

Technical data

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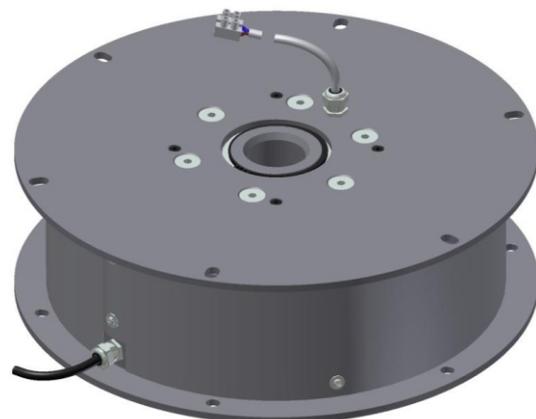
574

PRODUCT:

TURNTABLE U 5000

NOTE:

TECHNICAL DATA

IMAGE:**LAST UPDATE:**

9/2022

TURNTABLE U 5000

(mit Schleifring/ with Slip Ring)

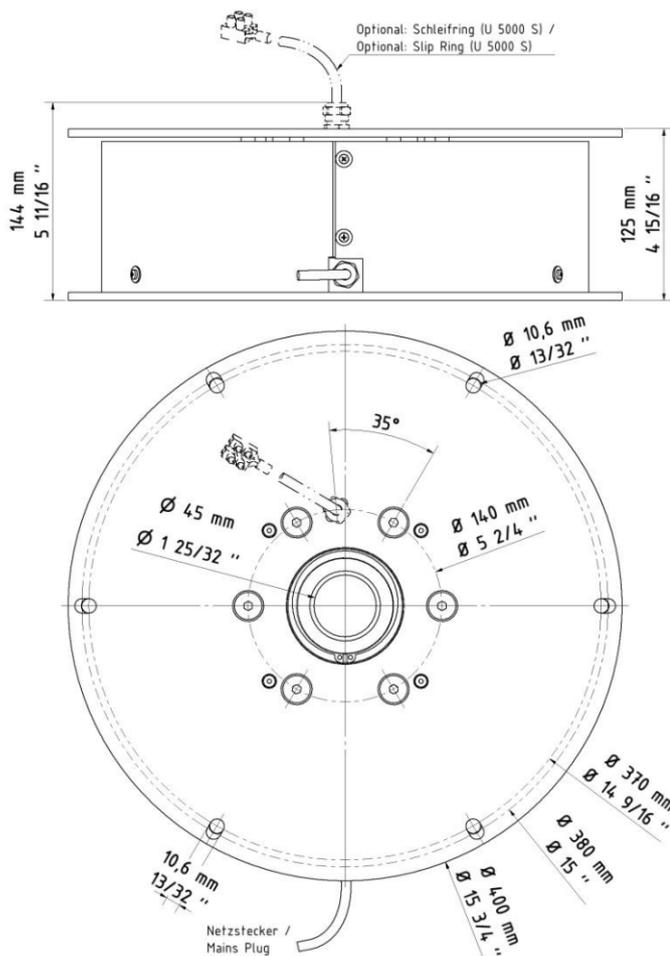
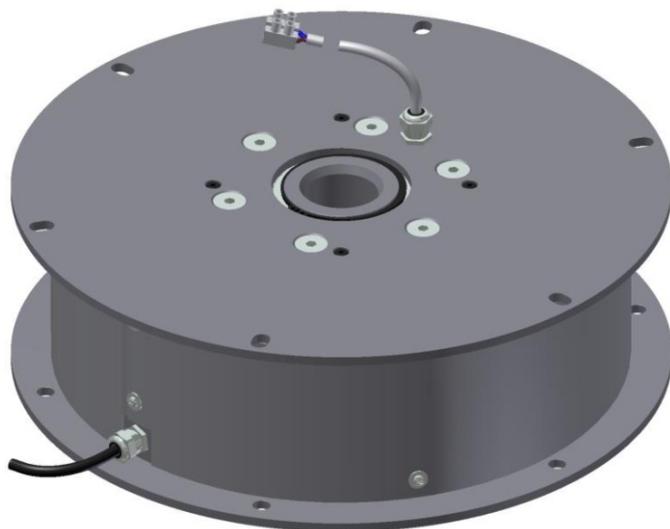
Drehbühne U 5000

für den Innen- und Außenbereich:

Die zulässige zentrische Belastung der U 5000 beträgt maximal 500 kg. Bedingt durch die durchgehende Hohlachse ist diese Drehbühne sehr universell einsetzbar. So zum Beispiel als Drehvitriin-Antrieb, für Drehobjekte der Innen- und Außenwerbung, Messeobjekte, Drehsäulen für die Städtewerbung, mit oder ohne Schleifring zur rotierenden Stromübertragung. Bei Außeneinsätzen ist auch die Windangriffsfläche zu ermitteln, die 1 m² nicht überschreiten sollte.

Eigenschaften:

- Verwindungssteif
- Durchgehende Hohlachse, Innen- \varnothing 45 mm
- Geräuscharm
- Für Innen- oder Außenbetrieb
- Schutzart IP x3
- Wartungsfrei
- Sicherheits-Rutschkupplung
- Drehbühne auch hängend oder an der Wand¹ einsetzbar
- Optional: Schleifringausführung für rotierende Stromübertragung (Standard: 4 A / max. 900 W)



Turntable U 5000

for indoor and outdoor use:

The model U 5000 allows a centric load of 500 kg (1100 lbs) maximum. Thanks to the traversing hollow shaft this turntable can be used universally, for example, for driving a rotating showcase, rotary objects for indoor and outdoor publicity, for exhibition objects, for columns as publicity purposes in the cities, either with or without slip ring for rotating current transmission. In case of outdoor applications the wind surface should not exceed 1m².

Features:

- torsion free
- hollow shaft, inside \varnothing 45 mm
- very silent
- suited for indoor or outdoor operation
- protection category IP x3
- maintenance-free
- safety clutch
- turntable also suitable for ceiling or wall¹ mounting
- optional: slip ring for rotating current transmission (standard 4 amp, (220-240 V = 900 W; 110 V = 440 W)



230 V
(115 V¹)



1 UpM



500 kg



900 W
(1.800 W)



150 kg
(500 kg)

Technische Daten:

U 5000 U 5000 S

- Max. zentrische Belastung: 500 kg
- Max. zentrische Hängelast ohne Sicherheitskonstruktion: 150 kg
- Max. zentrische Hängelast mit Sicherheitskonstruktion: 500 kg
- Gesamthöhe: 125 mm (ohne Schleifring)
- Nennspannung: 220-240 V, 50 Hz optional 115 V, 60 Hz
- Motor-Leistungsaufnahme: 14 W
- Standarddrehzahl: 1 UpM, rechtsdrehend
- Eigengewicht: 24 kg

Zusatzrüstung (auf Anfrage bzw. gegen Aufpreis):

- Taktschaltung
- Reversierbetrieb
- Drehrichtung: 1 UpM, linksdrehend
- Handumschaltung: L / Aus / R
- Schleifring für 2x 4 A oder 8 A
- Zweite Zuleitung um den Schleifring separat zu versorgen
- **Weitere Optionen auf Anfrage**
- **Sicherheitskonstruktion für 500 kg Hängelast (erfüllt DGUV Vorschrift V17 und 18)**

¹Technische Hinweise:

Beim vertikalen Einbau (z.B. Wandinstallation) ist eine ausgewuchtete Belastung erforderlich. Bitte nehmen Sie Kontakt mit dem Hersteller oder Verkäufer auf, um Ihre Anforderung zu prüfen. 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:

U 5000 U 5000 S

- max. centric load: 500 kg (1100 lbs)
- max. centric hanging load without safety construction: 150 kg (330 lbs)
- max. centric hanging load using safety construction: 500 kg (1100 lbs)
- total height: 125 mm (w/o slip ring)
- nominal voltage: 220 to 240 V, 50 Hz, optional 115 V, 60 Hz
- motor power consumption: 14 Watt
- rotation speed: 1 rpm, rotating clockwise
- dead weight: 24 kg

Additional Features (on demand / on surcharge):

- cycle operation
- reversible operation
- rotation direction: 1 rpm, counterclockwise
- manual switching: l (ccw) / off / r (cw)
- slip ring for 2x 4 A or 8 A
- Second power cord to use the slip ring separately
- **further options on request**
- **safety construction for 500 kg hanging load**

¹Technical Information:

For vertical installation (e.g. on the wall), a balanced load is required. Please contact manufacturer or reseller to check your specification. 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.

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).

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.

Outdoor Use:

Even outdoor units must be built 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.

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.

Mounting and Operating Instructions:

This device is a motor drive for operating in hanging position. The maximum load of the construction must not exceed the maximum load specified in the product data sheet.

Pay attention to the product and installation specific instructions included with the product.

Please consider that the area below the place of mounting should be closed during the time of mounting and should be free of objects or access of persons.

Prior to mounting make sure that the mounting surface fulfils the requirements for the application and for the total load as well as complies with all legal and any additional prerequisites, standards, regulations or laws. Due to security measures, the rotating motor must be mounted with a second individual support. The rotating load also needs to be secured against falling off through an additional suspended construction. The additional security construction must be designed and mounted in such way that in case of failure of the main hanging unit no part of the installation could fall off. No persons should stay below the motor drive during operation.

Installation:



Risk of death!

**The installation should be in compliance with the regulations of DGUV V17 (earlier BGV C1) and DIN VDE 0711-217
The installation must be carried out by authorized personnel only.**

Important!

Overhead jobs require a high level of experience. This includes (and not only) calculations of the load bearing capacity, choosing the proper mounting materials, regular safety inspections of the utilized materials and of the rotating object. Mounting of such installations must always be carried out by a professional. Improper constructions may cause injuries and / or may cause damage of properties. The place of mounting must be chosen in such way that the motor drive is mounted in an absolute horizontal position. Should the motor be hung from the ceiling or high supports, a traverse must be used. The motor drive should never be swinging in a room. The motor drive must be secured by screws through all its bore holes. Always use screws with corresponding strength and ensure that these are tightly anchored in the ceiling or cross beam. Small battery driven hanging installations, which work in an inaccessible area (e.g. in shop windows) may be mounted to the ceiling in a swinging way, provided that they are fixed with proper items. This refers to units like BMH 010 or BDH 030. These units do not have the possibility of being tightly mounted to the ceiling.