

➔ Application

- poles for the installation of single lights and poles for crossbar for approach-lighting systems
- wind-direction indicators

➔ Certificate basis

- satisfy the frangibility requirements in Annex 14 of ICAO regulations, and in the Aerodrome Design Manuals, Part 6

➔ Description/Properties

- maximum passive safety, in case of collision, the poles break off easily without producing sparks
- poles made of fiberglass-reinforced plastic conform to frangibility approval regulations
- internal cable guide, completely encased and covered
- no reflection or interference of radar or radio signals
- material that is corrosion-resistant to chemicals occurring in air, and against aggressive gases and liquids
- easy and fast assembly owing to low intrinsic weight of the poles
- low flammability
- short times for final assembly of the systems
- less formation of ice than on conventional materials
- high dynamic and mechanical strength
- variable equipment according to customer's request
- smooth and homogeneous surface

➔ Three versions (to meet specific local requirements and circumstances)

- one segment, up to 16 m total height (GRP)
- two segments, up to 25 m total height (GRP)
- hybrid model, up to 50 m total height (lower part folded steel-plate pole, upper part GRP)



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→ Poles for the installation of single lights

Poles up to 2,0 m for the installation of one light, cylindrical construction, pole Ø 60 mm:

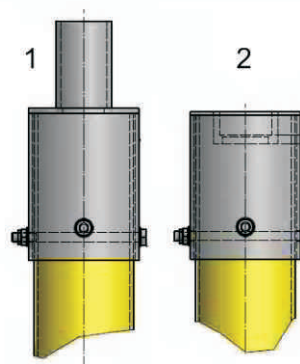
- available with tube Ø 60 mm or with thread 2" NPSM
- construction with a stiff or tiltable baseplate, dimensions 270×270 mm; a pole construction to be screwed onto a baseplate is available too
- painting of the pole uni-coloured or in 2 colors (RAL according to the clients requirements)
- installation through anchor cage

Poles from 2,5 m up to 6,0 m for the installation of one light, cylindrical construction, pole Ø 108 mm:

- available with tube Ø 60 mm or with thread 2" NPSM
- construction with a stiff or tiltable baseplate, dimensions 270×270 mm;
- painting of the pole uni-coloured or in 2 colors (RAL according to the clients requirements)
- installation through anchor cage

Poles from 6,5 m up to 15,0 m for the installation of one light

- available with tube Ø 60 mm or with thread 2" NPSM
- construction with tiltable baseplate, dimensions 720×500 mm
- painting of the pole uni-coloured or in 2 colors (RAL according to the clients requirements)
- installation through anchor cage



1 - tube Ø 60 mm
2 - thread 2" NPSM

→ Poles for a crossbar in one piece

- up to 6,0 m cylindrical construction, top- / base diam. 168 mm
- 6,0 m up to 16,0 m conical- / cylindrical construction (to be able to adjust the pole on site, the upper first meter is always cylindrical)
- construction with a stiff or tiltable baseplate
 - poles up to 3,0 m:
baseplate dimensions 400×400 mm (tiltable by hand)
 - poles up to 16,0 m:
baseplate dimensions 720×500 mm (tiltable by spindle lifting element)
- painting of the pole uni-coloured or in 2 colors (RAL according to the clients requirements)
- installation through anchor cage



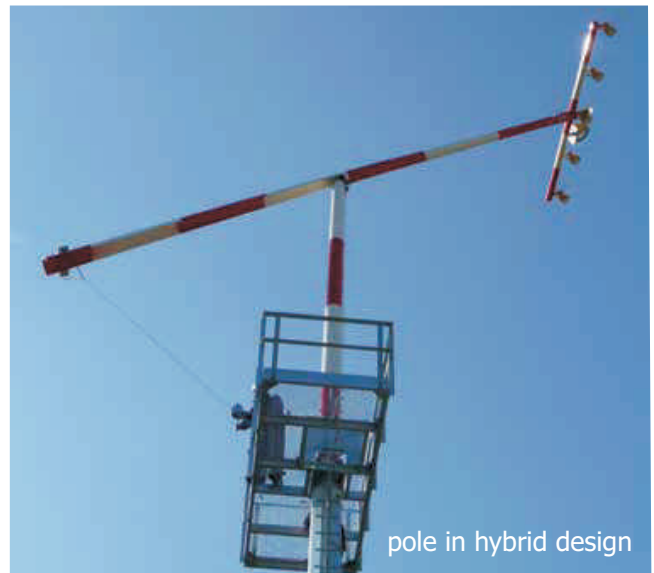
➔ Poles for a crossbar in two pieces

Usually, poles higher than 14,0 m are manufactured in 2 pole segments:

- this makes it possible to transport the pole by truck or in a container
- up to 20 m, we are able to produce the top and the bottom of the pole out of FRP
- both segments are connected through a flange
- these poles can be tilted by one man using a spindle lifting element

Poles higher than 20 m are manufactured in a special hybrid design:

- the lower part of the pole is made of steel and the upper 12 m are always made of FRP (both pole segments are connected through a flange)
- if required, the poles are equipped with a special tilting mechanism, there, the upper FRP part can be tilt down to a maintenance platform to be inspected



➔ Crossbar

- europoles manufactures cylindrical crossarms with standard lengths up to 6,20 m (and longer upon request) and with diameters of 134 mm, in accordance with the customer's requirements
- the individual connection elements are produced according to the type of the luminaires, and their intervals



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→ Wind-direction indicators for airports and helicopter pads

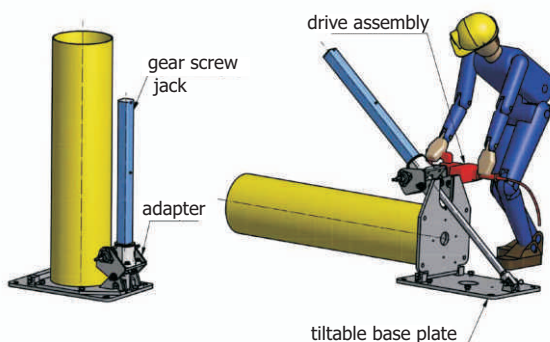
- include tiltable bases for the poles, luminaires, and windsocks (optionally with lighting)
- glass-fibre reinforced plastic poles
- perfectly smooth and homogeneous surfaces
- availability in many RAL colour shades, or with red-white paint versions
- weather-resistant polyester-fleece/fine-resin layer, 0,5 mm thick, on the outside of the windsock poles
- material that is corrosion-resistant to chemicals occurring in air, and against aggressive gases and liquids
- use of substances that are difficult to ignite
- no care and maintenance costs
- low transport and assembly/installation costs as a result of the lightness of the components
- great mechanical and dynamic strength
- a special vibration-damping feature to protect the attached components and the luminaires
- the stainless-steel support for the windsock itself is attached by a flange at the top of the mast
- two slide bearings enable the windsock to rotate 360°



- the sock itself is manufactured from a textile fabric made of ultraviolet and weather-resistant polyester
- the sock, in the form of a truncated cone, its length corresponds to standards
- it can be delivered with single or double rings
- the double-ring version enables the sock to fill more easily with wind at very low wind speeds

→ Maintenance (quick and easy)

- in order to facilitate a rapid maintenance of the poles, EuroPoles offers all approach lighting poles with tiltable baseplates besides fixed ones
- depending on the pole height and weight of the attachments, the masts can be tilted by hand or spindle lifting element



- low costs for installation and maintenance
- fast and convenient installation, including cabling
- operation by only one person
- no cherry-pickers or cranes necessary



Poles - ordering codes

type	pole length [m]	ord. codes
pole for 1 light, thread 2" NPSM, non tiltable	from 0,5 to 2,0	950-005.L
pole for 1 light, thread 2" NPSM, base 270×270 mm, tiltable	2,5 to 6,0 m	950-006.L
pole for 1 light, thread 2" NPSM, base 720×500 mm, tiltable	from 6,5 to 15,0	950-007.L
pole for crossbar, base 400×400 mm, not tiltable	from 1,0 to 1,5	950-008.L
pole for crossbar, base 400×400 mm, tiltable	from 2,0 to 3,0	950-009.L
pole for crossbar, base 720×500 mm for spindle lifting	from 3,5 to 6,0	950-010.L
pole for crossbar, base 720×500 mm for spindle lifting	from 6,5 to 15,0	950-011.L

L=pole length [cm]

Crossbars with thread 2" NPSM - ordering codes

type	manufact. codes	ord. codes
crossbar l=2,8 m for 2 lights á 1,3 m	Nº 48	950-012
crossbar l=2,8 m for 3 lights á 1,3 m	Nº 45	950-013
crossbar l=4,1 m for 4 lights á 1,3 m	Nº 44	950-014
crossbar l=4,1 m for 4+1 lights á 1,3 m	Nº 46	950-015
crossbar l=3,2 m for 2 lights á 1,5 m	Nº 47	950-016
crossbar l=3,2 m for 3 lights á 1,5 m	Nº 22	950-017
crossbar l=4,7 m for 4 lights á 1,5 m	Nº 41	950-018
crossbar l=4,7 m for 4+1 lights á 1,5 m	Nº 43	950-019

Crossbars with tube diameter 60 mm

typ	manufact. codes	ord. codes
crossbar l=2,9 m for 2 lights	Nº 01	-
crossbar l=4,2 m for 4+1 lights	Nº 02	-
crossbar l=5,6 m for 2+1 lights	Nº 03	-
crossbar l=3,2 m for 2+1 lights	Nº 04	-
crossbar l=1,7 m for 2+1 lights	Nº 05	-
crossbar l=4,7 m for 4+1 lights	Nº 06	-
crossbar l=4,2 m for 5+1 lights	Nº 07	-
crossbar l=1,7 m for 2+1 lights	Nº 11	-
crossbar l=1,2 m for 2 lights	Nº 13	-
crossbar l=3,2 m for 3+1 lights	Nº 20	-
crossbar l=4,7 m for 4 lights	Nº 24	-
crossbar l=1,7 m for 2 lights	Nº 26	-
crossbar l=6,2 m for 4+1 lights	Nº 29	-

Spindle lifting element - ordering codes/application

type	ord. codes
lifting power up to 2,5 t (for poles up to 9,90 m)	950-020
lifting power up to 5,0 t (for poles of 10,00 m or higher)	950-021

Anchor cage - ordering codes/application

type	ord. codes
anchor cage for base plate 270×270 mm	950-022
anchor cage for base plate 400×400 mm	950-023
anchor cage for base plate 720×500 mm	950-024

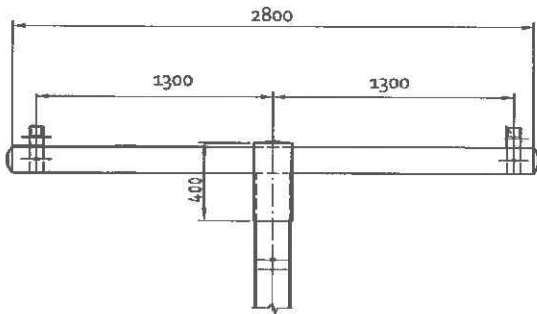
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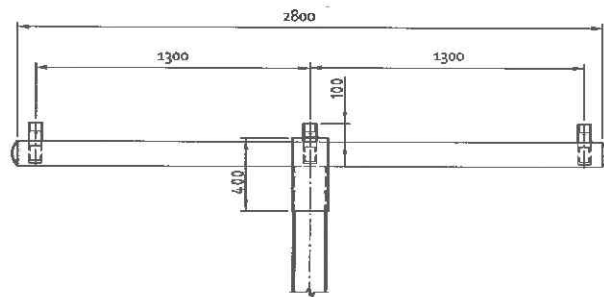


Crossbar with thread 2" NPSM

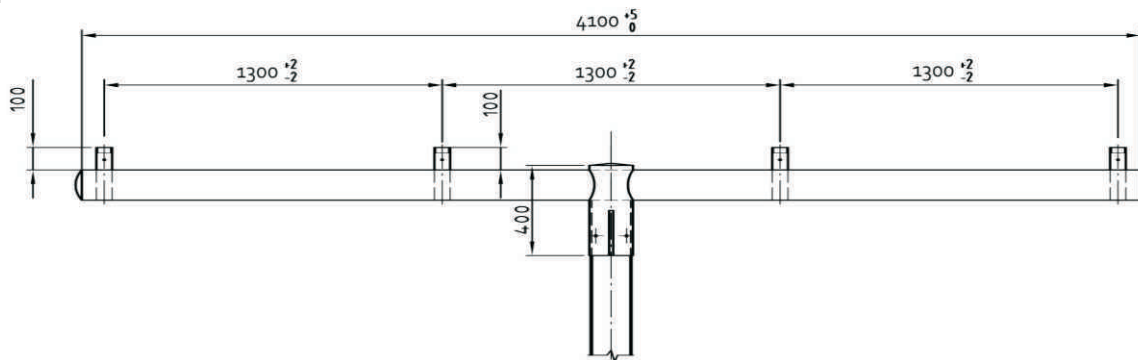
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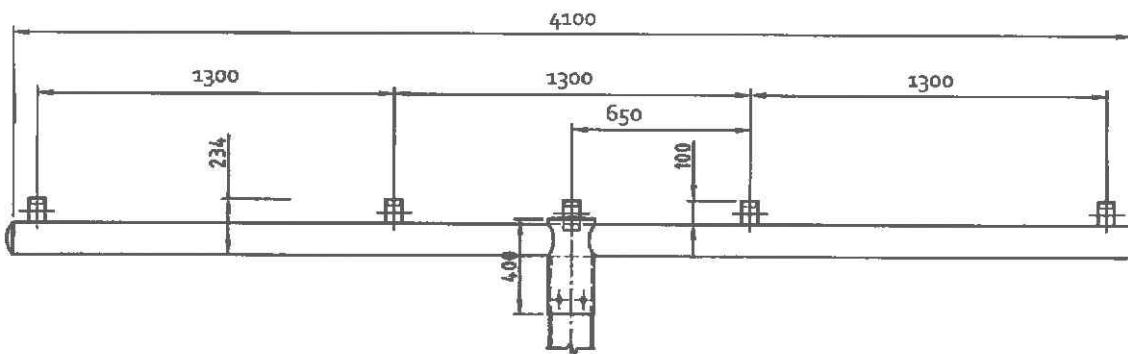
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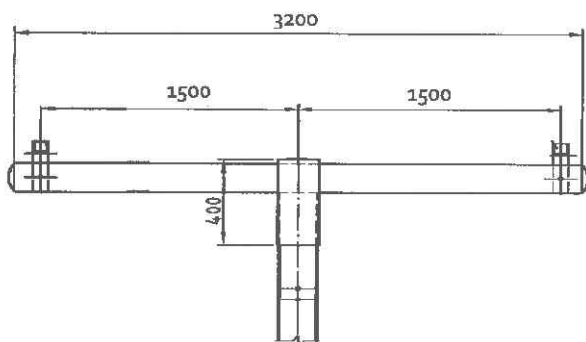
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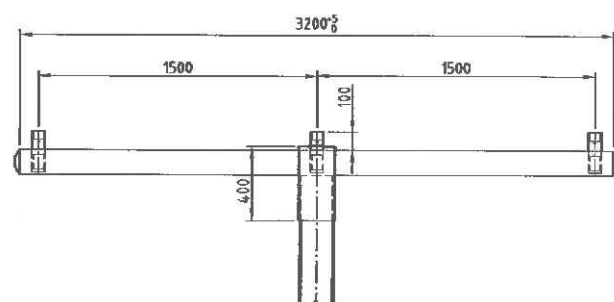
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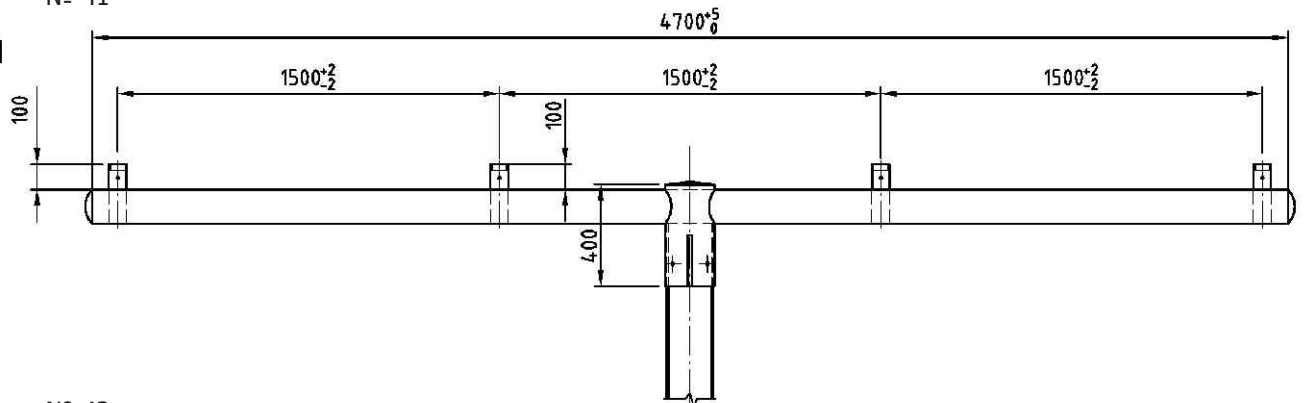
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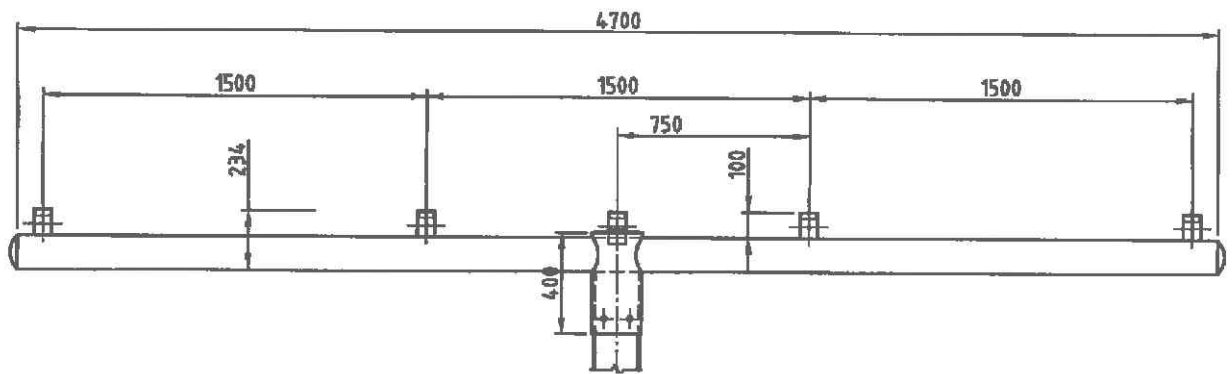
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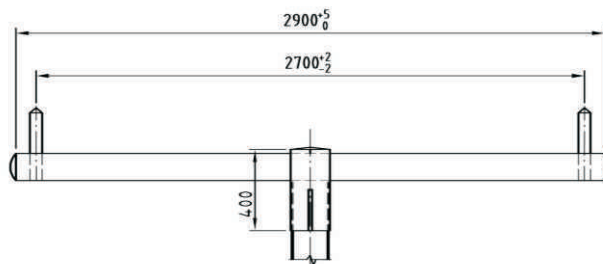


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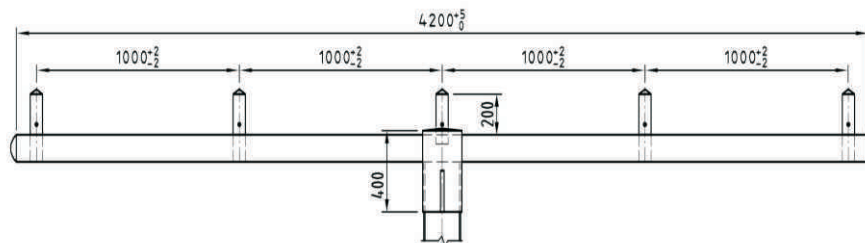


Crossbars with tube diameter 60 mm

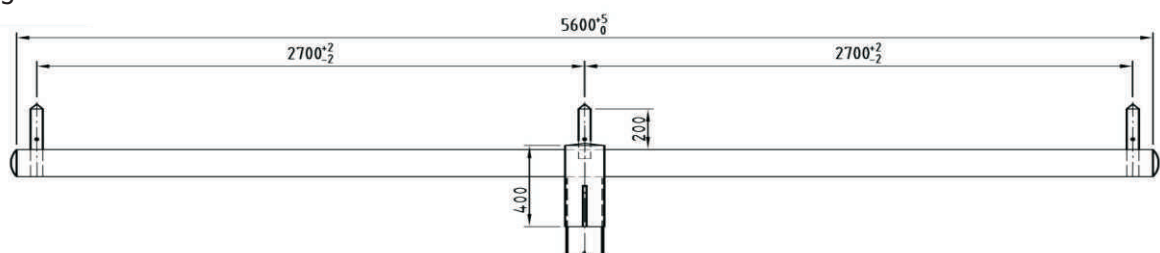
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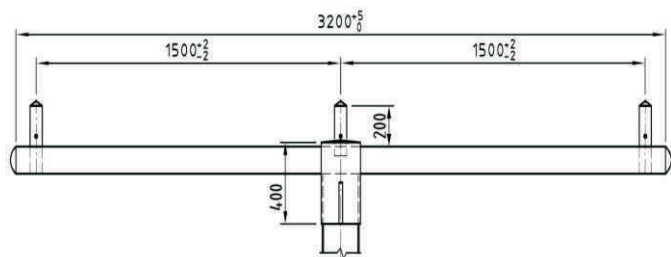


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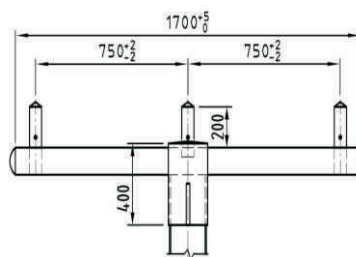
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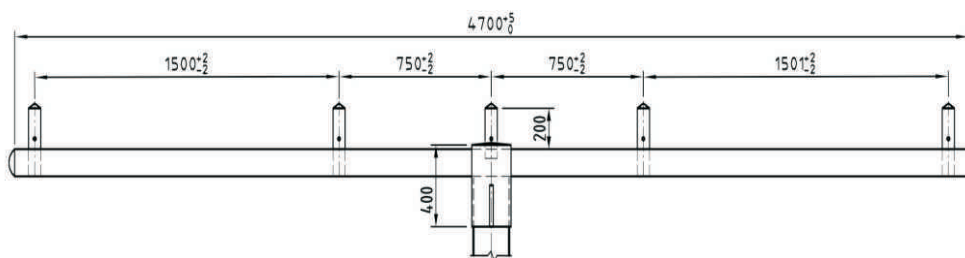
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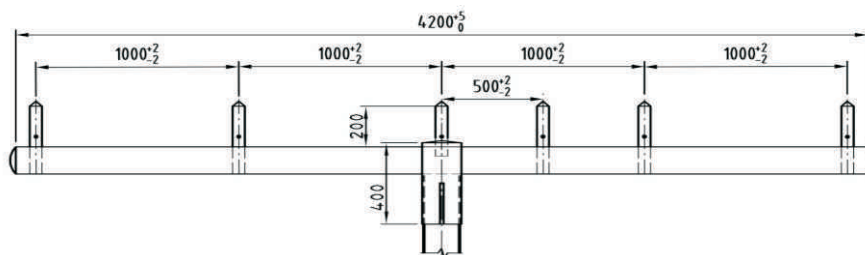
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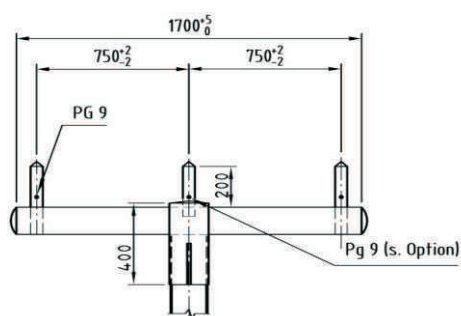
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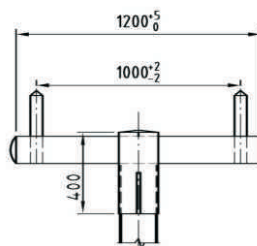
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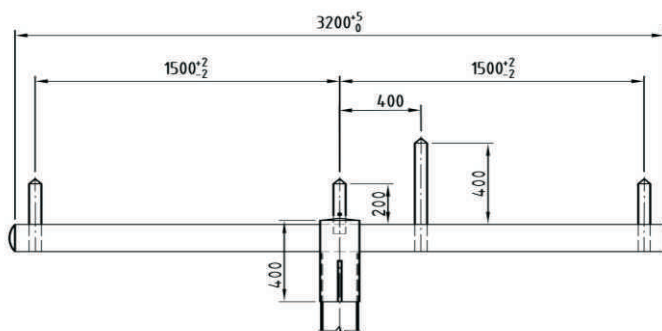
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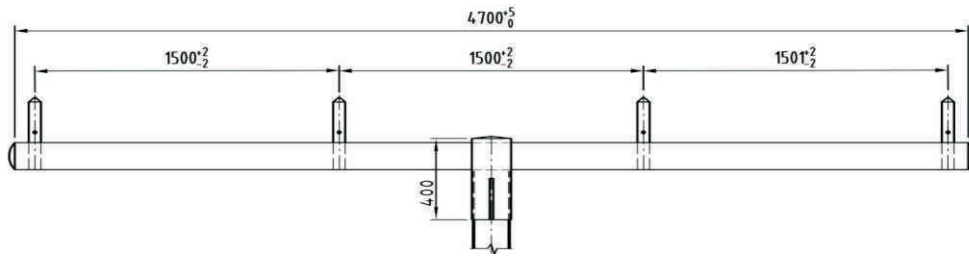
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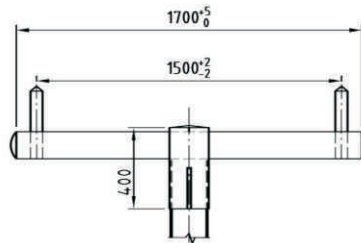
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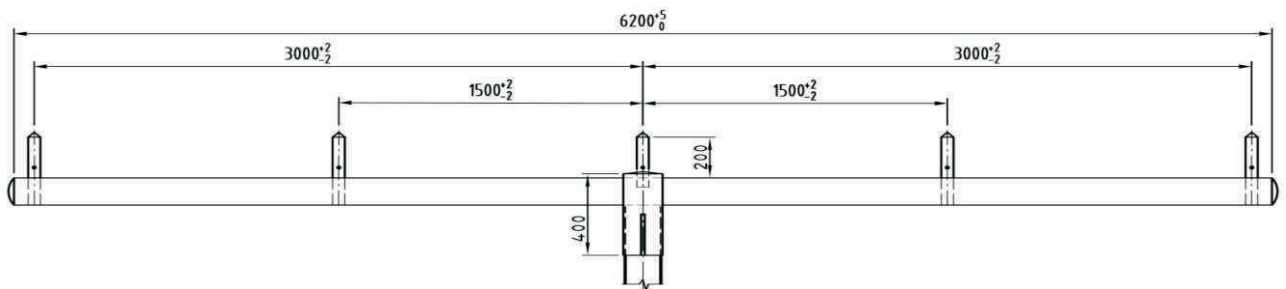
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