



Product Catalog

2025



For **12** years,
we've built
a reputation as
a reliable OEM
manufacturer of industrial
pan-tilt systems

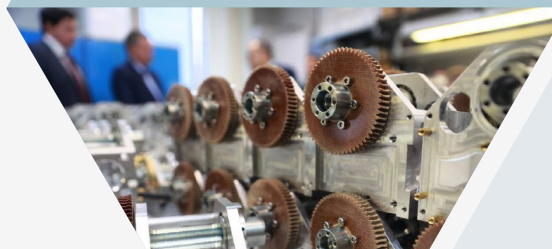


We engineer and produce
custom electronic devices
for industrial applications

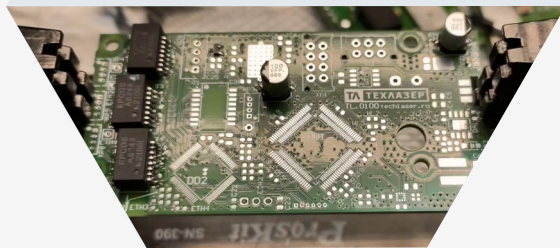
In 2025, we are
commissioning
a **1,602.6**-sq.m.
production site
in Malaya Vishera



Our production
facility is equipped
with **13** modern
milling machines
and lathes



We annually
participate in
major Russian and
international exhibitions



▲ TL.0329



PAN-TILT POSITIONER

Up to **10** kg
(max load)



Maximum axial payload capacity: 10 kg



All-weather heavy-duty metal housing



Flexible connection options for pan-tilt positioners and payloads (cable and connector solutions)



Vibration and shock resistance



Horizontal rotation speed: up to 47°/s



Easy connectivity: 5/12 VDC power supply, direct motor control, Ethernet or RS-485



Pan rotation: 290°
100° elevation angle



Device weight: 2 kg

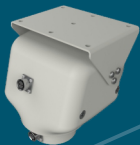
COMPLIES WITH THE FOLLOWING REQUIREMENTS:

- ▲ Functional requirements for transport security equipment
- ▲ TR CU 004/2011 "On safety of low-voltage equipment"
- ▲ TR CU 020/2011 "Electromagnetic compatibility of technical equipment"

PAN-TILT POSITIONER

▲ TL.0329

The most compact dual-axis pan tilt positioner with the best value proposition. The motorized platform is designed to rotate mounted equipment in both elevation and azimuth axes at specified speeds within defined angular limits



SPECIFICATIONS

▲ TL.0329

	TL.0329-110	TL.0329-120
Angular Range		
vertical plane (elevation angle)	-10 ... 90 °	
horizontal plane (azimuth)	0 ... 320 °	
Angular Speed		
vertical plane (elevation angle)	Voltage 5V: 18 ° / 9.5 °	
horizontal plane (azimuth)	Voltage 12V: 47 ° / 25 °	
Maximum torque		
vertical plane (elevation angle)	7,8 kgf·cm	
horizontal plane (azimuth)	3,5 kgf·cm	
Maximum axial load	10 kg	
Device control method	"Techlaser" protocol Pelco-D	"Techlaser" protocol Pelco-D
Control interface	Ethernet	RS-485
Pan-tilt positioner payload interface	10/100BASE-T/TX	(half-duplex)
Nominal supply voltage (and payload voltage)	1 × Ethernet	1 × RS-485
Power consumption	5 / 12 VDC	
IP rating	30 W	
Weight	IP65	
Overall dimensions	2.4 kg	
Operating temperature	125×131×139 mm	
	- 40...+ 50 °C	



PAN-TILT POSITIONER ▲ TL.0329

The compact pan-tilt positioner is designed to move mounted equipment within specified limits. It provides 290° horizontal rotation and 100° vertical tilt

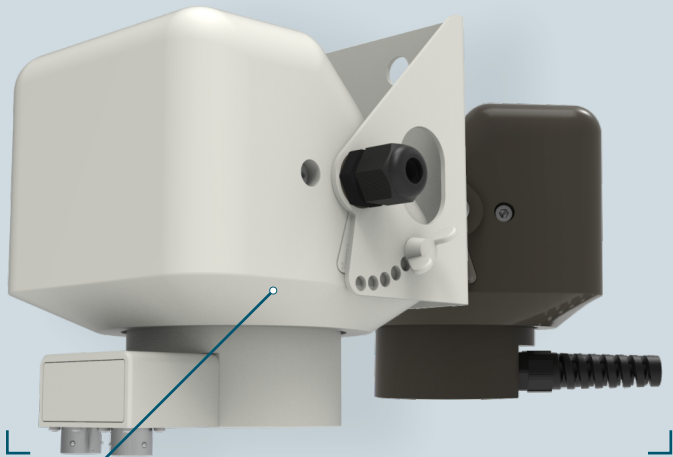
DESIGNED AND ENGINEERED FOR:

- ▲ Cost-sensitive system solutions ▲ Light payload positioning

KEY DIFFERENCES FROM EXISTING SYSTEMS

- ▲ Pan-tilt positioner is engineered with a focus on efficiency and cost reduction, making it one of the most affordable solutions in its class
- ▲ Convenient port placement for positioner and payload connectivity
- ▲ Manufactured using high-strength alloys and adapted for harsh climatic conditions

▲ TL.0105



PAN-TILT POSITIONER

Up to **10** kg
(max load)



Maximum axial payload capacity: 10 kg



All-weather heavy-duty metal housing for slewing rings



Flexible connection options for pan-tilt positioners and payloads (cable and connector solutions)



Slewing ring vibration and shock resistance



Horizontal rotation speed: up to 40°/s



Easy connectivity: 24VDC power, Ethernet



High positioning accuracy



360° continuous rotation with oscillating mode



Device weight: 3 kg

COMPLIES WITH THE FOLLOWING REQUIREMENTS;

- ▲ Functional requirements for transport security equipment
- ▲ TR CU 004/2011 "On safety of low-voltage equipment"
- ▲ TR CU 020/2011 "Electromagnetic compatibility of technical equipment"

PAN-TILT POSITIONER

▲ TL.0105

Agile pan-tilt platform designed to position mounted equipment within specified elevation limits at controlled speeds. Delivers wide tilt range + high rotation velocity, dramatically expanding surveillance coverage



SPECIFICATIONS

▲ TL.0105

TL.0105

Angular Range

vertical plane (elevation angle)
horizontal plane (azimuth)

0 ... 50°
0 ... 360° (∞)

Angular Speed

horizontal plane (azimuth)

0,01 ... 40 °/s

Positioning accuracy

±0,3 °

Number of preset tilt positions

6

Maximum axial load

10 kg

Maximum azimuth torque

0,4 ± (10 %) kgf·m

Stationary part connection interface

1 × Ethernet

Payload channels

up to 3× Ethernet

Ethernet standard

10/100BASE-T/TX

GUI for control and settings

WEB

Control protocol

"Techlaser" protocol and Pelco-D

Number of presets (Pelco-D)

64

Nominal supply voltage

24VDC

Power consumption

85 W

IP rating

IP65

Weight

3 kg

Overall dimensions

129,7×167,2×163,8 mm

Operating temperature

- 40 ... + 50 °C



PAN-TILT POSITIONER ▲ TL.0105

High-maneuverability pan-tilt platform designed for precise azimuth positioning of mounted equipment at programmable speeds.

Features continuous 360° unlimited rotation with controlled velocity.

DESIGNED AND ENGINEERED FOR:

▲ Designed for precision positioning of antenna feed systems and RF components

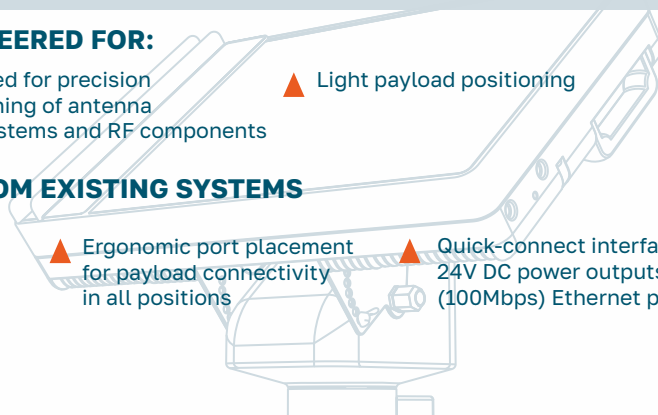
▲ Light payload positioning

KEY DIFFERENCES FROM EXISTING SYSTEMS

▲ The unit is manufactured using high-strength alloys and engineered for harsh environmental operation

▲ Ergonomic port placement for payload connectivity in all positions

▲ Quick-connect interfaces: 24V DC power outputs, (100Mbps) Ethernet ports



▲ TL.0009

▲ TL.0192



PAN-TILT POSITIONER

Up to **20** kg
(max load)



Maximum axial payload capacity: 20 kg



All-weather heavy-duty metal housing



Flexible connection options for pan-tilt positioners and payloads (cable and connector solutions)



Vibration and shock resistance



Horizontal rotation speed: up to 40°/s



Easy connectivity: 24VDC, Ethernet, RS-485



High positioning accuracy



360° continuous rotation with oscillating mode



Device weight: 6,5 kg

COMPLIES WITH THE FOLLOWING REQUIREMENTS;

- ▲ Functional requirements for transport security equipment
- ▲ TR CU 004/2011 "On safety of low-voltage equipment"
- ▲ TR CU 020/2011 "Electromagnetic compatibility of technical equipment"

PAN-TILT POSITIONER

▲ TL.0009 ▲ TL.0192

High-maneuverability pan-tilt platform designed for precise positioning of mounted equipment within specified elevation and azimuth ranges at programmable speeds. Delivers exceptional tilt range + rapid rotation, maximizing observation angles and coverage



SPECIFICATIONS

▲ TL.0009

▲ TL.0192

Angular Range

vertical plane (elevation angle)
horizontal plane (azimuth)

Angular Speed

vertical plane (elevation angle)
horizontal plane (azimuth)

Number of presets (Pelco-D)

Positioning accuracy

Forbidden zone setting

Maximum axial load

Maximum torque

vertical plane (elevation angle)
horizontal plane (azimuth)

Control interface

GUI for control and settings

Max. RS-485 communication speed

Max. number of 485-bus connections

Ethernet standard

IP rating

Weight

Overall dimensions

Nominal supply voltage

Power consumption

Operating temperature

TL.0009

TL.0192

+45° ... -90°
0° ... 360° (∞)

0.01...20(35)°/s
0.01...50°/s

0.01...8°/s
0.01...20°/s

64

0,3°

supported

20 kg

1.2 kgf×m
0.4 kgf×m

2.1 kgf×m
1.0 kgf×m

Ethernet / RS-485 (optional)

WEB

115200 bits/s

up to 255 units

10/100BASE-T/TX

IP65

6.5 kg

6.7 kg

166,5×134×219 mm

24 VDC

90 W (two-axis rotation mode)

- 40 ... + 50 °C



* color may vary upon agreement

** cable length can be customized per customer request

*** dimensions may vary depending on pan-tilt positioner modification

**** maximum current to load depends on number of Ethernet channels

DESIGNED AND ENGINEERED FOR:

▲ Short-to-medium range surveillance
and monitoring systems

▲ Designed for precision positioning
of antenna feed systems
and RF components

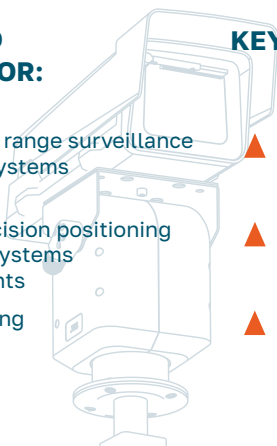
▲ Payload positioning

KEY DIFFERENCES FROM EXISTING SYSTEMS

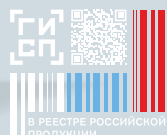
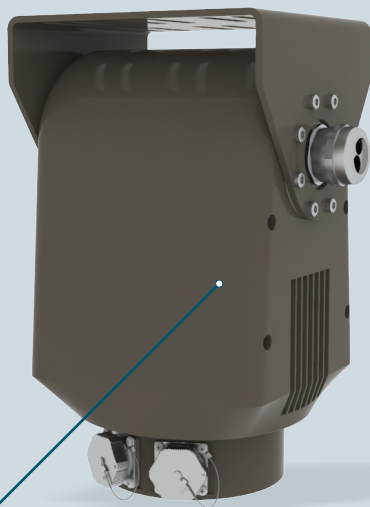
▲ The unit is manufactured using high-strength alloys
and engineered for harsh environmental operation

▲ Side-mounted cable/connector ports on tilt axis for
payload integration

▲ Quick-connect interfaces: 24V power outputs,
(100Mbps) Ethernet ports



▲ TL.0250



PAN-TILT POSITIONER

Up to **40** kg
(max load)



Maximum axial payload capacity: 40 kg



All-weather heavy-duty metal housing



Flexible connection options for pan-tilt positioners and payloads (cable and connector solutions)



Vibration and shock resistance



Horizontal rotation speed: up to 300°/s



Quick-connect interfaces: 48VDC, Gigabit Ethernet/RS-485 / fiber optic



High positioning accuracy: 0.05°



360° continuous rotation with oscillating mode



Device weight: 12 kg

COMPLIES WITH THE FOLLOWING REQUIREMENTS;

- ▲ Functional requirements for transport security equipment
- ▲ TR CU 004/2011 "On safety of low-voltage equipment"
- ▲ TR CU 020/2011 "Electromagnetic compatibility of technical equipment"

PAN-TILT POSITIONER

▲ TL.0250

High-maneuverability pan-tilt platform designed for precise positioning of mounted equipment within specified elevation and azimuth ranges at programmable speeds. Delivers exceptional tilt range + rapid rotation, maximizing observation angles and coverage



SPECIFICATIONS

▲ TL.0250

Angular Range

vertical plane (elevation angle)

horizontal plane (azimuth)

Angular Speed

horizontal plane (azimuth)

vertical plane (elevation angle)

Maximum angular acceleration

horizontal plane (azimuth)

vertical plane (elevation angle)

Number of presets (Pelco-D)

Positioning accuracy

Forbidden zone setting

Maximum axial load

Maximum torque

horizontal plane (azimuth)

vertical plane (elevation angle)

Control interface

Max data rate

Payload channels

Stationary part connection interface

IP rating

Weight

Overall dimensions

Nominal supply voltage

Power consumption, max.

Operating temperature

TL.0250

TL.0250-100

-90° ... +90°

0° ... 360° (∞)

300 °/s

170 °/s

500 °/s²

500 °/s²

64

0,05°

supported

40 kg

6.5 kgf×m

5.9 kgf×m

RS-485

115200 bps

Fiber optic link

Ethernet & RS-485 (opt.)

1 Gbps

Ethernet & RS-485 (opt.)

1 × Ethernet / 1 × RS-485 (opt.)

IP65

12 kg

146×204×288 mm

48 VDC

800 W

- 40 ... + 50 °C



PAN-TILT POSITIONER ▲ TL.0250

High-maneuverability pan-tilt platform designed for precise positioning of mounted equipment within specified elevation and azimuth ranges at programmable speeds. Delivers continuous 360° high-speed rotation for maximum coverage

DESIGNED AND ENGINEERED FOR:

▲ Short-to-medium range surveillance and monitoring systems

▲ Designed for precision positioning of antenna feed systems and RF components

▲ Searchlights and auxiliary payloads

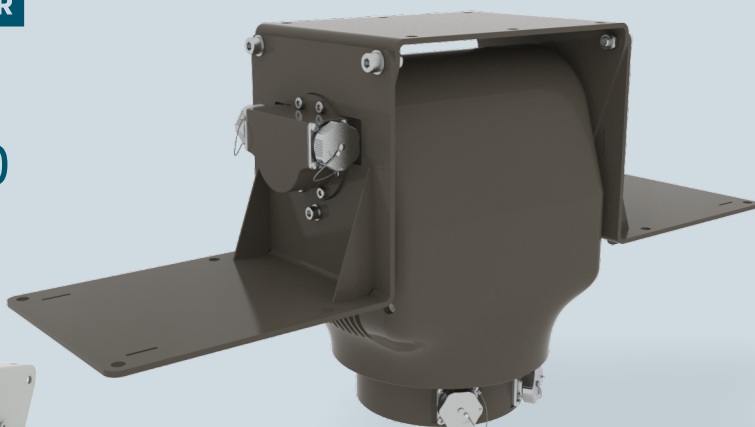
KEY DIFFERENCES FROM EXISTING SYSTEMS

▲ The unit is manufactured using high-strength alloys and engineered for harsh environmental operation

▲ Ergonomic port placement for payload connectivity in all positions

▲ Quick-connect interfaces: 48V power outputs, (1 Gbps) Ethernet ports

▲ TL.0320



PAN-TILT POSITIONER

Up to **40** kg
(max load)



Maximum axial payload capacity: 40 kg



All-weather heavy-duty metal housing



Flexible connection options for pan-tilt positioners and payloads (cable and connector solutions)



Vibration and shock resistance



Horizontal rotation speed: up to 100°/s



Easy connectivity: 48VDC, Gigabit Ethernet/RS-485



Ultra-high positioning accuracy: 0.013°



360° continuous rotation with oscillating mode



Device weight: 19,5 kg

COMPLIES WITH THE FOLLOWING REQUIREMENTS;

- ▲ Functional requirements for transport security equipment
- ▲ TR CU 004/2011 "On safety of low-voltage equipment"
- ▲ TR CU 020/2011 "Electromagnetic compatibility of technical equipment"

PAN-TILT POSITIONER

▲ TL.0320

High-maneuverability pan-tilt platform designed for precise positioning of mounted equipment within specified elevation and azimuth ranges at programmable speeds. Delivers exceptional tilt range + rapid rotation, maximizing observation angles and coverage



SPECIFICATIONS

▲ TL.0320

TL.0320

Angular Range

horizontal plane (azimuth)
vertical plane (elevation angle)

0° ... 360°(∞)
-73° ... +73°

Angular Speed

horizontal plane (azimuth)
vertical plane (elevation angle)

0,02°...100°/s
0,02°...50°/s

Maximum angular acceleration

horizontal plane (azimuth)
vertical plane (elevation angle)

200°/s²
200°/s²

Maximum torque

horizontal plane (azimuth)
vertical plane (elevation)

2.9 kgf×m
3.2 kgf×m

Positioning accuracy

0,013 °

Maximum axial load

40 kg

Peak torque

azimuth (horizontal)
elevation (vertical)

8.4 kgf×m
8.2 kgf×m

Control interface

Ethernet

Ethernet standard

1 Gbps

Control protocol

Pelco-D and TechLaser-protocol

Nominal supply voltage

48 VDC

Stationary part connection interface

1 × Ethernet

2 × Ethernet (opt.)

Payload channels

1 × Ethernet

IP rating

IP65

Power consumption, max.

800 W

Max. voltage to load

230 VDC

Max. power to load

3500 W

Weight

19,5 kg

Operating temperature

- 40 ... + 50 °C



DESIGNED AND ENGINEERED FOR:

- ▲ Short-to-medium range surveillance and monitoring systems
- ▲ Designed for precision positioning of antenna feed systems and RF components
- ▲ Laser systems and auxiliary payloads

KEY DIFFERENCES FROM EXISTING SYSTEMS

- ▲ The unit is manufactured using high-strength alloys and engineered for harsh environmental operation
- ▲ Ergonomic port placement for payload connectivity in all positions
- ▲ Quick-connect interfaces: 48V power outputs, (1 Gbps) Ethernet ports

▲ TL.0251



PAN POSITIONER

Up to **40** kg
(max load)



Maximum axial payload capacity: 40 kg



All-weather heavy-duty metal housing



Reliable connectors for connection the positioner and payload



Vibration and shock resistance



Horizontal rotation speed: up to 300°/s



Easy connectivity: 48VDC, Gigabit Ethernet/ RS-485 / fiber optic



High positioning accuracy: 0.05°



360° continuous rotation with oscillating mode



Device weight: 8 kg

COMPLIES WITH THE FOLLOWING REQUIREMENTS;

- ▲ Functional requirements for transport security equipment
- ▲ TR CU 004/2011 "On safety of low-voltage equipment"
- ▲ TR CU 020/2011 "Electromagnetic compatibility of technical equipment"

PAN POSITIONER

▲ TL.0251

Designed for high-speed radar antenna positioning. The system provides smooth 360° azimuth rotation of mounted equipment at programmable speeds, with precise angular coordinate targeting



SPECIFICATIONS

▲ TL.0251

	TL.0251	TL.0251-050
Angular Range	0° ... 360° (∞)	
Angular Speed	0.01...50 °/s	0.01...250 °/s
Maximum angular acceleration	500 °/s ²	
Number of presets (Pelco-D)	64	
Positioning accuracy	0,05 °	
Forbidden zone setting	supported	
Maximum axial load	40 kg	
Maximum torque	5.9 kgf×m	2.47 kgf×m
Control interface	Ethernet/RS-485 (opt.)	
GUI for control and settings	WEB	
Stationary part connection interface	1 × Ethernet / 1 × RS-485 (opt.)	
Payload interface	1000 BASE-T (fiber optic optional)	
IP rating	IP65	
Weight	8 kg	
Overall dimensions	168x192x188 mm	
Nominal supply voltage	48 VDC	
Power consumption, max.	350 W	
Operating temperature	- 40 ... + 50 °C	



PAN POSITIONER ▲ TL.0251

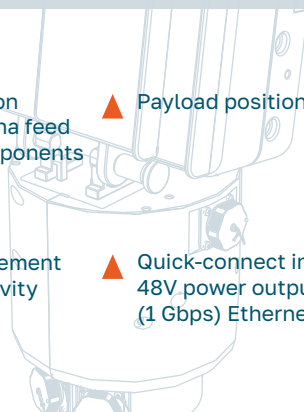
High-maneuverability pan platform designed for precise azimuth positioning of mounted equipment at programmable speeds. Features continuous 360° rotation with high-speed operation

DESIGNED AND ENGINEERED FOR:

- ▲ Radar system integration
- ▲ Designed for precision positioning of antenna feed systems and RF components
- ▲ Payload positioning

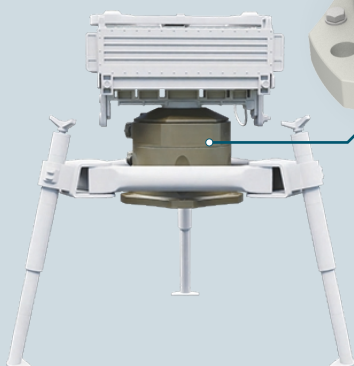
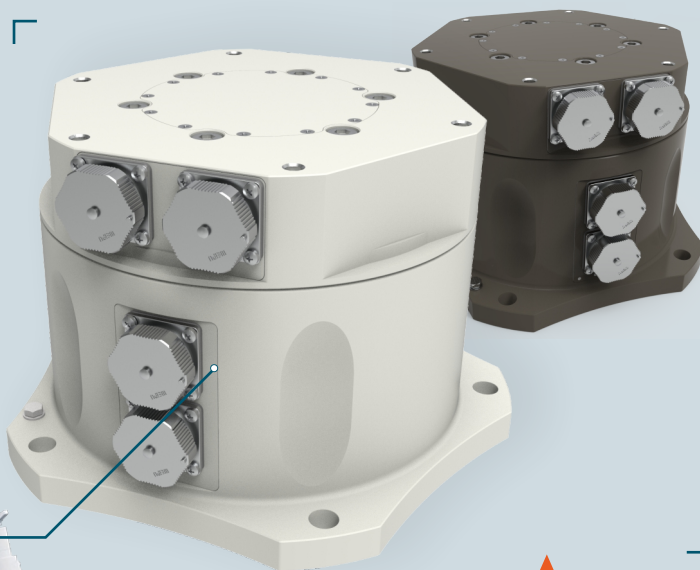
KEY DIFFERENCES FROM EXISTING SYSTEMS

- ▲ The unit is manufactured using high-strength alloys and engineered for harsh environmental operation
- ▲ Ergonomic port placement for payload connectivity in all positions
- ▲ Quick-connect interfaces: 48V power outputs, (1 Gbps) Ethernet ports



▲ TL.0026

▲ TL.0027



PAN POSITIONER

Up to **50** kg
(max load)



Maximum axial payload
capacity: 50 kg



All-weather heavy-duty
metal housing



High positioning
accuracy: 0.02°



Vibration and shock
resistance



Ultra-high rotation
speed: up to 1800°/s



Easy connectivity:
24VDC, Gigabit Ethernet/
RS-485 / fiber optic



360° continuous rotation
with oscillating mode



Device weight: 12,5 kg

COMPLIES WITH THE FOLLOWING REQUIREMENTS;

- ▲ Functional requirements for transport security equipment
- ▲ TR CU 004/2011 "On safety of low-voltage equipment"
- ▲ TR CU 020/2011 "Electromagnetic compatibility of technical equipment"

PAN POSITIONER

▲ TL.0026 ▲ TL.0027

Designed for high-speed radar antenna positioning. The system provides smooth 360° azimuth rotation of mounted equipment at programmable speeds, with precise angular coordinate targeting

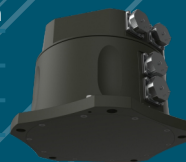


SPECIFICATIONS

▲ TL.0026

▲ TL.0027

	TL.0026	TL.0027
Angular Range	0° ... 360° (∞)	
Angular Speed	10° ... 1800°/s	
Positioning resolution	0,01°	
Positioning accuracy	0,02°	
Forbidden zone setting	supported	
Maximum axial load	50 kg	
Rated motor torque	1.06 kgf×m	
Regenerative braking	supported	
Power-off brake	supported	
Encoder type	absolute	
Control interface	RS-485	Ethernet & RS-485
Max data rate	115200 bps	1 Gb/s
Payload interface	Single-mode fiber optic	1×Ethernet; 1×RS-485
IP rating	IP66	
Weight	12,5 kg	
Overall dimensions	246×239×158 mm	
Nominal supply voltage	24 VDC	
Power consumption, max.	500 W	
Operating temperature	- 40 ... + 70 °C	



PAN POSITIONER ▲ TL.0026 ▲ TL.0027

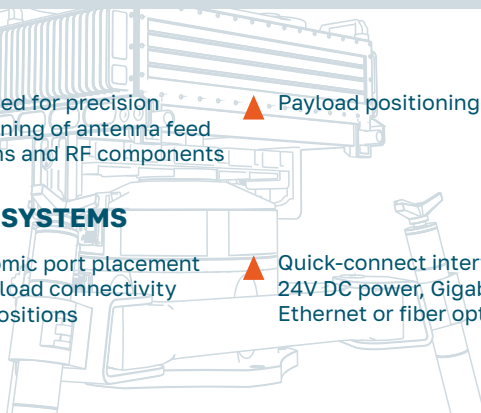
High-maneuverability pan platform designed for precise azimuth positioning of mounted equipment at programmable speeds. Features continuous 360° rotation with high-speed operation

DESIGNED AND ENGINEERED FOR:

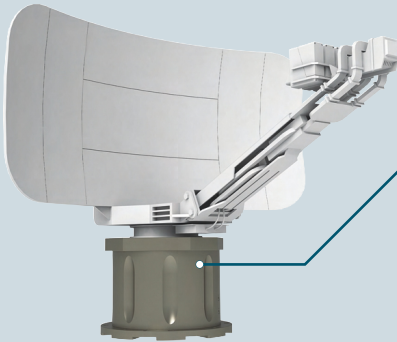
- ▲ Radar system integration
- ▲ Designed for precision positioning of antenna feed systems and RF components
- ▲ Payload positioning

KEY DIFFERENCES FROM EXISTING SYSTEMS

- ▲ The unit is manufactured using high-strength alloys and engineered for harsh environmental operation
- ▲ Ergonomic port placement for payload connectivity in all positions
- ▲ Quick-connect interfaces: 24V DC power, Gigabit Ethernet or fiber optic



▲ TL.0020



PAN POSITIONER

Up to **100** kg
(max load)



Maximum axial payload capacity: 100 kg



All-weather heavy-duty metal housing



High positioning accuracy: 0.05°



Vibration and shock resistance



Ultra-high rotation speed: up to 1100°/s



Easy connectivity: 24VDC, Gigabit Ethernet/RS-485 / fiber optic



360° continuous rotation with oscillating mode



Device weight: 28 kg

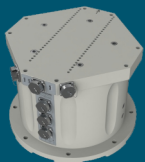
COMPLIES WITH THE FOLLOWING REQUIREMENTS;

- ▲ Functional requirements for transport security equipment
- ▲ TR CU 004/2011 "On safety of low-voltage equipment"
- ▲ TR CU 020/2011 "Electromagnetic compatibility of technical equipment"

PAN POSITIONER

▲ TL.0251

Designed for high-speed radar antenna positioning. The system provides smooth 360° azimuth rotation of mounted equipment at programmable speeds, with precise angular coordinate targeting



SPECIFICATIONS

▲ TL.0020

TL.0020

Angular Range	0° ... 360 ° (∞)
Angular Speed	3 ... 1100 °/s
Positioning accuracy	0,05 °
Oscillation mode	supported
Maximum axial load	100 kg
Rated motor torque	1.6 kgf×m
Control interface	RS-485/Ethernet
GUI for control and settings	WEB
Addressable receivers	115200 bps
Max RS nodes per bus	255 units
Max control distance via RS line	≥1500m
Ethernet speed	1 Gbps
IP rating	IP54
Weight	28 kg
Overall dimensions	360×360×258 mm
Nominal supply voltage	24 VDC
Power consumption, max.	450 W
Operating temperature	- 40 ... + 50 °C



PAN POSITIONER ▲ TL.0020

High-maneuverability pan platform designed for precise azimuth positioning of mounted equipment at programmable speeds. Features continuous 360° rotation with high-speed operation

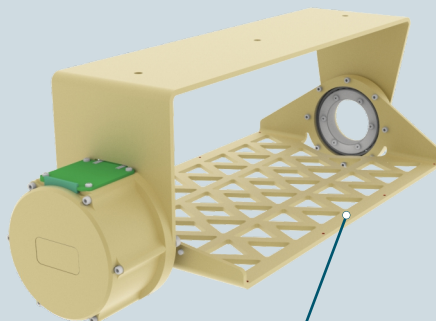
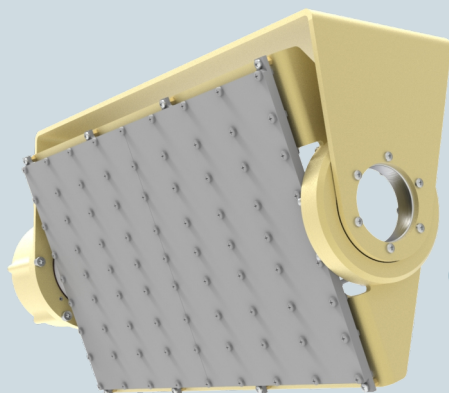
DESIGNED AND ENGINEERED FOR:

- ▲ Radar system integration
- ▲ Designed for precision positioning of antenna feed systems and RF components
- ▲ Payload positioning

KEY DIFFERENCES FROM EXISTING SYSTEMS

- ▲ The unit is manufactured using high-strength alloys and engineered for harsh environmental operation
- ▲ Ergonomic port placement for payload connectivity in all positions
- ▲ Quick-connect interfaces: 24V DC power, Gigabit Ethernet

▲ TL.0254



ONBOARD TILT DEVICE

Up to **3 kg**
(max load)



Maximum axial payload capacity: 3 kg



High positioning accuracy



Easy connectivity: 48VDC, Ethernet



Vibration and shock resistance



Rotation speed: up to 720°/s.
Acceleration: up to 3000°/s²



180° tilt range



Device weight: 3,7 kg

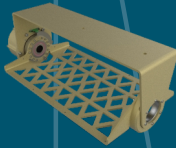
COMPLIES WITH THE FOLLOWING REQUIREMENTS;

- ▲ Functional requirements for transport security equipment
- ▲ TR CU 004/2011 "On safety of low-voltage equipment"
- ▲ TR CU 020/2011 "Electromagnetic compatibility of technical equipment"

ONBOARD TILT DEVICE

▲ TL.0254

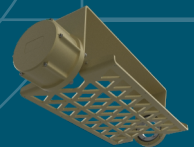
The onboard tilt mechanism is designed to position mounted equipment within specified elevation limits at controlled speeds. Suitable for communication antennas, radar systems, and jamming equipment



SPECIFICATIONS

▲ TL.0254

	TL.0254
Angular Range	from -90° to +90°
Angular Speed	0,1° ... 720°/s
Unlimited rotation	not supported
Maximum angular acceleration	3000°/s ²
Positioning accuracy	0,12°
Forbidden zone setting capability	supported
Maximum axial load	3 kg
Maximum torque	2,4 kgf×m
Peak torque	7,4 kgf×m
Control interface	Ethernet
Configuration interface	WEB & TechLaser-protocol
IP rating	IP 20
Weight	3,7 kg
Overall dimensions	148x204x288 mm
Nominal supply voltage	48 VDC
Power consumption, max.	350 W
Operating temperature	- 40 ... + 50 °C



TILT DEVICE ▲ TL.0254

High-maneuverability tilt platform designed for precise positioning of mounted equipment at programmable speeds. Suitable for communication antennas, radar systems, and electronic warfare payloads

DESIGNED AND ENGINEERED FOR:

- ▲ Development of onboard monitoring systems based on antenna arrays

- ▲ Designed for precision positioning of antenna feed systems and RF components

KEY DIFFERENCES FROM EXISTING SYSTEMS

- ▲ The unit is manufactured using high-strength alloys and engineered for harsh environmental operation
- ▲ Ergonomic port placement for payload connectivity in all positions
- ▲ Quick-connect interfaces: 48V power outputs (100Mbps) Ethernet ports

Notes:



Contacts

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