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| 4 | TURNTABLES

innco systems turntables are designed to be installed for surface mounting, free space environments or integrated, as part of a raised ground plane floor system. innco systems have designs for both inside EMC chambers or as part of an Open Area Test Site (OATS). The turntable top cover plates are available in plastic, sealed multilayer wood or stainless steel.

The turntable connection panel (CP) can be mounted in the center or at a position to be agreed. Standard power supplies, connectors or custom specific supplies can be provided, which can also include cable management systems (energy chain).

High performance electric continuity in ground plane floors during rotation is achieved using a proven copper connection system.

Our solutions provide optimized EMC performances, using specially design shielded drive units, which provide our turntable systems with the required 20 dB below the limit line of CISPR 12 and CISPR 22.

COMPACT (CT)

- Top plate made of PVC
- 500...1000 mm diameter
- 75 kg...150 kg load



COMPACT - HEIGHT ADJUSTABLE (CTE)

- Top plate made of PVC
- 500 mm diameter
- 25 kg load
- 700 mm...1100 mm height extendable



| 4.1 | PRODUCT OVERVIEW

PVC (KT)

- Top plate made of PVC
- 1200...1500 mm diameter
- 100 kg load



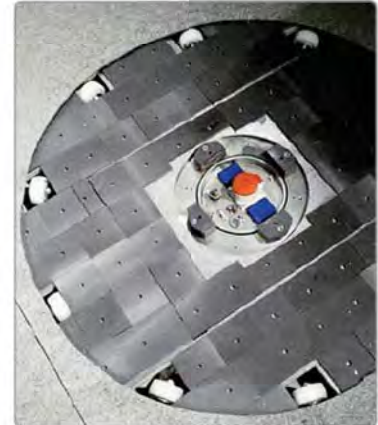
LOW PROFILE – FREE STANDING WITH WOODEN PLATE (DS-HA)

- Top plate made of wood
- 1000...2000 mm diameter
- 200 kg...500 kg load



LOW PROFILE – WOODEN COVER (DS-HE)

- Top plate made of wood
- 1200...2000 mm diameter
- 500 kg load



LOW PROFILE – STAINLESS STEEL COVER (DS-S)

- Top plate made of stainless steel
- 1200...2000 mm diameter
- 500 kg...1000 kg load



HIGH LOAD – STAINLESS STEEL COVER (DT)

- Top plate made of stainless steel
- 2000...20000 mm diameter
- 2000 kg...100000 kg load



HIGH LOAD DUAL – STAINLESS STEEL COVER (DDT)

- Top plate made of stainless steel
- 3000...10000 mm diameter
- 3000 kg...10000 kg load





| 4.2 | COMPACT (CT)

The CT is a compact and inexpensive turntable for test objects up to 150 kg. The CT is dismountable and easy to transport. The options for the automatically control are the controller CO 3000 or directly a PC via RS232 or USB.

If ordered with PC Control, the CT will be delivered with small demo software written in Virtual Basic, C++ or LabView.

The GPIB (IEEE 488) & LAN (TCP/IP) bus, when operated with the CO 3000 Controller, provides an additional control option for all functions.

COMPACT TURNTABLES (CT)

Type	Description	Article No.
CT 0500	Ø 500 mm, height 188 mm, max. load 75 kg	80005764
CT 0800	Ø 800 mm, height 188 mm, max. load 75 kg	80000138
CT 1000	Ø 1000 mm, height 188 mm, max. load 150 kg	80000296

ACCESSORIES

Type	Description	Article No.
-HP	High precision positioning (0.1 angular degree)	80004873
-ER	Endless turning (permanent positioning)	80004875
-150kg	150 kg load capacity for turntable CT series	80004880
-MV	Movable version with wheels instead of stands	80500059

SCOPE OF DELIVERY

Type	Quantity
Interface to CO 3000	1 x
Power supply cable	1 x 5 m
Fiber optic cable	1 x 5 m, 1 x 10 m
FSMA	2 x
Operating manual	1 x

TECHNICAL DATA

TYPE	CT 0500	CT 0800	CT 1000
Diameter	500 mm	800 mm	1000 mm
Permissible load	max. 75 kg	max. 75 kg	max. 150 kg
Height	188 mm		
Material carrier plate	Kömacel®, PVC-border-ring, weatherproof or wood		
Rotating time adjustable between	0.5...2.0 rpm		
Positioning accuracy	better $\pm 1^\circ$		
Rotating angle	-200...+400 ° or endless / continuous		
Control cable	fiber optic (polymer type)		
Motor	electronic EC motor 150 W		
Drive unit	shielded and radio interference suppressed 20 dB under Class B		
Operating voltage	110 / 230 V (50 / 60 Hz)		
Current consumption	max. 1.6 A		
Temperature range	+8 °C...+40 °C		





| 4.3 | COMPACT – HEIGHT ADJUSTABLE (CTE)

The CTE is an inexpensive compact table with non-metallic plate which is height adjustable in a certain range. The clamping mechanism does not require any tools to adjust the height.

In the center of the carrier plate a \varnothing 45 mm hole gives the possibility to route cables to the EUT through the tubes and the drive which pursues this duct down to the floor. The \varnothing 45mm allows to route typical CEE7/... and common NEMA household plugs if the plugs are straight.

The drive cover of the allows to place ferrites or absorbers easily on the drive unit.

The GPIB (IEEE 488) & LAN (TCP/IP) bus, when operated with the CO 3000 Controller, provides an additional control option for all functions.

COMPACT TURNTABLE – HEIGHT ADJUSTABLE (CTE)

Type	Description	Article No.
CTE 0500	\varnothing 500 mm, height adjustable 700...1100 mm, max. load 25 kg	80005164

ACCESSORIES

Type	Description	Article No.
-HP	High precision positioning (0.1 angular degree)	80004873
-ER	Endless turning (permanent positioning)	80004875
-MV	Movable version with wheels instead of stands	80500059

SCOPE OF DELIVERY

Type	Quantity
Interface to CO 3000	1 x
Power supply cable	1 x 5 m
Fiber optic cable	1 x 5 m, 1 x 10 m
FSMA	2 x
Operating manual	1 x

TECHNICAL DATA

TYPE	CTE 0500
Diameter	500 mm
Permissible load	25 kg
Height adjustable between	700...1100 mm (others on request)
Material carrier plate	Kömacel®, PVC-border-ring
Rotating time adjustable between	0.5...2.0 rpm
Positioning accuracy	± 0.3 °
Rotating angle	-200...+400 ° or endless / continuous
Control	microcontroller board
Control cable	fiber optic (polymer type)
Motor	electronic EC motor 150 W
Drive unit	shielded and radio interference suppressed max. 5 dB over the background noise
Operating voltage	110 / 230 V (50 / 60 Hz)
Current consumption	max. 1.6 A
Temperature range	+8 °C...+40 °C





| 4.4 | PVC (KT)

The KT turntables with the exception of the drive unit are fabricated totally from plastic (PVC). A 145 mm diameter opening in the centre of the turntable provides the capability to insert a power supply for testing. Three (3) supplied insertable shafts enable cables to be laid up to 1.5 meters from the turntable centre.

The GPIB (IEEE 488) & LAN (TCP/IP) bus, when operated with the CO 3000 Controller, provides an additional control option for all functions.

PVC TURNTABLES (KT)		
Type	Description	Article No.
KT 1200	Ø 1200 mm, height 800 mm, max. load 100 kg	80004881
KT 1500	Ø 1500 mm, height 800 mm, max. load 100 kg	80004882

ACCESSORIES		
Type	Description	Article No.
-HP	High precision positioning (0.1 angular degree)	80004873
-ER	Endless turning (permanent positioning)	80004875
-3rpm	Maximal speed up to 3 rpm	80004877

SCOPE OF DELIVERY	
Type	Quantity
Interface to CO 3000	1 x
Power supply cable	1 x 5 m
Fiber optic cable	1 x 5 m, 1 x 10 m
FSMA	2 x
Operating manual	1 x

TECHNICAL DATA		
TYPE	KT 1200	KT 1500
Diameter	1200 mm	1500 mm
Permissible load	max. 100 kg	
Height	800 mm	
Material carrier plate	PVC, weatherproof	
Rotating time adjustable between	0.5...2.0 rpm	
Positioning accuracy	± 0.5 °	
Rotating angle	-200...+400 °	
Control	microcontroller	
Control cable	duplex fiber optic (polymer type)	
Turntable drive	bevel/crown wheel pairing	
Motor	electronic EC motor 150 W	
Drive unit	shielded and radio interference suppressed	
Operating voltage	110 / 230 V (50 / 60 Hz)	
Current consumption	max. 1.6 A	
Temperature range	+8 °C...+40 °C	



| 4.5 | LOW PROFILE – FREE STANDING WITH WOODEN PLATE (DS-HA)

The DS-HA turntables are specifically designed for installation either at intermediate levels in electromagnetic absorption chambers or in open areas. The base plate is available in waterproof, laminated and lacquered wood (0.03 m thickness)

A 20 cm diameter opening in the centre of the turntable provides the capability to insert a power supply for testing.

The GPIB (IEEE 488) & LAN (TCP/IP) bus, when operated with the CO 3000 Controller, provides an additional control option for all functions.

LOW PROFILE TURNTABLES – FREE STANDING WITH WOODEN PLATE (DS-HA)

Type	Description	Article No.
DS 1000-HA	Ø 1000 mm, height 156 mm, load 200 kg	80000146
DS 1200-HA	Ø 1200 mm, height 156 mm, load 300 kg	80000147
DS 1500-HA	Ø 1500 mm, height 156 mm, load 500 kg	80000148
DS 2000-HA	Ø 2000 mm, height 166 mm, load 500 kg	80000149

ACCESSORIES

Type	Description	Article No.
-HP	High precision positioning (0.1 angular degree)	80004873
-O	OATS kit for DSXX00-HA series	80004874
-ER	Endless turning (permanent positioning)	80004875
-kg	Higher capacity for turntable DS-HA series	80004876
-3rpm	Maximal speed up to 3rpm	80004877

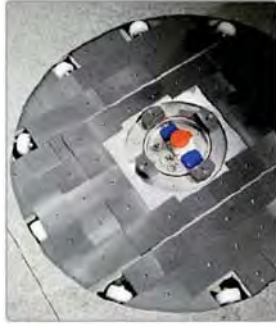
SCOPE OF DELIVERY

Type	Quantity
Interface to CO 3000	1 x
Power supply cable	1 x 3 m
Fiber optic cable	1 x 5 m, 1 x 10 m
FSMA	2 x
Standard CP	1 x
Operating manual	1 x

TECHNICAL DATA

TYPE	DS 1000-HA	DS 1200-HA	DS 1500-HA
Diameter	1000 mm	1200 mm	1500 mm
Permissible load	max. 200 kg	max. 300 kg	max. 500 kg
Height	156 mm		
Material carrier plate	wood		
Rotating time adjustable between	0.5...2.0 rpm		
Positioning accuracy	better $\pm 1^\circ$		
Rotating angle	-200...+400°		
Control	microcontroller		
Control cable	fiber optic (polymer type)		
Turntable drive	chain drive, worm gear		
Motor	electronic EC motor 150 W		
Drive unit	shielded and radio interference suppressed 20 dB under Class B		
Operating voltage	230 V 50 / 60 Hz (optional 110 V)		
Current consumption	max. 1.6 A		
Temperature range	+8 °C...+40 °C		
TYPE	DS 2000-HA		
Diameter	2000 mm		
Permissible load	max. 500 kg		
Height	166 mm		
Material carrier plate	wood		
Rotating time adjustable between	0.5...2.0 rpm		
Positioning accuracy	better $\pm 1^\circ$		
Rotating angle	-200...+400°		
Control	microcontroller		
Control cable	fiber optic (polymer type)		
Turntable drive	chain drive, worm gear		
Motor	electronic EC motor 150 W		
Drive unit	shielded and radio interference suppressed 20 dB under Class B		
Operating voltage	230 V 50 / 60 Hz (optional 110 V)		
Current consumption	max. 1.6 A		
Temperature range	+8 °C...+40 °C		





| 4.6 | LOW PROFILE – WOODEN COVER (DS-HE)

The DS-HE turntables are specifically designed for installation at intermediate levels in electromagnetic absorption chambers.

A 0.2 m diameter opening in the centre of the turntable provides the capability to insert a power supply for testing. Removable braces can be installed if necessary.

The GPIB (IEEE 488) & LAN (TCP/IP) bus, when operated with the CO 3000 Controller, provides an additional control option for all functions.

LOW PROFILE TURNTABLES – WOODEN COVER (DS-HE)

Type	Description	Article No.
DS 1200-HE	Ø 1200 mm, height 166 mm, load 300 kg	80000150
DS 1500-HE	Ø 1500 mm, height 166 mm, load 500 kg	80000151
DS 2000-HE	Ø 2000 mm, height 166 mm, load 500 kg	80000152

ACCESSORIES

Type	Description	Article No.
-HP High	Precision positioning (0.1 angular degree)	80004873
-ER	Endless turning (permanent positioning)	80004875
-kg	Higher capacity for turntable DS-HE series	80004876
-3rpm	Maximal speed up to 3rpm	80004877

SCOPE OF DELIVERY

Type	Quantity
Interface to CO 3000	1 x
Power supply cable	1 x 3 m
Fiber optic cable	1 x 5 m, 1 x 10 m
FSMA	2 x
Standard CP	1 x
Operating manual	1 x

TECHNICAL DATA

TYPE	DS 1200-HE	DS 1500-HE	DS 2000-HE
Diameter	1200 mm	1500 mm	2000 mm
Permissible load	max. 300 kg	max. 500 kg	max. 500 k
Height	166 mm		
Material carrier plate	wood		
Rotating time adjustable between	0.5...2.0 rpm		
Positioning accuracy	better $\pm 1^\circ$		
Rotating angle	-200...+400°		
Control	microcontroller		
Control cable	fiber optic (polymer type)		
Turntable drive	chain drive, worm gear		
Motor	electronic EC motor 150 W		
Drive unit	shielded and radio interference suppressed 20 dB under Class B		
Operating voltage	230 V 50 / 60 Hz (optional 110 V)		
Current consumption	max. 1.6 A		
Temperature range	+8 °C...+40 °C		





| 4.7 | LOW PROFILE – STAINLESS STEEL COVER (DS-S)

The DS-S turntables are specifically designed for installation either at intermediate levels in electromagnetic absorption chambers or in open areas. The base plate is available in stainless steel.

If a ground plane exists, and the carrying plate is made of steel, then the adapter contact ring with a quadratic rim can be supplied. A 0.2 m diameter opening in the centre of the turntable provides the capability to insert a power supply for testing. Removable braces can be installed if necessary.

The GPIB (IEEE 488) & LAN (TCP/IP) bus, when operated with the CO 3000 Controller, provides an additional control option for all functions.

LOW PROFILE TURNTABLES – STAINLESS STEEL COVER (DS-S)		
Type	Description	Article No.
DS 1200-S	Ø 1200 mm, height 130 mm, load 500 kg	80000153
DS 1500-S	Ø 1500 mm, height 130 mm, load 500 kg	80000339
DS 2000-S	Ø 2000 mm, height 141 mm, load 750 kg	80000155
DS 3000-S	Ø 3000 mm, height 180 mm, load 500 kg	80007158

ACCESSORIES		
Type	Description	Article No.
-HP High	Precision positioning (0.1 angular degree)	80004873
-O	OATS kit for DS-S series	80004874
-ER	Endless turning (permanent positioning)	80004875
-kg	Higher capacity for turntable DS-S series	80004876
-3rpm	Maximal speed up to 3rpm	80004877

SCOPE OF DELIVERY	
Type	Quantity
Interface to CO 3000	1 x
Power supply cable	1 x 3 m
Fiber optic cable	1 x 5 m, 1 x 10 m
FSMA	2 x
Standard CP	1 x
Operating manual	1 x

TECHNICAL DATA

TYPE	DS 1200-S	DS 1500-S	DS 2000-S
Diameter	1200 mm	1500 mm	2000 mm
Permissible load	500 kg	500 kg	750 kg
Height	min. 130 mm	min. 130 mm	min. 141 mm
Material	stainless steel		
Base L x W	1500 x 1500 mm	1800 x 1800 mm	2300 x 2300 mm
Positioning time adjustable between	0.5...2.0 rpm		
Positioning accuracy	better $\pm 1^\circ$	better $\pm 1^\circ (\pm 0.5^\circ)$	better $\pm 1^\circ (\pm 0.3^\circ)$
Rotating angle	-200...+400°		
Control	microcontroller		
Control cable	fiber optic (polymer type)		
Turntable drive	chain drive, worm gear		
Motor	electronic EC motor 150 W		
Drive unit	shielded and radio interference suppressed 20 dB under Class B		
Operating voltage	230 V 50 / 60 Hz (optional 110 V)		
Current consumption	max. 1.6 A		
Temperature range	+8 °C...+40 °C		
TYPE	DS 3000-S		
Diameter	3000 mm		
Permissible load	500 kg		
Height	min. 180 mm		
Material	stainless steel		
Base L x W	3300 x 3300 mm		
Positioning time adjustable between	0.3...1.0 rpm		
Positioning accuracy	better $\pm 1^\circ$		
Rotating angle	-200...+400°		
Control	microcontroller		
Control cable	fiber optic (polymer type)		
Turntable drive	chain drive, worm gear		
Motor	electronic EC motor 300 W		
Drive unit	shielded and radio interference suppressed 20 dB under Class B		
Operating voltage	230 V 50 / 60 Hz (optional 110 V)		
Current consumption	max. 3.2 A		
Temperature range	+8 °C...+40 °C		





| 4.8 | HIGH LOAD – STAINLESS STEEL COVER (DT) – PART 1

The DT turntables are specifically designed for installation either at intermediate levels in electromagnetic absorption chambers or in open areas. The base plate is available in stainless steel. If a ground plane exists, and the carrying plate is made of steel, then the adapter contact ring with a quadratic rim can be supplied.

The GPIB (IEEE 488) & LAN (TCP/IP) interface, when operated with the CO 3000 Controller, provides an additional control option for all functions.

HIGH LOAD TURNTABLES – STAINLESS STEEL COVER (DT)

Type	Description	Article No.
DT 2000-2t	Ø 2000 mm, height 300 mm, load 2000 kg	80000047
DT 3000-3t	Ø 3000 mm, height 400 mm, load 3000 kg	80000052
DT 4000-4t	Ø 4000 mm, height 500 mm, load 4000 kg	80000058

ACCESSORIES

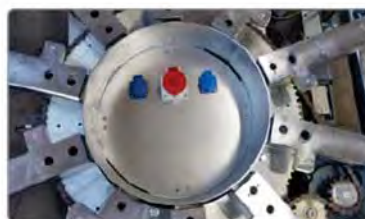
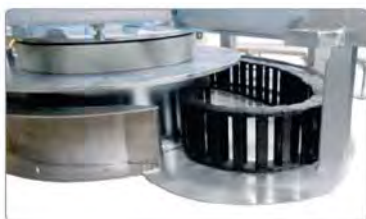
Type	Description	Article No.
-HP	High precision positioning (0.1 angular degree)	80004886
-O	OATS kit for DTXX00 series	80004887
-ER	Endless turning (permanent positioning)	80004888
-EC	Energy chain (no cable installation)	80004889
-SS	Limit switch system	80004890
-t	Higher capacity for turntable DT series	80004891
-CF	Cooling fan for airstream	80004892
-3rpm	Maximal speed up to 3rpm	80004877
-IT-XX00	Integrated turntable (diameter)	80004894
-RPS	Preparation for RPS	80004895
-EG	Exhaust gas system with 1 connector on the turntable	80004896

SCOPE OF DELIVERY

Type	Quantity
Interface to CO 3000	1 x
Power supply cable	1 x 3 m
Fiber optic cable	1 x 5 m, 1 x 10 m
FSMA	2 x
Standard CP	1 x
Operating manual	1 x

TECHNICAL DATA

TYPE	DT2000-2T	DT3000-3T	DT4000-4T
Diameter	2000 mm	3000 mm	4000 mm
Permissible load	2000 kg	3000 kg	4000 kg
Height	min. 300 mm	min. 400 mm	min. 500 mm
Material of carrier plate	stainless steel 5 mm		
Rotating speed	2.4...12.2 %/s	2.4...12.2 %/s	2.4...9 %/s
(without acceleration ramp)	0.4 rpm...2.0 rpm	0.4 rpm...2.0 rpm	0.4 rpm...1.5 rpm
Positioning accuracy	±0.3 °		
Rotating angle	-200...+400 °		
Squarish environment	2400 x 2400 mm	3400 x 3400 mm	4500 x 4500 mm
Ground plane connecting every	50 mm		
Control cable	fiber optic (polymer type)		
Turntable drive	gear motor		
Motor	asynchron motor, frequency inverted		
Control cabinet for drive	shielded and radio interference suppressed under EN 55022 class B		
Drive motor	0.37 kW	0.55 kW	1.1 kW
Connector panel	fixed in the centre		
Operating voltage	230 V 50 / 60 Hz (optional 400 V)		
Current consumption	16 A		
Temperature range	+8 °C...+40 °C		





| 4.8 | HIGH LOAD – STAINLESS STEEL COVER (DT) – PART 2

The DT turntables are specifically designed for installation either at intermediate levels in electromagnetic absorption chambers or in open areas. The base plate is available in stainless steel. If a ground plane exists, and the carrying plate is made of steel, then the adapter contact ring with a quadratic rim can be supplied.

The GPIB (IEEE 488) & LAN (TCP/IP) interface, when operated with the CO 3000 Controller, provides an additional control option for all functions.

HIGH LOAD TURNTABLES – STAINLESS STEEL COVER (DT)

Type	Description	Article No.
DT 5000-5t	Ø 5000 mm, height 600 mm, load 5000 kg	80005627
DT 8000-15t	Ø 8000 mm, height 1000 mm, load 15 000 kg	80007127

ACCESSORIES

Type	Description	Article No.
-HP	High precision positioning (0.1 angular degree)	80004886
-O	OATS kit for DTXX00 series	80004887
-ER	Endless turning (permanent positioning)	80004888
-EC	Energy chain (no cable installation)	80004889
-SS	Limit switch system	80004890
-t	Higher capacity for turntable DT series	80004891
-CF	Cooling fan for airstream	80004892
-3rpm	Maximal speed up to 3rpm	80004877
-IT-XX00	Integrated turntable (diameter)	80004894
-RPS	Preparation for RPS	80004895
-EG	Exhaust gas system with 1 connector on the turntable	80004896

SCOPE OF DELIVERY

Type	Quantity
Interface to CO 3000	1 x
Power supply cable	1 x 3 m
Fiber optic cable	1 x 5 m, 1 x 10 m
FSMA	2 x
Standard CP	1 x
Operating manual	1 x

TECHNICAL DATA

TYPE	DT5000-5T	DT8000-15T
Diameter	5000 mm	8000 mm
Permissible load	5000 kg	15000 kg
Height	min. 600 mm	min. 1000 mm
Material of carrier plate	stainless steel 5 mm	
Rotating speed	1.8...7.6 °/s	1.2...6.0 °/s
(without acceleration ramp)	0.3 rpm...1.3 rpm	0.2 rpm...1.0 rpm
Positioning accuracy	±0.2°	±0.3°
Rotating angle	-200...+400°	
Squarish environment	5500 x 5500 mm	8500 x 8500 mm
Ground plane connecting every	50 mm	
Control cable	fiber optic (polymer type)	
Turntable drive	gear motor	
Motor	asynchron motor, frequency inverted	
Control cabinet for drive	shielded and radio interference suppressed under EN 55022 class B	
Drive motor	2.2 kW	2 x 4.0 kW (approx.)
Connector panel	fixed in the centre	
Operating voltage	230 V 50 / 60 Hz (optional 400 V)	
Current consumption	16 A	32 A
Temperature range	+8 °C...+40 °C	





| 4.9 | HIGH LOAD DUAL – STAINLESS STEEL COVER (DDT) – PART 1

The DDT turntables are specifically designed for installation either at intermediate levels in electromagnetic absorption chambers or in open areas. The base plate is available in stainless steel. If a ground plane exists, and the carrying plate is made of steel, then the adapter contact ring with a quadratic rim can be supplied.

The GPIB (IEEE 488) & LAN (TCP/IP) interface, when operated with the CO 3000 Controller, provides an additional control option for all functions.

HIGH LOAD DUAL TURNTABLES WITH STAINLESS STEEL COVER (DDT)

Type	Description	Article No.
DDT 3000/1500-3t	Ø 3000 / 1500 mm, height 600 mm, load 3000 kg	80005075
DDT 4000/2000-3t	Ø 4000 / 2000 mm, height 750 mm, load 3000 kg	80006677

ACCESSORIES

Type	Description	Article No.
-HP	High precision positioning (0.1 angular degree)	80004886
-O	OATS kit for DDTXX00 series	80004887
-ER	Endless turning (permanent positioning)	80004888
-EC	Energy chain (no cable installation)	80004889
-SS	Limit switch system	80004890
-t	Higher capacity for turntable DDT series	80004891
-CF	Cooling fan for airstream	80004892
-3rpm	Maximal speed up to 3rpm	80004877
-EG	Exhaust gas system with 1 connector on the turntable	80004896

SCOPE OF DELIVERY

Type	Quantity
Interface to CO 3000	2 x
Power supply cable	2 x 3 m
Fiber optic cable	2 x 5 m, 2 x 20 m
FSMA	4 x
Operating manual	1 x

TECHNICAL DATA

TYPE	DDT3000/1500-3T	DDT4000/2000-3T
Diameter (main / inner turntable)	3000 mm / 1500 mm	4000 mm / 2000 mm
Permissible load (main / inner turntable)	3000 kg / 3000 kg	
Rotating speed (main / inner turntable)	3...12 / 3...12 °/s	
(without acceleration ramp)	0.5...2.0 / 0.5...2.0 rpm	
Positioning accuracy (main / inner turntable)	better ±0.3 ° / better ±0.3 °	
Rotating angle (main / inner turntable)	-20...+380 ° / -20...+380 °	-200...+400 ° / -200...+400 °
Height (entire)	min. 600 mm	min. 750 mm
Material of carrier plate	stainless steel ~ 5 mm	
Squarish environment	3400 x 3400 mm	4500 x 4500 mm
Ground plane connecting every	50 mm	
Control cable	fiber optic (polymer type)	
Turntable drive	gear motor	
Motor	asynchron motor, frequency inverted	
Control cabinet for drive	shielded and radio interference suppressed under EN 55022 class B	
Drive motor (main / inner turntable)	~ 0.75 kW / 0.25 kW	~ 1.5 kW / 0.75 kW
Connector panel	fixed in the centre	
Operating voltage	230 V 50 / 60 Hz (optional 400 V)	
Current consumption	16 A	32 A
Temperature range	+8 °C...+40 °C	





| 4.9 | HIGH LOAD DUAL – STAINLESS STEEL COVER (DDT) – PART 2

The DDT turntables are specifically designed for installation either at intermediate levels in electromagnetic absorption chambers or in open areas. The base plate is available in stainless steel. If a ground plane exists, and the carrying plate is made of steel, then the adapter contact ring with a quadratic rim can be supplied.

The GPIB (IEEE 488) & LAN (TCP/IP) interface, when operated with the CO 3000 Controller, provides an additional control option for all functions.

HIGH LOAD DUAL TURNTABLES WITH STAINLESS STEEL COVER (DDT)		
Type	Description	Article No.
DDT 5000/3000-5t	Ø 5000 / 3000 mm, height 700 mm, load 5000 kg	80007062
DDT 6000/3000-5t	Ø 6000 / 3000 mm, height 500 mm, load 5000 kg	80007061

ACCESSORIES		
Type	Description	Article No.
-HP	High precision positioning (0.1 angular degree)	80004886
-O	OATS kit for DDTXX00 series	80004887
-ER	Endless turning (permanent positioning)	80004888
-EC	Energy chain (no cable installation)	80004889
-SS	Limit switch system	80004890
-t	Higher capacity for turntable DDT series	80004891
-CF	Cooling fan for airstream	80004892
-3rpm	Maximal speed up to 3rpm	80004877
-EG	Exhaust gas system with 1 connector on the turntable	80004896

SCOPE OF DELIVERY	
Type	Quantity
Interface to CO 3000	2 x
Power supply cable	2 x 3 m
Fiber optic cable	2 x 5 m, 2 x 20 m
FSMA	4 x
Operating manual	1 x

TECHNICAL DATA

TYPE	DDT5000/3000-5T	DDT6000/3000-5T
Diameter (main / inner turntable)	5000 mm / 3000 mm	6000 mm / 3000 mm
Permissible load (main / inner turntable)	5000 kg / 5000 kg	
Rotating speed (main / inner turntable)	1.8...6 / 3...12 °/s	
(without acceleration ramp)	0.3...1.0 / 0.5...2.0 rpm	
Positioning accuracy (main / inner turntable)	better ±0.3 ° / better ±0.3 °	
Rotating angle (main / inner turntable)	-20...+380 ° / -20...+380 °	
Height (entire)	min. 700 mm	min. 500 mm
Material of carrier plate	stainless steel ~ 5 mm	
Squarish environment	5500 x 5500 mm	6500 x 6500 mm
Ground plane connecting every	50 mm	
Control cable	fiber optic (polymer type)	
Turntable drive	gear motor	
Motor	asynchron motor, frequency inverted	
Control cabinet for drive	shielded and radio interference suppressed under EN 55022 class B	
Drive motor (main / inner turntable)	~ 2 x 0.75 kW / 2 x 0.55 kW	~ 2.2 kW / 1.5 kW
Connector panel	fixed in the centre	
Operating voltage	230 V 50 / 60 Hz (optional 400 V)	
Current consumption	32 A	
Temperature range	+8 °C...+40 °C	

