Operating manual

SPINVISTA NEO

SPINVISTA EVO

HEMA

Operating manual

Status of the data: 01.11.2023, Version 2.1
Language of the original version: German

Contact

For further information please contact:

HEMA Maschinen- und Apparateschutz GmbH
Am Klinggraben 2
63500 Seligenstadt
Phone: +49(0)6182/773-0
Fax: +49(0)6182/773-35
E-mail: info@hema-group.com
Web: www.hema-group.com

Art.-Nr. 80-00-8050/EN 08112023

TABLE OF CONTENTS

1 About these operating instructions

ATTENTION	
	**All persons entrusted with the installation, assembly, commissioning, operation, maintenance, repair and cleaning must have read and understood these operating instructions before starting work on the machine.**

These operating instructions are intended for trouble-free use of SPINVISTA NEO and SPINVISTA EVO (hereinafter referred to as SPINVISTA). Observance is a prerequisite for the fulfillment of any warranty claims.

Before using and/or installing the SPINVISTA, be sure to read these operating instructions through to the end and follow the contents:

- SPINVISTA may only be used in accordance with the conditions of use described below. Any use that deviates from this is the sole responsibility of the user.
- Be sure to observe all information, values and tolerances (e.g. power supply) specified in these instructions. Make sure you have properly conditioned compressed air.
- Consider the prevailing environmental conditions in which SPINVISTA is intended to be used.
- Carefully store these operating instructions at the place of use of the SPINVISTA.
- Observe the regulations of the professional association, the technical inspection association or corresponding national, international and European regulations.
- Remove all transport measures such as paper, foils, etc. before initial assembly. The legally prescribed disposal of the individual materials (in recycling collection containers) must be observed
- Installation and commissioning must only be carried out by qualified specialist personnel in accordance with these operating instructions.

1.1 Validity

These operating instructions describe the machine built by HEMA Maschinen- und Apparateschutz GmbH in terms of the regulations:

- 2006/42/EC Machinery Directive

These operating instructions are part of the delivered product and must be available on the machine in full and legible at all times. The operating instructions must be handed over with every change of location. The operator of the machine is responsible for this.

If the operating instructions are damaged or lost, the operator of the machine must request a replacement from the machine manufacturer.

If partial documents are taken from the operating instructions, the operator is responsible for labeling them so that the partial documents taken can be assigned later.

1.2 Liability and Warranty

Liability and warranty are based on the contractually agreed conditions. When procuring spare parts and wearing parts, original parts from HEMA Maschinen- und Apparateschutz GmbH or the parts specified in the parts lists from the named suppliers must be used. The component may not be modified in terms of design or safety without the consent of HEMA Maschinen- und Apparateschutz GmbH.

These operating instructions and the information they contain have been carefully compiled. However, HEMA Maschinen- und Apparateschutz GmbH assumes no liability for printing or other errors or damage resulting therefrom. Reprints, including excerpts, are only permitted with the approval of HEMA Maschinen- und Apparateschutz GmbH.

The manufacturer is not liable for damage caused by improper installation and operation of the device.

The instructions are for the safe use of the SPINVISTA spin windows. They are not a substitute for the application and observance of additional, site-specific safety and hygiene regulations.

The intended use of the SPINVISTA pspin window requires that it is only used within the scope of the options specified in the technical specification. Other uses exclude all further services. The warranty is valid for 12 months after delivery.

The type designation and serial number on the back are used for clear identification and traceability of the supplied SPINVISTA. It is unique for each unit and absolutely necessary for traceability. Therefore, never destroy the nameplate, it must remain legible at all times. All warranty claims expire if the type plate is removed or made unrecognizable.

2 Safety

This chapter describes the safety regulations that must be observed for safe and risk-free use. It indicates sources of danger and necessary safety measures.

2.1 General description Intended use

SPINVISTA are rotating windows with an electric drive and are used to gain insight into the manufacturing process during machining using cooling lubricants.

SPINVISTA are used to clean a field of view of machine windows by centrifugal force. Cooling lubricant, which is mostly used in machine tools, splashes onto the machine's viewing window during machining. The cooling lubricant and the added chips obstruct the view into the interior of the machine tools during the machining process.

Possible uses can be:

- SPINVISTA is used to clean a field of view of machine windows by centrifugal force.
- SPINVISTA was developed for use within machine tools.
- Glue the pivot window mounting frame to glass or new polycarbonate panes only.

Only use the SPINVISTA rotating window, hereinafter referred to as the machine, as intended.

Intended use also includes compliance with the operating, maintenance and repair conditions prescribed by the manufacturer.

Any use beyond this is considered improper. The manufacturer is not liable for any damage resulting from this; the operator bears the risk for this.

2.2 MODEL VARIANTS

SPINVISTA is available in two different versions. The main difference between the two models is their diameter.

- SPINVISTA NEO has a diameter of 290 mm, SPINVISTA EVO a diameter of 253 mm.
- The installation height of both variants is approx. 32mm for the adhesive version
- Both versions are available with screw and adhesive attachment.

2.3 FORESEEABLE MISUSE

Examples of foreseeable misuse:

- the behavior of the staff as a result of lack of concentration or carelessness
- the knee-jerk behavior of the staff in the event of a malfunction or failure of the machine
- the behavior of the staff under the pressure, the machine under all circumstances to keep in operation
- Choosing the »path of least resistance«, such as bypassing security measures
- to operate the machine in an explosive atmosphere
- non-observance of the instructions, improper use and use by insufficiently qualified personnel

Any other or additional use, e.g. B. for higher/lower performance, other equipment, for non-agreed operating conditions or structural changes is considered improper.

2.4 OBLIGATION OF THE OPERATOR

- The operator is obliged to operate the machine only when it is in perfect condition. Machines that are not in perfect condition can lead to personal injury and damage to the machine.
- Danger points that arise between the machine and the customer's equipment must be secured by the operator.
- When working on the machine, the operator must ensure adequate lighting / protective clothing.

2.4.1 SAFETY DEVICES

Protective devices, locks and couplings on the machine must be checked at regular intervals by a specialist to ensure that they are in a safe condition.

2.4.2 Determine and instruct responsible persons

- Use only safety-trained personnel.
- Clearly define the responsibilities of the personnel for operation, setup, maintenance and repairs.
- Regularly check that the safety and danger-conscious work of the staff is carried out in compliance with the operating instructions.

2.4.3 Information Obligation

- The operator of the machine must make these operating instructions accessible to all persons who work with the machine at all times
- All persons must have read and understood the operating instructions before using the »machine«
- The machine personnel must confirm that they have read the operating instructions.

2.5 Target Group Description

The contents of these operating instructions are intended for different target groups. The level of knowledge that the respective target group must have is defined below. All target groups must have read these operating instructions and understood the content.

Operators must:

- have reached the age of 18.
- be instructed in handling the machine.
- know the country-specific accident prevention regulations.

Maintenance personnel must:

- have reached the age of 18.
- know the maintenance points on the machine
- have appropriate professional training (e.g. electrician).
- know the country-specific environmental protection regulations for the disposal of lubricants and cleaning agents.

Service personnel must:

- have reached the age of 18.
- have a sound education and professional training.
- be trained by HEMA Maschinen- und Apparateschutz GmbH in the service work on the machine.
- be trained in the rules of conduct in the event of a fault.

2.6 STRUCTURE OF SAFETY INSTRUCTIONS

The safety instructions in these operating instructions are structured as follows:

SIGNALWORT: DANGER	
	Nature and source of the hazard Possible consequences of ignoring the danger ➡ Measures to avert danger

2.6.1 PRESENTATION OF SAFETY INSTRUCTIONS

In these operating instructions, warnings are identified by a colored signal word field. The table below shows the assignment of the signal words to the possible hazards.

SIGNAL WORD/ DEPICTION	DEFINITION	CONSEQUENCES
DANGER	Imminent danger to life and limb	Serious bodily injury or death
WARNING	Very dangerous situation	Possibly severe personal injury or death
CAUTION	Dangerous situation	Possible minor to moderate personal injury or property damage
ACHTUNG	Danger that can result in damage to property	Possible damage to the machine and/or its surroundings

2.6.2 Safety Signs

The following safety signs are used in the operating instructions and on the machine to indicate hazards.
These instructions must be observed. If there is a risk, proceed carefully or take suitable protective measures.

2.7 Piktograms

The following pictograms can be used in the operating instructions and on the »machine« to draw attention to possible hazards.
These instructions must be observed. If there is a risk, particular care must be taken or suitable protective measures must be taken.

2.7.1 Warning Signs

Warning signs indicate special hazards.

PIKTOGRAM	MEANING	PIKTOGRAM	MEANING
	Danger area in general		Hand injuries
	Hot surfaces		Electrical voltage
	Danger of slipping and tripping		Running machine, counter-rotating rollers, tape feed

2.7.2 MANDATORY SIGNS

Mandatory signs call for personal protective equipment to be worn. The operator must provide the personal protective equipment.

Additional requirements for the use of personal protective equipment, e.g. due to consumables, are the responsibility of the operator.

PIKTOGRAM	MEANING	PIKTOGRAM	MEANING
	General mandatory sign		Follow instructions
	Pay attention to hand protection		Pay attention to foot protection

2.8 RESIDUAL RISKS

The SPINVISTA spin windows are built according to the current state of the art and the recognized safety regulations.

The SPINVISTA spin windows are only safe to operate if they are used as intended by trained personnel.

Only use the SPINVISTA turn windows in a technically perfect condition with awareness of safety and dangers! Malfunctions and defects (e.g. missing safety devices, etc.) must be rectified immediately.

The SPINVISTA rotating windows must be shut down until they can be used as intended again.

Improper use can result in hazards for the user or third parties and damage to the machine and other property:

- SPINVISTA spin windows rotate at approx. 2,300 rpm during operation. In the event of defects, rotating parts can therefore be ejected with high energy. Use is therefore only permitted in the closed work area of machine tools..
- Due to the large number of possible cooling lubricants, it is conceivable that the seal of the adhesive connection and the adhesive connection could come loose. It is therefore necessary to check in each individual case whether the sealant used is compatible with the cooling lubricant used.

- After switching off the operating voltage, SPINVISTA automatically slows down to a low speed, but does not come to a complete standstill; the lower the operating voltage, the longer the run-on. For this reason, only open the working area of the machine when the spin window has come to a complete standstill.
- Danger of cuts: If the rotating viewing window is damaged, glass parts can come loose or the entire viewing window can even be destroyed. Wear safety gloves when troubleshooting.

⚠ DANGER

Danger from hot surfaces

The motors can reach high temperatures in the normal range. There is a risk of skin burns.

➡ Work may only be carried out by qualified and trained specialist personnel.

⚠ DANGER

Danger from rotating machine parts

Fast-rotating machine parts can cause personal injury and damage to property if touched.

➡ The maximum peripheral speed is:
for SPINVISTA EVO approx. 30 m/s,
for SPINVISTA NEO approx. 35 m/s

➡ Maintenance work, troubleshooting and troubleshooting may only be carried out by qualified personnel when the device is switched off.

➡ Wear personal protective equipment.

➡ Check safety devices regularly.

⚠ GEFAHR

Stoßgefahr

Durch Herabfallen von Komponenten, die nicht ausreichend gesichert sind, oder durch den Verlust der Standfestigkeit können sich Personen verletzen oder die Maschine kann beschädigt werden.

- ➡ Arbeiten dürfen nur durch qualifiziertes und geschultes Fachpersonal erfolgen.
- ➡ Sicherheitseinrichtungen regelmäßig überprüfen.

⚠ WARNUNG

Rutschen, Stolpern und Stürzen

Ungeeignete Arbeitsplatzgestaltung, ungünstige Maschinengeometrie, Flüssigkeiten oder kleine Gegenstände auf dem Boden können zu Ausrutschen und Stolpern und somit zu gefährlichen Stürzen führen.

- ➡ Arbeiten dürfen nur durch qualifiziertes/geschultes Fachpersonal erfolgen.
- ➡ Boden regelmäßig reinigen und möglichst trocken halten.

2.8.1 Five safety rules for electrical installations

1. De-energize the machine.
2. Check that there is no voltage.
3. Secure the machine against being switched on again.
4. Ground and short-circuit the workplace.
5. Cover neighboring live parts.

Before plug connections are separated, the power supply must be switched off.

2.8.2 General safety instructions

Disregarded warnings and safety instructions endanger your own life and that of other people.

- For all work with and on the machine, observe the warnings in the operating instructions and the signs on the machine.
- All work must be carried out in accordance with European or national / regional safety regulations.

Operation of the machine

- Before operation, the operating personnel must familiarize themselves with the area around the machine.
- There must be no obstacles in the area around the machine, especially in the infeed and outfeed area.
- Before operation, check whether there are foreign bodies (tools, liquid containers, etc.) in the working area of the machine. Foreign objects must be removed before operation.
- The machine must be checked for externally visible damage and defects at least once per working day / shift. If damage or defects are detected, shut down the machine and secure it against being switched on unintentionally. Eliminate any damage/defects before the machine is put into operation again.
- The machine may only be switched on, switched off and operated in accordance with the operating instructions.

Slipping

Slippery surface or floor in and around the machine, e.g. B. by cooling lubricants, can lead to falls.

- Walkable surfaces / floors must be non-slip.
- Check surfaces and floors around the machine regularly.
- Eliminate moisture, keep floors clean.

Dangers from incorrect assembly of components

- All work on the machine may only be carried out by specialist personnel who have been trained for the work and who have been authorized by the operator.
- After working on the machine, the function of the parts or components concerned must be checked.

2.8.3 CHECKING THE PROTECTIVE DEVICES

Defective protective devices / safety control

Manipulated, missing or defective protective devices or failure of the safety control poses a risk to life and limb.

To remedy the hazard follow:

- The protective devices must not be removed, circumvented or manipulated.
- If protective devices have been tampered with or removed, the machine must be taken out of operation until the protective devices have been professionally reinstalled.
- If protective devices are defective, the machine must be shut down until the defects have been professionally remedied.
- After repairs, check the function of the safety technology.

2.8.4 MISUSE

- SPINVISTA is developed exclusively to provide insight into the closed workspace of machine tools
- When operating SPINVISTA, the coolant jet should not be aimed directly at the viewing window. SPINVISTA must not be fully or partially immersed in liquid.
- SPINVISTA must not be operated if parts, such as chips (chip nests), are jammed between the base unit and the rotor.

3 Delivery/Transport/Storage

3.1 Delivery

- Refer to the order papers for the exact scope of delivery and compare with the delivery papers.
- Check the entire shipment for completeness using the enclosed delivery papers. Observe the sales and delivery conditions.
- Report damage as a result of defective packaging or transport to the forwarding company, the insurer and the deliverer immediately upon receipt of the shipment.

3.2 Transport, storage, interim storage

- The storage room must be dry and clean.
- Cover the machine completely to prevent dirt and dust from entering.
- Do not expose the machine to extreme cold or heat.
- Put the machine back into operation and check that the machine is working correctly.
- SPINVISTA is only to be transported, stored and temporarily stored in its original packaging.
- SPINVISTA contains fragile components. During transport and storage, care must be taken not to damage these components.

4 Assembly, modification, maintenance and repair

Please follow the installation instructions and use appropriate tools and original accessories. During all work on the SPINVISTA, the applicable safety and assembly instructions must be observed.

- Any work on the SPINVISTA may only be carried out with the power supply disconnected!
- To do this, disconnect the SPINVISTA from the power/compressed air supply prior to any work and ensure that it cannot be switched on again unintentionally during the work.
- Any dismantling of the SPINVISTA and subsequent processing by the customer without prior written approval leads to a reduction in operational reliability and loss of warranty.
- The assembly steps shown in the operating instructions show the SPINVISTA EVO. The SPINVISTA NEO is installed analogously.

4.1 Mounting Instructions

Please check on delivery if:

- The supplied SPINVISTA matches the desired SPINVISTA.
- The delivery is complete.
- Components are damaged.
- The component documentation is complete.

For the installation of the SPINVISTA, the supply of electrical energy and compressed air (see technical data) must be ensured..

The mounting surface on the machine window must be clean and level to ensure optimal adhesion of all adhesive and sealing elements.

When installing the SPINVISTA spin window, the device must not be damaged. Damage can reduce operational reliability and void the warranty.

Make sure that the installation is free of distortion and that the permissible loads according to the delivery conditions and operating instructions are observed:

- Recommended tightening torques

M3 screws	1 Nm
Cover screw	8 Nm

- Recommended tools

Scraper
Torque wrench
Assembly tool
Screw driver TX10

4.2 Mounting SPINVISTA

Perform the assembly in the following steps:

4.2.1 Mounting position

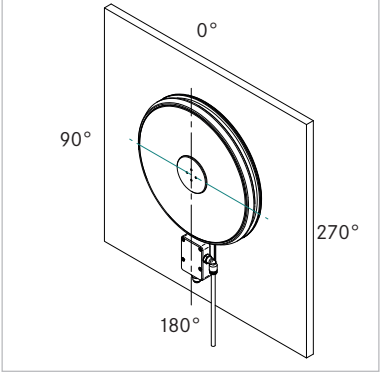


Figure 1: SPINVISTA alignment

Define the mounting position on the inside of the viewing window of the machine.
The installation position (Figure 1) is optional with the SPINVISTA series. However, it is convenient to set the orientation in 90° increments to suit the future power supply.

The position of the energy supply (Figure 2) can be freely selected in 90° increments on the SPINVISTA spin window (positions A, B or C).

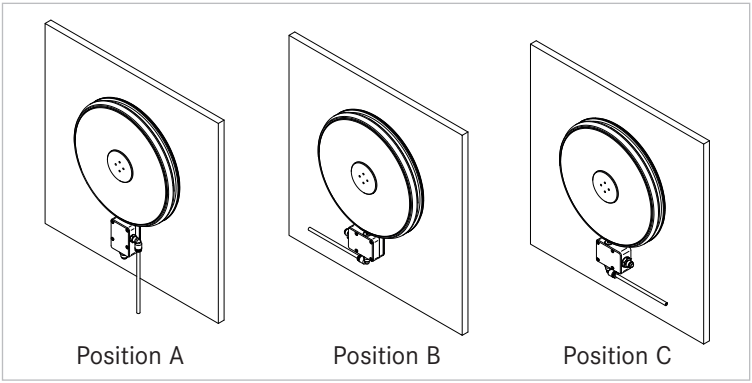


Figure 2: Energy supply SPINVISTA

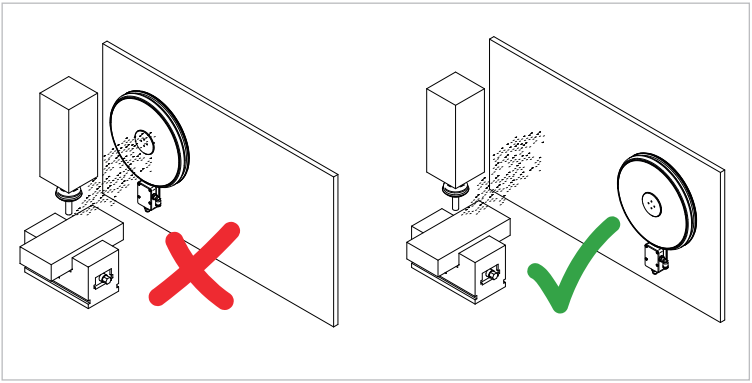


Figure 3: Recommended positioning of the SPINVISTA

Choose a mounting position for the SPINVISTA where it is not positioned directly in the flying chips. Positioning in direct chip flight can lead to accumulations of chip nests that impair concentricity. This can overload and block the SPINVISTA, causing increased wear.

4.2.2 CLEANING THE MOUNTING SURFACE

Clean the inside of the machine screen thoroughly and over a large area. The mounting position must be free of dust as well as oils and greases to ensure optimum adhesion of the adhesive surface.

4.2.3 PREPARE MOUNTING FRAME

- Remove the protective paper from the back of the mounting frame. Be careful not to damage or touch the adhesive surface.
- Press the mounting frame with the adhesive surface onto the selected mounting position.
- From the opposite side of the protective pane, check whether the adhesive surface is in full contact with the pane all around. If necessary, press the mounting frame further at the appropriate points so that there are no more air bubbles.

The full adhesive strength is only reached after 24 hours.

In order to achieve optimal adhesion of the mounting plate, we recommend mounting using a vacuum pump:

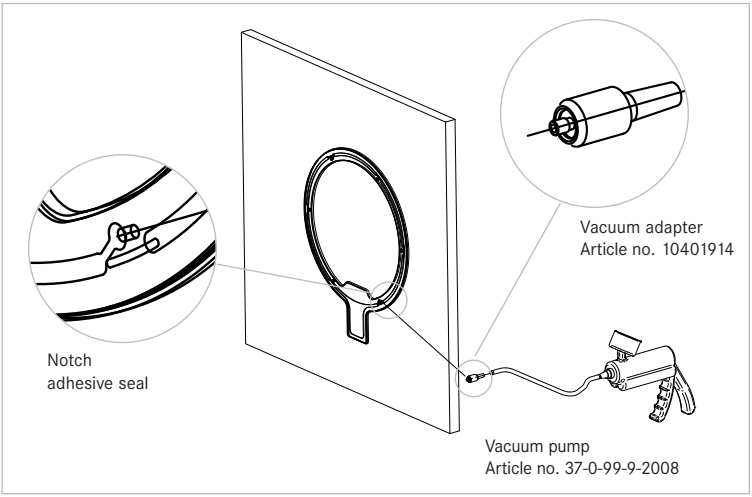


Figure 4: Installation using an optional vacuum pump

- Screw the optionally available vacuum adapter (item no. 10401914) with the o-ring into the mounting plate.
- Use the correct screwing position at the »notch« of the adhesive seal.
- Tighten the vacuum fitting lightly against the o-ring with two fingers.
- Plug in the connection hose to the hand vacuum pump (article no. 37-0-99-9-2008) and pump the air out of the chambers of the adhesive seal.
- If the vacuum decreases, check the contact surface of the bonded joint, increase the vacuum by pumping.
- The adhesive seal reaches approx. 80% of its adhesive strength after 60 minutes. During this time you can already start sealing the gap.

4.2.4 SEAL GAP

To protect the adhesive seal from the effects of cooling lubricant, seal the gap between the mounting frame and the machine safety window on the outside with the enclosed sealant (Figure 5). This protects the adhesive seal from contact with occurring cooling lubricants.

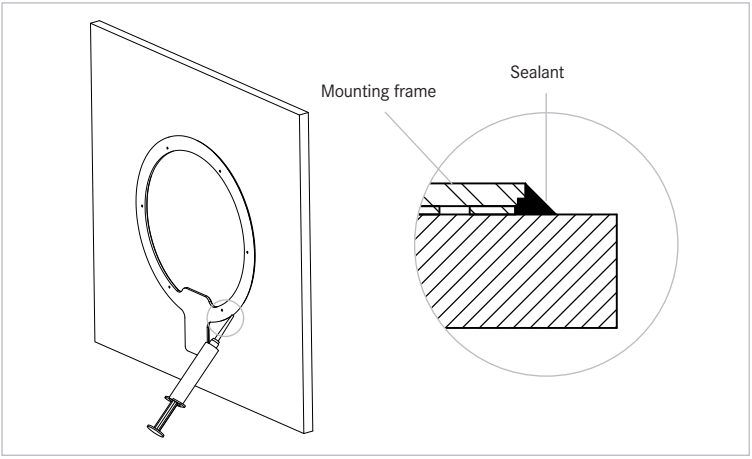


Figure 5: Sealing the mounting frame with sealant

- Draw a 45° joint between the mounting frame and the safety window (Figure 5) up to the level of the contact surface of the base unit.
- Note the curing time of the sealant.

4.2.5 SPINVISTA DISASSEMBLY

Disassemble the preassemble parts of the SPINVISTA to allow further assembly (Figure 6).

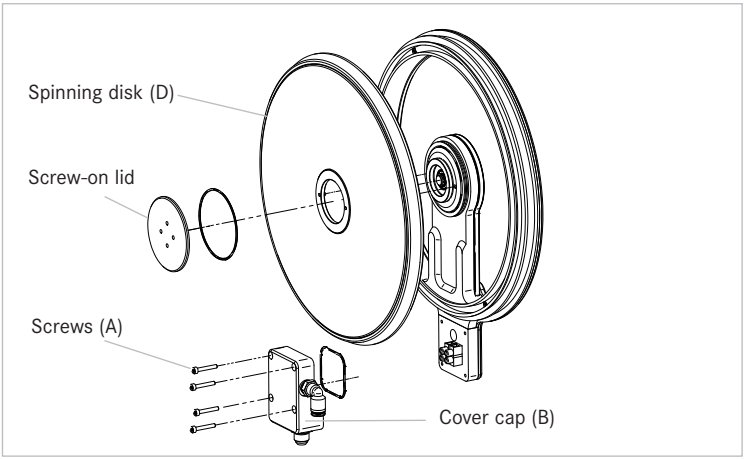


Figure 6: Disassembly SPINVISTA

- Loosen the screws (A) of the lower cover cap (B) and place them with the screw-on lid (C) cap on a stable surface.
- Remove the screw-on lid (C) in front of the spinning disk (D) by turning it counter clockwise and also place it securely in a suitable place.

4.2.6 MOUNTING BASE UNIT

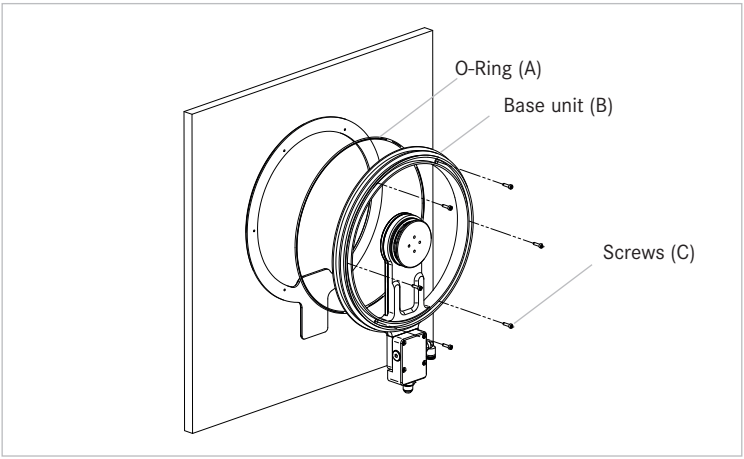


Figure 7: Mounting base unit SPINVISTA

- Insert the O-ring (A) into the corresponding groove on the underside of the base unit (B). Be careful not to overstretch the O-ring.
- Press the base unit lightly onto the mounting plate and align the base unit holes with those of the mounting plate (Figure 7).
- Starting from the top, screw the base unit crosswise at the mounting plate using the supplied screws (C).

  Scope of delivery screws (C):
  SPINVISTA NEO: 10 pcs M3x12
  SPINVISTA EVO: 6 pcs M3x12
- Before tightening the screws, check that the O-ring still sits in the groove provided and is not crushed
- Use the coated screws included in the scope of delivery and tighten them with a tightening torque of 1Nm..

4.2.7 Connection of electrical energy

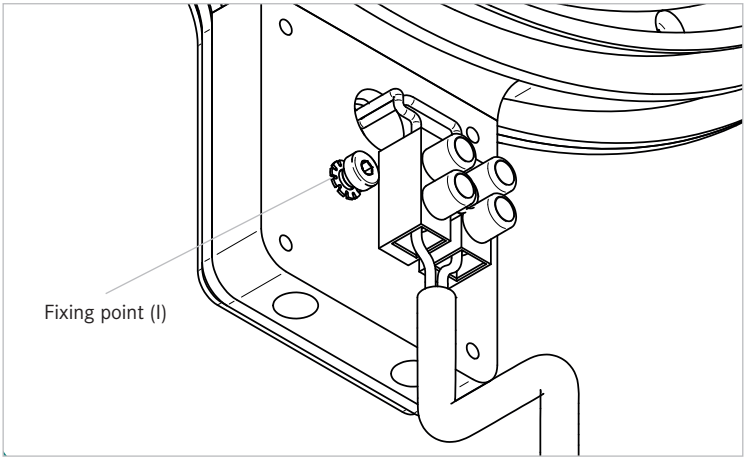


Figure 8: Electrical power connection SPINVISTA

- Feed the connection cable through the cable gland of the cove
- Use a cable with a outside diameter up to 7.5 mm.
- Select the cable cross-section according to the required cable length and the required operating voltage on the SPINVISTA.
- Remove 20 mm from the sheath of the connecting lead. Insulate the conductors and provide them with wire end ferrules..
- Connect the connecting cable to the luster terminal. Pay attention to the correct polarity::

  Blue = Gnd
  Red = +24V
  Green/yellow = Ground wire (optional)

- Optionally, you can attach a ground wire to the housing. To do this, provide a grounding cable with a ring eyelet and then screw the grounding cable to the fixing point (I) using the appropriate screw and the toothed washer (Figure 8).
- Make sure the cable connections are tight. Then carefully pull the cover over the cable to the screw-on position..

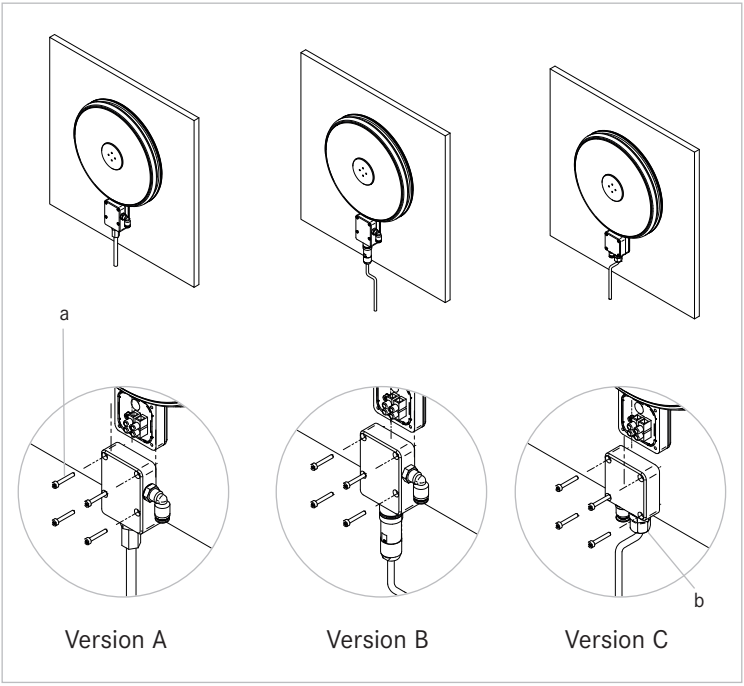


Figure 9: Fastening cable cover

- You can choose the attachment position in 3 positions (see Figure 8)

  Installation of the respective version

  Version A: Mount the flexible hose, make sure it is tight
  Version B: Connect the plug to the M12 connector, tighten and check for leaks
  Version C: Tighten the cable gland nut (b) to ensure the tightness of the electrical connections.

- Make sure that the cables below the cover cannot be crushed. Depending on the orientation of the cover (power supply), it may be necessary to change the position of the grounding screw and terminal block or their orientation.
- Pay attention to the seal on the underside of the cover, it must not slip out of the groove or be crushed when tightening the fastening screws.
- Fasten the cover with the included screws (a) M3x20 (Figure 9).

4.2.8 Compressed air connection (optional)

In order to avoid any condensation that may occur on the machine safety window, connect the sealing air connection to the existing push-in fitting.

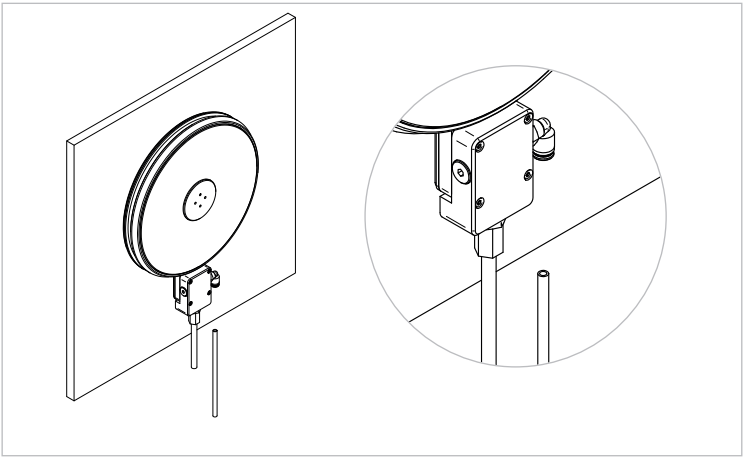


Figure 10: Optional compressed air connection

- To do this, use an externally calibrated 6mm compressed air hose (Figure 10). Alternatively, you can also use a different fitting with G1/8" if a different hose diameter is required.
- The SPINVISTA **can be used without sealing air**, since the sealing air has no effect on the tightness of the device.
- Remove the push-in fitting and replace it with a blind plug.
- If changes are made to the compressed air connection, it must be ensured that the connection is sufficiently sealed again.
- The optional compressed air supply for the SPINVISTA should be at least 2 mbar, but not higher than 50 mbar.
- It is therefore essential to check before starting up the compressed air supply whether the operating pressure meets the requirements (see page 32 »Technical data«).
- The use of sealing air is recommended if condensation forms on the machine safety window inside the SPINVISTA.

4.2.9 MOUNTING THE ROTATION DISK

Before mounting the rotation disk, check it to see if any damage has occurred.

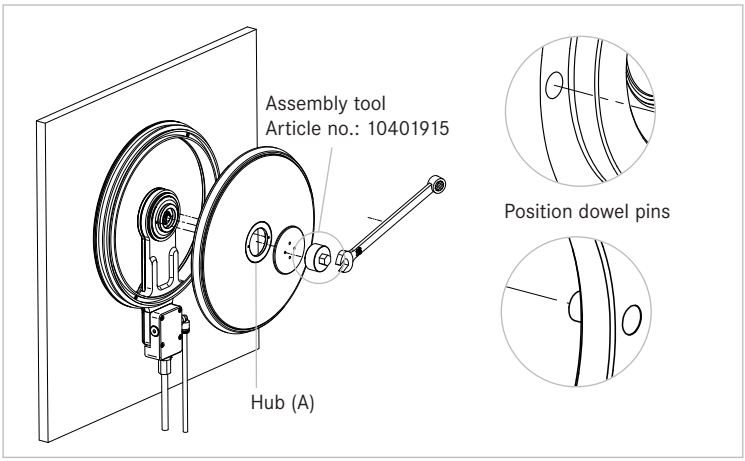


Figure 11: Mounting rotation disk

- Then place the hub (A) on the base unit motor, making sure that the rotor hub dowels engage the motor holes (Figure 12).
- Fixieren Sie die Drehscheibe leicht mit der Hand, um ein Herunterfallen zu verhindern.
- Carefully place the screw cap on the threads of the motor to avoid damaging it. For now, tighten them only by hand (clockwise) (Figure 11).
- Insert dowel pins in the holes.
- Check that the seal of the screw cap rests flat on the spinning disk and is not squeezed out.
- Tighten the screw cap to 8 Nm using the assembly tool (item no. 10401915).

4.3 Commissioning / functional check

After proper installation of the SPINVISTA the operational readiness is to be checked:

- Check the flexibility of the rotation window by turning it manually.
- BWith the SPINVISTA supplied with sealing air, air flows out at the annular gap between the base and the rotating window.
- All fasteners must be checked for their specified tightening torque.
- Start a test run taking into account all applicable regulations and safety regulations..
- **Function control LED**

Power LED lights up:	voltage is present
Power LED does not light up:	check supply voltage
Status LED lights up green:	Device in operation
Status LED lights up red:	Device blocked/too hot, restart occurs automatically after the device has waited and cooled down
Status LED flashes red:	Device is starting up, nominal motor speed has not yet been reached
Status LED alternates between flashing red and glowing red:	Switch off and clean the device, check for damage, restart after the fault has been eliminated

4.4 MAINTENANCE AND CARE

- Clean your SPINVISTA regularly from buildup.
- Check if any small parts have accumulated between the base unit and the rotation disk and remove them.
- Check daily the condition of the electrical supply line as well as the pneumatics.
- **Remove accumulation of chips on the SPINVISTA immediately.**

5. DISPOSAL 

Special general and possibly local regulations apply to the disposal of electronic devices..

In accordance with legal provisions, the customer is liable for the proper disposal of the delivered product at the end of the product's service life and assumes the associated costs.

6. CE MARKING 

The SPINVISTA EVO and SPINVISTA NEO spin windows in the supplied design meet the requirements of the Machinery Directive 2006/42/EC and are marked with the CE symbol.

7. EC Declaration of Conformity

EC Declaration of Conformity

According to EC Machinery Directive 2006/42/EC, Appendix II A

We hereby declare

HEMA Maschinen- und Apparateschutz GmbH
Am Klinggraben 2, 63500 Seligenstadt, Germany

that the machines of the same design and type described below and in the version we have placed on the market comply with the basic safety and health requirements of the EC Machinery Directive 2006/42/EC.
In the case of a modification of the machinery not agreed with us, this declaration loses its validity.

Machine

Designation	SPINVISTA
Function	Spinning window
Type designation	SPINVISTA EVO, SPINVISTA NEO

Conformity with the following EU directives:

2006/42/EG	EC Machinery Directive
2014/30/EU	EU directive electromagnetic compatibility

Applied harmonized standards::

DIN EN ISO 12100:2011	Security of machines
EN 61000-6-2:2005	EMC immunity
EN 61000-6-3:2007+A1:2011	EMC emitted interference

Furthermore, the following other standards and technical specifications were considered:

DIN EN 12417:2009-07	Machine Tools - Safety - Machining Centers
DIN EN ISO 23125:2015-04	Machine Tools - Safety - Lathes
DIN EN ISO 16089:2016-06	Machine Tools - Safety - Fixed Grinding Machines

Person who provides the technical documentation::

HEMA Maschinen- und Apparateschutz GmbH
Am Klinggraben 2, 63500 Seligenstadt
Phone: +49(0)6182/773-0
Telefax: +49(0)6182/773-35
E-mail: info@hema-group.com
Web: www.hema-group.com

HEMA Maschinen- und Apparateschutz GmbH

Steffen Walter
Geschäftsführer

Lars Najorka
CE-Bevollmächtigter

Am Klinggraben 2, 63500 Seligenstadt
Seligenstadt, den 1. November 2023

8. PRODUCT DETAILS

8.1 TECHNICAL SPECIFICATIONS

Dimensions SPINVISTA NEO	Ø 290 mm / 290 x 358 x 31,6 mm
Dimensions SPINVISTA EVO	Ø 253 mm / 253 x 321 x 31,6 mm
Field of view SPINVISTA NEO	430 cm^2
Field of view SPINVISTA EVO	284 cm^2
Housing and attachments	Aluminium
O-Ring seals	NBR
Spin disk (Rotor)	Aluminum, toughened safety glass
Motor	Brushless with blocking and reverse polarity protection
Rotational speed	2,300 U/min
Nominal voltage	24 VDC ± 3V
Power consumption idle	ca. 12 W (24V, 500 mA)
Current	0.5A (starting current 3.5A/24VDC)
Noise	<65 dB (A) DIN EN ISO 11200
Supply	min 2 x 0.75mm^2 PUR coated max. 7.5mm outer diameter
Storage temperature	+10°C ... + 70°C permissible
Operating temperature	+10°C ... + 50°C permissible
Overpressure / sealing air (optional)	min. 2 mbar, max 50 mbar
Air consumption	~1.1 m^3/h (at 2 mbar)
Air cleanliness	ISO 8573-1:2010[3:4:3] required
Cleaning	Isopropanol, Glass cleanser
Application	Milling centers, turning and grinding machines
Maximum tilt angle disc	5°
Orientation of connection	any
Lubricants	Commercially available cooling lubricants
Weight	SPINVISTA NEO: 2.1 kg SPINVISTA EVO: 1.8 kg
Dimension packaging	600 x 400 x 150 mm

8.2 Device Details

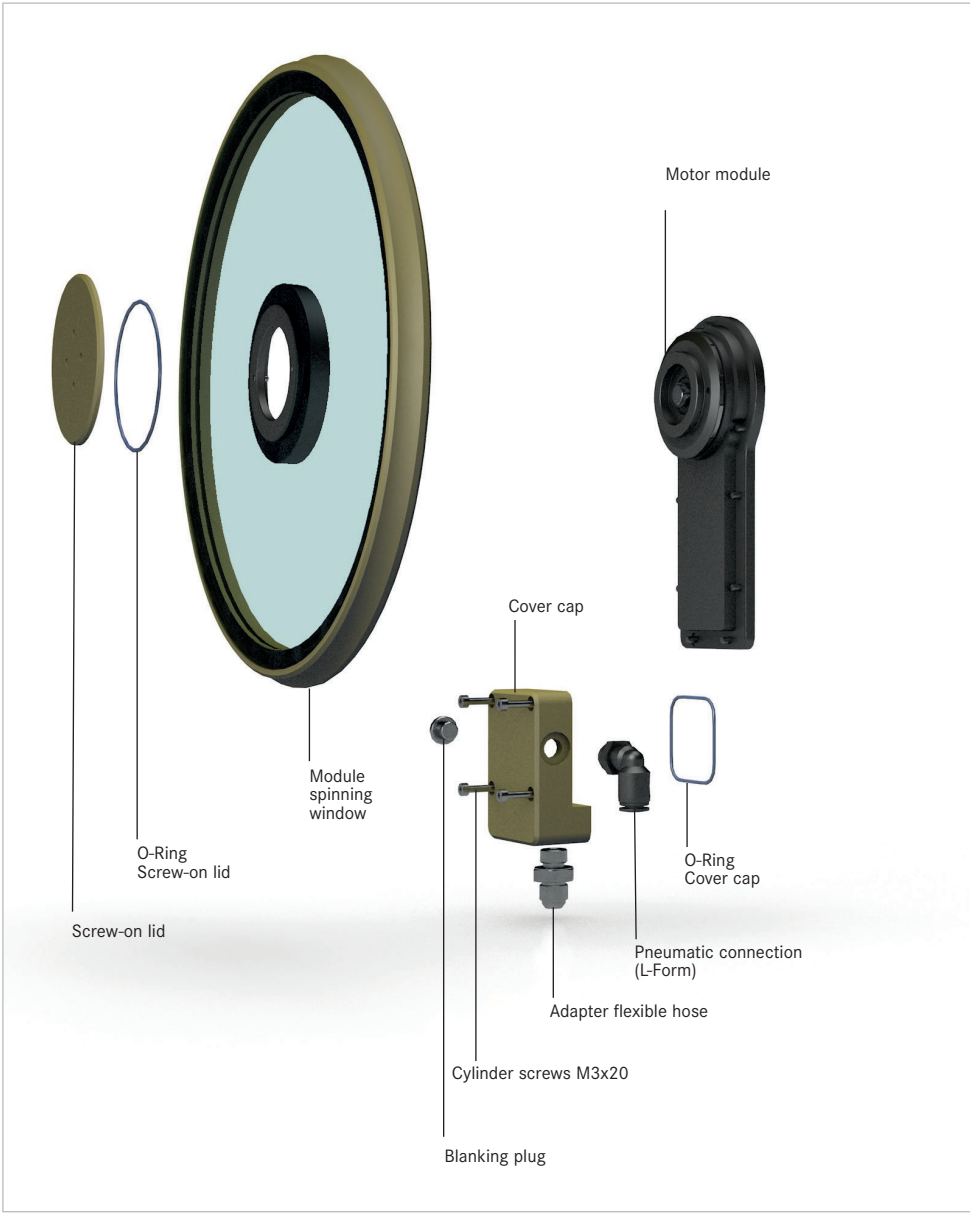
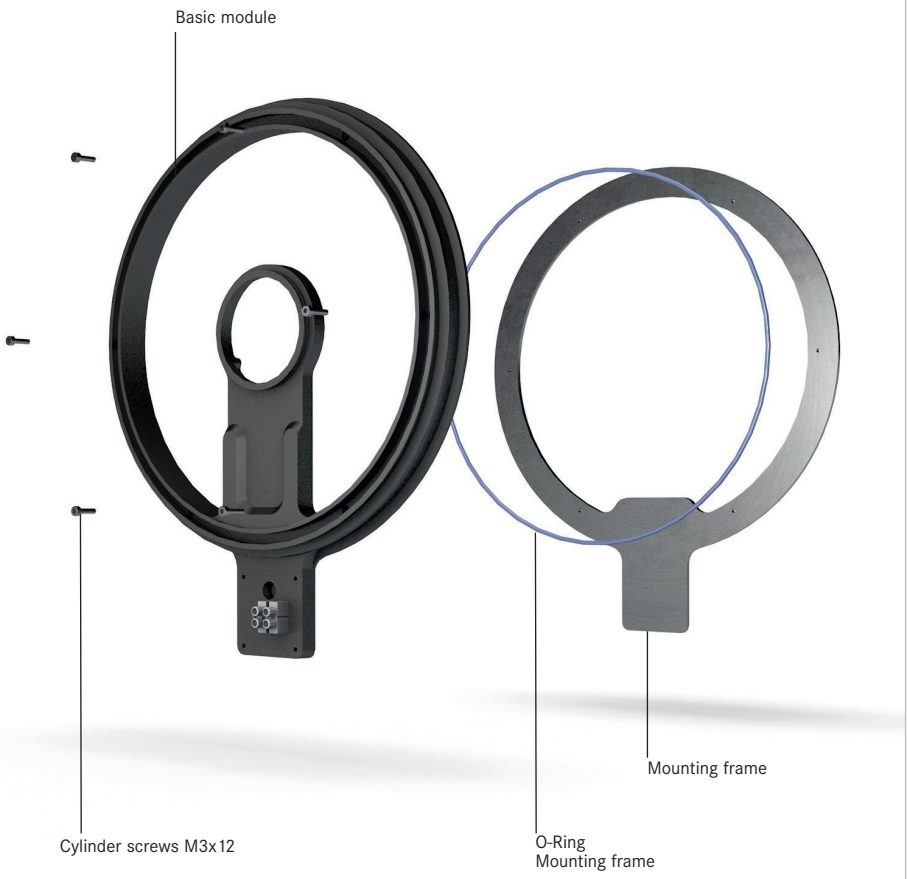


Figure 12: SPINVISTA device details


Basic module
Mounting frame
Cylinder screws M3x12
O-Ring
Mounting frame

8.3 SPINVISTA EVO - Dimensions

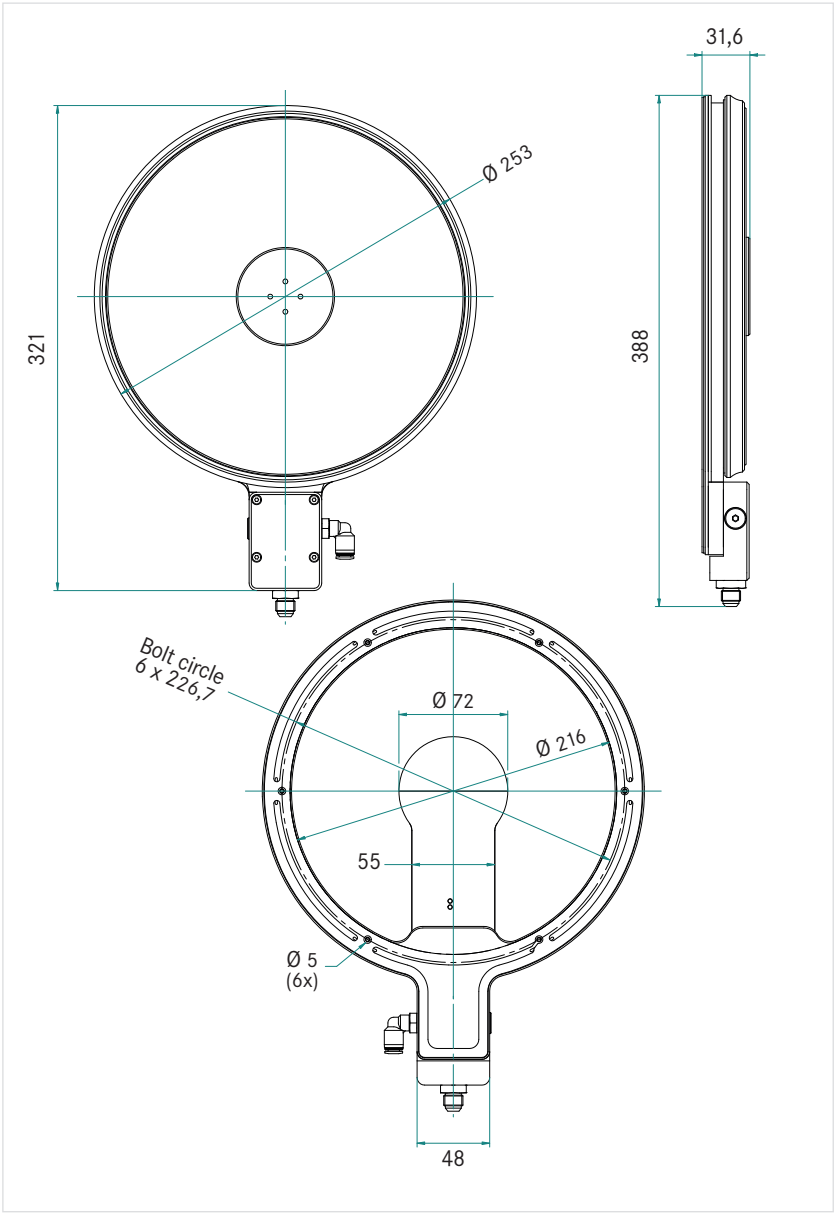


Figure 13: SPINVISTA EVO dimensions

8.4 SPINVISTA NEO - DIMENSIONS

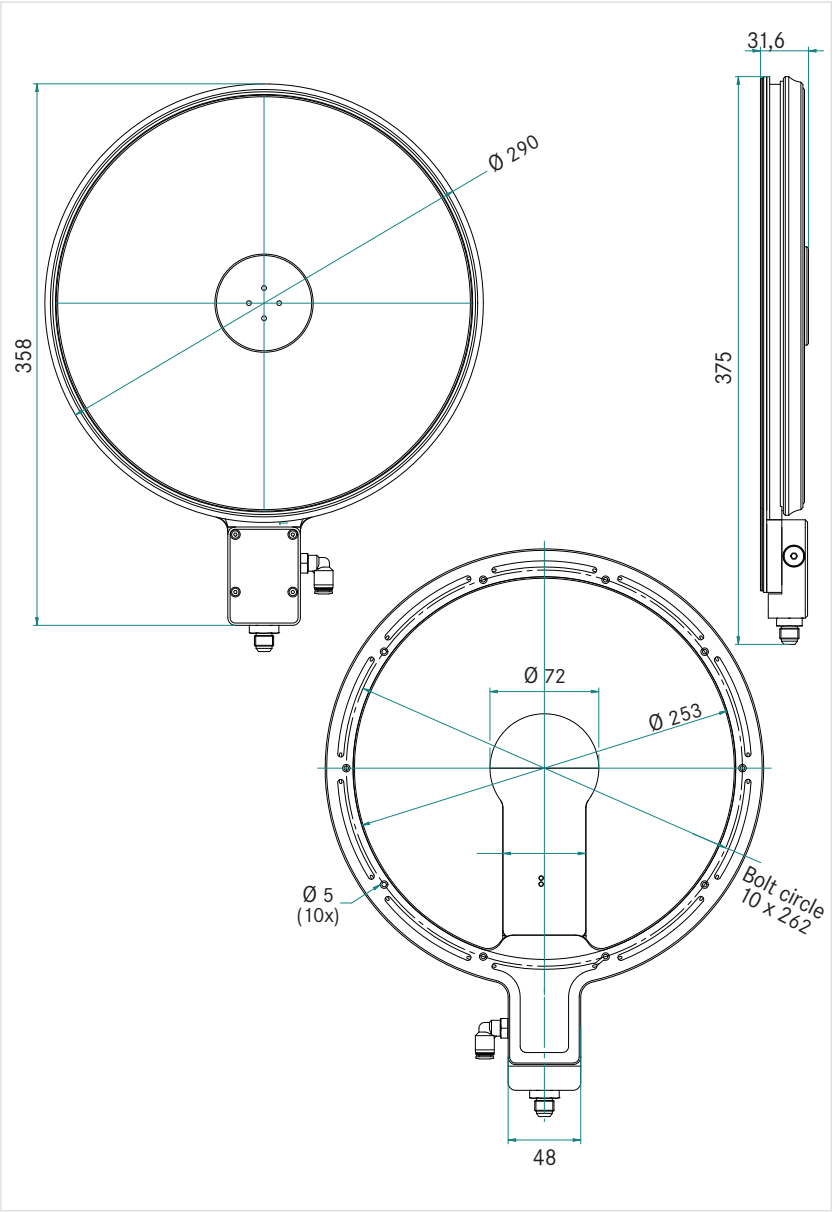


Figure 14: SPINVISTA NEO dimensions

8.5 SPINVISTA EVO - ARTICLE NUMBERS

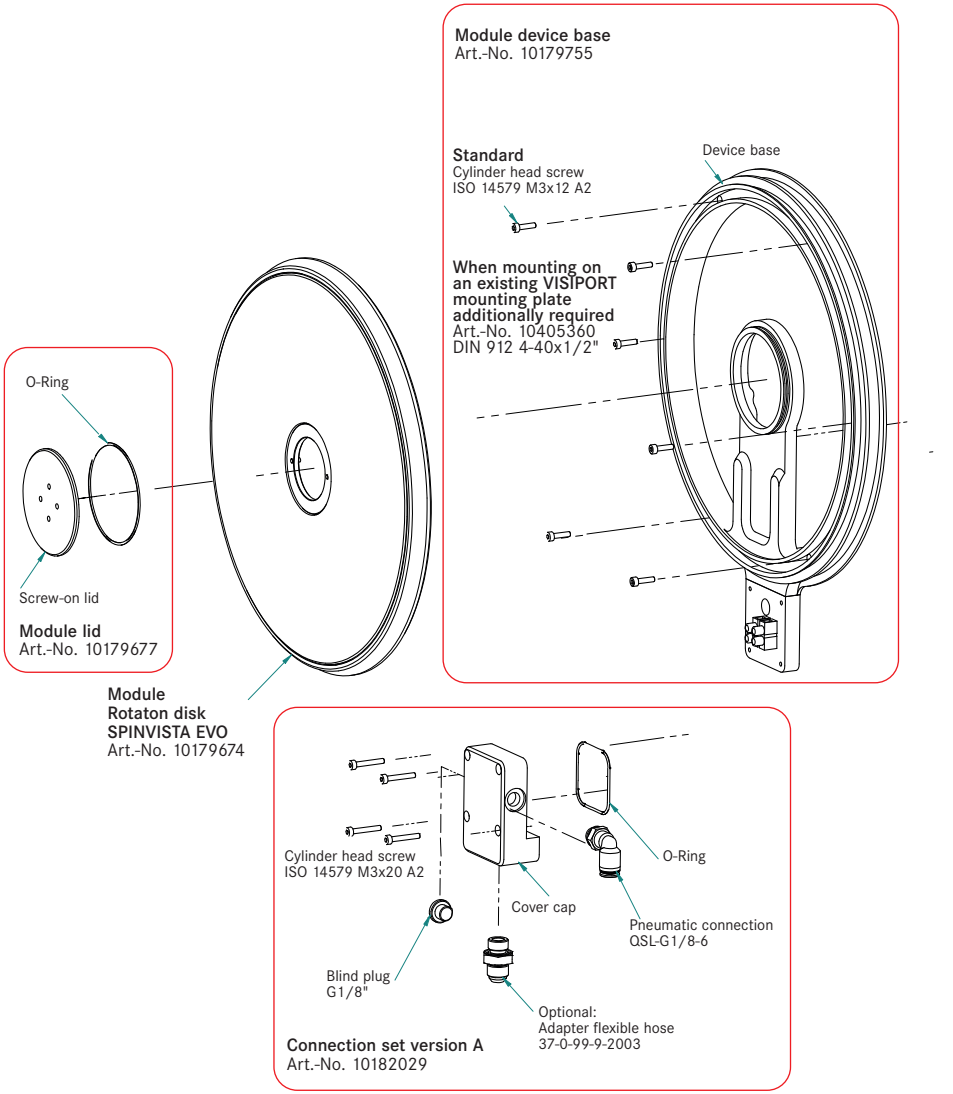
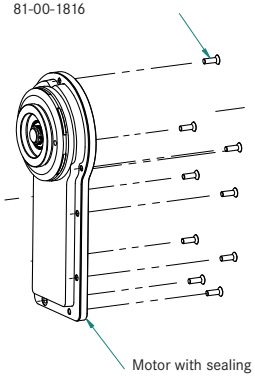
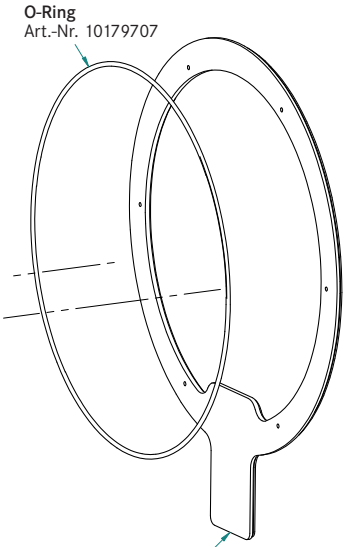


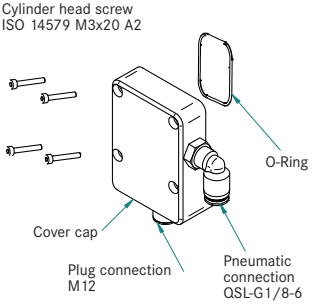
Figure 15: SPINVISTA EVO - exploded view with article numbers



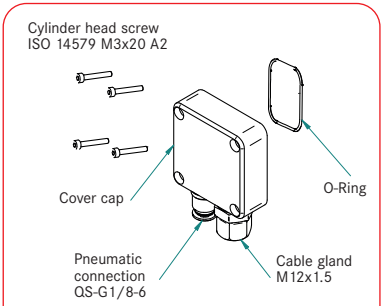
Module Motor
Art.-No. 10179675



Mounting plate with adhesive seal
Art.-No. 10174475



Connection set version B
Art.-Nr. 1017673



Connection set version C
10406114

Spare parts only available in sets

8.6 SPINVISTA NEO - ARTICLE NUMBERS

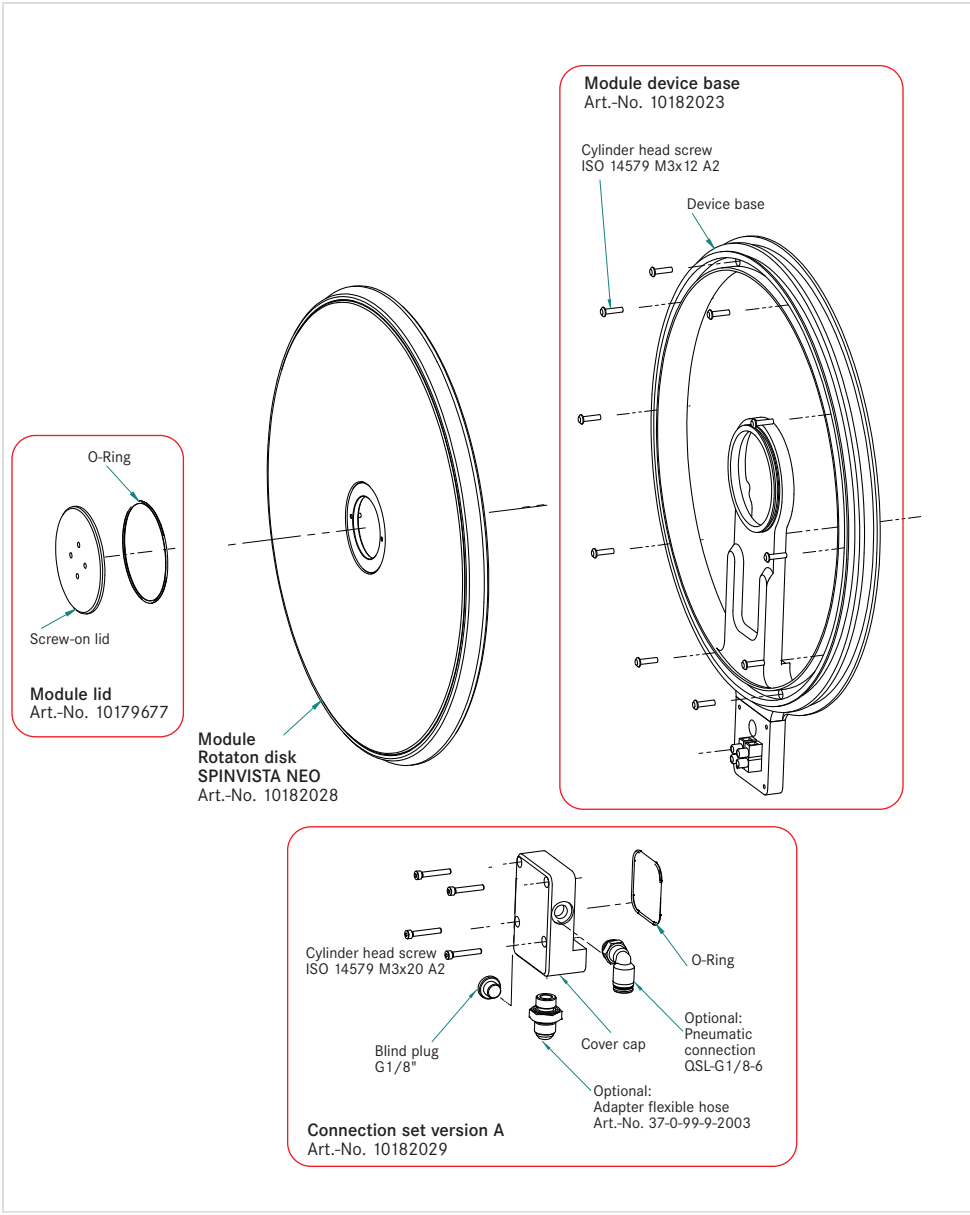
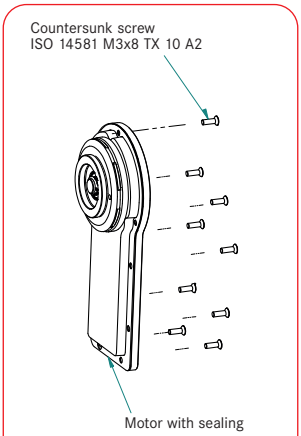
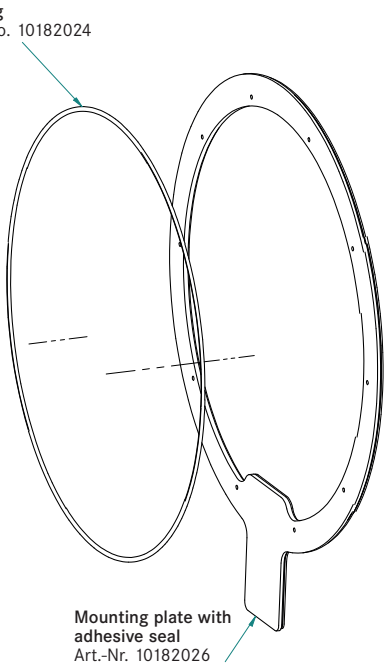


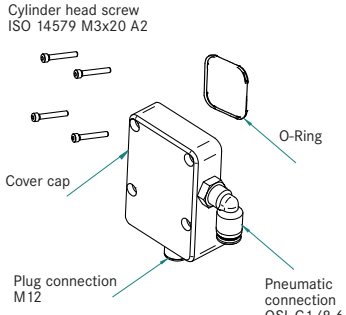
Figure 16: SPINVISTA NEO - exploded drawing with article numbers



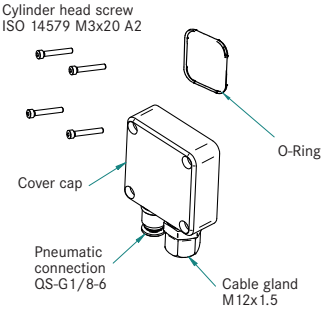
Module Motor
Art.-No. 10179675



Mounting plate with adhesive seal
Art.-Nr. 10182026



Connection set version B
Art.-No. 10179073



Connection set version C
Art.-No. 10406114

Spare parts only available in sets

HEMA Maschinen- und Apparateschutz GmbH
Am Klinggraben 2
63500 Seligenstadt, Germany
Phone: +49(0)6182/773-0
Fax: +49(0)6182/773-35
E-mail: info@hema-group.com
Web: www.hema-group.com