

## USER MANUAL

### Competition pole vault electric stand set

#### STT11-65E



### Thank You for choosing POLANIK electric stand set!

Before you start to assemble and use the stand set please read this manual carefully and store the manual in a safe place for further reference. Polanik shall not be liable for any cage damages which are the result of the failure to follow this manual.

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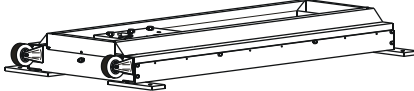
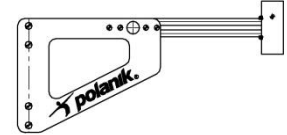
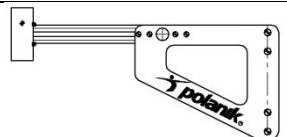
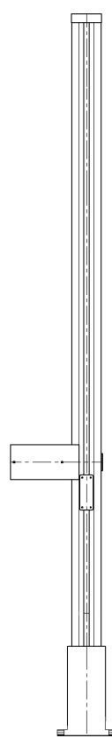
## I. General description and use

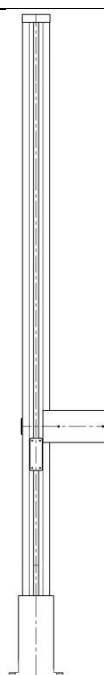


STT11-65E is the result of Polanik's long and profound experience in the field of the athletics equipment production. Our electrical version of the competition PV stand completes fully the product offer. The stands are driven electronically by two step motors. The operator uses the microprocessor console (SOC stand operating console) to enter desired horizontal and vertical positions of the crossbar, then the adjusted values are processed by the main unit (CPU) which drives the step motors. The console 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 console 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

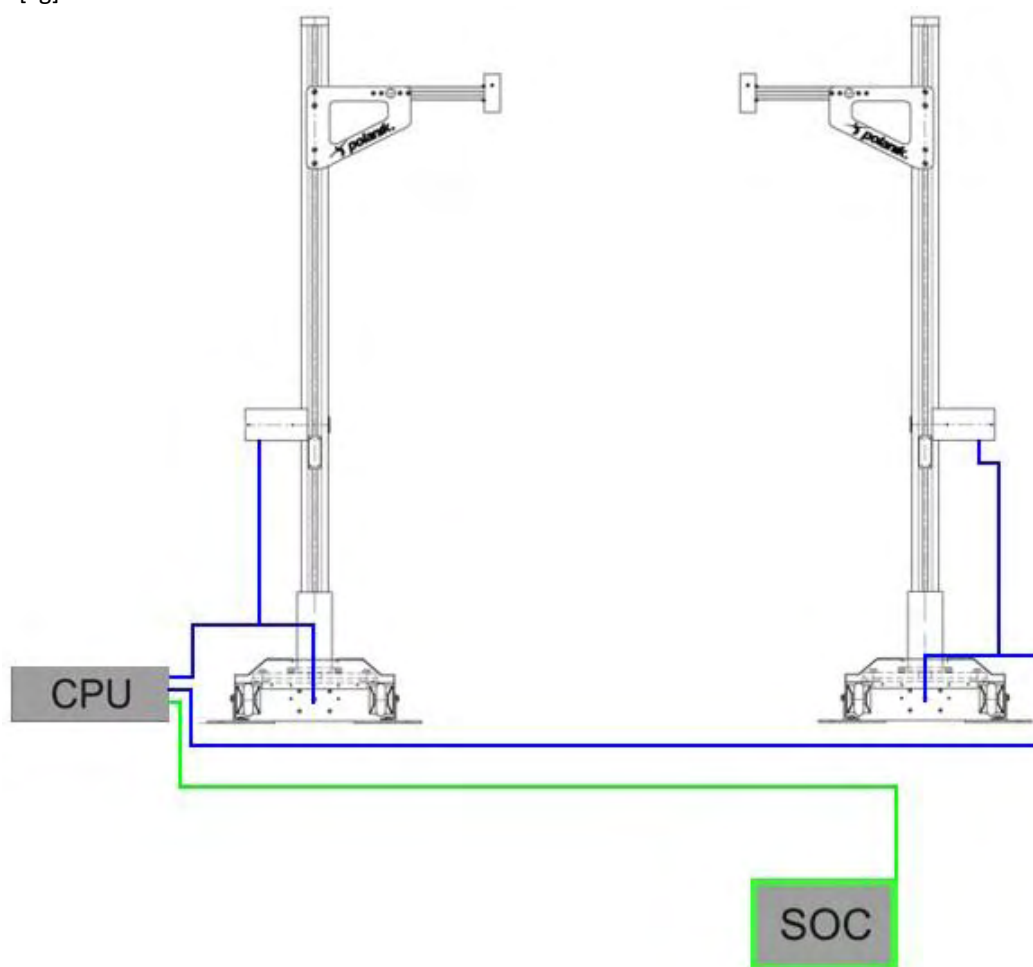
STT11-65E is a complete set of two electric pole vault stands which are designed for athletics competitions of pole vaulting. The set includes the following elements:

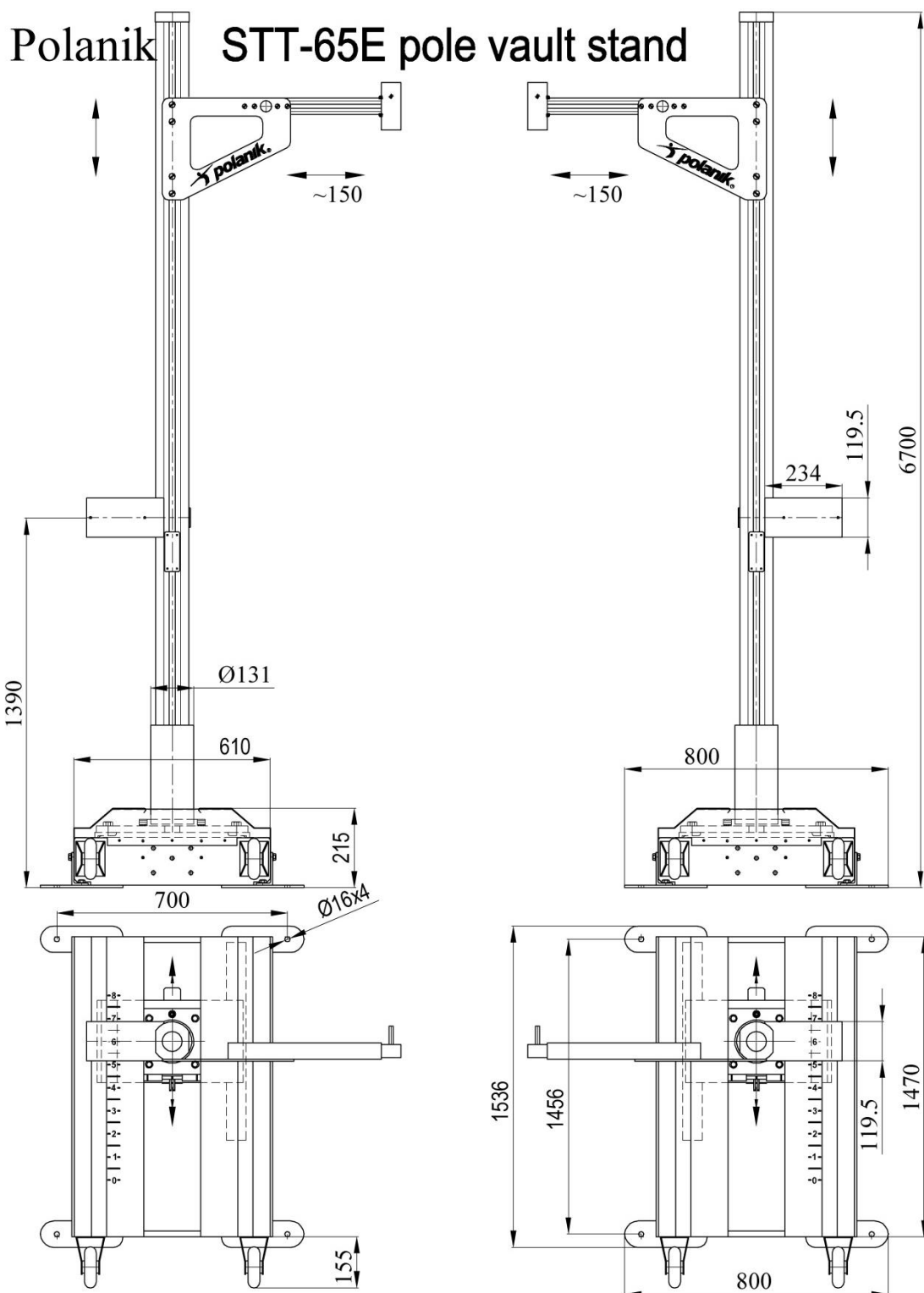
Item no.	Part/set description	Q-ty Pcs.	Part/set sketch
1	Left base + screw M 20x40 (4 pcs) + washer 20 (4 pcs)	1	
2	Right base + screw M 20x40 (4 pcs) + washer 20 (4 pcs)	1	
3	Left crossbar support	1	
4	Right crossbar support	1	
5	Left post + countersunk hex key screw M 10x40 (4 pcs)	1	

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 with cables)	1	
8	SOC (stand operating console)	1	
9	Cable CPU to SOC	1	-
10	Power supply cable 230V	1	-

### III. Technical specification

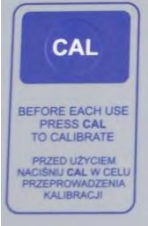

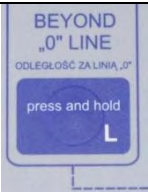

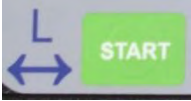
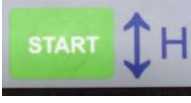

Code	STT11-65E
Stand type	IAAF certified, competition, electric
Crossbar support	powder painted aluminium profiles and anodized aluminium sheets
Post	special aluminium profile, detachable
Base	steel galvanized, equipped with wheels, with 4 anchoring holes
CPU (central processing unit)	heavy duty cased main unit situated near left stand base
SOC (stand operating console)	light detachable console 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
Measuring tape	installed in C-shaped groove, easily replaceable
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 weight [kg]	~400





STT11-65E dimensions [mm]

#### IV. Keys and indicators of SOC (stand operating console)

Key or indicator	Function
	starts the automatic calibration process, the operator needs to calibrate the stands after the on power
	lets you enter the bias of the crossbar
	lets you enter the desired length beyond the “0” line
	lets you enter the desired height, it is also used with the press and hold keys to enter other values
	moves the posts to the adjusted position
	moves the crossbar to the adjusted position
	stops all the actions
“*”	flashing – the respective step motor is working still – the respective step motor is idle



## V. General assembly

Follow the manual below to assemble the stand. Stand is delivered in parts. One complete set contains two bases(item 1 and 2), two posts(item 5 and 6), two crossbar supports(item 3 and 4), CPU(central processing unit)-item 7, SOC (stand operating console) - item 8, cable CPU to SOC (item 9) and Power supply cable 230V(item 10). To assemble the stand You will need:

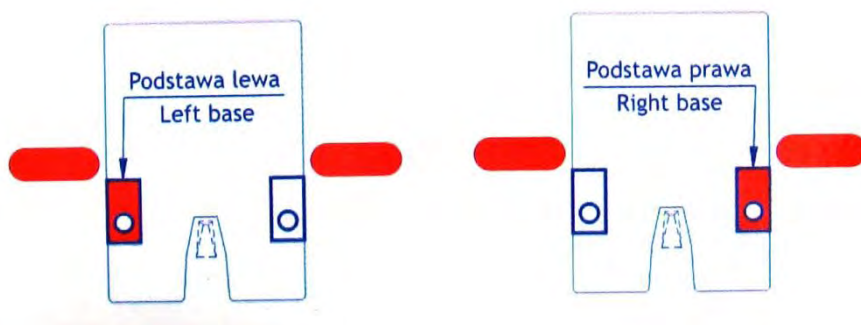
- hex key 6 and 8
- flat wrench no. 13
- flat wrench no. 19
- flat wrench no. 30

We recommend assembling the set in the place of exploitation because it is easier to move parts than the whole stand. To avoid shifting during transport posts' trucks are combined with special blocking. They should remain combined until You screw the post to the truck. After fastening posts remove blocking.

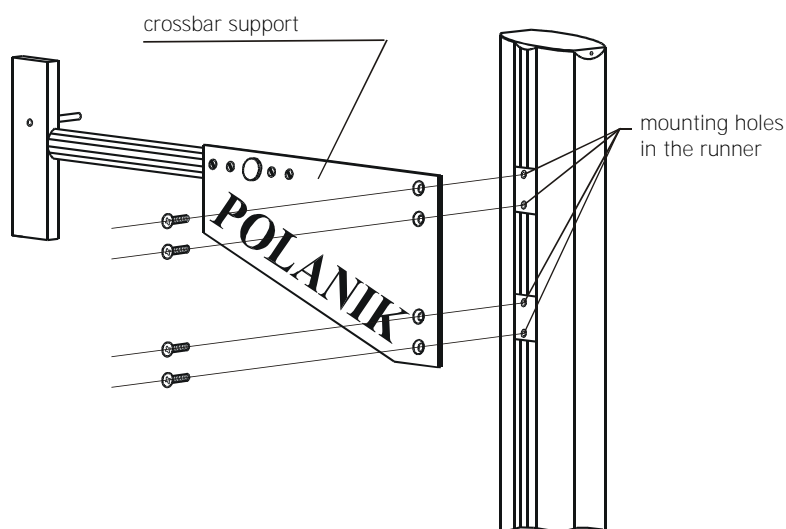
## VI. Assembly



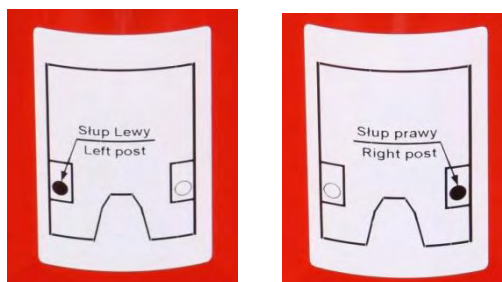
**ATTENTION:** do the following steps in the right order to avoid an accident and stand's damage.



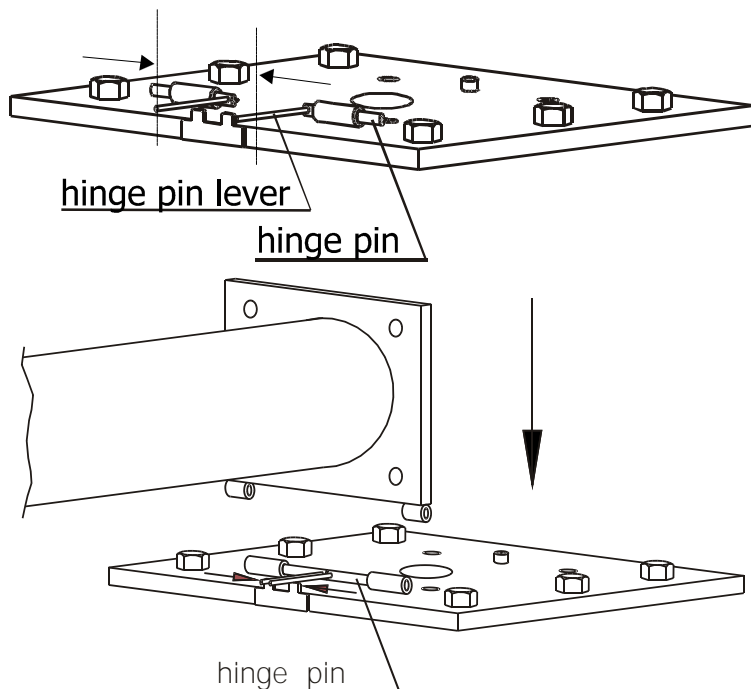
As it is marked on bases, we place them by the left and right side of a landing area. IAAF regulates that the "0" position should be on the line made of PV box.



Screw crossbar supports to lying posts(left and right) using screws screwed into guides on posts(4 pieces of tap screws with steep head). That is a complete post, ready to assemble it on a base.

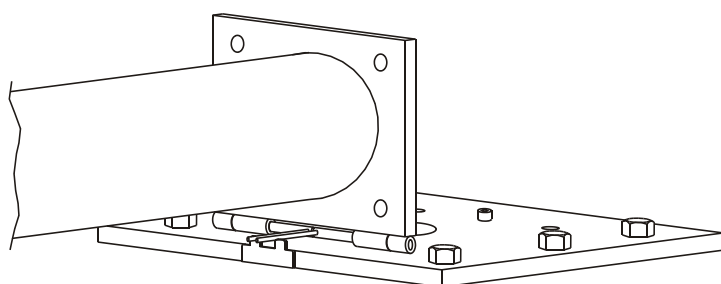


Assemble the posts by following placed on them sings.



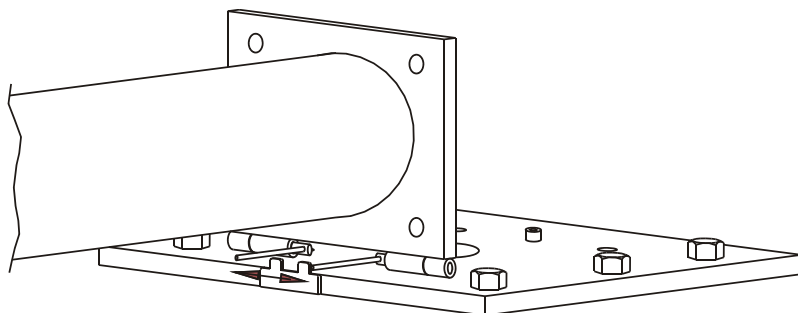
Unscrew M20x40 screws(4 pcs) and take out washers 20 (4 pcs). Clutch hinge pin's levers.

Set the post horizontal to place sleeves on the post holder in one line with pins on the base's track.

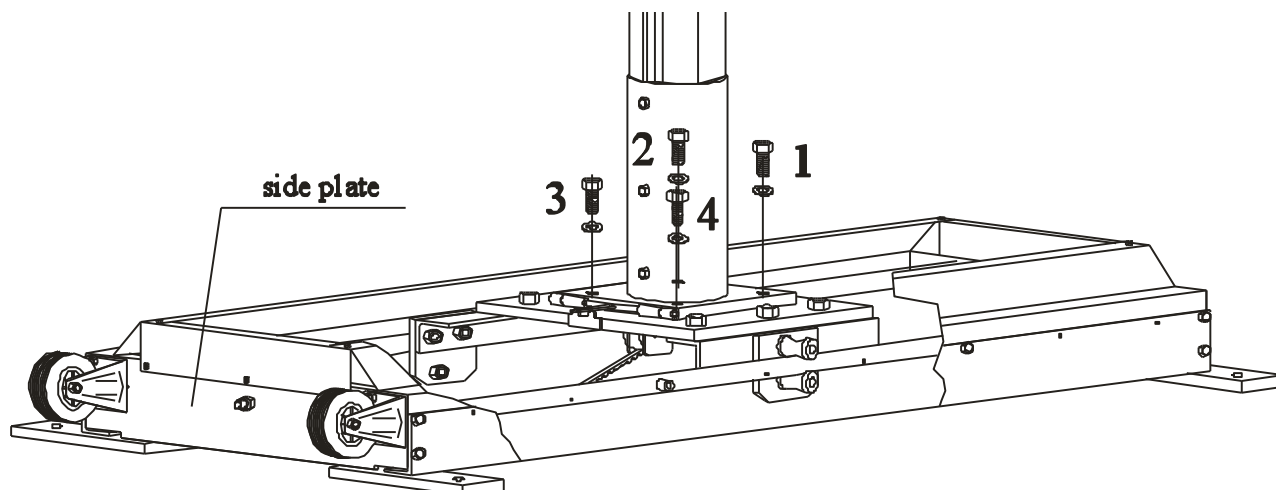


Lower the post till a contact with base's board.

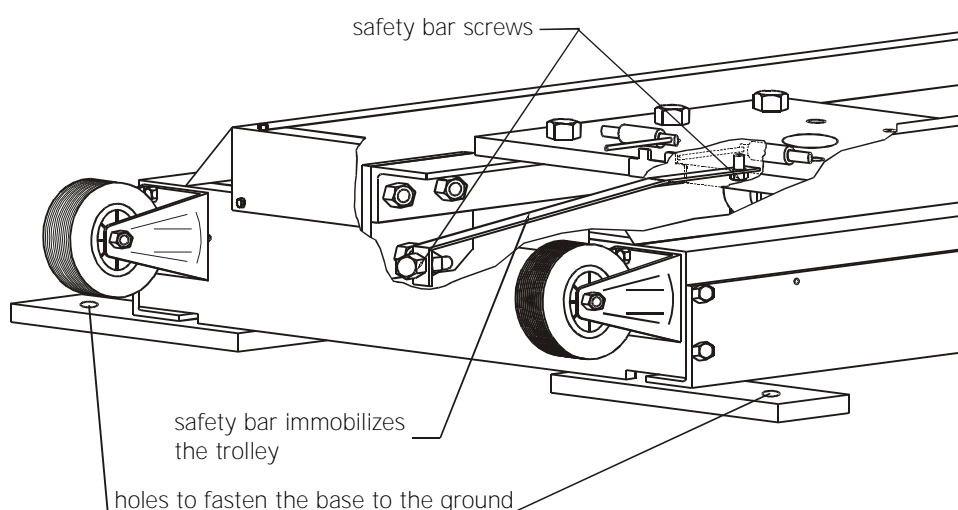
Loose pins which, thanks to springs, will return to their operating position and block the post in it's initial position to lift it to vertical position.



Lift the post to vertical position and, in the same time, pull cogged strips down. Then one person holds the post and the second one screws 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.



Remove the blockings and store them, because they can be useful while disassembling.

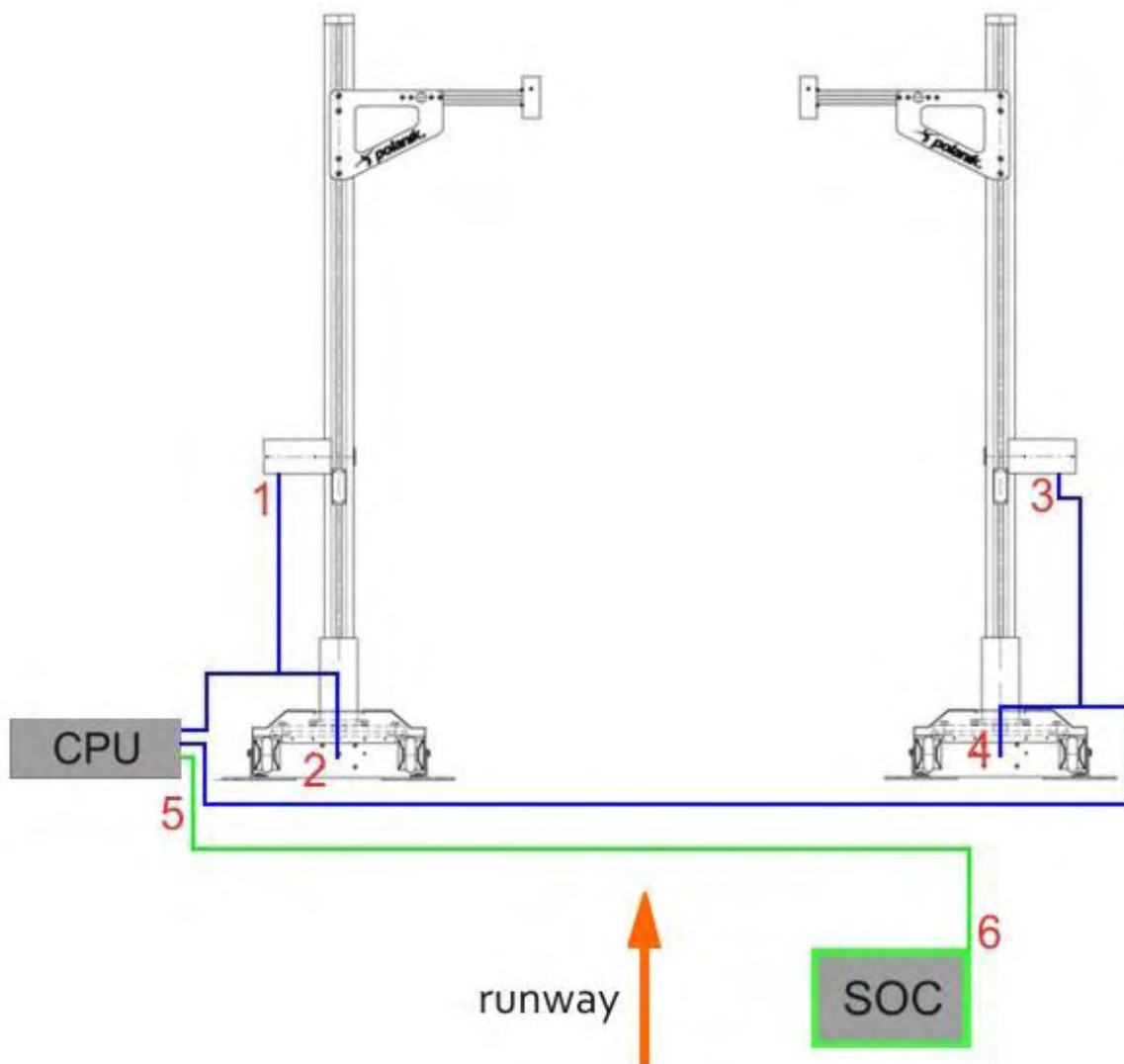


Stands are ready for assembling the cabling.

## VII. Cabling assembly

**ATTENTION! After all the connections are ready you must not move posts and crossbar supporters manually, even if a power supply isn't on. Before turning a power supply on you must connect all parts.**

Place CPU near the left stand and connect all connectors in the way the diagram below shows. Connectors have numbers from 1 to 6.



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

No. 5 to CPU

No. 6 to SOC

Then connect the net-cable to CPU's socket.



Make the SOC's switch in ON position.






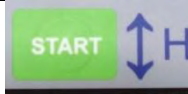


After assembly cabling lay out a landing area.



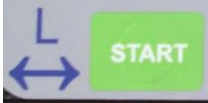



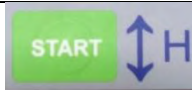
**ATTENTION! You should be careful of cables connecting CPU with stands, especially those which are placed under a landing area. Cables from posts' motors should lay outside a landing area, as the picture below shows.**



## VIII. Preparing for the first use and operating

Make the CPU's switch in ON position,	
system starts working- You can see it on the SOC's screen.	
Then the system asks an operator to calibrate stands. press <b>CAL</b> - the crossbar supports are set in the start-up height 210 cm and the posts are positioned in the "0" line. Place the crossbar on supporters and, using MDPV-8 gauge, check measured height.	
Now count current crossbar bias- subtract the measured result from calibrated height 2,1 m. Add the crossbar bias to the system: -press and hold <b>vk</b> -adjust the bias turning the knob towards "-" or "+" -release <b>vk</b>	
The set is ready for competition.	
<b>adjustment the desired height</b> – use the handwheel,	
when You got requested height on the display press <b>START</b>  <b>H</b> , what starts the motor	



<p>“*” sign is flashing- the motor is working</p> <p>“*” sign stops flashing when supports achieve requested height</p>	
<p><b>adjusting the desired distance beyond “0” line</b></p> <p>-press and hold <b>L</b></p> <p>-adjust the length turning the knob towards “-” or “+”</p> <p>-release <b>L</b></p>	
<p>press <b>↔L START</b> to position the posts at the length</p>	
<p>“*” sign is flashing- the motor is working</p> <p>“*” sign stops flashing when supports achieve requested height</p>	
<p>You can stop the motor at every moment by pressing <b>STOP</b></p>	
<p><b>Imposition of thrown down crossbar</b>– press <b>CAL</b> and the crossbar will automatically achieve 2,1m height. Place the crossbar on supports without using fork</p>	
<p>press <b>START↕H</b>, supports will achieve the same height as they had before pressing CAL</p>	

## IX. Maintenance




Setting up the stands in indoor arena – when the stands are fully assembled and their positions are set relative to the landing area, 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.

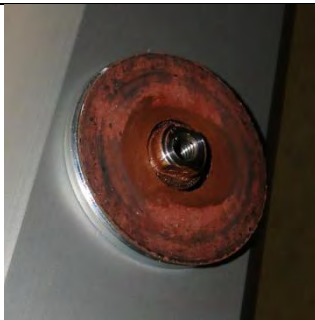

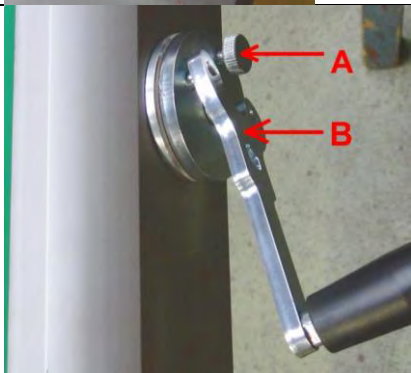
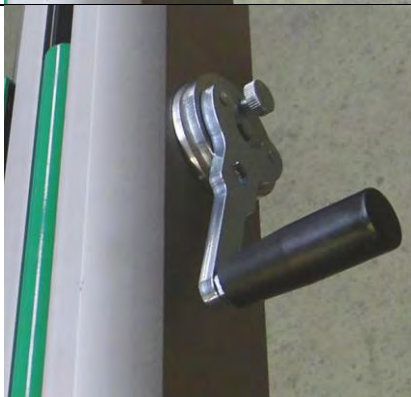
## X. Emergency manual backup

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.	<b>Shut down the power and disconnect all the cables first.</b>	
2.	The backup crank is fastened to the upright foot.	
3.	Unscrew the butterfly nut.	
3.	Take off the crank.	



Step	Description	Illustration
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.	

#### XI. Packing and transport

The set is packed in three cases, their approximate dimensions are:

1/3 6,65 x 0,35 x 0,35 [m]

2/3 6,65 x 0,35 x 0,35 [m]

3/3 1,70 x 0,85 x 0,65 [m]

The gross weight is 360 kg.

## XII. Certificate



# 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

