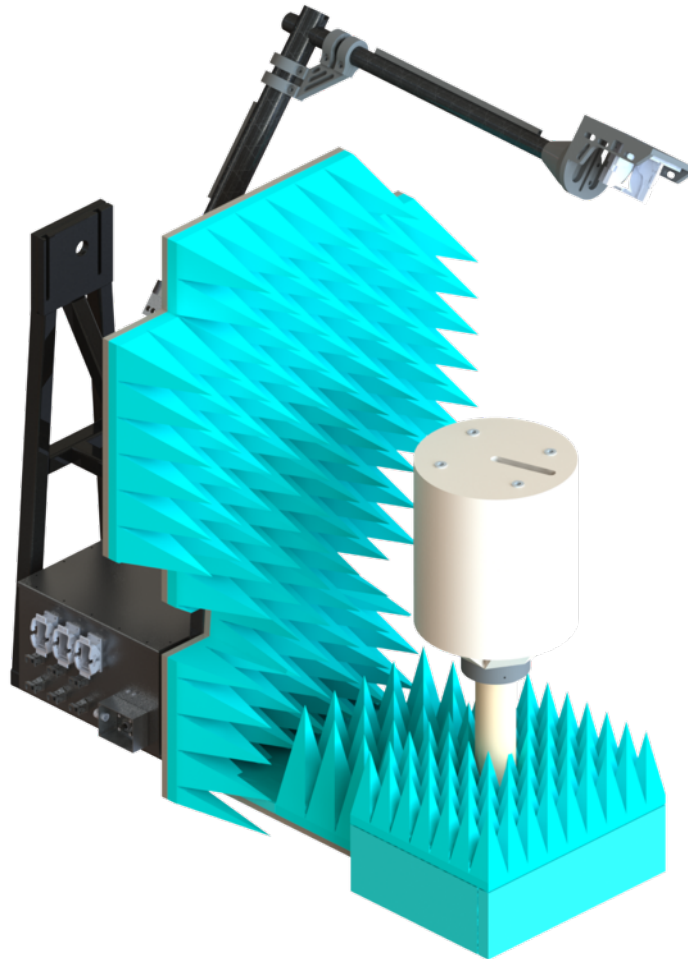


DATA SHEET

WPTC-Standard Precision



Features:

- Independent rotations of both axes
- Variable speed adjustments in both theta and phi axes
- Possibility of operation in manual, semi-automatic and simultaneous remote control mode via LAN interface with the controller NCD using fiber optic control
- Manufactured with low reflective dielectric material
- Readout by motor encoder
- Use of reliable, long-lasting and maintenance-free bearings
- Integrated rotary joints for different connectors of DUT available

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WPTC – XS

Article number	27883
Azimuth positioner	
Diameter	400 mm
Load capability / Offset of centre of gravity	34 kg / 5 cm 16 kg / 15 cm
Positioning accuracy	0.5°
Rotating speed	up to 72°/s
Rotating angle	continuous
Rotation axis height adjustable	With different disks in steps of 25mm and 50mm
Elevation positioner	
Range length	833 mm – 783 mm (rotation centre to antenna mounting flange)
Rotation axis height	1168 mm above ground floor
Load capability	5 kg
Positioning accuracy	0.5°
Rotating speed	up to 20°/s
Rotating angle	± 165° (depending on used antenna)
General technical data	
Voltage (standards) others on request	400 VAC, 50 Hz, three phases 208 VAC, 60 Hz, three phases
Required Fuse	max. 16 A
Discharge current	30 mA per drive unit (higher in the moment when powering on)
Recommended RCD	300 mA
Temperature range	5° C – 35° C
Total weight	approx. 300 kg

The elevation antenna arm is made of plastic and carbon fiber reinforced plastic

Accessories incl.:

- Energy chain for elevation positioner, width x height: 15 mm x 17 mm
- Packing and Handling in wooden box
- Safety function for WPTC; Positioner shuts off when door is opened
Safety switch itself will be installed by chamber manufacturer
- One holder for rotary joint in azimuth positioner
- One antenna adapter for antennas DST-B215, Howland QR3A, Horn Antenna QR4, Schwarzbeck 700MHz, TC-TA18 or QR18000

Positioner can be mounted with anchors to concrete or glued directly to ground floor. If anchors are used, they have to be provided and mounted by chamber manufacturer

WPTC – S

Article number	24872
Azimuth positioner	
Diameter	575 mm
Load capability/ Offset of centre of gravity	34 kg / 5 cm 16 kg / 15 cm
Positioning accuracy	0.5°
Rotating speed	up to 72°/s
Rotating angle	continuous
Rotation axis height adjustable	With different disks in steps of 25mm, 50mm and 100 mm
Elevation positioner	
Range length	981 mm – 1031 mm (rotation centre to antenna mounting flange)
Rotation axis height	1368 mm above ground floor
Load capability	5 kg
Positioning accuracy	0.5°
Rotating speed	up to 20°/s
Rotating angle	± 165° (depending on used antenna)
General technical data	
Voltage (standards) others on request	400 VAC, 50 Hz, three phases 208 VAC, 60 Hz, three phases
Required Fuse	max. 16 A
Discharge current	30 mA per drive unit (higher in the moment when powering on)
Recommended RCD	300 mA
Temperature range	5° C – 35° C
Total weight	approx. 350 kg

The elevation antenna arm is made of plastic and carbon fiber reinforced plastic

Accessories incl.:

- Energy chain for elevation positioner, width x height: 15 mm x 17 mm
- Packing and Handling in wooden box
- Safety function for WPTC; Positioner shuts off when door is opened
Safety switch itself will be installed by chamber manufacturer
- One holder for rotary joint in azimuth positioner
- One antenna adapter for antennas DST-B215, Howland QR3A, Horn Antenna QR4, Schwarzbeck 700MHz, TC-TA18 or QR18000

Positioner is mounted with anchors to concrete floor, which have to be provided and mounted by chamber manufacturer

WPTC – M

Article number	24881
Azimuth positioner	
Diameter	575 mm
Load capability / Offset of centre of gravity	34 kg / 5 cm 16 kg / 15 cm
Positioning accuracy	0.5°
Rotating speed	up to 72°/s
Rotating angle	continuous
Rotation axis height adjustable	With different disks in steps of 25mm, 50mm and 100 mm
Elevation positioner	
Range length	1472 mm – 1522 mm (rotation centre to antenna mounting flange)
Rotation axis height	1696 mm above ground floor
Load capability	5 kg
Positioning accuracy	0.5°
Rotating speed	up to 20°/s
Rotating angle	± 165° (depending on used antenna)
General technical data	
Voltage (standards) others on request	400 VAC, 50 Hz, three phases 208 VAC, 60 Hz, three phases
Required Fuse	max. 16 A
Discharge current	30 mA per drive unit (higher in the moment when powering on)
Recommended RCD	300 mA
Temperature range	5° C – 35° C
Total weight	approx. 420 kg

The elevation antenna arm is made of plastic and carbon fiber reinforced plastic

Accessories incl.:

- Energy chain for elevation positioner, width x height: 15 mm x 17 mm
- Packing and Handling in wooden box
- Safety function for WPTC; Positioner shuts off when door is opened
Safety switch itself will be installed by chamber manufacturer
- One holder for rotary joint in azimuth positioner
- One antenna adapter for antennas DST-B215, Howland QR3A, Horn Antenna QR4, Schwarzbeck 700MHz, TC-TA18 or QR18000

Positioner is mounted with anchors to concrete floor, which have to be provided and mounted by chamber manufacturer

WPTC – L

Article number	26692
Azimuth positioner	
Diameter	575 mm
Load capability / Offset of centre of gravity	34 kg / 5 cm 16 kg / 15 cm
Positioning accuracy	0.5°
Rotating speed	up to 72°/s
Rotating angle	continuous
Rotation axis height adjustable	With different disks in steps of 25mm, 50mm and 100 mm
Elevation positioner	
Range length	1507 mm – 1557 mm (rotation centre to antenna mounting flange)
Rotation axis height	1999 mm above ground floor
Load capability	5 kg
Positioning accuracy	0.5°
Rotating speed	up to 20°/s
Rotating angle	± 165° (depending on used antenna)
General technical data	
Voltage (standards) others on request	400 VAC, 50 Hz, three phases 208 VAC, 60 Hz, three phases
Required Fuse	max. 16 A
Discharge current	30 mA per drive unit (higher in the moment when powering on)
Recommended RCD	300 mA
Temperature range	5° C – 35° C
Total weight	approx. 450 kg

The elevation antenna arm is made of plastic and carbon fiber reinforced plastic

Accessories incl.:

- Energy chain for elevation positioner, width x height: 15 mm x 17 mm
- Packing and Handling in wooden box
- Safety function for WPTC; Positioner shuts off when door is opened
Safety switch itself will be installed by chamber manufacturer
- One holder for rotary joint in azimuth positioner
- One antenna adapter for antennas DST-B215, Howland QR3A, Horn Antenna QR4, Schwarzbeck 700MHz, TC-TA18 or QR18000

Positioner is mounted with anchors to concrete floor, which have to be provided and mounted by chamber manufacturer

WPTC – XL

Article number	25128
Azimuth positioner	
Diameter	575 mm
Load capability / Offset of centre of gravity	34 kg / 5 cm 16 kg / 15 cm
Positioning accuracy	0.5°
Rotating speed	up to 72°/s
Rotating angle	continuous
Rotation axis height adjustable	With different disks in steps of 25mm, 50mm and 100 mm
Elevation positioner	
Range length	2007 mm – 2057 mm (rotation centre to antenna mounting flange)
Rotation axis height	2494 mm above ground floor
Load capability	5 kg
Positioning accuracy	0.5°
Rotating speed	up to 20°/s
Rotating angle	± 165° (depending on used antenna)
General technical data	
Voltage (standards) others on request	400 VAC, 50 Hz, three phases 208 VAC, 60 Hz, three phases
Required Fuse	max. 16 A
Discharge current	30 mA per drive unit (higher in the moment when powering on)
Recommended RCD	300 mA
Temperature range	5° C – 35° C
Total weight	approx. 480 kg

The elevation antenna arm is made of plastic and carbon fiber reinforced plastic

Accessories incl.:

- Energy chain for elevation positioner, width x height: 15 mm x 17 mm
- Packing and Handling in wooden box
- Safety function for WPTC; Positioner shuts off when door is opened
Safety switch itself will be installed by chamber manufacturer
- One holder for rotary joint in azimuth positioner
- One antenna adapter for antennas DST-B215, Howland QR3A, Horn Antenna QR4, Schwarzbeck 700MHz, TC-TA18 or QR18000

Positioner is mounted with anchors to concrete floor, which have to be provided and mounted by chamber manufacturer

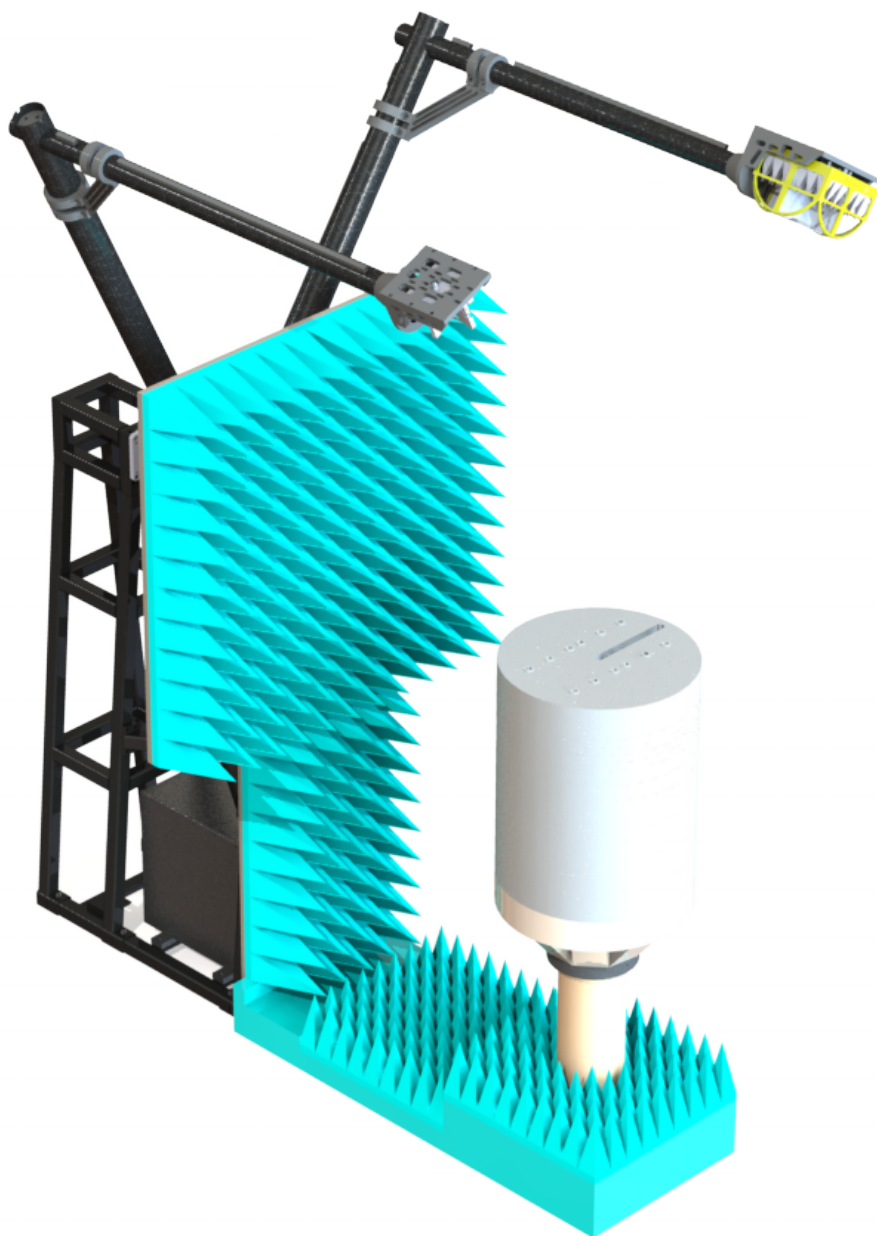


Figure 1: Example picture for WPTC with two antenna booms
Picture shows some options


FOC 5 – GF, fibre optic duplex cable

Article number	24591
Length	5 m

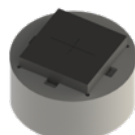
FOC 10 – GF, fibre optic duplex cable

Article number	24592
Length	10 m

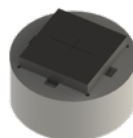
Additional elevation positioner


Article number		
XS	27884	
S	29951	
M	24882	
L	26693	
XL	25129	
<p>The elevation antenna arm is made of plastic and carbon fiber reinforced plastic, incl.</p> <ul style="list-style-type: none"> - Gear unit, servomotor and monitoring switch - One antenna adapter for antennas DST-B215, Howland QR3A, Horn Antenna QR4, Schwarzbeck 700MHz, TC-TA18 or QR18000 		


Free space fixtures for XS

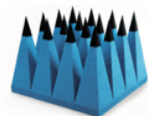
Article number	27885	
Material	EPS and PUR foam	
Diameter	460 mm	
Height	200 mm	
Hole in the center for coax cable pass through		
3 foam inserts with dimensions 285 mm x 285 m heights: 100 mm, 150 mm, 200 mm two narrow slots: 92 mm for phones, 185 mm for tablets		
2 foam inserts with dimensions 285 mm x 285 m with no slots height: 150 mm		


Free space fixtures for S to L	
Article number	26444
Material	EPS and PUR foam
Diameter	575 mm
Height	200 mm
Hole in the center for coax cable pass through	
3 foam inserts with dimensions 285 mm x 285 m heights: 100 mm, 150 mm, 200 mm two narrow slots: 92 mm for phones, 185 mm for tablets	
2 foam inserts with dimensions 375 mm x 375 m with no slots height: 150 mm	




Controller – NCD		
Article number	19941	
Remote control unit for multiple axis of motion		
LAN interface		

Precut absorbers WPTC – XS – SP size VHP 8		
Article number	31212	
Shipping and mounting of the Wavasorb VHP-8 on the elevation shadow wall and on the azimuth basement of the WPTC-XS		

Precut absorbers WPTC – XS – SP size VHP 12		
Article number	31213	
Shipping and mounting of the Wavasorb VHP-12 on the elevation shadow wall and mainly on the azimuth basement of the WPTC-XS		

Precut absorbers WPTC – S – SP size VHP 8		
Article number	31214	
Shipping and mounting of the Wavasorb VHP-8 on the elevation shadow wall and on the azimuth basement of the WPTC-S		

Precut absorbers WPTC – S – SP size VHP 12		
Article number	31215	
Shipping and mounting of the Wavasorb VHP-12 on the elevation shadow wall and mainly on the azimuth basement of the WPTC-S		

Precut absorbers WPTC – M – SP size VHP 8

Article number	31216
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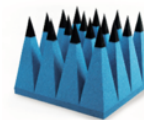
Shipping and mounting of the Wavasorb VHP-8 on the elevation shadow wall and on the azimuth basement of the WPTC-M
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Precut absorbers WPTC – M – SP size VHP 12

Article number	31217
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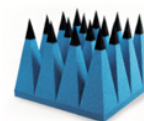
Shipping and mounting of the Wavasorb VHP-12 on the elevation shadow wall and mainly on the azimuth basement of the WPTC-M
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Precut absorbers WPTC – L – SP size VHP 12

Article number	31219
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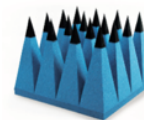
Shipping and mounting of the Wavasorb VHP-12 on the elevation shadow wall and mainly on the azimuth basement of the WPTC-L
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Precut absorbers WPTC – L – SP size VHP 18

Article number	31220
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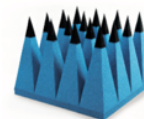
Shipping and mounting of the Wavasorb VHP-12 on the elevation shadow wall and mainly on the azimuth basement of the WPTC-L
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Precut absorbers WPTC – XL – SP size VHP 12

Article number	31221
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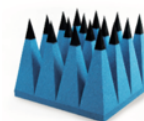
Shipping and mounting of the Wavasorb VHP-12 on the elevation shadow wall and mainly on the azimuth basement of the WPTC-XL




Precut absorbers WPTC – XL – SP size VHP 18

Article number	31222
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Shipping and mounting of the Wavasorb VHP-12 on the elevation shadow wall and mainly on the azimuth basement of the WPTC-XL



Cross hair lasers color green

Article number	26442	
Wavelength	520 nm	
Laser class	2M	
Accessories	Holder for laser	


Cross hair laser color red

Article number	26318	
Wavelength	635 nm	
Laser class	2M	
Accessories	Holder for laser	

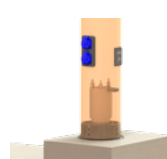
SMA single channel rotary joint

Article number	26443
Integration in azimuth positioner	
Frequency range	0 GHz to 26 GHz
Connector	3.5 mm-f (50 Ω)

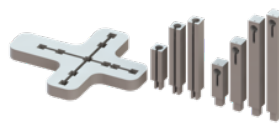
Hollow shaft slip ring for WPTC

Article number	29950	
Integration in azimuth positioner		
Contacts	1x 230 VAC / 16 A	

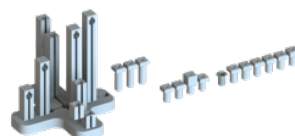
Hollow shaft slip ring for WPTC

Article number	26974	
Integration in azimuth positioner		
Contacts	1x 230 VAC / 16 A 1x Ethernet CAT5e; 100 Mbit/s 48VDC, 5A, 3x plus, 3x minus, 3x ground	

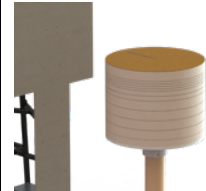
Ripple Test Kit (TC-Ripple-ETS)

Article number	31208	
Ripple test kit for ETS dipoles and loops Incl. base plate and required pillars For CTIA standard (30 cm) and extended (50 cm) zone		
Material	Rohacell	


Ripple Test Kit (TC-Ripple-TK)

Article number	31209	
Ripple test kit for MVG dipoles Incl. base plate and required pillars Adapters for following antennas: SD740, SD836, SD1575, SD1730, SD1900 (detailed drawing), SD2140, MD720, MD836, MD1575, MD1730, MD1880, MD2140		
Material	Rohacell	

Heavy duty azimuth positioner (only available for sizes M – XL)

Article number	31210	
Diameter	1000 mm	
Load capability / Offset of centre of gravity	90 kg / 10 cm 60 kg / 15 cm 30 kg / 25 cm	


Antenna adapter AA-TC-TA85, DST-B215, QR3A, QR4

Article number	31205	
For antenna TC-TA85, DST-B215, QR3A, QR4		

Antenna adapter AA-QR18000

Article number	31204	
For antenna QR18000		

Antenna adapter AA-QR3A, QR4, Schwarzbeck 700MHz

Article number	31207	
For antenna QR3A, QR4, Schwarzbeck 700MHz		

Antenna adapter AA-DST-B215, QR3A, QR4

Article number	31206	
For antenna DST-B215, QR3A, QR4		