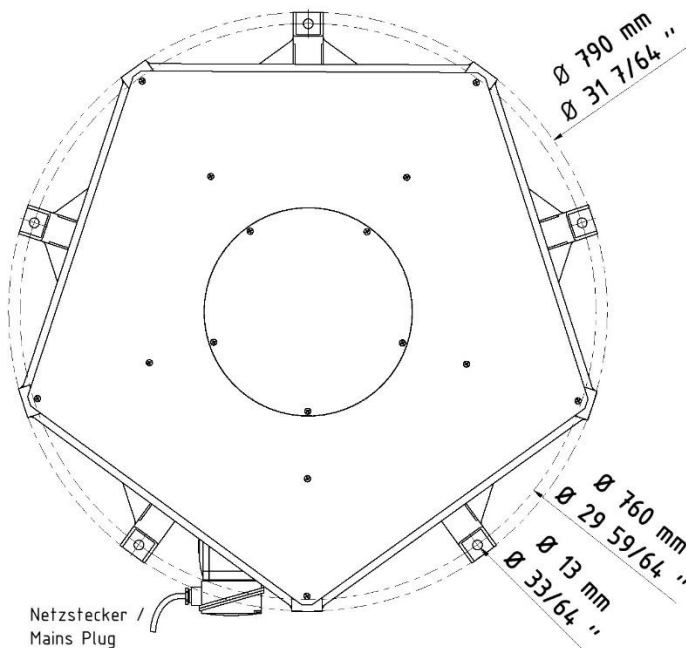
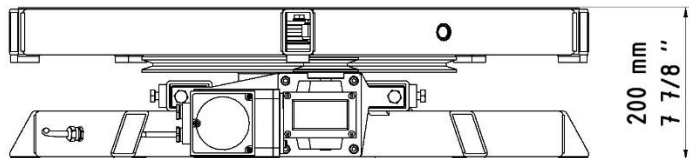




## Drehbühne / Turntable STO 1,5 STO 1.5 (mit Schleifring / with Slip Ring)



### Drehbühne STO 1,5 für den Innen- und Außenbereich:

Die zulässige zentrische Belastung der STO 1,5 beträgt maximal 1.500 kg. Durch den robusten Stahlbau und die verwendeten Materialien ist diese Drehbühne sehr universell einsetzbar. So zum Beispiel für Drehobjekte der Innen- und Außenwerbung, Messeobjekte, Drehsäulen für die Städtewerbung. Für den Einsatz im Außenbereich sollten Sie sich von uns beraten lassen.

#### Eigenschaften:

- Verwindungssteif
- Geräuscharmer Asynchrontriebemotor
- Für Innen- und Außenbetrieb geeignet
- Schutzart IP x3
- Wartungsfrei
- Sicherheits-Rutschkupplung über einstellbaren Antriebsriemen
- Schleifringausführung mit separater Zuleitung für rotierende Stromübertragung (16 A / ca. 3.500 W)

### Turntable STO 1.5 for indoor and outdoor use:

The model STO 1.5 allows a centric load of maximum 1,500 kg (3,300 lbs). Because of its robust steelwork this turntable can be used universally, for example for rotary objects for indoor and outdoor publicity, for exhibition objects, for columns for publicity purposes in cities. In case of outdoor applications please contact us for support.

#### Features:

- torsion free
- asynchronous gear motor with low noise
- suitable for indoor or outdoor operation
- protection category IP x3
- maintenance-free
- adjustable belt driven safety clutch
- slip ring for rotating power supply (16 amp, (220-240 V = 3,500 W; 110-120 V = 1,800 W))



230 V  
(115 V<sup>1</sup>)



0,8 UpM



1.500 kg



3.500 W  
(1,800 W)



## Drehbühne / Turntable STO 1,5 STO 1.5 (mit Schleifring / with Slip Ring)

### Technische Daten:

#### STO 1,5

- Max. zentrische Belastung: 1.500 kg
- Gesamthöhe: 200 mm
- Drehtellermaße: 5-eckig; Ø 790 mm
- Nennspannung: 220-240 VAC, 50 Hz  
optional 110-120 VAC, 60 Hz
- Motor-Leerlauf-Leistungsaufnahme: <80 W
- Standarddrehzahl: 0,8 UpM, rechtsdrehend
- Eigengewicht: 85 kg

#### Zusatzrüstung (auf Anfrage bzw. gegen Aufpreis):

- Taktschaltung
- Reversierbetrieb
- Drehrichtung: linksdrehend
- Handumschaltung: L / Aus / R
- Drehzahlregelung mit Frequenzumrichter
- **Weitere Optionen auf Anfrage**

#### <sup>1</sup>Technische Hinweise:

Die Drehgeschwindigkeit aller im 60 Hertz Stromnetz (US-Ausführungen) betriebenen Drehbühnen liegt ca. 20% höher als der im 50 Hertz –Stromnetz eingesetzten. Höhere Drehzahlen können die Maximalbelastung so herabsetzen, dass die oben gemachten Angaben nicht mehr bindend sind.

### Technical Data

#### STO 1.5

- max. centric load: 1,500 kg (3,300 lbs)
- total height: 200 mm
- dimension of turntable: 5-squared; Ø 790 mm
- nominal voltage: 220 to 240 VAC, 50 Hz,  
optional 110-120 VAC, 60 Hz
- motor no-load power consumption: <80 Watt
- rotation speed: 0.8 rpm, rotating clockwise
- dead weight: 85 kg

#### Additional Features (on demand / on surcharge):

- cycle operation
- reversible operation
- rotation direction: counterclockwise
- manual switching: l (ccw) / off / r (cw)
- speed regulation by Frequency Converter
- **further options on request**

#### <sup>1</sup>Technical Information:

The rotation speed in the 60 Hertz grid (US version) is approx. 20% higher than in the 50 Hertz grid. Higher rotation speed can reduce the maximum load, so that the above mentioned characteristics are no longer valid.



## Copy of Original General Mounting and Operating Instructions for Turntables

Congratulations on your purchase of a high quality product from our company.

**For your own safety, please read the following security, operation and installation instructions carefully, before initial start-up! Keep these instructions for the entire service life of the product in order to be able to consult them at any time.**

This turntable has left the factory in absolute perfect condition of technical safety. For keeping it in such condition and for ensuring a danger free operation, the operator must follow the enclosed safety instructions and warnings.

Please check for possible shipping damages first. Should there be any recognizable shipping damages, do not put the unit into operation and contact your dealer or supplier immediately.

Please keep the **original packaging**. Always ship the goods in the original packaging for ensuring best possible protection during transportation. We also recommend insuring the goods for their retail value.

**This device is not intended for being operated by persons (including children) with impaired physical, sensorial or mental capability or lacking experience and/or knowledge. Excepting in cases when they are supervised by a responsible person or when they receive instructions from such on how to operate the unit. Never leave such persons unattended with this device, as this product is not a toy!**

### Warranty / Security Advice:

These instructions are part of the product. Always include these with the unit, even if they are forwarded to third parties. This is also valid for any product descriptions or special operation instructions included with the unit.

Damages caused by disregarding these instructions or false operation are not subject to warranty. Warranty claims in such cases expire instantly. These also refer to any modifications made on the unit.

Using the device differently as described in the operation instructions may cause damages to the unit, which also leads to voiding of any warranty claims. Overturning, scratches or disassembled units will affect the warranty claims. Furthermore, any other usage may cause short circuit, fire, electrical shock or personal injury. For consequences in such cases the manufacturer will not accept any liability.

### Proper Use:

This unit is recommended for presenting different products with the purpose of advertising and for promoting sales. Please note the product specific information written on the attached data sheet or on our website. For any questions concerning our products please contact us by phone or email.

### Improper Use:

The product should never be operated by another voltage than the one indicated on the label. Do not pull, lift or swing the unit from its power cord and neither throw or overload it mechanically or electrically. No objects or fluids may ever get in the openings of the unit. Operation in humid like splash water, rain and fog or very dusty environment is prohibited. Always pull the power plug and not the power cord from the power outlet. The power cord should never be modified, mechanically strained, bent, cut or cut off or exposed to heat or pressure.

### Do Not Put the Device into Operation:

- As long as you are not sure of its purpose.
- After moving the device from a cold environment to a warm one. In certain circumstances the condensation water may destroy the unit. Leave the device off as long as it reaches room temperature (except for devices designed for outdoor operation).



## Copy of Original General Mounting and Operating Instructions for Turntables

### **Special Remark:**

Do not plug the unit into the mains outlet forcefully, but make sure that the plug is tightly connected with it. Never let the power cord come into contact with other cables! Be cautious when working with power cords and connections. Never touch the power cord or the device with wet hands as long as they are plugged into the mains power supply, as it may cause lethal electric shock. Make sure that the power cord is not crimped or damaged by sharp edges. Never leave the device operating near sources of heat or cold. Failure to do so, may lead to power cord damages, may cause fire or lethal electrical shock.

Check the power cord and the power connection for damages periodically.

Never leave the operating device unattended. Keep it away from children and not authorized persons.



**WARNING! Dangerous voltage.**  
**By improper use such voltage might be life threatening!**

Units that are equipped with slip rings contain “basic isolated” parts (isolation of power transmitting wires with no additional protective covering, e.g. luster terminal) which may be touched. Sufficient protection against an electric shock must be foreseen when connecting the display to such.

The whole construction containing the device must comply with all local or country specific directives, standards, laws and regulations.

### **Mounting and Operating Instructions:**

This device is a motor drive for operation in horizontal or vertical position as well as in a ceiling mounted position (depending on its specifications). The maximum load of the installation must not exceed the load referring to the specifications marked on the label at the back side. This product is only allowed to be operated with an alternating voltage of 220-240 V, 50 Hz or 100-120 V, 60 Hz AC.

The turntable has to be placed on a horizontal support (adjusted by a spirit level if necessary) and according to its construction, secured by screws through **all** foreseen screw holes. The support should not get deformed under the load of the whole construction including the turntable.

**The turntable is built in such way that under no circumstances should any supporting wheels be used on the outer rim.**

The torque in such cases may impair the proper operation and may lead to blocking the drive and cause an early wear off of the safety clutch. A perfectly balanced construction doesn't need any support rolls.

The turntable must be axially loaded, meaning that the construction's gravity centre must be at a distance of max. 10 mm from the rotating axis. Therefore, not just the size and the form of the construction but also the distribution of weight must be in corresponding proportion with the turntable (ask your supplier in case of doubt).

### **Important:**

**The load of the turntable is the combined effect of weight, bending moments, various conditions at the place of installation (e.g. impact / bending load by wind power, passers-by, possible higher safety requirements for displays suspended over public, e.g. at fairs or trade shows, etc.) so that the maximum permissible weight has to be adapted according to each application in part.**



## Copy of Original General Mounting and Operating Instructions for Turntables

### **Outdoor Use:**

Even outdoor units must be built in in such way that they do not get in direct contact with snow, rain, splash water, etc. Such a protection can be ensured by providing an elevated base, good water drainage, good ventilation, shielding sidely against rain or any other similar measures.

Basically, for each construction the manufacturer's prior agreement should be considered, as no general static calculations can be given. Resistance values are influenced by the form of the construction as well by wind factors depending also on the place of installation. The wind pressure (bending moment) represents the most critical load in case of any outdoor application.

Further information are given in the accompanying data sheet of each turntable.

### **General Remark:**

Please be aware that our liability consists solely of the manufacturing and delivery of the turntable and motor drive(s) ordered by you. The responsibility for proper support and installation in concordance with all legal obligations and testing the complete installation(s) fall under the duties of the customer.

**Please note our Mounting and Operating Instructions.**

### **Connecting to power:**

Connect the turning drive to the mains through the power cord. Always connect the mains plug into the power outlet after the installation has been completed. The plug should not be inserted forcefully, still make sure that the plug is tightly connected with the mains. In case of connections with no plug it is crucial to connect the protective conductor, as long as provided (depending on the unit type).

The connection cord should not be stretched. The power cord should be long enough to prevent any possible damaging, which could lead to lethal electric shock. Should there be any extension cords used, it must be ensured that the core cross-section is approved for the power supply of the device. All warnings apply to any used extension cables also.

Unplug the device from the mains if it is not used or before cleaning! Never pull on the power cord when unplugging the device but always grab the power plug from its grip. Otherwise, the power cord might get damaged, which could lead to lethal electric shock. If because of installation conditions the plugs or on/ off switches are not accessible, an all-pole disconnection from the mains must be carried out.

No liquids should ever get into the mains outlets, power connections or any other holes or cracks on the housing of the device. Should there be a slightest hint that even a minimal liquid quantity has gotten into the device, this must be all-pole disconnected from mains. This is also applies when the device was exposed to high humidity like splash water, rain or fog. Even if the device seemingly is still functioning a specialist must check if any isolation got affected through entry of liquids. Reduced isolation may cause lethal electric shock.

No foreign objects, especially no metal parts, should ever get into the device. Should even the smallest metal parts, as paper clips, staples or metal chips ever get into the device, the unit should be stopped instantly and all-pole disconnected from the mains power supply. Metal parts may cause malfunctions of the unit and short circuits and therefore represent a hazard, which may lead to lethal injuries.



## Copy of Original General Mounting and Operating Instructions for Turntables

### **Cleaning and Maintenance**

Never use solvents or coarse cleansers for cleaning the device. Only use a soft damp cloth. The customer must ensure that each installation is checked by an expert for technical safety and functioning on a yearly basis.

Please don't open the motor housing of the unit. There are live components inside which could be dangerous for your health.

The following points have to be considered during an inspection:

- All screws used for mounting the device and / or parts of it have to be tight and not corroded.
- No deformations should be noticeable on the housing, on mounting parts or installation place (ceiling, suspension or cross beams).
- Mechanically moving parts, like shafts, loops or similar, must not show any traces of wearing (e.g. material abrading or any damages) and must not be unbalanced.
- Cables of the electric power supply must not show any damages, material fatigue (e.g. porous cables) or sediments. Further installation requirements depend on the place of installation as well as on the operating regulations and should always be carried out by a professional and adequately eliminated.
- Maintenance and service operations are only to be carried out by authorized personnel. Use original spare parts only!

### **Troubleshooting:**

Turn plate doesn't rotate:

- Check if the device is properly plugged into the mains supply
- Check if there is electrical power on the mains
- Check if a fuse might be blown. If so, replace it.

Motor is running but the turn plate doesn't rotate:

- Safety clutch is worn out and has to be adjusted or replaced
- Too much load on the turntable and the clutch is active
- The construction is not smooth enough and/or is getting stopped by surroundings. Change the place of mounting

### **Waste Disposal:**

Protecting the environment is very important to us. This refers not only to the direct pollution but also to managing the resources. Our products should never be disposed of through household waste. Precious raw materials may be recycled. If you are a final consumer ask your reseller for proper methods and places of recycling of electric devices. Please comply with your country specific recycling methods. There might be facilities for recycling of electric devices in your area.



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Home [www.mte-motors.de](http://www.mte-motors.de)  
[www.mte-watchwinder.com](http://www.mte-watchwinder.com)

04.09.2023

***Copy of Original***

## **EC Declaration of Incorporation**

(Machinery Directive 2006/42/EG)

The manufacturer of the partly completed machine hereby declares that:

Type: „STO 1,5“  
Description: Turntable with tubular steel welding frame and rotating plate, 230 V AC, 50/60 Hz, 3-wire supply cable with Schuko plug, Ø 790 mm, height 200 mm, maximum axial centric load 1,500 kg, slip ring for max. 16 A

- that the following general security and health protection is in accordance to the annex I of the directive above:
  - No. 1.1.2., No. 1.1.3., No. 1.3.1., No. 1.3.4., No. 1.3.6., No. 1.5.1., No.1.5.2., No. 1.5.4., No. 1.5.8., No. 1.5.9., No. 1.5.13., No. 1.7.4.1.
- that the special technical documents are created according annex VII B,
- that the special technical documents can be transferred as PDF files to the responsible authorities,
- The conformity according to the EMC Directive:
  - Low Voltage Directive 2014/35/EU
  - EMC Directive 2014/30/EU
- Using Harmonized Standards:
  - EN ISO 12100:2010

### Manufacturer and authorized representative of the technical documentation:

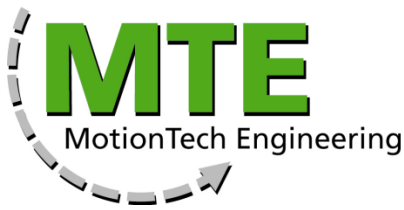
MTE Bewegungstechnik GmbH & Co. KG

Dammstrasse 27

D - 71384 Weinstadt

Tel.: 0049 (0)7151 / 97913-0

The incomplete machine may not be put into operation before it has been noticed that the machine which should be built in in an incomplete machine is in accordance to the machine directive.



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[www.mte-watchwinder.com](http://www.mte-watchwinder.com)

## Certificate of RoHS Compliance

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MTE Bewegungstechnik GmbH & Co. KG certifies that all components listed below are RoHS compliant and meet the requirements of the current EU RoHS Directive 2011/65/EU of the European Parliament, and do not contain the substances listed in the table below in concentrations exceeding the Maximum Concentration Value (MCV).

### Substance Maximum Concentration Value:

1. Lead (Pb) 0.1%
2. Hexavalent Chromium (Cr+6) 0.1%
3. Mercury (Hg) 0.1%
4. Cadmium (Cd) 0.01%
5. Polybrominated Biphenyls (PBB) 0.0%
6. Polybrominated Diphenyl Ethers (PBDE) 0.0%
7. Decabrom Diphenyl Ethers (DecaBDE) 0.0%
8. Tetrabromobisphenyl A (TBBP-A) 0.0%
9. Hexabromocyclododecane (HBCDD) 0.0%
10. Bis(2-ethylhexyl)phthalate (DEHP) 0.0%
11. Butyl Benzyl Phthalate (BBP) 0.0%, Dibutyl Phthalate (DBP) 0.0%
12. Medium-chained chlorinated parafins (MCCP) (Alkanes, C14-17, chloro) 0.0%
13. Short-chained chlorinated parafins (SCCP) (Alkanes, C10-13, chloro) 0.0%
14. Nonylphenol / Nonyphenol ethoxylates 0.0%

This Certificate is applicable for our products as follows:

- Display Motors (AC- / DC powered)
- Turntables (AC- / DC powered)
- Watchwinders (AC- / DC-powered)

12.12.2016

Norman Rothacker, General Manager





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## **Lieferantenerklärung zu REACH / Suppliers Declaration related to REACH / Attestation sur le reglement REACH Europeen**

Wir, das Unternehmen MTE Bewegungstechnik GmbH & Co. KG, bestätigen hiermit, dass

***in keinem unserer Produkte die Kriterien des Artikels 57 erfüllende und gemäß Artikel 59, Absatz 1 der REACH-Verordnung ermittelte Stoffe in Konzentration von mehr als 0,1 Massenprozent (w/w) vorhanden sind und wir uns laufend über die SVHC-Stoffe in der Kandidatenliste der ECHA informieren werden. Wenn in unseren Erzeugnisse ein Stoff von mehr als 0,1 Massenprozent (w/w) vorhanden sein sollte, der in der Liste erscheint, werden wir unsere Kunden gemäß Artikel 33 der REACH-Verordnung innerhalb einer Frist von 45 Tagen darüber informieren.***

We, the company MTE Bewegungstechnik GmbH & Co. KG herewith confirm that

***none of our products fulfil the criteria of Article 57 and by Article 59, paragraph 1 of the REACH Regulation identified substances in concentrations of more than 0.1 weight percent (w / w) don't exist. We will keep informed ourselves constantly on the SVHC substances in the ECHA list of candidates. If our products in a matter of more than 0.1 weight percent (w / w) should be available, which appear in the list, we will inform our customers about by Article 33 of the REACH regulation within a period of 45 days.***

Weinstadt, 01.04.2009

A handwritten signature in black ink, appearing to be 'M. Schmidt', written over a horizontal line.

Unterschrift / Signature  
- General Manager -

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## Additional Warranty Policy

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Please note our General Terms and Conditions available on our website at [www.mte-motors.de](http://www.mte-motors.de) .

Our turntables are manufactured in our own workshop facility. They are thoroughly examined, tested and comply with **our** strict quality assurance requirements.

In order to reach a long life span of our mostly maintenance free turntables, proper operation and appropriate handling are compulsory. Inadequate operation through stopping, overloading not just axially but also radially, as well as humidity, may shorten the life span considerably and may damage the motor, the drive and the bearings. Connecting large power consumers to the slip ring may lead to the destruction of the sliding contacts and of the slip tracks.

The time of warranty is limited to 12 months from the date of purchase. The warranty refers to the motor, the drive, as well as to the rotating power transmission parts. By making usage of a warranty claim, the warranty period does not get extended. For spare parts and maintenance works the warranty time comprises 6 months, **however at least the current warranty period**. The document of purchase constitutes the evidence for a warranty claim.

### Services:

For the time of the warranty period, we will eliminate all deficiencies of the product, which are proven to be caused by material defects or production errors. We commit ourselves, by our choice, to exchanging the faulty product with a non-defective one free of charge, to repairing or **to replacing this through a lesser value**. Replaced parts become our property.

Refunding for costs implying dismantling and remounting, examination of certain parts as well as claims for lost profit and compensations are excluded from warranty.

Also excluded are damages caused by:

- Improper mounting and connection
- Outdoors operation (excepting turntables that are specifically designed for such)
- Improper putting into operation and handling
- External factors, such as fire, water, extreme environmental conditions
- Mechanical damages caused by dropping, hitting or similar
- Involuntary or willful destruction
- Normal wear (for ex. safety clutch or slip ring parts)
- Early wear off of the safety clutch (for ex. due to frequent personal interference or unbalanced load)
- Removing or obscuring any information pertaining the product specification or production date.

Please be advised, that our products may only be opened and dismantled with our prior consent and in concordance with our instructions. Any warranty claims expire when repairs or interventions are made by persons who are not qualified and who have not been authorized by us to do so. This also refers to cases when our products are equipped with spare parts, substitute parts or components that are not original ones and therefore may inflict damages.