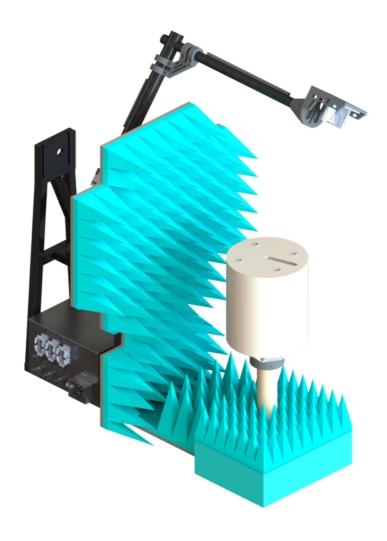


# DATA SHEET WPTC-Standard Precision



#### 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 /	34 kg / 5 cm
Offset of centre of gravity	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
range length	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)	400 VAC, 50 Hz, three phases
others on request	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

Azimuth positioner  Diameter 575 mm  Load capability/ 34 kg / 5 cm  Offset of centre of gravity 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) 400 VAC, 50 Hz, three phases others on request 208 VAC, 60 Hz, three phases  Required Fuse max. 16 A  Discharge current (higher in the moment when powering on)  Recommended RCD 300 mA  Temperature range 5° C – 35° C  Total weight approx. 350 kg	Article number	24872
Load capability/ Offset of centre of gravity Positioning accuracy Rotating speed Rotating angle Rotation axis height adjustable  Elevation positioner  Range length Rotation axis height Load capability Solutioning accuracy Rotating speed Rotating angle Rotating angle Rotating angle Rotating speed Rotating speed Rotating angle Rotating angle Rotating speed Rotating speed Rotating angle Rotating angle Rotating speed Rotation centre to antenna mounting flange)	Azimuth positioner	
Offset of centre of gravity Positioning accuracy Rotating speed Rotating angle Rotating angle Rotation axis height adjustable  Elevation positioner Range length Rotation axis height Rotation axis height Rotation axis height Rotation positioner Range length Rotation axis height Rotation axis height Rotation axis height Rotation axis height Load capability Skg Positioning accuracy Rotating speed Rotating speed Rotating angle Load Sephale Rotating angle Load Rotating angle Rotating Rotating Angle Load Rotating Rotating Rotating Angle Rotating Rotat	Diameter	575 mm
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) 400 VAC, 50 Hz, three phases others on request 208 VAC, 60 Hz, three phases  Required Fuse max. 16 A  Discharge current (higher in the moment when powering on)  Recommended RCD 300 mA  Temperature range 5° C – 35° C	Load capability/	34 kg / 5 cm
Rotating speed  Rotating angle  Rotation axis height adjustable  Elevation positioner  Range length  Rotation axis height  Rotation axis height  Positioning accuracy  Rotating speed  Rotation axis height  Load capability  Positioning accuracy  Rotating speed  Rotating angle  Elevation by a company accuracy  Rotating speed  Rotating speed  Rotating speed  Rotating angle  Elevation by a company accuracy  Discharge current  Range length  Positioning accuracy  Discharge current  Rotating angle  Elevation by a company and in the moment when powering on accuracy  Rotating angle  Elevation by a company and in the moment when powering on accuracy  Rotating angle  Elevation by a company and in the moment when powering on accuracy  Rotating angle  Elevation axis height  1368 mm - 1031 mm (rotation centre to antenna mounting flange)  Skg  Rotation axis height  1368 mm - 1031 mm (rotation centre to antenna mounting flange)  Skg  Rotation axis height  1368 mm - 1031 mm (rotation centre to antenna mounting flange)  Skg  Rotation axis height  1368 mm - 1031 mm (rotation centre to antenna mounting flange)  Skg  Rotation axis height  1368 mm - 1031 mm (rotation centre to antenna mounting flange)  Skg  Rotation axis height  1368 mm - 1031 mm (rotation centre to antenna mounting flange)  Skg  Rotation axis height  1368 mm - 1031 mm (rotation centre to antenna mounting flange)  Skg  Rotation axis height  1368 mm - 1031 mm (rotation centre to antenna mounting flange)  Skg  Rotation axis height  1368 mm - 1031 mm (rotation centre to antenna mounting flange)  Skg  Rotation axis height  1368 mm - 1031 mm (rotation centre to antenna mounting flange)  Skg  Rotation axis height  1368 mm - 1031 mm (rotation centre to antenna mounting flange)  Skg  Rotation axis height  1368 mm - 1031 mm (rotation centre to antenna mounting flange)  Skg  Rotation axis height  1368 mm - 1031 mm (rotation centre to antenna mounting flange)  Skg  Rotation axis height  1368 mm - 1031 mm (rotation centre to antenna mounting flange)  Skg  Rotation axis height  1	Offset of centre of gravity	
Rotating angle  Rotation axis height adjustable  Elevation positioner  Range length  Rotation axis height  Positioning accuracy  Rotating speed  Rotating angle  Elevation positioner  Range length  Rotation axis height  Load capability  Positioning accuracy  Rotating speed  Rotating speed  Up to 20°/s  Rotating angle  ± 165° (depending on used antenna)  General technical data  Voltage (standards)  Others on request  Required Fuse  Discharge current  Recommended RCD  Rotating angle  300 mA  Temperature range  Continuous  With different disks in steps of 25mm, 50mm and 100 mm and 100 mm and 100 mm  With different disks in steps of 25mm, 50mm and 100 mm and 100 mm  With different disks in steps of 25mm, 50mm and 100 mm and 100 mm  Felevation axis height  1368 mm above ground floor  5 kg  0.5°  Augustian and 100 mm  1368 mm above ground floor  1368 mm above groun	Positioning accuracy	0.5°
Rotation axis height adjustable  Elevation positioner  Range length  Rotation axis height  Rotation axis height  Rotation axis height  Load capability  Positioning accuracy  Rotating speed  Rotating speed  With different disks in steps of 25mm, 50mm and 100 mm  981 mm – 1031 mm (rotation centre to antenna mounting flange)  Rotation axis height  1368 mm above ground floor  Load capability  5 kg  Positioning accuracy  Rotating speed  up to 20°/s  Rotating angle  ± 165° (depending on used antenna)  General technical data  Voltage (standards)  others on request  Required Fuse  max. 16 A  Discharge current  (higher in the moment when powering on)  Recommended RCD  300 mA  Temperature range  5° C – 35° C	Rotating speed	up to 72°/s
Rotation axis height adjustable  Elevation positioner  Range length  Rotation axis height  Load capability  Positioning accuracy  Rotating speed  Rotating angle  \$\frac{\text{20}}{\text{20}}\$ (depending on used antenna)  General technical data  Voltage (standards)  others on request  Required Fuse  Discharge current  Recommended RCD  Temperature range  \$\frac{100 \text{ mm}}{981 \text{ mm}} - 1031 \text{ mm}}{1031 \text{ mm}} \text{ (rotation centre to antenna}}{100 \text{ mm}} - 1031 \text{ mm}}{100 \text{ mm}} - 1031 \text{ mm}} \text{ (rotation centre to antenna}}{100 \text{ mm}} \text{ and power ground floor}  \$\frac{1}{56 \text{ kg}} \text{ mm}}{200 \text{ sol}} \text{ and power ground floor}  \$\frac{1}{56 \text{ mm}} \text{ mm} \text{ and power ground floor}  \$\frac{1}{56 \text{ mm}} \text{ mm} \text{ and power ground floor}  \$\fra	Rotating angle	continuous
Range length  Rotation axis height  Load capability  Positioning accuracy  Rotating speed  Rotating angle  Voltage (standards) others on request  Required Fuse  Discharge current  Range length  981 mm – 1031 mm (rotation centre to antenna mounting flange)  1368 mm above ground floor  5 kg  0.5°  Rotating angle  ± 165° (depending on used antenna)  400 VAC, 50 Hz, three phases  208 VAC, 60 Hz, three phases  max. 16 A  30 mA per drive unit (higher in the moment when powering on)  Recommended RCD  300 mA  Temperature range  5° C – 35° C	Rotation axis height adjustable	·
Rotation axis height  Load capability  Positioning accuracy  Rotating speed  Rotating angle  Energy  Rotating angle  Energy  E	Elevation positioner	
Load capability  Positioning accuracy  Rotating speed  Rotating angle  ± 165° (depending on used antenna)  General technical data  Voltage (standards)  others on request  Required Fuse  Discharge current  Recommended RCD  Temperature range  5 kg  0.5°  400 VAC, 50  Hz, three phases  208 VAC, 60 Hz, three phases  max. 16 A  30 mA per drive unit (higher in the moment when powering on)  300 mA  Temperature range	Range length	
Positioning accuracy  Rotating speed  Rotating angle  ± 165° (depending on used antenna)  General technical data  Voltage (standards) others on request  Required Fuse  Discharge current  Recommended RCD  Temperature range  0.5°  400 VAC, 50 Hz, three phases 208 VAC, 60 Hz, three phases max. 16 A  30 mA per drive unit (higher in the moment when powering on) 300 mA  Temperature range  5° C – 35° C	Rotation axis height	1368 mm above ground floor
Rotating speed  Rotating angle  ± 165° (depending on used antenna)  General technical data  Voltage (standards) others on request  Required Fuse  Discharge current  Recommended RCD  Temperature range  up to 20°/s  ± 165° (depending on used antenna)  400 VAC, 50 Hz, three phases  208 VAC, 60 Hz, three phases  max. 16 A  30 mA per drive unit (higher in the moment when powering on)  300 mA	Load capability	5 kg
Rotating angle ± 165° (depending on used antenna)  General technical data  Voltage (standards) 400 VAC, 50 Hz, three phases others on request 208 VAC, 60 Hz, three phases  Required Fuse max. 16 A  Discharge current (higher in the moment when powering on)  Recommended RCD 300 mA  Temperature range 5° C – 35° C	Positioning accuracy	0.5°
General technical dataVoltage (standards)400 VAC, 50 Hz, three phasesothers on request208 VAC, 60 Hz, three phasesRequired Fusemax. 16 ADischarge current30 mA per drive unit (higher in the moment when powering on)Recommended RCD300 mATemperature range5° C - 35° C	Rotating speed	up to 20°/s
Voltage (standards) others on request  Required Fuse  Discharge current  Recommended RCD  Temperature range  400 VAC, 50 Hz, three phases  208 VAC, 60 Hz, three phases  max. 16 A  30 mA per drive unit (higher in the moment when powering on)  300 mA  5° C – 35° C	Rotating angle	± 165° (depending on used antenna)
others on request  Required Fuse  Discharge current  Recommended RCD  Temperature range  208 VAC, 60 Hz, three phases  max. 16 A  30 mA per drive unit (higher in the moment when powering on)  300 mA  5° C – 35° C	General technical data	
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	Voltage (standards)	400 VAC, 50 Hz, three phases
Discharge current  30 mA per drive unit (higher in the moment when powering on)  Recommended RCD  300 mA  Temperature range  5° C – 35° C	others on request	208 VAC, 60 Hz, three phases
(higher in the moment when powering on)  Recommended RCD 300 mA  Temperature range 5° C – 35° C	Required Fuse	max. 16 A
Temperature range 5° C – 35° C	Discharge current	·
	Recommended RCD	300 mA
Total weight approx. 350 kg	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



## WPTC - M

Article number	24881
Azimuth positioner	
Diameter	575 mm
Load capability /	34 kg / 5 cm
Offset of centre of gravity	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)	400 VAC, 50 Hz, three phases
others on request	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



## WPTC - L

Article number	26692
Azimuth positioner	
Diameter	575 mm
Load capability /	34 kg / 5 cm
Offset of centre of gravity	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)	400 VAC, 50 Hz, three phases
others on request	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



# WPTC - XL

Article number	25128
Azimuth positioner	
Diameter	575 mm
Load capability /	34 kg / 5 cm
Offset of centre of gravity	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)	400 VAC, 50 Hz, three phases
others on request	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



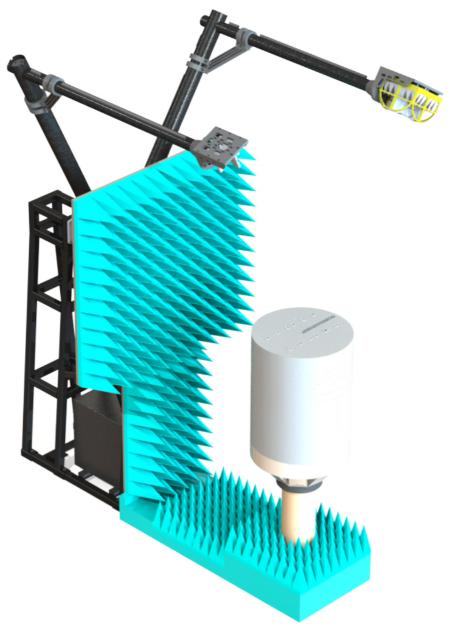


Figure 1: Example picture for WPTC with two antenna booms Picture shows some options

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FOC 5 – GF, fibre optic duplex cable		
Article number	24591	
Length	5 m	

FOC 10 – GF, fibre optic duplex cable				
Article number	Article number 24592			
Length	10 m			

Additional elevation positioner		
Article number		
XS	27884	
S	29951	
М	24882	
L	26693	
XL	25129	
The elevation antenna ar	m is made of plastic and carbon fiber reinforced plastic, incl.	

- 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	A PARTITION
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	AMMANA
Shipping and mounting of the Wavasorb VHP-12 on the elevation shadow		111. A.K.C.
wall and mainly on the azimuth basement of the WPTC-XS		

Precut absorbers WPTC – S – SP size VHP 8		
Article number	31214	AAAAAAA
Shipping and mounting of the Wavasorb VHP-8 on the elevation shadow		12.24
wall and on the azimuth basement of the WPTC-S		

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



## Precut absorbers WPTC - M - SP size VHP 8

Article number 31216

Shipping and mounting of the Wavasorb VHP-8 on the elevation shadow wall and on the azimuth basement of the WPTC-M



## Precut absorbers WPTC – M – SP size VHP 12

Article number 31217

Shipping and mounting of the Wavasorb VHP-12 on the elevation shadow wall and mainly on the azimuth basement of the WPTC-M



## Precut absorbers WPTC – L– SP size VHP 12

Article number 31219

Shipping and mounting of the Wavasorb VHP-12 on the elevation shadow wall and mainly on the azimuth basement of the WPTC-L



## Precut absorbers WPTC – L – SP size VHP 18

Article number 31220

Shipping and mounting of the Wavasorb VHP-12 on the elevation shadow wall and mainly on the azimuth basement of the WPTC-L



#### Precut absorbers WPTC - XL - SP size VHP 12

Article number 31221

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

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	2
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	4
Integration in azimuth positioner		
Contacts	1x 230 VAC / 16 A	

Hollow shaft slip ring for WPTC		
Article number	26974	
Integration in azimuth positioner		<b>8</b> B
	1x 230 VAC / 16 A	111
Contacts	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		- 1111
Material	Rohacell	

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# 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 /	90 kg / 10 cm	4
Offset of centre of	60 kg / 15 cm	1
gravity	30 kg / 25 cm	

Antenna adapter AA-TC-TA85, DST-B215, QR3A, QR4		
Article number	31205	Total Control
For antenna TC-TA85, DST-B215, QR3A, QR4		

Antenna adapter AA-QR18000		
Article number	31204	A THE
For antenna QR18000		

Antenna adapter AA-QR3A, QR4, Schwarzbeck 700MHz			
Article number	31207	The state of the s	
For antenna QR3A, QR4, Schwarzbeck 700MHz			

Antenna adapter AA-DST-B215, QR3A, QR4		
Article number	31206	
For antenna DST-B215, QR3A, QR4		1