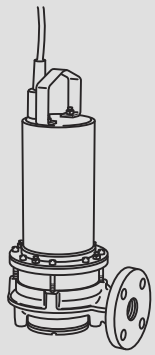


Wilo-Drain MTS 40

D Einbau- und Betriebsanleitung

GB Installation and operating instructions

F Notice de montage et de mise en service

NL Inbouw- en bedieningsvoorschriften

E Instrucciones de instalación y funcionamiento

I Istruzioni di montaggio, uso e manutenzione

S Monterings- och skötselinstruktioner

FIN Huolto- ja käyttöohje

DK Monterings- og driftsvejledning

H Beépítési és üzemeltetési utasítás

PL Instrukcja montażu i obsługi

CZ Návod k montáži a obsluze

GR Οδηγίες εγκατάστασης και λειτουργίας

TR Montaj ve Kullanma Kılavuzu

RUS Инструкция по монтажу и эксплуатации

BG Инструкция за монтаж и експлоатация

RO Instrukcja montazu i obslugi

2 053 825-Ed.03 / 2009-03-Wilo

Fig.1:

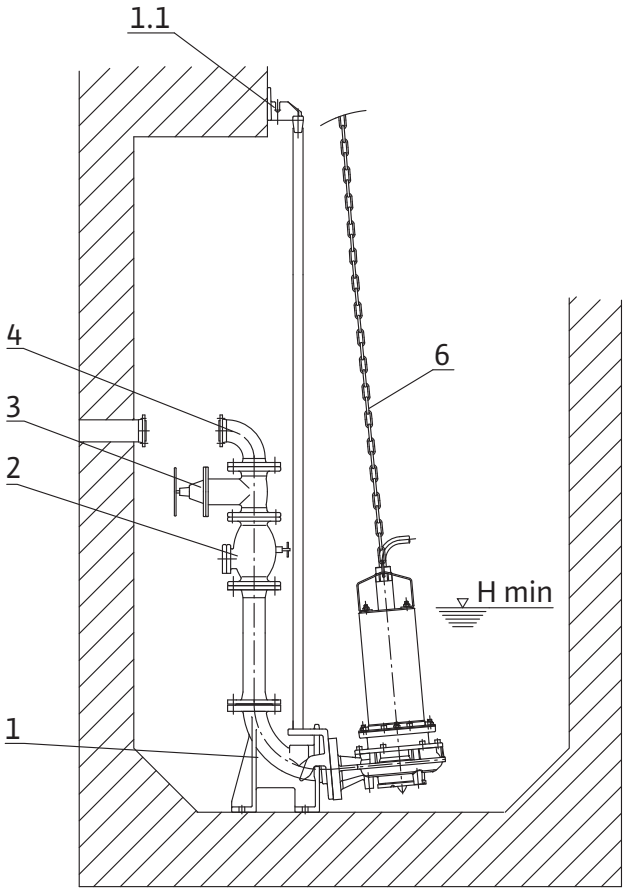


Fig.2: MTS 40/21...27, DN 32 (R1 ¼)

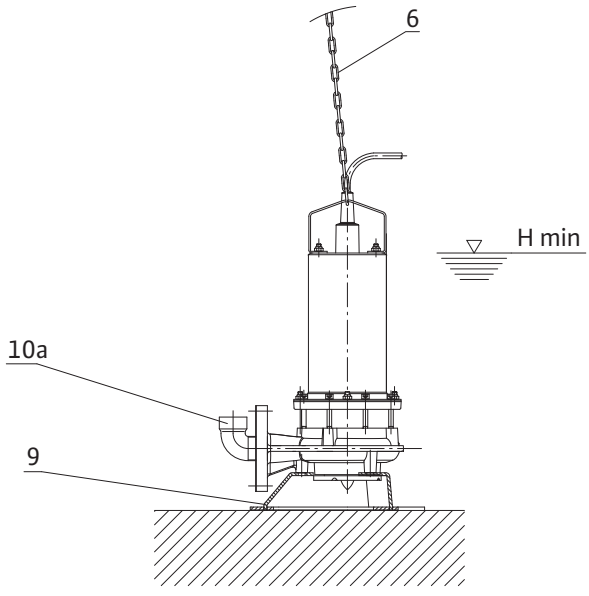
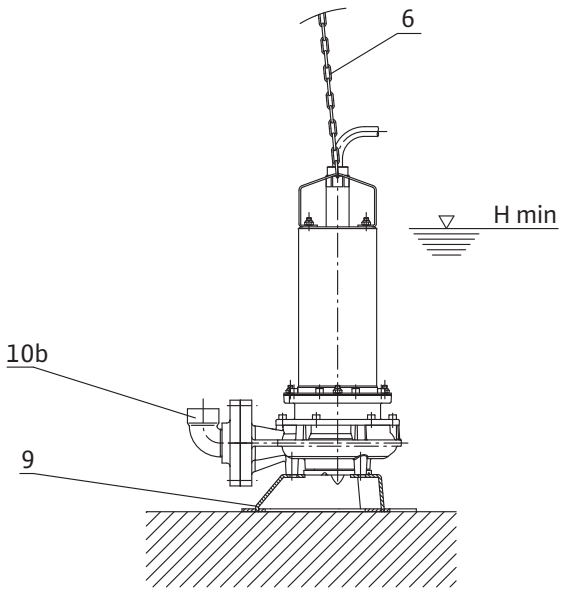


Fig.3: MTS 40/21...39, DN 40 (R1 ½)



1 General

1.1 About this document

These installation and operating instructions are an integral part of the product. They must be kept readily available at the place where the product is installed. Strict adherence to these instructions is a precondition for the proper use and correct operation of the product.
These installation and operating instructions conform to the relevant version of the product and the underlying safety standards valid at the time of going to press.

2 Safety

These instructions contain important information which must be followed when installing and operating the pump. It is therefore imperative that they be read by both the installer and the operator before the pump is installed or operated.
Both the general safety instructions in this section and the more specific safety points in the following sections should be observed.

2.1 Instruction symbols used in this operating manual

Symbols:

General danger symbol

Hazards from electrical causes

NOTE: ...

Signal words:

DANGER!
Imminently hazardous situation.
Will result in death or serious injury if not avoided.

WARNING!
Risk of (serious) injury. 'Warning' implies that failure to comply with the safety instructions is likely to result in (severe) personal injury.

CAUTION!
Risk of damage to the pump/installation. 'Caution' alerts to user to potential product damage due to non-compliance with the safety instructions

NOTE:
Useful information on the handling of the product. It alerts the user to potential difficulties

2.2 Personnel qualification

The personnel installing the pump must have the appropriate qualification for this work.

2.3 Risks incurred by failure to comply with the safety instructions

Failure to comply with the safety precautions could result in personal injury or damage to the pump or installation. Failure to comply with the safety precautions could also invalidate any claim for damages.
In particular, failure to comply with these safety instructions could give rise, for example, to the following risks:

- Failure of important pump or system functions,
- Failure of specified maintenance and repair methods
- Personal injury due to electrical, mechanical and bacteriological causes.
- Damage to property

2.4 Safety instructions for the operator

The relevant accident precaution regulations must be observed.
Potential dangers caused by electrical energy must be excluded. Local or general regulations [e.g. IEC, VDE, etc.] and directives from local energy supply companies are to be followed.

2.5 Safety instructions for inspection and assembly

The operator must ensure that all inspection and assembly work is carried out by authorised and qualified specialists who have carefully studied these instructions.
Work on a pump or installation should only be carried out once the latter has been brought to a standstill.

2.6 Unauthorised modification and manufacture of spare parts

Changes to the pump/machinery may only be made in agreement with the manufacturer. The use of original spare parts and accessories authorised by the manufacturer will ensure safety. The use of any other parts may invalidate claims invoking the liability of the manufacturer for any consequences.

2.7 Improper use

The operating safety of the pump or installation can only be guaranteed if it is used in accordance with paragraph 4 of the operating instructions. All values must neither exceed nor fall below the limit values given in the catalogue or data sheet.

3 Transport and interim storage

Inspect the pump/system for transport damage immediately upon arrival. Any transport damage found must be reported to the carrier within the prescribed periods.

CAUTION! Risk of damage to the pump!
Risk of damage due to improper handling during transport or storage.

- **The pump may only be hung from or carried using the handle provided for transport. Never suspend or carry using the cable!**
- **The pump should be protected against moisture, frost and physical damage during transport and interim storage.**

4 Applications

WARNING! Health hazard!
The materials are not designed for drinking water supply.
The pump must not be used for pumping drinking water.

The submersible motor-driven pump is suitable for transporting sewage from shafts and tanks. It is used primarily for pressure drainage of sewage water for domestic purposes (according to EN 12056 in compliance with the country-specific prefaces and regulations).

CAUTION! Risk of damage to the pump!
The pump is not suitable for use with flow media containing solids such as sand, stones or metals.

5 Product data

5.1 Type code

Example: MTS 40/27-1-230-50-2	
MT	MT = Series MT (Macerator Technology)
S	S = Stainless Steel Motor
40	Nominal width discharge side [mm]
/27	Maximum delivery head [m] where Q=0
-1-230	single-phase motor 1~230 V
-50	Mains frequency 50 Hz
-2	2 poles

5.2 Technical data

Mains voltage	1~230 V, ±10 % (EM = single-phase motor) 3~400 V, ±10 % (DM = three-phase motor)
Frequency	50 Hz
Protection	IP 68
Insulation class	F
Speed	Max. 2900 1/min
Power input P1 (EM/DM)	see rating plate
Motor power rating P2 (EM/DM)	see rating plate
Nominal current	see rating plate
Winding protection contact (break contact) Max. contact load	U_{max}=250 V AC, I_{max}= 1 A U_{max}= 30 V DC, I_{max}=30 mA DC
Permissible medium temp. Min / max	+3°C to 40°C
Max. flow rate	see rating plate
Max. delivery head	see rating plate
Max. immersion depth	10 m
Operating mode S3 (optimum), motor immersed	Intermittent service S3, 25% (2.5 min. mode, 7.5 min. break).
Operating mode S1 (optional), motor immersed	MTS 40/... S1: 200 hrs/year
Explosion protection	EEx d IIB T4
Oil-filled seal chamber	Marcol 82 (medical white oil)
Oil quantity	MTS 40/... 150 ml

5.3 Scope of supply

- Pump with 10 m connecting cable:
  - DM version with free cable end (H07 RN-F 6x1 mm^2)
  - EM version ready-wired (H07 RN-F 4x1.5 mm^2) with connector box incl. start-up/operating capacitor
- Installation and Operating Instructions

5.4 Accessories

Accessories must be ordered separately.

- Switchgear for 1 or 2-pump operation
- external monitoring devices / tripping units
- level controller (level sensor / float switch
- Accessories for transportable wet-well installation
- Accessories for stationary wet-well installation

see catalogue for detailed list.

6 Description and operation

6.1 Pump description

In order to ensure that the pump remains sufficiently cool in continuous mode, the submersible motor-driven pump must always be flooded with the flow medium. The pump is driven by an encased three-phase or single-phase motor which is corrosion-resistant and impermeable to pressurised water.

The pump housing and single-channel impeller are made from grey cast iron. The flow medium is sucked in on the underside of the pump through the openings on the cutting device and is expelled through the discharge side into the pipe.

The cutting device cuts up all dissectible constituents so that they can be transported through the single-channel impeller and the DN 40 pressure pipe. The blades, cutters and counter-cutters are made of hard metal. Constituents which cannot be cut, such as stones or pieces of metal, damage the cutting device and should therefore not be allowed into the pump.

The motor chamber is sealed from the pump chamber using a mechanical seal on the fluid side and a radial shaft seal on the motor side. To ensure that the mechanical seal is always lubricated and cooled, even when running dry, the mechanical seal chamber is filled with oil (see also 5.2).

CAUTION! Risk of leak!
If the mechanical seal is damaged, small quantities of oil may leak into the flow medium.

In addition to being connected by a foot bend DN 40, the MTS 40 pumps can also be connected to the pressure pipe using an elbow pipe (inner/outer thread):

- Pressure pipe DN32 (R1 ¼):
  MTS40/21...27 using an 90° elbow pipe (inner/outer thread) R1 ¼.
- Pressure pipe DN40 (R1 ½):
  MTS40/21...39 using an 90° elbow pipe (inner/outer thread) R1 ½ and threaded flange with neck as per DIN 2566 with inner thread R1 ½.

The motors are equipped with a winding protection contact (WSK) that automatically switches off the motor if there is a threat of it overheating and switches it back on again once it has cooled down. On 3~motors, the winding protection contact must be connected to the switchgear and analysed there.

7 Installation and electrical connection

Installation and electrical connection should be carried out in accordance with local regulations and only by qualified personnel!

WARNING! Risk of personal injury!
The relevant accident precaution regulations must be observed.

WARNING! Risk of electric shock!
Potential dangers caused by electrical energy must be excluded.
Local or general regulations [e.g. IEC, VDE, etc.] and directives from local energy supply companies are to be followed.

7.1 Installation

The pump is designed for the following installation types: stationary and transportable wet-well installation.

CAUTION! Risk of damage to the pump!
The pump must only be suspended by a chain from the handle provided. Never suspend or carry using the cable!

- The pump must be installed in a frost-free place.
- The shaft must be free from coarse solids (e.g. building rubble) prior to installation and commissioning.
- The pipes must be assembled stress-free. The pipes must be attached in such a way that the pump does not bear the weight of the pipes.
- In order to protect against possible reflux from the public sewage system, the pressure pipeline should be formed as a "pipe loop". It must be placed over the locally set reflux level (usually street level).
- When assembling the pump for stationary use, a non-return valve and a shut-off valve with full flow cross-section should be built into the pressure piping. In the case of double pumps these fittings should be installed for each pump.

NOTE:
Optimally, the valves should be installed outside of the pump, in a separate shaft (valves shaft). Where this is not feasible, the valves should not be connected directly to the discharge side or the pipe bend. A device for venting the pump should be provided, otherwise the insulating air cushion may not open the non-return valve.

- "Original Wilo accessories" are recommended to ensure the fault-free operation of the pump / installation.

7.1.1 Stationary wet-well installation

- Stationary wet-well installation (Fig. 1). Legend to Fig. 1:
  1: **Foot bend** with pump mounting, profiled gasket, assembly and base fixing screws and pipe tensioner (Pos. 1.1) for two pipes. The guide pipes (R¾“ = Ø26.9 to DIN 2440) are to be obtained by the customer.
  2: **Backflow preventer** with unrestricted passage, cleaning opening, ventilating device and assembly accessories
  3: **Shut-off valve** with fitting accessories
  4: **Pipe bend** with fitting accessories
  6: **Chain**
  See catalogue for details.
- The fixed pipe connections on the pressure side are to be provided by the customer.
- Fit and align the foot bend on the base of the shaft with the base fastening accessories.
- Connect the pressure piping to the foot bend with the required fittings (accessories).
- Attach the pump mounting and profiled gasket to the pump pressure pipe connection.
- Attach the R¾“ guide pipe (to be provided by the customer) to the foot bend.
- Hang the pump from the guide pipe and carefully lower it on the chain. The pump will lock into the right operating position automatically and seal the delivery connection on the foot bend by its own weight.
- Fasten the chain to the guide pipe mounting with a shackle (provided by the customer).

7.1.2 Transportable wet-well installation

CAUTION! Risk of damage to the pump!
The pump should be prevented from falling over or moving away from the spot where it has been installed.

- Transportable wet-well installation MTS 40/21...27 (Fig. 2).
  6: **Chain**
  9: **Stand** with fixing accessories
  10a: **Pipe bend** R1 ¼ (inner/outer thread) with fitting accessories
  See catalogue for details.
- Transportable wet-well installation MTS 40/21...39 (Fig. 3).
  6: **Chain**
  9: **Stand** with fixing accessories
  10b: **Pipe bend** R1 ½ (inner/outer thread) with flange and fitting accessories.
  See catalogue for details.

7.2 Electrical connection

WARNING! Risk of electric shock!
Electrical connection must be carried out by an electrical installer authorised by the local power supply company in accordance with the applicable local regulations (e.g. VDE regulations).

- Check that the mains current and voltage comply with the data on the rating plate.
- Pump must be earthed in compliance with regulations.
- Use a residual current operating device ≤ 30 mA,
- Use a disconnecting device to disconnect from the mains with a contact gap width of min. 3 mm,
- Fuse protection: 16 A, inert or circuit breaker with C-characteristic,
- The switch box for the pump(s) must be provided as an accessory or by the customer, and must be equipped with a protective motor switch which is to be set to the nominal motor current as indicated on the rating plate plus approx. twenty percent.
- Generally speaking, all switch boxes should be installed outside the explosive area.
- Connecting cables should be connected to the leads as follows:

Pump with three-phase current motor (3~400V):

For the three-phase current connection (DM), the leads of the free cable end are to be assigned as follows:

MTS 40/...: 6-lead connection cable 6x1.0 mm^2

Lead no.	Binder
1	U
2	V
3	W
green/yellow	PE
4	T1 (WSK)
5	T2 (WSK)

The free cable end is to be wired up in the switch box (see switch box Installation and Operating Instructions).

Pump with single-phase current motor (1~230V):

- Single-phase current connection (EM): The motor is already factory-wired to the terminal box. The mains connection is made via terminals L, N, PE.
- In acc. with DIN EN / IEC 61000-3-11 the pump is to be provided with a rating of 1.5 kW for operation in a power supply with a system impedance Z_{max} on a line connection of max. 0.125 (0.086) Ohm at a maximum number of 6 (20) switching operations.
  If the supply impedance and the number of switching operations per hour exceed the above-mentioned values, the pump can lead to transient voltage reductions and interfering voltage fluctuations, or “flicker“, because of the unfavourable supply conditions.
  Measures may therefore be required before the pump can be operated properly on this connection; relevant information is to be obtained from the local electricity company (EVU) and the pump manufacturer.

8 Starting-up

WARNING! Risk of injury!
Danger – rotating cutter! First switch off the pump!

CAUTION! Risk of damage to the pump!
Prior to starting up the pump, the shaft and the intake pipes should be freed from solid matter such as rubbish.

8.1 Direction of rotation (only for three-phase motors)

The correct direction of rotation must be tested **before** the pump is submerged. This is indicated by the arrow showing the direction of rotation on the pump housing.

- Hang the pump in the hoist.
- Briefly switch on the pump. The pump will move in the opposite direction to the motor (arrow on housing).
- If the direction of rotation is incorrect, 2 phases of the mains connection must be exchanged.

8.2 Adjusting the control level

Adjusting the control level: see instructions for assembly and installation of the control level.

CAUTION! Risk of damage to the pump!
Dry running destroys the mechanical seal.
The pump must not be allowed to run dry and to suck any air.

The "OFF" position (H_{min}) of the level control depends on the pump type and/or the operating mode (Fig. 1, 2, 3).

Type of operation: S1, S3

Pump	H_{min} [mm]
MTS 40/21...27	467
MTS 40/31...39	500

The "ON" position should be set to the desired maximum level but should nevertheless remain below the intake pipe in the shaft.

8.3 Operating conditions in potentially explosive locations

See additional instructions for operation for in potentially explosive locations.

9 Maintenance

Maintenance and repair work should only be carried out by qualified personnel!

DANGER! Risk of asphyxiation!
Shafts for wastewater submersible motor-driven pumps may contain wastewater with toxic and/or harmful substances.

- **For reasons of safety, maintenance work should only be carried out in the presence of another person.**
- **The pump shaft must be properly ventilated before any work takes place.**

WARNING! Risk of infection!
In order to avoid any risk of infection, maintenance work should only be carried out using appropriate protective clothing (protective gloves).

WARNING! Risk of electric shock!
Potential dangers caused by electrical energy must be excluded.

- **The pump must be switched off for all repair work and secured against unauthorised operation.**
- **In principle, damage to the connecting cable should only be repaired by a qualified electrician.**

Checking and cleaning the pump:

- The lifetime of the pump depends on the operating conditions and consequently varies greatly. The pump should be inspected at regular intervals. In the case of increasing operating noise, vibrations in the pipework or a drop in conveying capacity, the impeller, with built-in cutter, must be checked for obstructions caused by solid matter and wear.

Cleaning:

- Remove coarse impurities from the cutter's inlet channels.
- Next, rinse out the cutter's inlet channels. Rinse the pump housing via the discharge side until no more impurities emerge from the cutter's inlet channels.
- Check the cutter's blade clearance: Visually check the cutting edges for damage such as scoring, broken-off parts and the like. Check the blade clearance using a 0.1mm feeler gauge. If the blade is damaged or the clearance has increased (>0.1mm) due to wear, please contact a specialist dealer or the nearest Wilo customer service centre or representative.
- Restart the pump.

Protection against frost:

- If it cannot be ensured that the flow medium in the pump will not freeze, the pump should be protected against frost.
  We would recommend that the pump be maintained and checked thoroughly by Wilo customer services once every six months.
  Maintenance shall be carried out in accordance with EN12056 Part 4.

10 Problems, causes and remedies

Problems	Causes	Remedy
Pump does not run	Interruption of the current, short circuit, Insulation fault in the motor winding	Check power supply, Call on expert to check cable and motor
	Safety fuse, capacitor defect	Replace fuses, capacitor
	Cable break	Check cable resistance. If necessary, replace cable. Only use original Wilo special cable!
	Level switch does not switch	Check level switch
Protective motor switch engaged	Protective motor switch not set correctly	Switch to nominal current
	Cutting device or impeller already blocked by foreign bodies	• Switch off the pump voltage and secure against re-operation. • Close the shut-off valve at the back of the pump. • Remove pump from the sump • Remove foreign bodies from the pump
Pump does not pump	Air in spiral housing	Ventilate backflow preventer
	Level switch not set correctly	Ensure that the suction impeller is flooded
Pump transports too little,	Wrong direction of rotation	interchange two phases of the mains connection
noisy operation	Impeller worn down	Change impeller
	Impeller, cutting device or pump housing covered in sludge	Clean pump, see sixth line

If no solution can be found, please contact your plumbing and heating specialist or your nearest Wilo Customer Service or representative.

11 Spare parts

Spare parts are ordered via a local specialist dealer and/or Wilo customer service.
In order to avoid queries and incorrect orders, make sure to mention all data indicated on the rating plate when placing your order.

Subject to technical alterations!

D EG – Konformitätserklärung
GB EC – Declaration of conformity
F Déclaration de conformité CE

Hiermit erklären wir, dass die Bauarten der Baureihe : **MTS 40/...**
Herewith, we declare that this product: **MTS 40 E ...**
Par le présent, nous déclarons que cet agrégat :

in der gelieferten Ausführung folgenden einschlägigen Bestimmungen entspricht:
in its delivered state comply with the following relevant provisions:
est conforme aux dispositions suivants dont il relève:

EG-Maschinenrichtlinie **EC-Machinery directive** **Directives CE relatives aux machines**	**98/37/EG**
Elektromagnetische Verträglichkeit - Richtlinie **Electromagnetic compatibility - directive** **Compatibilité électromagnétique- directive**	**2004/108/EG**
Niederspannungsrichtlinie **Low voltage directive** **Directive basse-tension**	**2006/95/EG**
Bauproduktenrichtlinie **Construction product directive** **Directive de produit de construction**	**89/106/EWG** i.d.F/ as amended/ avec les amendements suivants : 93/68/EWG

und entsprechender nationaler Gesetzgebung.
and with the relevant national legislation.
et aux législations nationales les transposant.

Angewendete harmonisierte Normen, insbesondere:
Applied harmonized standards, in particular:
Normes harmonisées, notamment:

EN 809	**EN 60335-2-41**
EN 12050-1	**EN 61000-3-2**
EN 55014-1	**EN 61000-3-3**
EN 60034-1	**DIN EN 12050-1**
EN 60204-1	

Bei einer mit uns nicht abgestimmten technischen Änderung der oben genannten Bauarten, verliert diese Erklärung ihre Gültigkeit.
If the above mentioned series are technically modified without our approval, this declaration shall no longer be applicable.
Si les gammes mentionnées ci-dessus sont modifiées sans notre approbation, cette déclaration perdra sa validité.

Dortmund, 03.03.2009

i. V.
Erwin Prieß
Quality Manager

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44263 Dortmund
Germany

Document: 2059854.2

NL **EG-verklaring van overeenstemming**

Hiermede verklaren wij dat dit aggregaat in de geleverde uitvoering voldoet aan de volgende bepalingen:

EG-richtlijnen betreffende machines 98/37/EG

Elektromagnetische compatibiliteit 2004/108/EG

EG-laagspanningsrichtlijn 2006/95/EG

Bouwproductenrichtlijn 89/106/EEG als vervolg op 93/86/EEG

Gebruikte geharmoniseerde normen, in het bijzonder: **1)**

I **Dichiarazione di conformità CE**

Con la presente si dichiara che i presenti prodotti sono conformi alle seguenti disposizioni e direttive rilevanti:

Direttiva macchine 98/37/CE

Compatibilità elettromagnetica 2004/108/EG

Direttiva bassa tensione 2006/95/EG

Direttiva linee guida costruzione dei prodotti 89/106/CEE e seguenti modifiche 93/68/CEE

Norme armonizzate applicate, in particolare: **1)**

E **Declaración de conformidad CE**

Por la presente declaramos la conformidad del producto en su estado de suministro con las disposiciones pertinentes siguientes:

Directiva sobre máquinas 98/37/CE

Directiva sobre compatibilidad electromagnética 2004/108/EG

Directiva sobre equipos de baja tensión 2006/95/EG

Directiva sobre productos de construcción 89/106/CEE modificada por 93/68/CEE

Normas armonizadas adoptadas, especialmente: **1)**

P **Declaração de Conformidade CE**

Pela presente, declaramos que esta unidade no seu estado original, está conforme os seguintes requisitos:

Directivas CEE relativas a máquinas 98/37/CE

Compatibilidade electromagnética 2004/108/EG

Directiva de baixa voltagem 2006/95/EG

Directiva sobre produtos de construção 89/106/CEE com os aditamentos seguintes 93/68/EWG

Normas harmonizadas aplicadas, especialmente: **1)**

S **CE- försäkran**

Härmed förklarar vi att denna maskin i levererat utförande motsvarar följande tillämpliga bestämmelser:

EG–Maskindirektiv 98/37/EG

EG–Elektromagnetisk kompatibilitet – riktlinje 2004/108/EG

EG–Lågspänningsdirektiv 2006/95/EG

EG-Byggmaterialdirektiv 89/106/EWG med följande ändringar 93/68/EWG

Tillämpade harmoniserade normer, i synnerhet: **1)**

N **EU-Overensstemmelseserklæring**

Vi erklærer hermed at denne enheten i utførelse som levert er i overensstemmelse med følgende relevante bestemmelser:

EG–Maskindirektiv 98/37/EG

EG–EMV–Elektromagnetisk kompatibilitet 2004/108/EG

EG–Lavspenningsdirektiv 2006/95/EG

Byggevaredirektiv 89/106/EWG med senere tilføyelser 93/68/EWG

Anvendte harmoniserte standarder, særlig: **1)**

FIN **CE-standardinmukaisuusseloste**

Ilmoitamme täten, että tämä laite vastaa seuraavia asiaankuuluvia määräyksiä:

EU–konedirektiivit: 98/37/EG

Sähkömagneettinen soveltuvuus 2004/108/EG

Matalajännite direktiivit: 2006/95/EG

EU materiaalidirektiivi 89/106/EWG seuraavin täsmennyksin 93/68/EWG

Käytetyt yhteensovitetut standardit, erityisesti: **1)**

DK **EF-overensstemmelseserklæring**

Vi erklærer hermed, at denne enhed ved levering overholder følgende relevante bestemmelser:

EU–maskindirektiver 98/37/EG

Elektromagnetisk kompatibilitet: 2004/108/EG

Lavvolts-direktiv 2006/95/EG

Produktkonstruktionsdirektiv 98/106/EWG følgende 93/68/EWG

Anvendte harmoniserede standarder, særligt: **1)**

H **EK. Azonossági nyilatkozat**

Ezennel kijelentjük,hogy az berendezés az alábbiaknak megfelel:

EK Irányelvek gépekhez: 98/37/EG

Elektromágneses zavarás/türés: 2004/108/EG

Kisfeszültségü berendezések irány-Elve: 2006/95/EG

Építési termékek irányelv 98/106/EWG és az azt kiváltó 93/68/EWG

Felhasznált harmonizált szabványok, különösen: **1)**

CZ **Prohlášení o shodě EU**

Prohlašujeme tímto, že tento agregát v dodaném provedení odpovídá následujícím příslušným ustanovením:

Směrnicím EU–strojní zařízení 98/37/EG

Směrnicím EU–EMV 2004/108/EG

Směrnicím EU–nízké napětí 2006/95/EG

Směrnicím stavebních produktů 89/106/EWG ve sledu 93/68/EWG

Použité harmonizační normy, zejména: **1)**

PL **Deklaracja Zgodności CE**

Niniejszym deklarujemy z pełną odpowiedzialnoscią że dostarczony wyrób jest zgdony z następującymi dokumentami:

EC–dyrektywa dla przemysłu maszynowego 98/37/EG

Odpowiedniość elektromagnetyczna 2004/108/EG

Normie niskich napięć 2006/95/EG

Wyroby budowlane 89/106/EWG ze zmianą 93/68/EWG

Wyroby są zgodne ze szczegółowymi normami zharmonizowanymi: **1)**

RUS **Деклация о соответствии Европейским нормам**

Настоящим документом заявляем, что данный агрегат в его объеме поставки соответствует следующим нормативным документам:

Директивы ЕС в отношении машин 98/37/EG

Электромагнитная устойчивость 2004/108/EG

Директивы по низковольтному напряжению 2006/95/EG

Директива о строительных изделиях 89/106/EWG с поправками 93/68/EWG

Используемые согласованные стандарты и нормы, в частности : **1)**

GR **Δήλωση προσαρμογής της Ε.Ε.**

Δηλώνουμε ότι το προϊόν αυτό σ' αυτή την κατάσταση παράδοσης ικανοποιεί τις ακόλουθες διατάξεις :

Οδηγίες ΕG για μηχανήματα 98/37/EG

Ηλεκτρομαγνητική συμβατότητα EG-2004/108/EG

Οδηγία χαμηλής τάσης EG–2006/95/EG

Οδηγία κατασκευής 89/106/EWG όπως τροποποιήθηκε 93/68/EWG

Εναρμονισμένα χρησιμοποιούμενα πρότυπα, ιδιαίτερα: **1)**

TR **CE Uygunluk Teyid Belgesi**

Bu cihazın teslim edildiği şekliyle aşağıdaki standartlara uygun olduğunu teyid ederiz:

AB-Makina Standartları 98/37/EG

Elektromanyetik Uyumluluk 2004/108/EG

Alçak gerilim direktifi 2006/95/EG

Ürün imalat direktifi 89/106/EWG ve takip eden, 93/68/EWG

Kısmen kullanılan standartlar: **1)**

1) **EN 809**
EN 12050-1
EN 55014-1
EN 60034-1
EN 60204-1
EN 60335-2-41
EN 61000-3-2
EN 61000-3-3
DIN EN 12050-1

i. V.

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