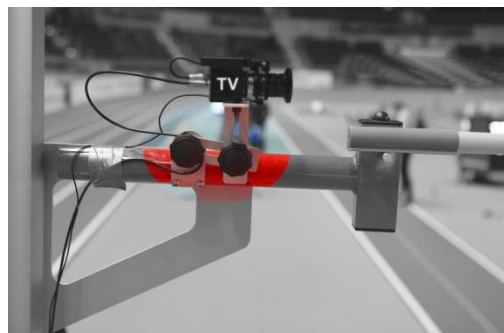
Thank you for choosing POLANIK Premium Line PV stand set with wireless operation!



Safe assembly and use

- *Before you start to assemble and use the stand please read this manual carefully.*
- *Do not install or use the stands without a landing area.*
- *The stand bases must be anchored to the ground for competition or training sessions.*
- *After competition or training the stands are to be obligatory stored in a dry roofed place.*
- *The stands come with the electronic and electric components, please handle with care.*
- *The sports equipment produced by Polanik is designed for athletics training and use in sports competitions only. Please pay special attention especially when using throwing implements and other throwing equipment, misuse of athletics equipment and implements can cause serious injury. That is why training and use during sports events have to be always supervised by authorized sports personnel. In no event shall Polanik be liable for any special, incidental, indirect or consequential damages in connection with the purchase or use of POLANIK products or costs over the original cost of the product.*
- *Unauthorized copying of this manual, in whole or in part, is prohibited.*
- *The contents of this manual are subject to change without notice.*
- *The producer reserves the right to introduce without warning changes in product constructions and colours.*

Special adjustable bracket for installing TV camera* or sports camera* in the set!



*not included

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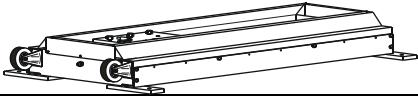
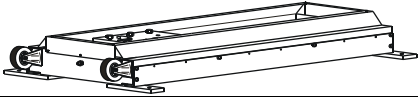
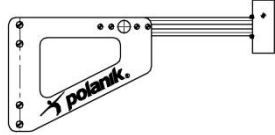
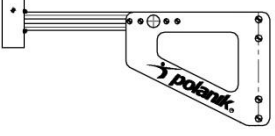
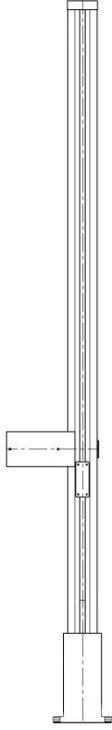
I. General description and use

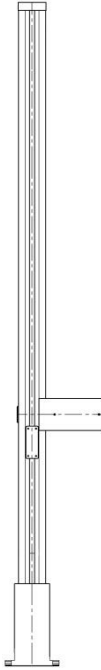



STT11-65E is the result of Polanik's long and profound experience in the field of the athletics equipment production. Our electrical version of the competition PV stand completes fully the product offer. Each stand is driven by two step motors. The operator uses a portable tablet computer (PTC) to operate wirelessly the PV stands. Entered values are processed by the main unit (CPU) which drives the step motors. The tablet (PTC) lets you position the crossbar in more comfortable, quicker and more precise way than in ordinary manual units. Thanks to its clear and practical design the program is very easy to use. Now you can also get rid of traditional crossbar placers because with our electric stand you can lower the supports very quickly and place the crossbar on the pegs from the ground.



II. Parts list

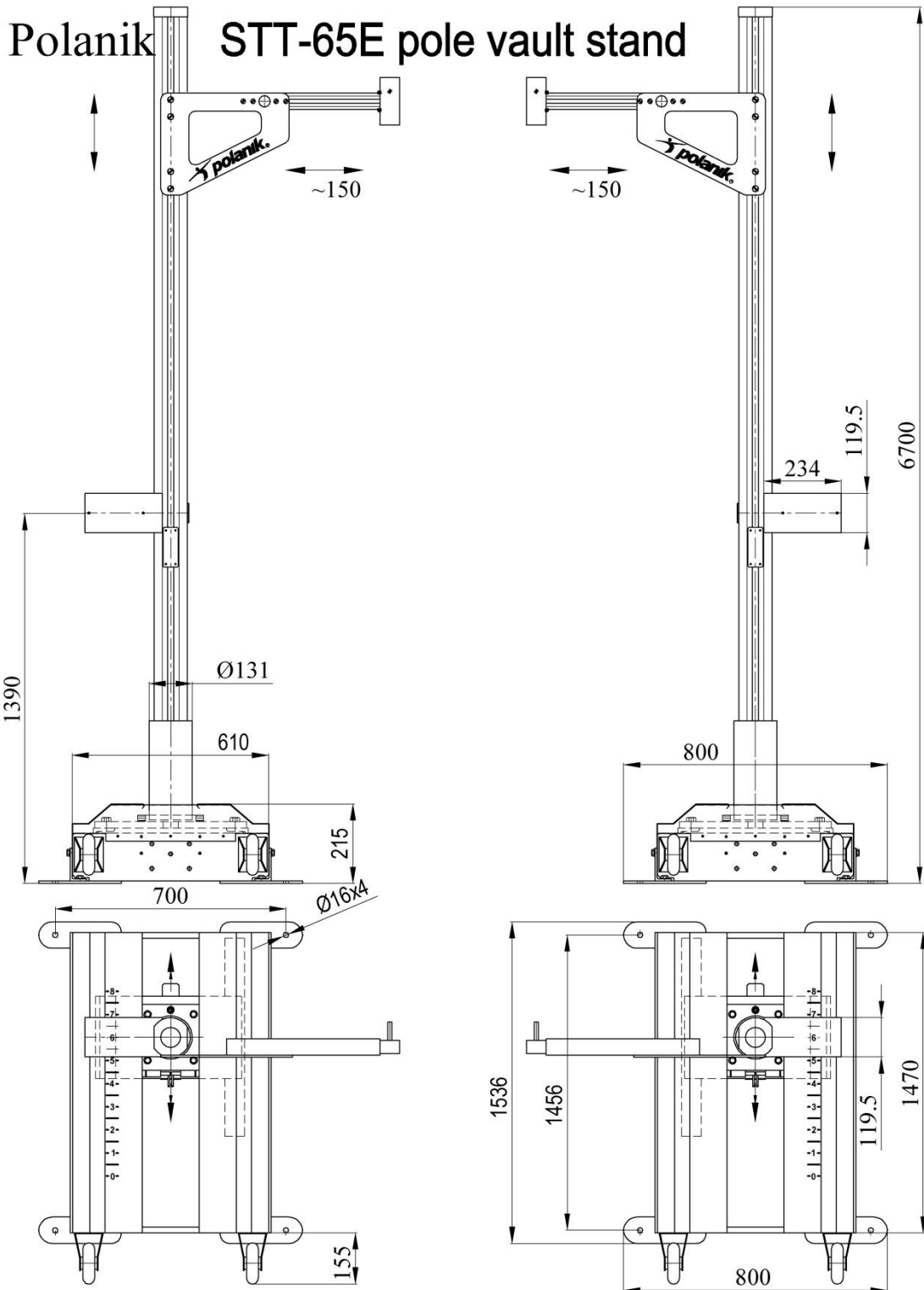
STT11-65E is a complete set of two electric pole vault stands which are designed for athletics competitions of pole vaulting. The set includes the following elements:

Item no.	Part/set description	Q-ty Pcs.	Part/set sketch
1	Left base + screw M 20x40 (4 pcs) + washer 20 (4 pcs)	1	
2	Right base + screw M 20x40 (4 pcs) + washer 20 (4 pcs)	1	
3	Left crossbar support	1	
4	Right crossbar support	1	
5	Left post + countersunk hex key screw M 10x40 (4 pcs)	1	

Item no.	Part/set description	Q-ty Pcs.	Part/set sketch
6	Right post + countersunk hex key screw M 10x40 (4 pcs)	1	
7	CPU (central processing unit) + power supply cable 230V	1	
8	PTC (portable tablet computer)	1	
9	Bracket for installing TV camera or sports camera on crossbar support arm	1	

III. Technical specification

Code	STT11-65E	
Stand type	IAAF certified, competition, electric, wireless operation	
Crossbar support	powder painted aluminium profiles and anodized aluminium sheets	
Post	special aluminium profile, detachable	
Base	steel galvanized, equipped with wheels, with 4 anchoring holes	
CPU (central processing unit)	heavy duty cased main unit situated near left stand base	
PTC (portable tablet computer)	tablet with software for the official-operator	
Crossbar support lifting mechanism	step motor, super smooth operation system based on ball bearings	
Post shifting mechanism	step motor, super smooth operation system based on special guide rolls	
Height range [cm]	210 – 628	
Crossbar support horizontal shift [cm]	0-15	
Post horizontal shift range [cm]	0-80	
Crossbar bias correction range [mm]	0-80	
Power supply	European version 230V 50Hz 400W/ US version 110V 60Hz 400W	
Set net weight [kg]	~340	
Packing and transport	1/4	6,65 x 0,35 x 0,35 [m] /stand post
	2/4	6,65 x 0,35 x 0,35 [m] /stand post
	3/4	1,70 x 0,85 x 0,65 [m] /stand bases and supports
	4/4	0,79 x 0,57 x 0,34 [m] /CPU with cabling and PTC
Set gross weight [kg]	~360	



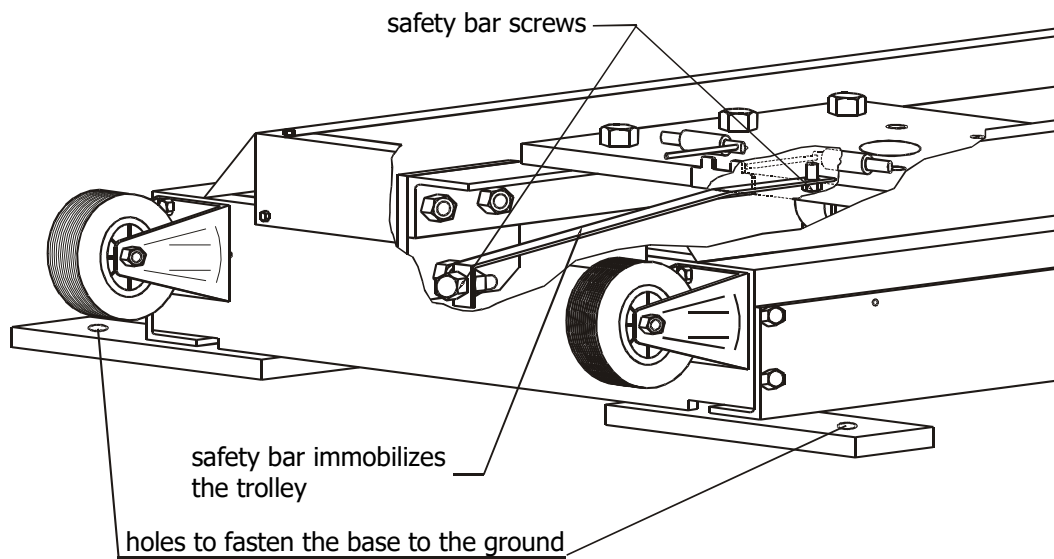
STT11-65E dimensions [mm]

IV. General description of assembly

Follow the manual below to assemble the stand set. The product is delivered in parts. One complete set contains two bases, two posts, two crossbar supports, CPU (central processing unit), PTC (portable tablet computer). To assemble the stand set you will need:

- hex key 6 and 8
- flat wrench no. 13
- flat wrench no. 19
- flat wrench no. 30.

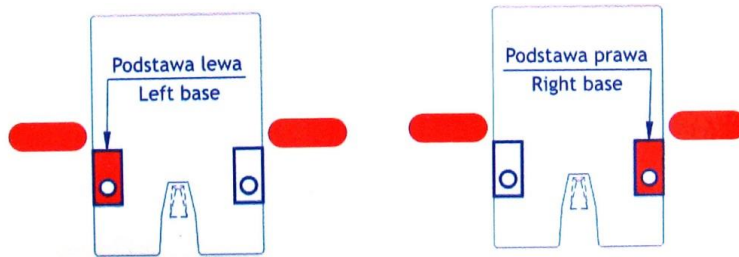
We recommend that the assembly process would take place at the target location because it is easier to move separate stand parts than the whole structure. The trolleys in the bases are secured from uncontrolled movements by means of special safety bars while the set is transported. The safety bar should remain fastened until the post is screwed down to the trolley of the base. After that stage has been completed you have to remove the safety bars.



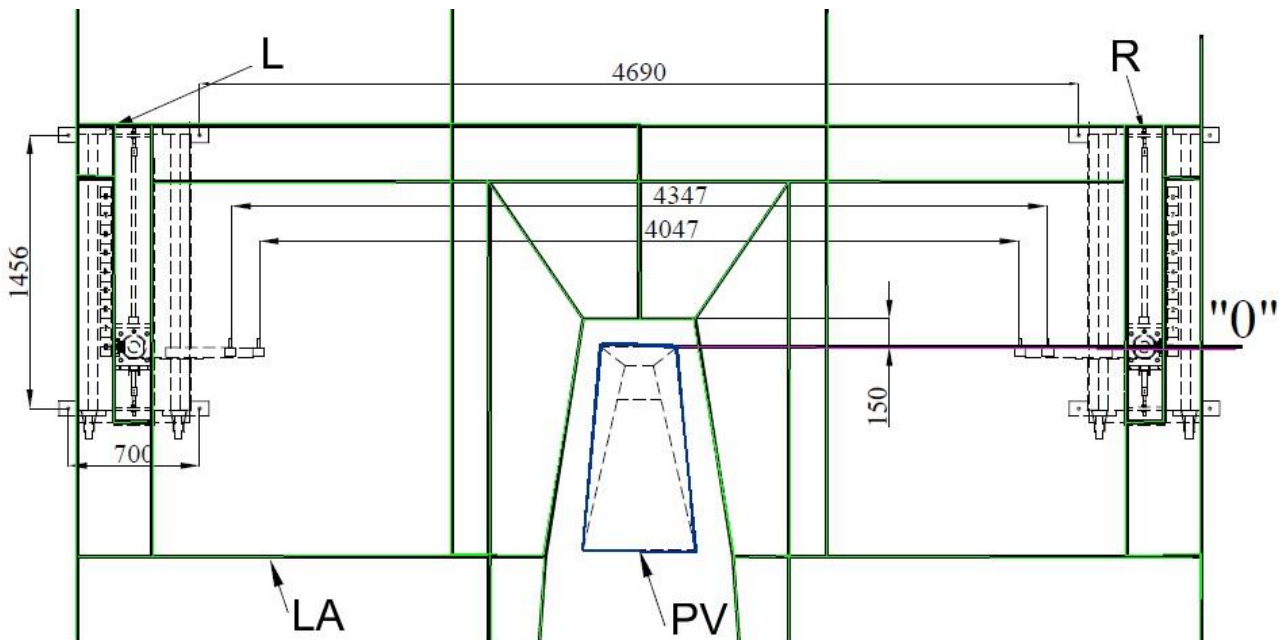
V. Assembly



WARNING: failure to follow the sequence of these assembly operations could result in serious accident or damages to the construction.



As it is marked on the bases, place them on the sides of the PV box, spaced apart according to the below drawing.



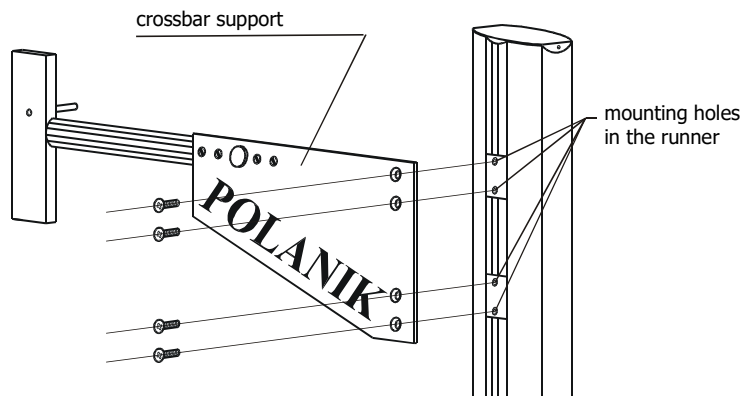
„0” – line „0” according to the IAAF rules

L – left stand base

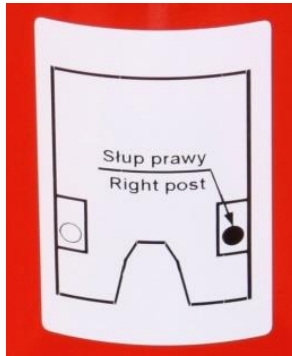
R – right stand base

LA – landing area projection

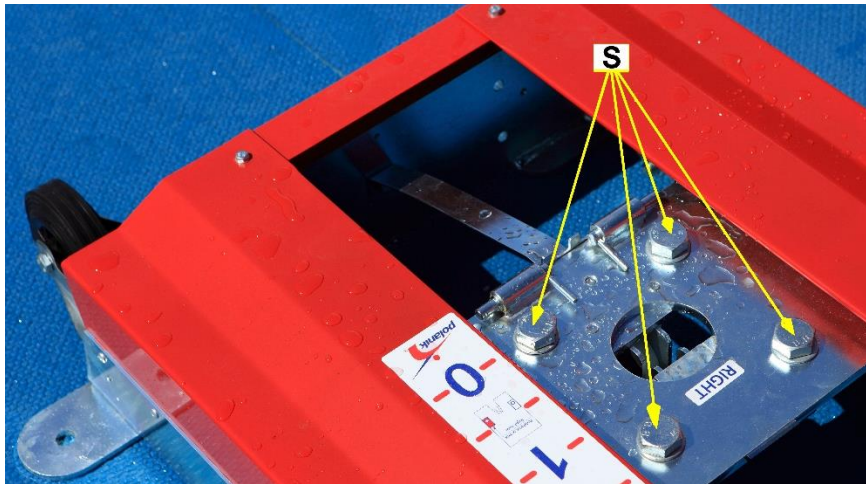
PV – Pole Vault box [mm]



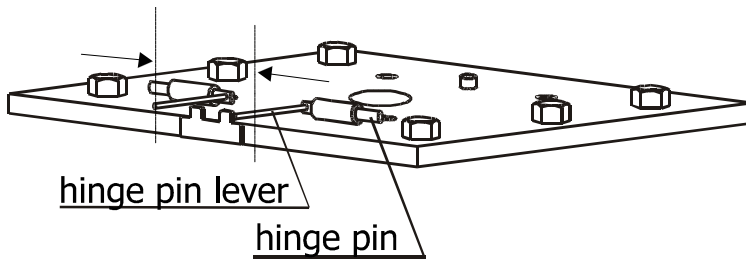
Screw the crossbar supports to lying posts (left and right) using screws screwed into guides on posts.



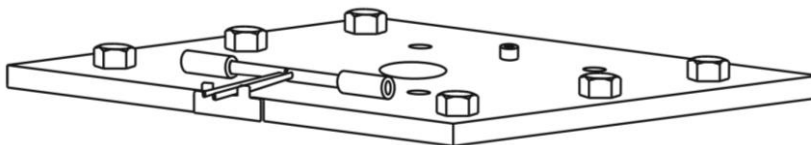
Install the posts according to the labels.



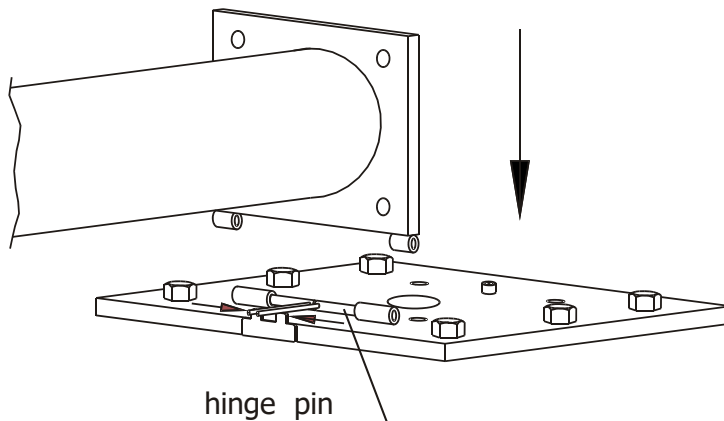
Unscrew the screws M20x40 (4 pcs) marked "S", they will be needed to fasten the post.



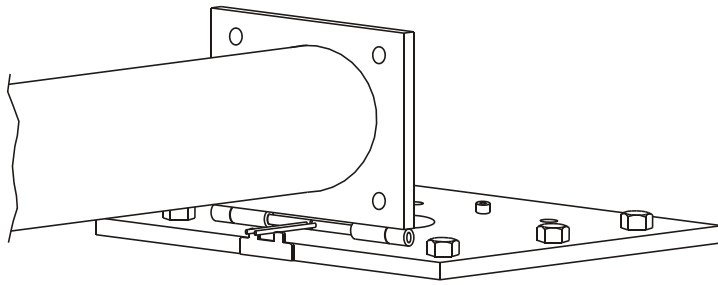
After that the post is ready to be installed on the base trolley. Press hinge pin levers according to the arrows.



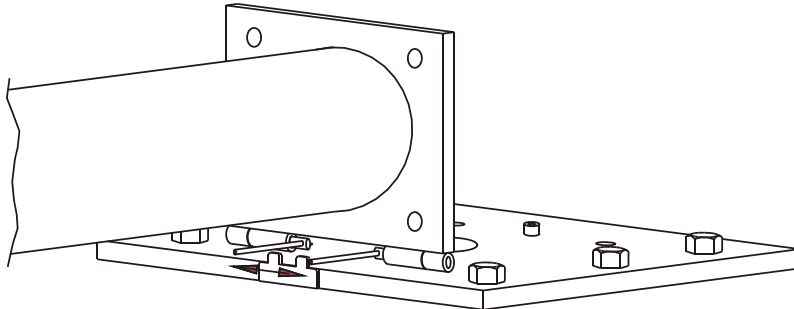
Place hinge pin levers between catches.



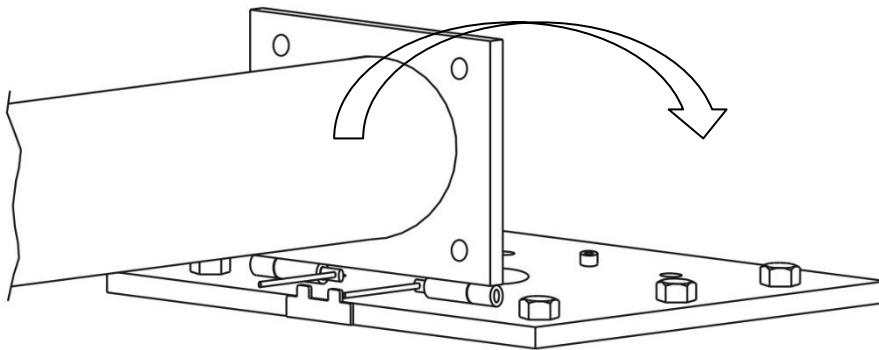
Position stand post foot over the hinge.



Put stand post foot into the hinge.

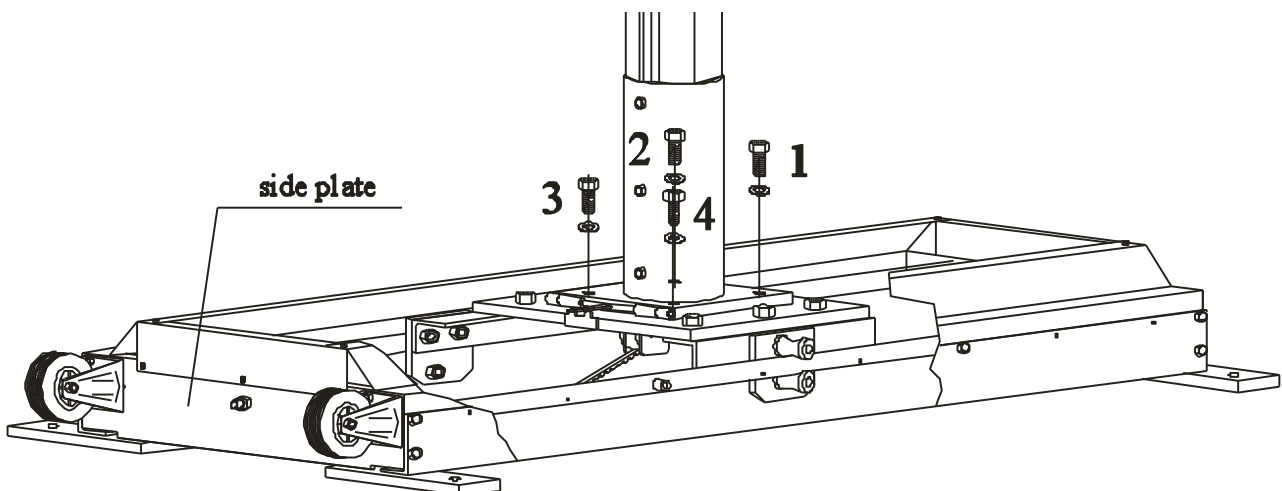


Release hinge pin levers, which spring back automatically to their working positions and connect post foot with base trolley.

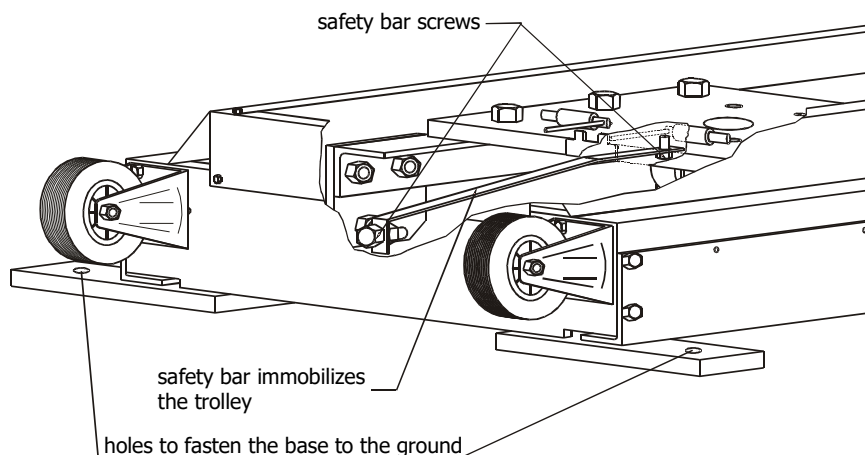


That pivotal joint is used to put posts in the upright position.

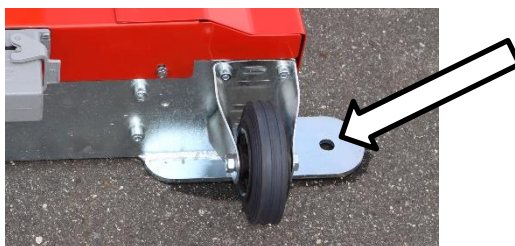
Lift the post to vertical position. Then one person holds the post and the second one screws "S" (unscrewed before M20x40 screws (4 pcs) with washers 20 (4 pcs). Screw the screw which is on the opposite side of post's hinge first.



Now remove the safety bars and store them for further use. They are helpful during disassembly and transport.



If the positions of the PV stands are checked and final, their bases must be fastened to the ground using the mounting holes of the flat bars of the bases.



The omission of that operation may cause stands overturn and result in serious accident or damages.

It is recommended that the bases are fastened to the ground with hex nut head steel sleeve anchors dia. 16 mm and length 140 mm (holes must be of dia. 16 mm and 130 – 150 mm deep). The concrete base is to be dry and non-cracked. For the installation of the anchors please see their producer's instruction.

The stands are ready for assembling the cabling.

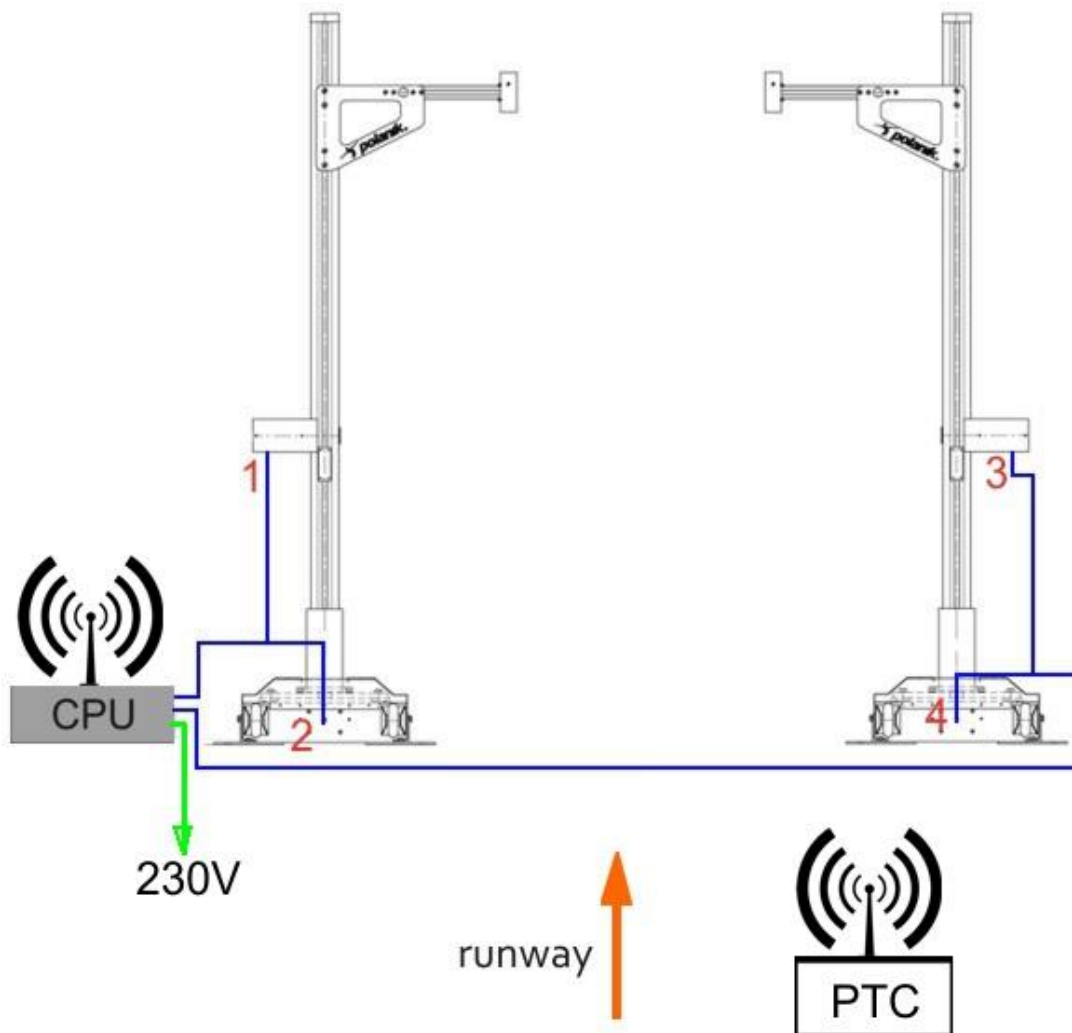
VI. Cabling assembly

ATTENTION! After all the cable connections have been completed, you must not move the posts or the crossbar supports manually, even if a power supply is not on. Before turning a power supply on you must connect all the set elements.

Connectors, posts and bases are marked with numbers from 1 to 4, see below:



Place CPU near the left stand and connect all the connectors in the way the diagram shows below.



- No. 1 to crossbar supporter's motor – left stand
- No. 2 to base's motor – left stand
- No. 3 to crossbar supporter's motor – right stand
- No. 4 to base's motor – right stand

ATTENTION!

While placing the cables under the landing area platform and landing area, make sure not to crush them. The cable to the post motor should be placed outside. It needs free room to move within the range 0-80 cm towards the landing area.



Connect CPU with the power supply using the included cable and switch on the power.



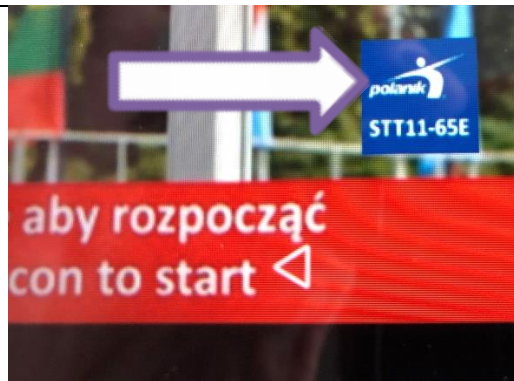
Switch on the tablet.
 Press and hold the
 power button for 3
 s, and wait awhile. If
 the tablet does
 start, please see the
 tablet instruction
 manual for details



The PV stand
 operating program
 should start
 automatically.















Tap the icon to
 start.



The program
 window should be
 displayed.

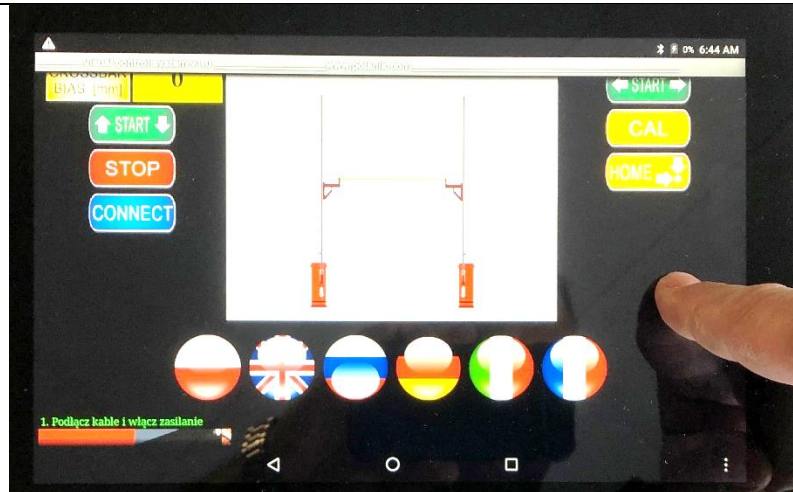


Program functions		
Touchscreen buttons	Function	How to operate
	It starts the automatic calibration process, the operator needs to calibrate the stands after the on power.	Touch the button.
	It lets you enter the bias of the crossbar, which the difference between the min. height 2100 mm and the actual height measured with measuring device.	Touch the field next to its description and enter the value using screen keypad. 
	It lets you enter the desired length beyond the "0" line.	Touch the field next to its description and enter the value using screen keypad. 
	It lets you enter the desired height.	Touch the field next to its description and enter the value using screen keypad. 
	It moves the posts to the entered position.	Touch the button.
	It moves the crossbar to the entered position.	Touch the button.
	It stops all the actions.	Touch the button.
	if the wireless connection between the tablet and the uprights has not been automatically established, starts the connection.	Touch the button.
	It lets you lower the supports to place the crossbar.	Touch the button.
Operation step by step		
<ol style="list-style-type: none"> 1. Connect all the cables. 2. Switch on the power in the CPU. 3. Switch on the tablet by pressing and holding the power button for 3s. Let the tablet complete booting on. 4. The welcome screen of the PV stand program should appear automatically. 5. Tap the icon of the PV stand STT11-65E. 6. If the wireless connection between the tablet and the uprights has not been automatically established please press "CONNECT". If the connection is not successful, please switch off the CPU and the tablet. Start the procedure again from point no. 2. 7. Press "CAL" to calibrate the uprights. 		

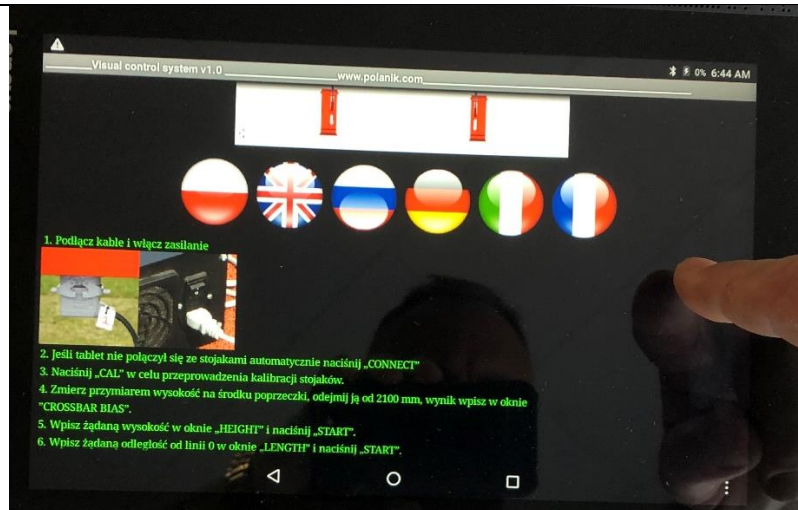
8. Check the height using a measuring device, subtract the height from 2100 mm, and enter the result into "CROSSBAR BIAS" window.
9. Enter the desired height into the field next to its description "HEIGHT" and press "START⇕".
10. Enter the desired distance from the "0" line into the field next to its description "LENGTH" and press "START⇔".
11. Press "HOME" to lower the crossbar supports for placing the crossbar.

How to use the help guide


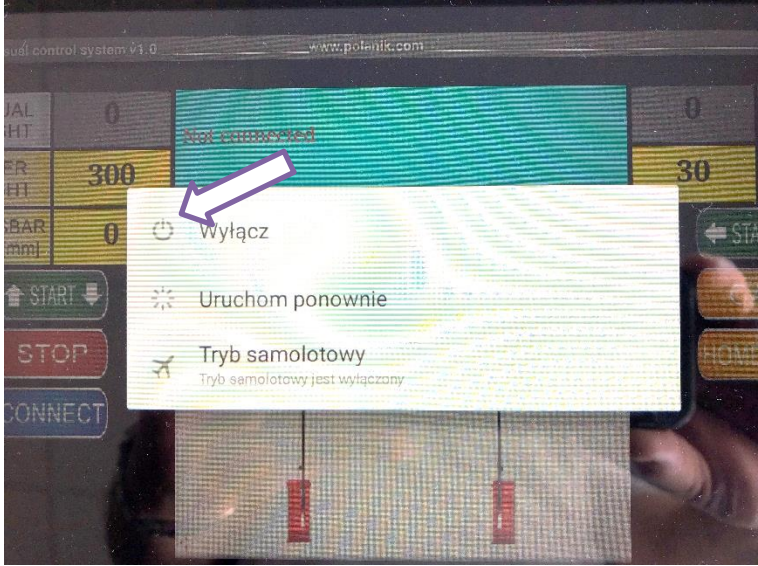
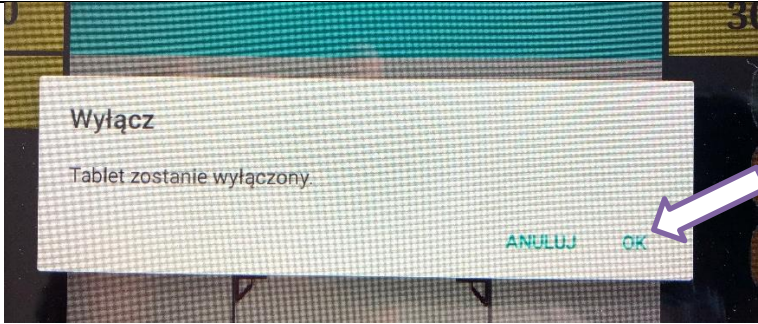

Move the screen up to see the bottom of the screen with help guides. Tab your language (PL, EN, RU, DE, ES or FR) to see the help text.



Follow the help guide.



VII. How to switch off properly the PV stands

Switch off the tablet:	
Press and hold the power button for 3 s.	
Confirm switching off.	
Confirm "OK".	
Switch off the power in CPU.	

VIII. Maintenance


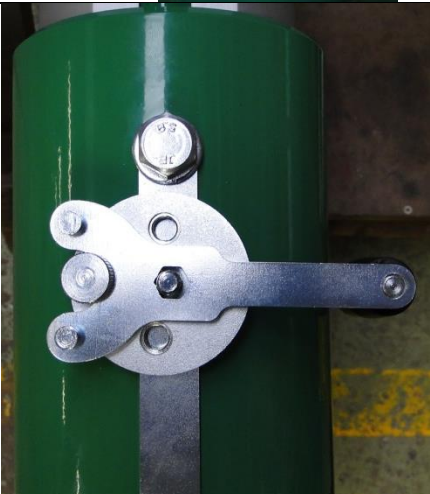
Setting up the stands in indoor arena – when the stands are fully assembled and their positions are set, the stand bases are to be anchored to the ground with mounting holes. A way of anchoring the bases should be consulted with the surface contractor of the jumping facility.



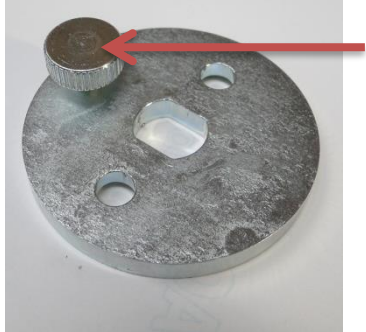

Setting up the stands in the open air – the stands are to be installed only for athletics competitions, when the competition ends, the stands must be obligatory disassembled and stored in a dry roofed room with minimal temperature of 5°C and maximal humidity of 80%.



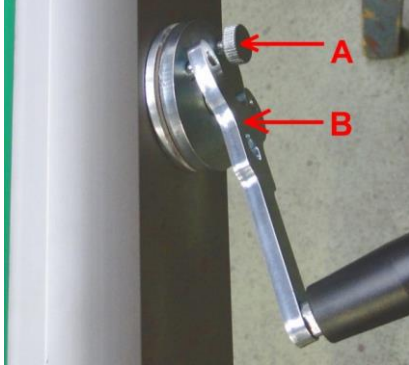


The base wheels should be only used to transport stands on level surfaces and within short distances. You should unscrew the posts from the bases and secure the base trolleys with safety bars to transport the stands for long distances.

IX. Emergency manual backup

In case of emergency (power loss, failure or damage of electric/electronic parts) the uprights are equipped with a manual backup feature. Please follow the below steps to install the backup crank:

Step	Description	Illustration
1.	Shut down the power and disconnect all the cables first.	
2.	The backup crank is fastened to the upright foot.	
3.	Unscrew the butterfly nut.	

Step	Description	Illustration
3.	Take off the crank.	
4.	Take off the mounting plate with the blocking screw.	
5.	Unscrew the blocking screw from the plate.	
6.	Use the crank to unscrew the washer of the stand axle counter clockwise.	

Step	Description	Illustration
7.	Take off the washer	
8.	Install the mounting plate on the stand axle. Use the crank to screw it down to the stand axle.	
9.	Install the blocking screw (A). To install the crank (B), put in the still pegs at the angle first and push it down.	
10.	Adjust the desired height and then remove the crank. Turn the blocking crew to immobilize the crossbar support.	
11.	Use the backup measuring scale on the post to position the crossbar supports.	

X. IAAF certificate

International Association of Athletics Federations



Product Certificate

The IAAF is pleased to certify hereby that the following product:

Product's Trade Name: Uprights, Pole Vault, Competition

Description, Colour / Absolute Thickness: Aluminium, steel, 2.10m-6.28m, electric, Silver/red

Company Name, Country: Polanik Sp. z o. o.- Sp K, POL

Catalogue Number: STT11-65E

IAAF Certification Number: E-11-0620

meets the dimensional requirements for use in all international athletics competitions.

It is for the purchaser to determine the item's fitness for the purpose based on his knowledge of the local conditions and use.

Valid from: 1 July 2015

Until the last day of: July 2019

This certificate is issued in accordance with the terms and conditions of the IAAF Certification System of track and field facilities, implements and competition equipment.


ESSAR GABRIEL
IAAF General Secretary


JORGE SALCEDO
IAAF Technical Committee Chairman

