Original Operating Manual

EN

InoBEAM F30 delivery pump

Read this entire original operating manual before starting work.

inoBEAM F30

Originalbetriebsanleitung

Original operation manual

inotec

Thank you for trusting INOTEC. By purchasing you have opted for a quality product.

If you have any suggestions or any issues, we would be delighted to hear your suggestions for improvement and
your feedback. Speak to the sales representative
assigned to you or, in urgent cases, contact us directly.

We work constantly to further develop our products and reserve the right to make changes for technical reasons relating to building legislation.

Yours faithfully
INOTEC GmbH

Legal notice

Address: INOTEC GmbH
Daimlerstraße 9-11
79761 Waldshut-Tiengen
Germany
Tel.: +49 (0)7741 6805 666
Fax: +49 (0)7741 6805 665
Email: info@inotec-gmbh.com
Web: www.inotec-gmbh.com

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Contents

1 General information

1.1 Information about this manual

- This manual helps to ensure safe and efficient use of the machine.
- Operating personnel must have carefully read through and understood this manual before starting any work.
- Compliance with all the specified safety instructions is a basic prerequisite for working safely.
- This manual is a component of the machine and must be stored within direct proximity of the machine, accessible to operating personnel at all times.
- In addition to the notices in these instructions, the local accident prevention guidelines and national occupational health regulations also apply.

1.2 Symbol explanation

Hazard notices feature symbols to make them easier to identify. These indicate the severity of the hazard.

- You must observe this information.

DANGER indicates an immediate hazard. Death or serious injuries may result from non-compliance.

WARNING indicates a potentially dangerous situation. Death or serious injuries may result from a failure to avoid these situations.

CAUTION indicates a potentially dangerous situation. Minor or slight injuries may result from failure to avoid these situations or damage to the machine or something in its vicinity.

High pressure variants: inoBEAM F30 “HP”

There are three pump sets for the inoBEAM F30.

- **Set “D”-F30** for spray applications
- **Set “R”-F30** for floor levelling compounds
- **Set “HP”-F30** for airless spray-on smoothing compounds

In these instructions, all deviating or supplementary specifications for the **HP variant** are shown in a box with the symbol next to it.

NOTICE draws your attention to useful tips for effectively handling the machine.

1.3 Information about this manual

1.3.1 Purpose of this operating manual

The operating manual is used to provide information to the operating manager, assembly fitters and machine operators on the construction site. It contains important instructions for safe use, optimum results and a long service life.

Risk of incorrect operation

Failure to observe the operating manual could put the operator’s life and health at risk and damage the machine.

- Read this operating manual carefully before passing it on to your assembly fitters or operators.
- Please ensure that assembly fitters and operators read this operating manual carefully before they start installing and commissioning the machine.
- Always keep the operating manual to hand and in a legible condition.

1.3.2 Disclaimer

All technical information, data and instructions for use contained in this operating manual reflect the state of the art at the time of printing and are based on our experience thus far and the best of our knowledge.

The manufacturer cannot be held liable for any damages as a result of:

- Failure to comply with this manual
- Improper use
- Assignment of non-trained personnel
- Unauthorised alterations
- Technical changes
- Use of non-approved spare parts

1.3.3 Warranty

Statutory warranty periods of 12 months from the date of purchase/the date of invoice of the industrial end customer apply to our machinery.

1.3.3.1 Exercising claims

In the event of a warranty claim, send the entire machine, along with the invoice, to our headquarters in Waldshut-Tiengen.
Contact our free INOTEC service hotline beforehand on +49 7741 6805 777.

1.3.3.2 Warranty claims

Claims apply only where material or manufacturing faults exist and where machinery has been used properly. Wear parts are not covered by the warranty. All claims shall become void if third-party parts are installed, where the machinery has been improperly used or stored and in the event of obvious non-compliance with the operating manual. In this connection, we refer you to our General Terms of Business.

1.3.4 Carrying out repairs

Repairs may only be carried out by employees at our INOTEC service centres.

2 Safety

2.1 Intended use

- The inoBEAM F30 is used to convey pumpable and paste-like materials (mineral or organic products) with a particle size of up to a maximum of 6 mm. Feed the delivery pump exclusively with paste-like material (e.g. with material in buckets). The material is transported to the rotor/stator via the pump shaft.
- The material is pumped to the processing location by means of mortar hoses. There it is either poured onto the floor or applied to walls or ceilings with the appropriate spray guns or glue guns.
- Only use the machine within its limits of application and according to the technical data.
- Pay particular attention to the safety and warning notices outlined in this original operating manual.

Failure to use the inoBEAM F30 properly could put the user's life and limb at risk and damage the inoBEAM F30 or other assets.

Safety requirements for mortar delivery machines (suction pumps) can be found in the following standards, among others:

- Industrial Safety Regulation, accident prevention regulations "Principles of Prevention" (BetrbSichV, BGV A1) incl. the explanations and specifications of BGR A1.
- BG 183, rule of the German Employer's Liability Insurance Association for the Construction Industry, mortar conveying and mortar spraying machines.
- DIN EN 12001, conveying, spraying and distribution machines
- For concrete and mortar - Safety requirements; German version EN 12007

Danger due to misuse!

Misuse of the inoBEAM F30 may lead to dangerous situations.

- Never use the inoBEAM F30 delivery pump to create other products, such as food.
- Never operate the inoBEAM F30 delivery pump using values outside the ranges specified in the "Technical Data".

Observe the following instructions for safe handling of the machine:

1. Only use the inoBEAM F30 "HP" with a mortar pressure gauge.
2. Only use labelled high-pressure hoses with at least 120 bar operating pressure.

The high-pressure variant **inoBEAM F30 "HP"** is NOT designed to be used as a cleaning device.

2.2 General risk sources

Electrical voltage.
Danger of death due to electric shock.

- Work on the electronic control system may only be performed by a qualified electrician.
- Switch off the machine and pull out the mains plug.
- Secure the machine against unexpectedly being switched back on.
- Only connect the pump to regulation construction site power distribution points with type B FI circuit breakers (30 mA).
- The connection must be fused with 16 A.
- The cross-section of the supply cable is at least 2.5 mm^2 at 230 V 1 PH.
- Connect the supply cable to the 230 V / 16A "feed supply" CEE plug.
- All operating equipment on the construction site must generally be connected according to BGI/GUV-I 608.

Rotating shafts.
Danger of death due to being pulled into the machine and crushed.
When the motor is running, the pump shaft rotates in the material hopper!

- Do not reach into the rotating shaft.
- Do not place any objects into the rotating shaft.

1. Before working on the pump shaft, interrupt the external power supply. Loosen the screws of the protective screen above the material hopper only when the machine is switched off.
2. To do this, press the red push button on the switching cabinet.
3. Pull out the mains plug.
4. Secure the machine against unexpectedly being switched back on.

Pressurised conveyor hoses.
Risk of injury and risk of property damage due to escaping and/or flying material, and/or bursting conveyor hoses!

- Before disconnecting the conveyor hoses, make sure that the hoses are depressurised. To do so, check the pressure indicator on the mortar pressure gauge. The pressure indicator must display 0 bar!
- Before opening the hose coupling, let the inoBEAM F30 run in reverse to reduce any pressure!
- Use only conveyor hoses which, depending on the set used, are permissible with an operating pressure of 40 bar (set "D" and "R") or 230 bar (set "HP"), and are in technically perfect condition (e.g. do not have any cracks or other external damage!).

Using the high-pressure hose.

- Check the high-pressure hose before each use and replace any damaged hoses immediately.
- Never repair defective high-pressure hoses yourself.
- Avoid severely bending or kinking the high-pressure hose (smallest bending radius approx. 20 cm)
- Never pull on the high-pressure hose to move the machine.
- Never clean high-pressure hoses with solvents.
- Lay the high-pressure hose so that there is no risk of tripping and make sure that no one drives over the high-pressure hose.

2.2.1 Notices in the operating manual

ATTENTION:
Risk of injury due to injection!
The spraying pressures created by the high-pressure pump are extremely high!

1. Never touch the spray with your fingers, hands or other parts of your body.
2. Look for weaknesses or leaks in the high pressure hose. Never try to seal leaking material with your hands, shoes or with a cloth.
3. Never point the spray gun at yourself, other people or animals.
4. Never use the spray gun without the spray guard.
5. Before each operation, make sure that the trigger lock on the gun is working. Flip the trigger safety on the gun whenever spraying is interrupted.
6. In case of injury, do not treat this spray injury as a harmless cut. In the event of a skin injury caused by coating materials or solvents, seek medical attention immediately for rapid, specialised treatment. Inform the doctor about the coating material or solvent used.

Safety notices in the operating manual alert the operating personnel to any immediate danger. Please observe all the technical and hazard notices in this operating manual.

2.2.2 Performing checks before starting work

Defects or damage can put the safety of operating personnel at risk and impair the functionality of the machine.

- Before commencing work, check the machine and conveyor hoses for any obvious external damage or defects.
- Do not commission the machine if you notice any damage to or defects in the machine or to the conveyor hoses.
- Ensure that the damage and/or defects are rectified.

Observe the following points before each commissioning:

1. Do not use faulty equipment.
2. Secure the spray gun.
3. Check the permissible operating pressure of the high pressure hose and the spray gun. Do not kink the high-pressure hose.
4. Check all connecting parts (e.g. union nuts) for tightness.
5. Check the pump unit for tight fit.

2.2.3 Conversions and changes

Conversions or changes can put the safety of operating staff at risk and impair the functionality of the machine.

- Do not make any changes, additions or conversions to the machine without first consulting Inotec GmbH and obtaining its written approval. Otherwise, the operating license will become void.

2.2.4 Cleaning and maintaining the machine

WARNING **Cleaning and maintenance work can put the safety of operating staff at risk and impair the functionality of the machine.**

1. Switch off the machine and pull out the mains plug.
2. Secure the machine against unexpectedly being switched back on.
3. Before cleaning with the water jet, cover all the openings that water must not penetrate into for safety and functional reasons.
4. After cleaning, remove all the covers which were attached to protect against the water.

HIGH PRESSURE

DANGER **Be sure to follow the instructions for cleaning and maintaining the machine:**

1. Depressurise the spray gun and the high-pressure hose.
2. Secure the spray gun.

2.2.5 Changing the location of the machine

The inoBEAM F30 is equipped with two wheels, two swivel castors and an extended handle on the frame. The inoBEAM can, therefore, be moved on the construction site conveniently.

CAUTION **Changing location can put the safety of operating staff at risk and impair the functionality of the machine.**

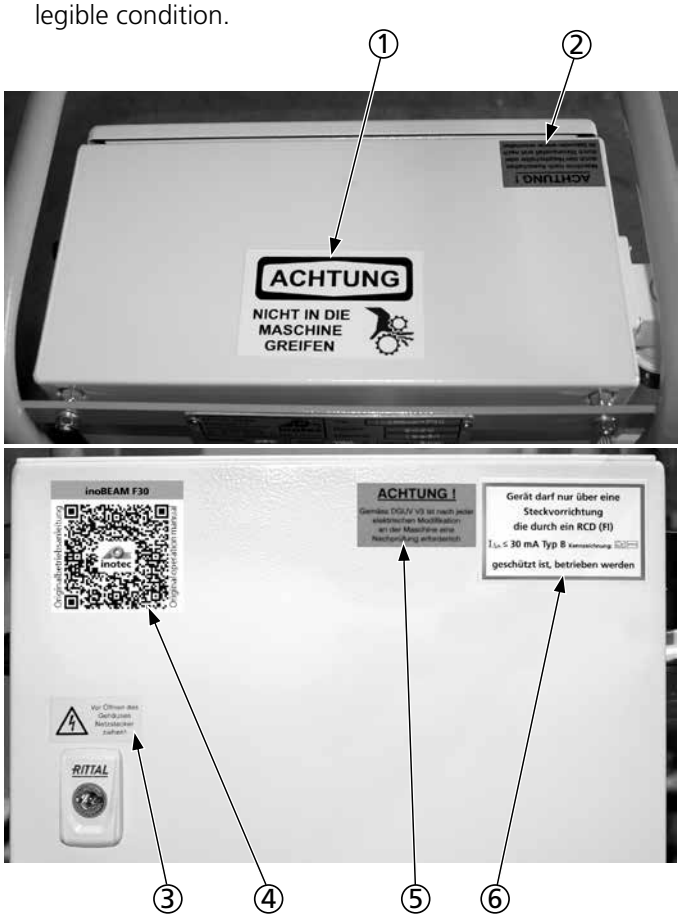
1. Switch off the machine and pull out the mains plug.
2. Always install the machine in such a way that it is level and stable.
3. Secure the machine against undesirable movements.
4. Reconnect the machine to the external power supply before restarting the machine.

2.3 Notices on the machine

DANGER **Safety notices on the machine make operating staff aware of imminent danger.**

Warning notices are affixed to the **inoBEAM F30**, indicating the following:

- WARNING. Do not reach into the machine (1).
- WARNING! If the machine has been switched off at the main switch or has suffered a power failure (2), wait 60 seconds before switching it on again.
- Before opening the housing, disconnect it from the mains (3).
- This QR code will take you to the original operating manual for the delivery pump and a 3D animation of its function (4).
- WARNING! In accordance with DGUV V3, a retest is required after every electrical modification to the machine (5).
- The device may only be operated via a connector protected with an RCD (FI) IΔn ≤ 30 mA type B (6).
- Observe all the safety and hazard notices that are attached to the machine.
- Always keep the safety and hazard notices in a clearly legible condition.



The QR code (4) on the switching cabinet is linked directly to the original operating manual and to a 3D animation of the functioning of the delivery pump.

2.4 Personnel qualification

INOTEC offers training sessions on operating the inoBEAM F30. Use INOTEC service for the initial commissioning of the machine; this also serves as an opportunity to provide operators with training on how to operate the mixer.

If the inoBEAM F30 is operated by unqualified individuals, this could put the life and health of the operating staff at risk and cause property damage to the inoBEAM F30 or other assets.

2.5 Responsibility of the operator

- Only task trained or instructed staff with operating the inoBEAM F30.
- Define employees' responsibilities for operating, setting up, maintaining and servicing the machine clearly.
- Only task untrained staff or individuals who have not received any instruction with operating the machine when there is a trained or instructed specialist available to supervise them.
- Work on the electronic control system may only be performed by a qualified electrician.

At high operating pressure, pulling the trigger of the spraying device causes a recoil force of up to 15 N.

- Be prepared for this recoil force otherwise your hand may be pushed back or you may lose your balance. This can cause significant injuries.

2.6 Personal protective equipment (PPE)

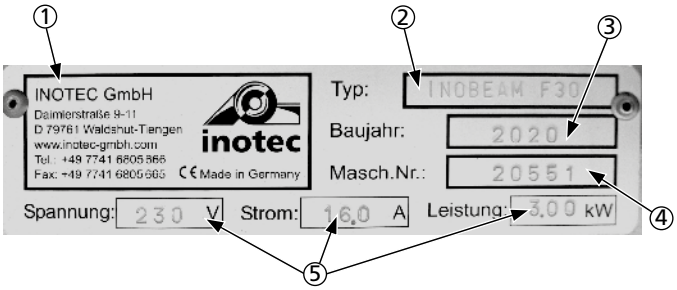
PPE – particularly gloves, safety boots, safety clothing, a safety helmet, safety goggles, hearing protection and respiratory protection – must be used.

ATTENTION:
Risk of injury due to injection!
The spraying pressures created by the high-pressure pump are extremely high!

1. Never touch the spray with your fingers, hands or other parts of your body.
2. Look for weaknesses or leaks in the high pressure hose. Never try to seal leaking material with your hands, shoes or with a cloth.
3. Never point the spray gun at yourself, other people or animals.
4. Never use the spray gun without the spray guard.
5. Before each operation, make sure that the trigger lock on the gun is working. Flip the trigger safety on the gun whenever spraying is interrupted.
6. In case of injury, do not treat this spray injury as a harmless cut. In the event of a skin injury caused by coating materials or solvents, seek medical attention immediately for rapid, specialised treatment. Inform the doctor about the coating material or solvent used.

3 Technical data

3.1 Rating plate



Item	Component	Value
1	Manufacturer, address and contact details, CE marking	-
2	Name and type of machine	-
3	Machine's year of construction	-
4	Machine number	-
5	**Technical data** - Voltage - Current - Output	 230 V 16 A 3.0 kW

You must always state the machine number if you would like to order spare parts, have any queries or would like to make a complaint. You will find this information on the rating plate or on the delivery note.

3.2 Electric control system, pump output, particle size, weight, dimensions

Mains voltage	230 V, 50 / 60 Hz
Mains supply	1 phase N. PE 16 A (to be supplied by customer)
Output	3.0 kW (frequency-controlled)
Fuse	min. 16 A
Delivery rate for set "D" & "R" Delivery rate for set "HP"	max. 2 - 50 l/min.* max. 8 l/min.*
Delivery range for set "D" & "R" Delivery range for set "HP"	up to 80 m* up to 30 m*
Delivery height for set "D" & "R" Delivery height for set "HP"	up to 25 m* up to 15 m*
to be processed	max. 6 mm
Weight	approx. 85 kg
Dimensions:	
Length	1,450 mm
Width	530 mm
Height	700 mm

* Depending on the consistency of the material.
Material-dependent – observe the material manufacturer's instructions.

3.3 Mortar pressure gauge

Maximum operating pressure	
Set "D" & "R"	40 bar
Set "HP"	90 bar

3.4 Material hopper

Fill quantity	approx. 50 l

3.5 Motor

Output/rotation speed frequency-controlled	3.0 kW, 1 - 326 rpm
Installation position	Motor horizontal
Electrical data	f = 50 Hz , I = 11.2 A, U = 230 V, IP 54
Insulation class	F, ED = S1
Colour	unvarnished

3.6 Pump shaft

Maximum height of augur blades:	38 mm
Minimum height of augur blades: (wear limit)	30 mm

3.7 Rotor/stator

Set "D"	- D6-3 Eco Gold - D4-1/2 output soft with clamping strip - D7-2.5 Mono Plus - D8-1.5 maintenance-free or with clamping strip
Set "R"	- R7-1.5
Set "HP"	- Rotor/stator spray

3.8 Noise emissions

Sound power level LWA	< 78 dB (A)

3.9 Operating conditions

Temperature range	2 - 45 °C
Relative humidity, maximum	80 %

4 Assembly and function

4.1 Scope of delivery of inoBEAM F30

The scope of delivery is generated using the components ordered and can be checked using the delivery note.

inoBEAM F30 basic module (item no. 10041083)

- Frame
- 2 running wheels
- 2 swivel castors
- Plastic material hopper
- Cover for material hopper
- Gear motor
- Switching cabinet
- 3 m connecting cable
- Pump shaft
- Stainless steel pump housing
- Tool set
- Assembly, spray lubricant
- Operating manual

Pump set "D"-F30
for spray applications (18 l / 40 bar)
Item no. 10041913*

Pump set "R"-F30
for floor levelling compounds (50 l / 15 bar)
Item no. 10043416*

Pump set "HP"-F30
for airless spray-on smoothing compounds (8 l / 90 bar)
Item no. 10041888*

* Scope of delivery, see accessories

4.2 Functionality

The inoBEAM F30 is used to convey pumpable materials (mineral or organics products) with a particle size of up to a maximum of 6 mm. The pump shaft transports the material to the rotor/stator where the necessary pressure is built up. The material is pumped to the processing location by means of mortar hoses. There it is either poured onto the floor or applied to walls or ceilings with the appropriate spray guns or glue guns.

HIGH PRESSURE

NOTE

Do not use a gun filter when applying spray-on filler and similar materials, as the filter will become blocked.

NOTE

Note the optimum assembly sequence.

1. Push the pump shaft into the pump hopper.
2. Connect the rotor/stator and the suction flange to the pump shaft.
3. Assemble the pressure flange with the mortar pressure gauge and hose connection to the rotor/stator and lock the two (set "D" and "R") or three (set "HP") tie rods in place with the nuts.
4. Connect the mortar hose with the quick-release coupling to the hose connection of the mortar pressure gauge by closing both cam levers.
5. Assemble the appropriate spray head or one-handed gun to the end of the mortar hose and connect the air hose to the spray head.
6. Connect the supply cable to the 230V / 16A "feed supply" CEE plug.

Functionality with remote control cable

7. Take the dummy plug out of jack for the remote control cable and insert the remote control cable into the contact.
8. Connect the remote control cable to the material hose and the air hose of the compressor by means of adhesive tape or cable ties.

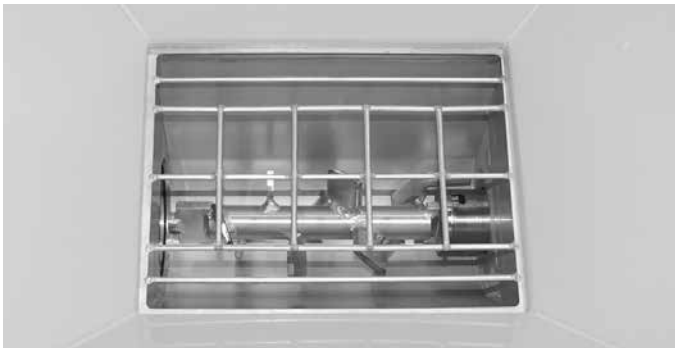
4.3 Components

Description of components

Item	Component
1	Frame with material hopper incl. pump housing, pump shaft, swivel castors and wheels
2	Drive unit
3	Switching cabinet

4.3.1 Frame with material hopper incl. pump housing, pump shaft and wheels

The machine can be moved around the construction site by lifting it by its frame or by transporting it using the swivel castors and wheels. The pump shaft is connected to the motor and rotor/stator during operation, and rotates in the pump housing, which is fitted with a protective screen.



View of the material hopper, and the pump shaft contained within it.

4.3.2 Rotor/stator with mortar pressure gauge

The rotor and stator (see set "D", "R" or "HP") together form the rotary displacement pump. The vacuum creates a suction flow in the rotor/stator that presses the material which is continuously provided by the pump shaft, into the mortar hose. The mortar pressure gauge is used to monitor the delivery pressure.

DANGER **Excessively high operating pressure!**

Machine parts or hoses can spring open accidentally and injure the operator.

- Do not operate the machine without mortar pressure gauges.
- Before disconnecting the conveyor hoses, make sure that the hoses are depressurised. To do so, check the pressure indicator on the mortar pressure gauge. The pressure indicator must display 0 bar!
- Before opening the hose coupling, let the inoBEAM F30 run in reverse to reduce any pressure!
- Use only conveyor hoses which, depending on the set used, are permissible with an operating pressure of 40 bar (set "D" and "R") or 230 bar (set "HP"), and are in technically perfect condition (e.g. do not have any cracks or other external damage!).

HIGH PRESSURE

DANGER **Using the high-pressure hose.**

- Check the high-pressure hose before each use and replace any damaged hoses immediately.
- Never repair defective high-pressure hoses yourself.
- Avoid severely bending or kinking the high-pressure hose (smallest bending radius approx. 20 cm)
- Never pull on the high-pressure hose to move the machine.
- Never clean high-pressure hoses with solvents.
- Lay the high-pressure hose so that there is no risk of tripping and make sure that no one drives over the high-pressure hose.

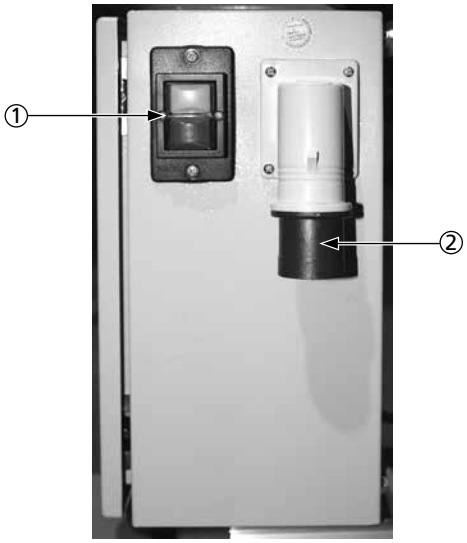
4.3.3 Drive unit

The spur gear motor drives the rotor/stator via the pump shaft.

4.3.4 Switching cabinet

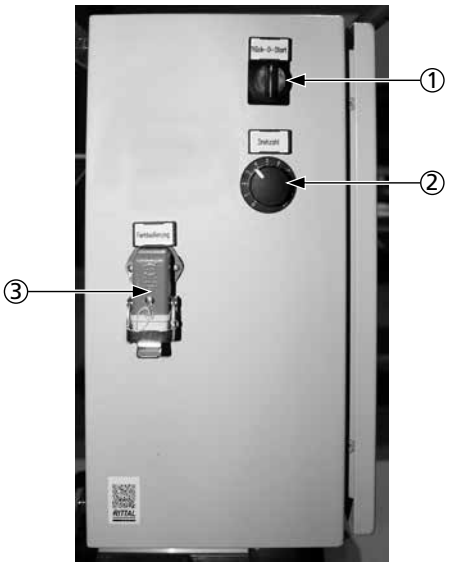
Connect the power supply plug on the switching cabinet (2) to the external power supply (230 V / 50 Hz). The cross-section of the supply cable must be at least 2.5 mm². The inoBEAM F30 may only be run with an approved FI circuit breaker (30 mA) RCD type B (30 mA).
The connection must be fused with 16 A. All the necessary connections and controls for operating the machine are located on the switching cabinet. It is firmly screwed to the frame of the machine.

4.4 Displays, controls and connections



Description of the displays, controls and connections

Item	Component
1	Main and emergency stop switch Green = ON, red = OFF
2	3-pole power supply plug CEE 230 V / 16 A / 50 Hz. Supply line: 230 V, 1 PH, 2.5 mm².



Description of the displays, controls and connections

Item	Component
1	- Pump ON "Start" - Pump OFF "0" - Reverse pump "Back"
2	Pump rotation speed. This rotary knob (potentiometer) is used to adjust the pump's rotation speed
3	Set "D" & "R": Connection for remote control Set "HP": Connection for control cable of mortar pressure sensor

NOTE

Working with and without remote control.

- When the remote control cable is plugged into the switching cabinet, the machine is switched on and off via the green push button at the end of the remote control cable.
- When operating the machine without remote control, the dummy plug on the switching cabinet must be plugged into the remote control socket – otherwise, the machine will not run.

4.4.1 Pump shaft

The pump shaft is connected to the motor via the drive shaft and rotates during operation in the pump hopper. The pump shaft is also connected to the rotor via a plug-in connection. The pump shaft can be pulled out for cleaning and maintenance work. Before removing the pump shaft, switch off the machine and pull out the mains plug.

4.4.2 Rotor / stator

The choice of rotor/stator depends on the set chosen (see scope of delivery, accessories or spare parts and diagrams) and the planned application.

- **Pump set "D"-F30**
  (rotor/stator D6-3 Eco Gold)
  for spray applications (18 l / 40 bar)
  Item no. 10041913
- **Pump set "R"-F30**
  (rotor/stator R7-1.5)
  for floor levelling compounds (50 l / 15 bar)
  Item no. 10043416
- **Pump set "HP"-F30**
  (rotor/stator spray)
  for airless spray-on smoothing compounds (8 l / 90 bar)
  Item no. 10041888

HIGH PRESSURE

DANGER

Replacing rotor/stator.
Dismantling may only be carried out by instructed persons.

- Ensure that the machine is depressurised. The pressure gauge must display 0 bar.
- Do not reach into the rotor when it is in motion.
- Wear tight-fitting clothes and take precautions with long hair.
- Wear safety goggles

1. Switch off the pump via the push button and pull out the mains plug.
2. Pull the plug out of the socket on the switching cabinet.
3. Loosen the three nuts on the pressure flange and set it aside.
4. Now replace the rotor/stator.
5. Replace the pressure flange and tighten the three nuts.
6. Insert the plug into the socket on the switching cabinet.

4.5 Operating modes

The inoBEAM F30 can be loaded with ready-mixed material from buckets or the feed pump can be combined, for example with the inoMIX S50 continuous mixer.

4.6 Accessories

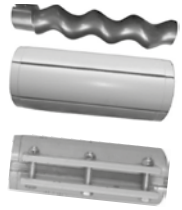
The following accessories can be supplied for the inoBEAM F30.

		Ø	Length:	Item no.	inoBEAM F30 set "HP"	inoBEAM F30 set "R"	inoBEAM F30 set "D"
	**Water/air hose** • For universal use, e.g. air, water • GEKA couplings crimped with sleeves on both sides **Technical data:** Max. operating pressure: 20 bar Temperature range: -20 up to +90°C	1/2″	10 m	**10022000**	✓	✓	—
		1/2″	15 m	**10022001**	✓	✓	—
		1/2″	20 m	**10022002**	✓	✓	—
	**Ultralight hose**	**Ø**	**Length**	**Item no.**			
	- with mortar coupling	25 mm	10 m	**10043874**	✓	✓	—
	**Inotec mortar hose** • Abrasion-resistant special hose for pumping highly pressurised wet mortar; largely kink-proof • For an operating pressure of 40 bar with 3 times the reliability • Yellow on the outside: less heat builds up in the event of sun exposure • With mortar hose couplings, M-piece and rotating V-piece (only with diameters of 25 mm) • With cam levers on the M-piece **Technical data:** Operating pressure: 40 bar / bursting pressure: 120 bar	**Ø**	**Length**	**Item no.**			
		25 mm	10 m	**10008346-001**	✓	✓	—
		25 mm	15 m	**10008346-002**	✓	✓	—
		25 mm	20 m	**10008346-003**	✓	✓	—
		35 mm	10 m	**10022032**	✓	✓	—
		35 mm	20 m	**10008346-007**	✓	✓	—
	**Inotec mortar hose** • Abrasion-resistant special hose for pumping highly pressurised wet mortar; largely kink-proof • For an operating pressure of 40 bar with 3 times the reliability • Black on the outside • With mortar hose, M-piece couplings and rotating V-piece (only at Ø 25 mm) • With cam levers on the M-piece **Technical data:** Operating pressure: 40 bar / bursting pressure: 120 bar	**Ø**	**Length**	**Item no.**			
		40 mm	13.3 m	**10041544**	✓	✓	—
		40 mm	20 m	**10041545**	✓	✓	—
	**Reprofiling spraying device**			**Item no.**			
	• Reprofiling spraying device, 35 V with nozzle pipe 12 mm, connection 35 V piece			**10023309**	✓	—	—
	• Nozzle pipe 12 mm			**10022789**	✓	—	—
	• Nozzle pipe 15 mm			**10022790**	✓	—	—
	**Flushing hose** • For clearing blockages in mortar hoses		**Length**	**Item no.**			
			10 m	**10024385**	✓	✓	—
	**230 V / 3 x 2.5 mm² connecting cable** • 16 A Schuko plug and CEE coupling		**Length**	**Item no.**			
			15 m	**10015126**	✓	✓	✓
	**3 x 2.5 mm²** cable reel made from impact-resistant plastic • Plastic cable reel with 33 m H07BQ-F3G2.5 cable • Robust impact-resistant design, all-round rollover protection • 4 European Schuko sockets (splashproof, with self-closing covers) • Protection class: IP44		**Length**	**Item no.**			
			33 m	**10044024**	✓	✓	✓
	**Wireless remote control** • Wireless remote control, 3-channels, with handheld transmitter, integrated antenna, 4-pole Harting plug with LED display • Only for devices with a control voltage of 24 - 42 V • Function: ON / OFF/ TEST			**Item no.**			
				10044303	✓	✓	—

				inoBEAM F30 set "HP"	inoBEAM F30 set "R"	inoBEAM F30 set "D"
	**Remote control cable with remote control switch**	**Length**	**Item no.**			
		16 m	**10042464**	✓	✓	—
		32 m	**10042465**	✓	✓	—
	**Remote control extension cable without remote control switch** • For remote control cable • For remote control switch • For inoCOLL / inoCOLL Pro one-handed gun	**Length**	**Item no.**			
		16 m	**10015210**	✓	✓	—
		32 m	**10042463**	✓	✓	—
	**Adapter for remote control cable**		**Item no.**			
	• m-tec plug – Harting socket		**10015121**	✓	✓	—
	• m-tec socket – Harting plug		**10015120**	✓	✓	—
	**Remote control switch** • With 0.2 m cable, indicator light and 4-pole Harting plug		**Item no.**			
			10015134	✓	✓	—
	**Hose holder** • For rapidly fixing hoses to the scaffold		**Item no.**			
			10018503	✓	✓	—
	**inoCOLL one-handed gun** • For bonding and basecoat mortars • Whip hose 2 m, Ø 19 mm with an LW 24 mortar connection coupling suitable for a 25 mm mortar hose • For particle sizes up to 1.5 mm		**Item no.**			
			10024144	✓	—	—
	**inoCOLL PRO one-handed gun** • For applying reinforcing mortar and finishing plaster up to 4 mm particle size • Operating pressure: up to 40 bar		**Item no.**			
			10041950	✓	—	—
	**Spray attachment for inoCOLL / PRO one-handed gun with GEKA air connection** • For spraying mineral and paste-like products • With 10 mm nozzle		**Item no.**			
			10039322	✓	—	—
	**Short spray pipe with mortar coupling 25 mm** Short, lightweight spray pipe with L24 coupling for spraying paste-like materials. Thanks to the special nozzle geometry, a small compressor (air flow rate from 200 l/min.) is sufficient to achieve a very good spray pattern. The air quantity can be regulated using the integrated mini ball valve. • For particle sizes up to 3 mm / • Suitable for a 25 mm mortar hose **Scope of delivery:** Short spray pipe with 2 m whip hose (diameter 19 mm), with mortar coupling 25 mm and 2 m air hose with GEKA coupling, without nozzles		**Item no.**			
			10039887	✓	—	—

				inoBEAM F30 set "HP"	inoBEAM F30 set "R"	inoBEAM F30 set "D"
	**Nozzles for:** **- Spray attachment for inoCOLL / PRO one-handed gun (10039322)** **- Short spray pipe with mortar coupling 25 (10039887)** **- Angled spray head with GEKA coupling (10039457)** **- Short spray pipe as a set (10039886)** • Made from stainless steel * For particle sizes up to 6 mm	**Ø**	**Item no.**			
		4 mm	**10039271**	✓	—	—
		5 mm	**10042461**	✓	—	—
		6 mm	**10039220**	✓	—	—
		8 mm	**10039221**	✓	—	—
		10 mm	**10039222**	✓	—	—
		13 mm*	**10040941**	✓	—	—
	**MAI finishing coat device,** straight • With 25 mm M-piece coupling • Including a 14 mm jet nozzle		**Item no.**			
			10024362	✓	—	—
	**Jet nozzle** • For MAI finishing coat device	**Ø**	**Item no.**			
		10 mm	**10024378**	✓	—	—
		12 mm	**10024379**	✓	—	—
		14 mm	**10024380**	✓	—	—
		16 mm	**10024381**	✓	—	—
	**Straight finishing coat device** • With 25 mm M-piece coupling • incl. 14 mm finishing coat nozzle		**Item no.**			
			10024098	✓	—	—
	**Finishing coat nozzles** • For finishing coat device, item no.: 10024098	**Ø**	**Item no.**			
		10 mm	**10024089**	✓	—	—
		12 mm	**10024090**	✓	—	—
		14 mm	**10024091**	✓	—	—
		16 mm	**10024093**	✓	—	—
	**Plastic material hopper** Material container hopper as an optional attachment for the pump hopper for increasing the container volume from 10 to 50 litres.		**Item no.**			
			10044178	✓	✓	✓
	**Cover for material hopper** • For protecting the contents of the hopper against impurities • Made from black plastic		**Item no.**			
			10041816	✓	✓	✓
	**Bag mangle** • For emptying plastic bags with paste-like materials		**Item no.**			
			10041971	✓	✓	✓
	**Straight decorative plaster spraying device** • Not including nozzle with 25 mm M-piece coupling • For particle sizes up to 6.0 mm		**Item no.**			
			10024246	✓	—	—
	**Nozzle for straight decorative plaster spraying device** • Made from stainless steel	**Ø**	**Item no.**			
		8 mm	**10024071**	✓	—	—
		10 mm	**10024065**	✓	—	—
		12 mm	**10024066**	✓	—	—
	**Air quantity controller with EWO couplings** • For precisely adjusting the air quantity when spraying. • Is connected between the air hose and spraying device.		**Item no.**			
			10017793	✓	—	—

				inoBEAM F30 set "HP"	inoBEAM F30 set "R"	inoBEAM F30 set "D"
	**Connecting coupling for compressors**		**Item no.**			
		EWO V-piece on GEKA	**10022353**	✓	—	—
	**Reducer coupling** • For connecting two mortar hoses or reducing the machine outlet.		**Item no.**			
		35 V-piece -> 25 V-piece	**10022101**	✓	✓	—
		42 M-piece -> 35 M-piece	**10022097**	✓	✓	—
		50 V-piece -> 35 M-piece	**10022100**	—	✓	—
	**Plaster piece with GEKA coupling** • For cleaning mortar hoses		**Item no.**			
		25 V-piece	**10022113**	✓	✓	—
		35 M-piece	**10022114**	✓	✓	—
		25 M-piece	**10022112**	✓	✓	—
		42 V-piece	**10042213**	✓	✓	—
		50 M-piece	**10022116**	✓	✓	—
	**Sponge balls (soft version)** • For cleaning material / mortar hoses	**Ball Ø** / **Hose Ø**	**Item no.**			
		14 mm / 13 mm	**10008116-001**	—	—	✓
		20 mm / 19 mm	**10008116-003**	✓	✓	✓
		30 mm / 25 mm	**10008116-004**	✓	✓	—
		45 mm / 35 mm	**10008116-005**	✓	✓	—
		60 mm / 40/50 mm	**10008116-006**	✓	✓	—
	**Sponge balls (firm version)** • For cleaning material / mortar hoses	**Ball Ø** / **Hose Ø**	**Item no.**			
		30 mm / 25 mm	**10008116-007**	✓	✓	—
		45 mm / 35 mm	**10008116-008**	✓	✓	—
	**230 V INOTEC Compact 330 compressor** The compact 230-volt compressor is ideal for many applications, such as spraying decorative coatings, plaster or bitumen, for operating compressed air tools, and for painting, etc. **Technical data:** Operating pressure: 10 bar Suction capacity: 330 l/min Output: 2.05 kW Dimensions (L x W x H): 396 x 473 x 598 mm Weight: 32 kg		**Item no.**			
			10034389	✓	—	—
	**Connection unit for 2 INOTEC Compact 330 compressors consisting of check valve and EWO coupling** - 2 x V parts - 1 x M-piece		**Item no.**			
			10019060	✓	—	—
	**KAESER 230 V Compressor Premium Car 450/30W** The compact 230-volt compressor is ideal for many applications, such as spraying decorative coatings, plaster or bitumen, for operating compressed air tools, and for painting, etc. **Technical data:** Operating pressure: 10 bar Suction capacity: 450 l/min Output: 2.2 kW Dimensions (L x W x H): 870 x 560 x 590 mm Weight: 86 kg		**Item no.**			
			10039227	✓	—	—

			inoBEAM F30 set "HP"	inoBEAM F30 set "R"	inoBEAM F30 set "D"
	**Set "HP"-F30** The **inoBEAM F30** delivery pump can be converted into a high-performance 230 V airless spraying device using an optional set and just a few, easy steps. A delivery rate of 7-8 l/min is achieved with 3.0 kW when processing spray-on filler. **Scope of delivery:** High pressure pump SPRAY, high pressure hose, airless gun, pressure and suction flange "HP", pressure control and tie rod "HP", nozzle holder, and nozzle	**Item no.**			
		10044242	—	—	✓
	**Set "R"-F30 (Rotor/Stator R7-1.5)** Ø 115 mm, 50 l/min, 15 bar, e.g., for floor levelling compounds **Scope of delivery:** Suction flange, pressure flange, mortar pressure gauge, rotor/stator R7-1.5, coupling M part 50 (2" IT), 2 x M16 nuts, 2 x M16 threaded rods (330 mm), 2 x M16 double nuts	**Item no.**			
		10043416	—	✓	—
	**Set "D"-F30 (Rotor/stator D6-3 Eco gold)** Ø 89 mm, 18 l/min, 40 bar, e.g., for spray applications **Scope of delivery:** Pressure and suction flange with tension rods, mortar pressure gauge, rotor/stator D6-3 Eco gold	**Item no.**			
		10041913	✓	—	—
	**Static mixers** • Prevents/destroys lumps in mortar • Diameter: 35 mm • Length: 200 mm • Including M-piece coupling 35 mm, and V-piece 35 mm	**Item no.**			
		10042362	—	✓	—
	**Rotor D4-½ output** • Head marked in green	**Item no.**			
		10022543	✓	—	—
	Stator D4-½ output, soft with clamping strip	**10022503**	✓	—	—
	**Rotor D6-3 "Eco Gold"** • Head marked in gold	**Item no.**			
		10022552	✓	—	—
	Stator D6-3 "Eco Gold" • Without twist protection, colour: gold	**10022509**	✓	—	—
	**Rotor R7-1.5**	**Item no.**			
		10022887	—	✓	—
	Stator R7-1.5 (maintenance-free)	**10022522**	—	✓	—
	Stator R7-1.5 with clamping strip	**10023395**	—	✓	—
	**Rotor D7-2.5 "S"**	**Item no.**			
		10022556	✓	—	—
	Stator D7-2.5 "Mono Plus" (maintenance-free)	**10042506**	✓	—	—
	**Rotor D8-1.5** • Head marked in yellow	**Item no.**			
		10022562	✓	—	—
	Stator yellow D8-1.5 (maintenance-free)	**10022517**	✓	—	—
	Stator yellow D8-1.5 with clamping strip	**10022519**	✓	—	—

		inoBEAM F30 set "HP"	inoBEAM F30 set "R"	inoBEAM F30 set "D"
	**Rotor SPRAY for inoBEAM F30 high pressure pump (HP)**			
	Item no.			
	10042467	—	—	✓
	**Stator SPRAY for inoBEAM F30 high pressure pump (HP)**			
	Item no.			
	10042466	—	—	✓
	**Assembly spray lubricant** • For assembling the rotor and stator • 400 ml			
	Item no.			
	10004591	✓	✓	✓

	**High-pressure / airless hoses**	**Diameter in mm**	**Connecting screw joint**	**Max. Operating pressure**	**Length**	**Item no.**			
		13	1/2" IT	260 bar	15 m	**10035852**	—	—	✓
		19	3/4" IT	230 bar	15 m	**10043715**	—	—	✓
	**INOTEC airless gun for inoBEAM F30 HP and AS Power** • Not including nozzle or nozzle holder, with robust stainless steel fasteners **Technical data:** Maximum pressure: 280 bar					**Item no.**			
						10012014	—	—	✓
	Not included in the scope of delivery:								
	• XHD nozzle holder					**10012096**	—	—	✓
	• XHD 651 nozzle (standard with inoSPRAY AS Power)					**10008021-009**	—	—	✓
	• Swivel joint					**10016849**	—	—	✓
	**Whip hose for inoBEAM Light high-pressure pump (HP)** • Length: 1.5 m					**Item no.**			
						10035854	—	—	✓
	**Graco RAC X nozzle holder for RAC X nozzles** Operating pressure: 280 bar Suitable for: Graco PAA, FFA, HDA, WA nozzles				**Connection thread**	**Item no.**			
					7/8"	**10012119**	—	—	✓
	**Graco HDA (HDA = Heavy Duty Application) nozzles for RAC X nozzle holders** • Colour: brown • E.g. for fillers, smoothing compound, fibrous materials, paints, etc., for indoor and outdoor applications		**Nozzle opening (inches, mm)**		**Throughput / opening angle**	**Item no.**			
			0.035", 0.889		4.98 l/min. / 40°	**10008017-003**	—	—	✓
			0.039", 0.991		6.78 l/min. / 40°	**10008017-004**	—	—	✓
			0.035", 0.889		4.98 l/min. / 50°	**10008017-007**	—	—	✓
			0.045", 1.090		8.20 l/min. / 50°	**10008017-008**	—	—	✓
			0.035", 0.889		4.98 l/min. / 60°	**10008017-011**	—	—	✓
			0.055", 1.397		12.29 l/min. / 60°	**10008017-015**	—	—	✓
	**Graco RAC X nozzle extension** • With 7/8" thread • With RAC X nozzle holder (not including nozzle)				**Length:**	**Item no.**			
					25 cm	**10007986-001**	—	—	✓
					50 cm	**10007986-003**	—	—	✓
					75 cm	**10007986-004**	—	—	✓
	**Tip-Clean nozzle cleaning set for airless nozzles** For quick and simple cleaning and preservation of airless nozzles.					**Item no.**			
						10012495	—	—	✓

				inoBEAM F30 set "HP"	inoBEAM F30 set "R"	inoBEAM F30 set "D"
	**Transition nipple** – This connection is rigid; does not rotate • For connecting a variety of hoses	**Type**	**Item no.**			
		3/4" ET x 1/2" IT	**10043718**	—	—	✓
	**Double nipple** • Hose connection – this connection is rigid; does not rotate	**Type** **max. pressure**	**Item no.**			
		1/4" ET x 1/4" ET 410 bar	**10022170**	—	—	✓
		1/4" ET x 3/8" ET 350 bar	**10012987**	—	—	✓
		3/8" ET x 3/8" ET 410 bar	**10012991**	—	—	✓
		1/2" ET x 3/4" ET 410 bar	**10043716**	—	—	✓
		1/2" ET x 3/8" ET 500 bar	**10022162**	—	—	✓
		1/2" ET x 1/2" ET 500 bar	**10022161**	—	—	✓

4.7 Spare parts and diagrams

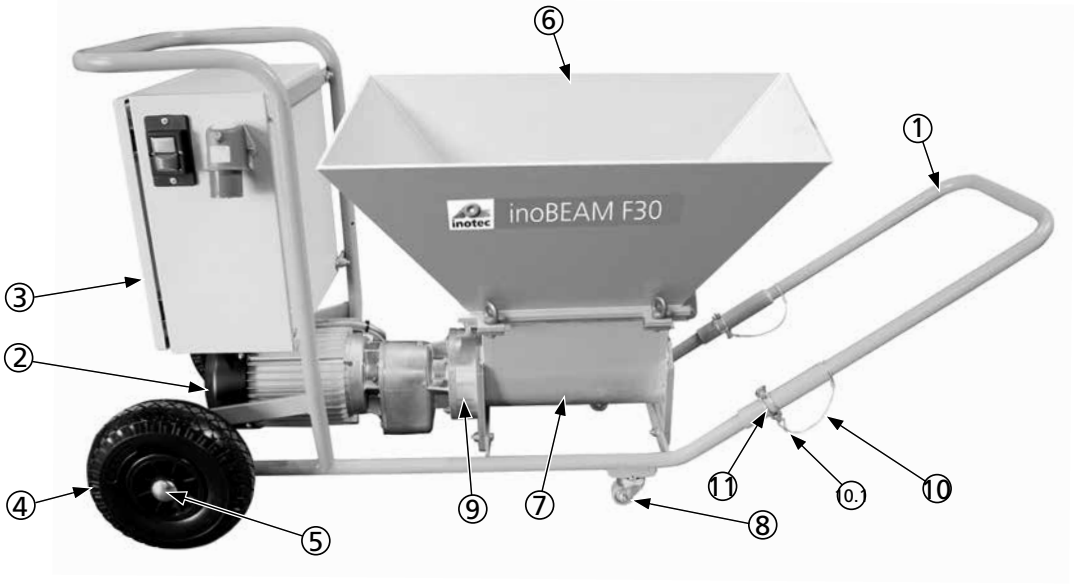
The spare parts for the inoBEAM F30 are designated with numbers in the following images. The individual items are described in the table under the respective diagrams.

Description of the table columns:

Item: Corresponds to the number in the drawing designating a spare part.
Item no.: INOTEC item number.
Installation quantity: number of parts of this item when installed in the original inoBEAM F30.
UQ: Unit of quantity of this item.
Name: Name of the spare part.

NOTE **Use the order form at the end of this operating manual to order spare parts.**

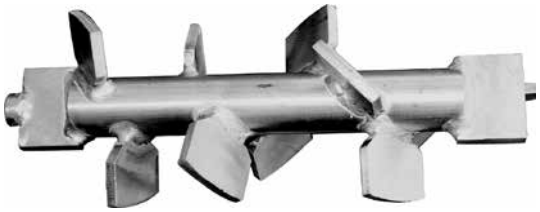
4.7.1 Overview of Basic module inoBEAM F30



Item	Item no.	Installation quantity	UQ	Name
1	10036534	1.00	Units	Frame complete
2	10043189	1.00	Units	Spur gear motor, 3 kW with taper roller bearing
3	10044182	1.00	Units	Complete switching cabinet
4	10041185	2.00	Units	Black wheel, puncture-free
5	10006192	2.00	Units	Starlock cap for wheel
6	10040973	1.00	Units	Plastic hopper, 50 litres
7	10041066	1.00	Units	Pump hopper with protective screen
7a	10006177	1.00	Units	Pump shaft in pump hopper
8	10044140	2.00	Units	Swivel castors with bolt hole
9	10043950	1.00	Units	Sealing unit for drive
10	10016824	0.60	m	Steel cable, galvanised, PVC coated 2 mm
10.1	10018183	4.00	Units	Press clamp for steel cable 2 mm
11	10041089	2.00	Units	Pipe connector d=5.5mm galv.
	10041724	1.00	Units	Schuko/CEE connecting cable
	10040818	1.00	Units	Tool set, for inoBEAM / inoCOMB
	10041816	1.00	Units	Cover for plastic hopper inoBEAM F30 60l
	10004591	1.00	Can	Assembly, spray lubricant special/400 ml can
	10036474	1.00	Units	Nozzle housing HAN 6 high-angled, size 44.27

	10016251	1.00	Units	Pin insert HAN 6E
	10011731	1.00	Units	Cable gland M20 x 1.5, PA
	10015566	1.00	Units	Locknut M 25 x 1.5, metal
	10004628	16.00	Units	Galvanised M 8 self-locking nut
	10004616	1.00	Units	M 8 nut, DIN934
	10005387	3.00	Units	Galvanised M 8 x 30 screw
	10005388	1.00	Units	Galvanised M 8 x 40 screw
	10040120	5.00	Units	Toothed contact wheel, galvanised, Ø 8.2 mm
	10004647	13.00	Units	8.4 mm washer, galvanised DIN125A
	10004619	4.00	Units	M 8 nut, A2, DIN934
	10005290	4.00	Units	M 8 x 20 countersunk screw, V4A DIN7991
	10042133	1.00	Units	Flat seal for suction flange
	10043417	1.00	Units	Motor connection cable, without plug
	10006526	2.00	Units	Reduction metal M 25 x 1.5 - M 20 x 1.5

4.7.2 Pump shaft



Pump shaft				
Item	**Item no.**	**Installation quantity**	**UQ**	**Name**
1	10006177	1	Units	Pump shaft

4.7.3 Rotor/stator

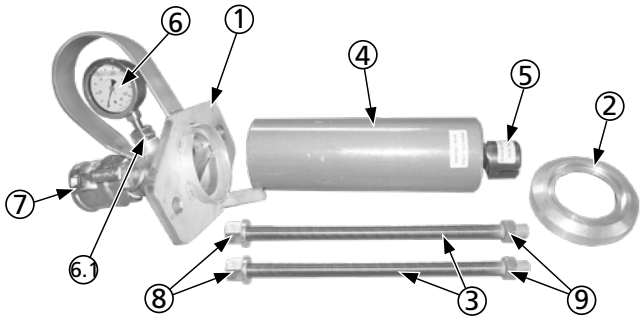
Set “D“

Set “R“

Set “HP“

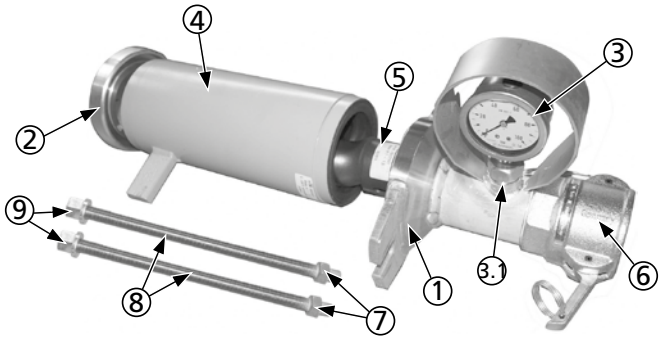
Rotor/stator depending on pump set and application				
Item	**Item no.**	**Installation quantity**	**UQ**	**Name**
1	10022552	1	Units	Set “D”: rotor D6-3 “Eco-Gold” head marked gold
2	10042509	1	Units	Set “D”: stator D6-3 “Eco-Gold” without rotation lock, colour gold
3	10022887	1	Units	Set “R”: Rotor R7-1.5
4	10022522	1	Units	Set “R”: stator R7-1.5 (maintenance-free)
5	10044018	1	Units	Set “HP”: Rotor 2R6
6	10044019	1	Units	Set “HP”: Stator 2R6

4.7.4.1 Pump set “D”-F30 (Item no. 10041913)



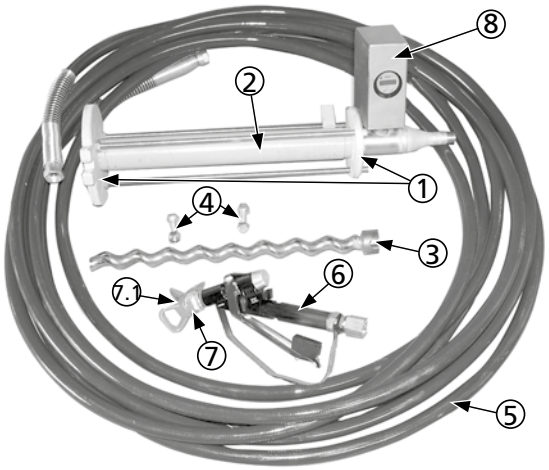
Item	Item(s)	Item (name)	Quantity
1	10036984	Straight pressure flange especially for D coating	1 pcs.
2	10006054	Suction flange D coating	1 pcs.
3	10043108	Tension anchor	2 pcs.
4	10022509	Stator D6-3 Eco-Gold	1 pcs.
5	10022552	Rotor D6-3 Eco Gold	1 pcs.
6	10038745	Mortar pressure gauge	1 pcs.
6.1	10041938	Copper sealing ring	1 pcs.
7	10022060	M-piece coupling 35, 11½, IT	1 pcs.
8	10005228	Galvanised M 16 collar nut	2 pcs.
9	10004834	M16 nut	2 pcs.

4.7.4.2 Pump set “R”-F30 (Item no. 10043416)



Item	Item(s)	Item (name)	Quantity
1	10043385	Pressure flange especially for R coating	1 pcs.
2	10041057	Suction flange for R coating	1 pcs.
3	10038745	Mortar pressure gauge	1 pcs.
3.1	10041938	Copper sealing ring	1 pcs.
4	10022522	Stator R7-1.5	1 pcs.
5	10022887	Rotor R7-1.5	1 pcs.
6	10022052	M-piece coupling 50, (2“ IT)	1 pcs.
7	10004834	M16 nut	2 pcs.
8	10043108	Tension anchor	2 pcs.
9	10005228	Galvanised M 16 collar nut	2 pcs.

4.7.4.3 Pump set “HP”-F30 (Item no. 10044242)



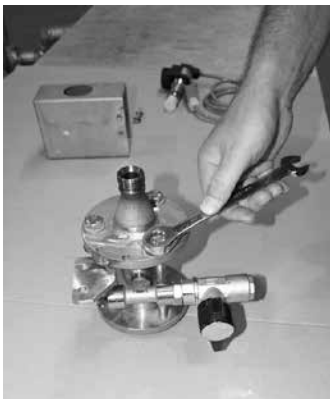
Item	Item(s)	Item (name)	Quantity
1	10044239	Pump unit set incl. straight pressure flange for HP coating, tie rod and suction flange for HP coating	1 pcs.
2	10042466	Stator spray	1 pcs.
3	10042467	Rotor spray	1 pcs.
4	10005408	M16 x 25 screw	2 pcs.
4.1	10004902	17 mm washer	1 pcs.
5	10035852	High-pressure hose, 15 m, 1/2“	1 pcs.
6	10012014	Airless gun	1 pcs.
7	10012119	RAC X nozzle holder, 7/8“	1 pcs.
7.1	10008017 -018	HDA nozzle 543	1 pcs.
8	10042210	Pressure transmitter	1 pcs.

4.7.4.4 Assembly: Pressure flange with check valve

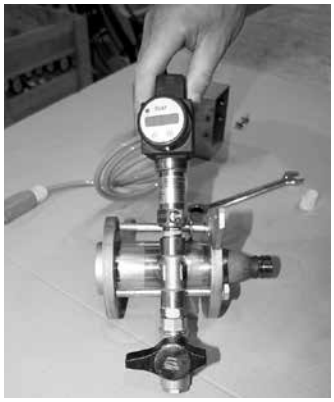
1. Insert the paint strainer in the centre piece. Then place the centre piece on the pressure flange with the check valve.

2. Insert the copper gasket into the outlet flange and place it on the centre piece.

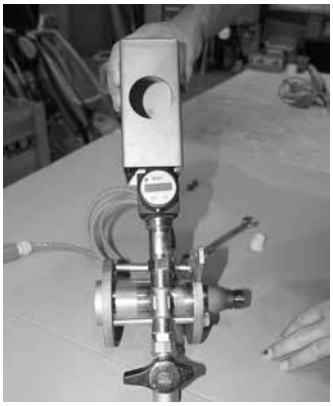
3. Insert the three screws (M10 x 120)...



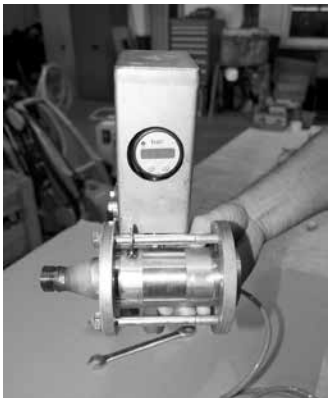
... and tighten with 60 Nm.



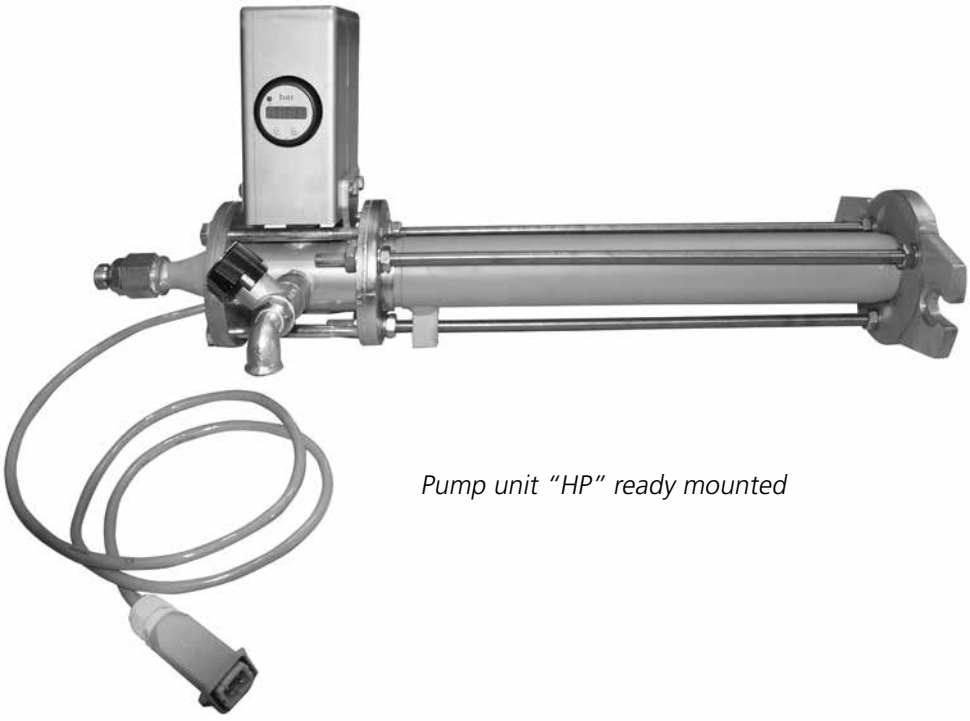
4. Screw the pressure sensor onto the pressure gauge receptacle.



5. Slide the housing over the pressure sensor.



... and connect it to the housing bracket on the outlet flange with two screws (M6 x 20)

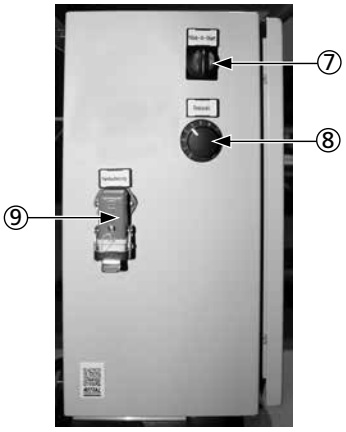


Pump unit "HP" ready mounted

4.7.5 Drive unit

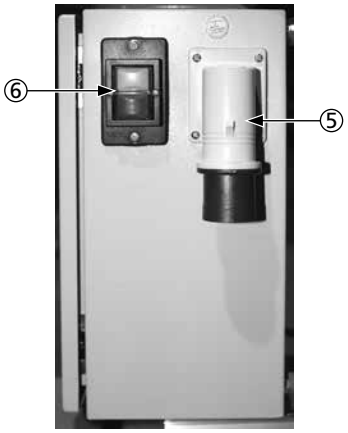
Complete drive unit				
Item	**Item no.**	**Installation quantity**	**UQ**	**Name**
-	10043189	1	Units	Spur gear motor, 3 kW with taper roller bearing

4.7.6 Switching cabinet/control system



View of the switching cabinet from the left-hand side

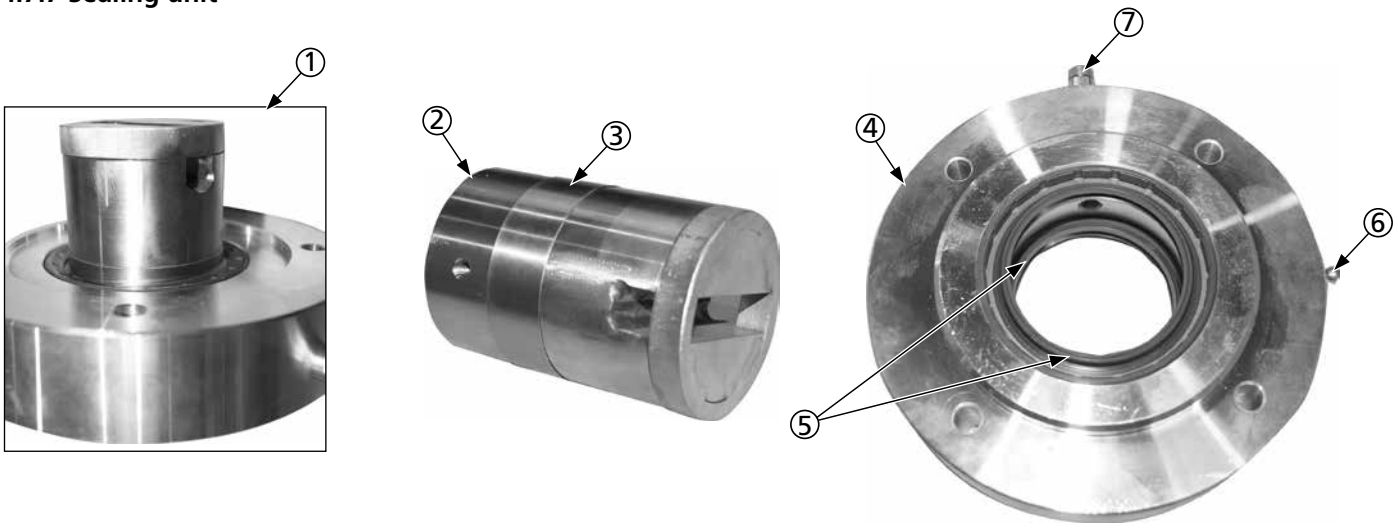
View of the switching cabinet with the door open



View of the switching cabinet from the right-hand side

Complete switching cabinet/control system				
Item	**Item no.**	**Installation quantity**	**UQ**	**Name**
-	10044182	1	Units	Switching cabinet inoBEAM F30
1	10016010	1	Units	Mains filter
2	10015549	1	Units	Frequency inverter
3	10044150	1	Units	Power supply unit
4	10044320	1	Units	Circuit breaker 1 AD
5	10042076	1	Units	CEE attachment plug
6	10044321	1	Units	Built-in switch K100 1Ph
7		1	Units	Selector switch forwards/backwards
7.1	10044322	1	Units	Toggle switch
7.2	10043987	1	Units	Bracket
7.3	10016088	2	Units	Switching element, normally open
7.4	10044017	1	Units	LED module
8	10016056	1	Units	Potentiometer
9		1	Units	Remote control socket
9.1	10015616	1	Units	Mounted housing
9.2	10015398	1	Units	Socket insert
9.3	10016252	1	Units	Pin insert with enclosure cover

4.7.7 Sealing unit



Sealing unit				
Item	**Item no.**	**Installation quantity**	**UQ**	**Name**
1	10043950	1	Units	Complete sealing unit between motor and pump hopper
2	10007709	1	Units	Stainless steel drive shaft
3	10043949	1	Units	SKF protective sleeve for shaft, d = 59.99 mm
4	10043948	1	Units	Intermediate flange
5	10004162	2	Units	Shaft-sealing ring 60 x 80 x 8 mm with dust lip
6	10005131	1	Units	Straight M 6 grease nipple
7	10042456	1	Units	M8 venting screw x 1 for armoured seal

NOTE

Use the order form at the end of this operating manual to order spare parts.

5 Transport and storage

5.1 Safety notices for transport

Slipping machine
Danger of death for drivers and transport users.

- Ensure that the machine is in a secure position during transport.
- Secure the machine against slipping.

Risk of injury posed by carrying or lifting machine

- The machine weighs over 85 kg. To prevent overloading and damaging the spine, at least 2 people must lift or carry the machine.

Leaking material residue

- Clean the machine before transport.

5.2 Transport inspection

Check the machine to ensure that all components are present and for transport damage immediately upon receipt.

- Do not leave any parts in the packaging.

5.3 Damage report

Proceed as follows in the event of externally visible transport damage:

1. Write a damage report with the following details:
   - Your client address
   - Name of the transport company and the driver
   - Date and time of the delivery
   - Order number and machine name according to the delivery note
   - Description of the damage
   - Signature of the driver
   - Signature of the recipient at the customer's premises
2. Have the transport damage confirmed by means of the driver's signature.
3. Send one copy of the damage report to the transport company and another to Inotec GmbH.
4. And clarify the possible ways in which the damage could be remedied with one of our service centres.

5.4 Complaints

Claims for compensation relating to transport damage can only be made if the delivery company is informed of the same without undue delay.

5.5 Packaging

The new machine will be shipped cellophane-wrapped on a Euro pallet.

- Dispose of the packaging material as required by law.

5.6 Storage

If the machine is not likely to be used for an extended period of time, thorough cleaning will be required.

Store the machine under the following environmental conditions:

- Dry
- Frost-free
- Protected from dust
- Protected against corrosion (e.g. salt water)

6 Commissioning

Observe the following notices when assembling and positioning the device:

6.1 Safety during installation

DANGER **Electrical voltage.**

Danger of death due to electric shock.

- Work on the electronic control system may only be performed by a qualified electrician.
- Switch off the machine and pull out the mains plug.
- Secure the machine against unexpectedly being switched back on.

DANGER **Rotating shafts.**

Danger of death due to being pulled into the machine and crushed.

When the motor is running, the pump shaft rotates in the material hopper!

- Do not reach into the rotating shaft.
- Do not place any objects into the rotating shaft.

DANGER **Pressurised conveyor hoses.**

Risk of injury and risk of property damage due to escaping and/or flying material, and/or bursting conveyor hoses!

- Before disconnecting the conveyor hoses, make sure that the hoses are depressurised. To do so, check the pressure indicator on the mortar pressure gauge. The pressure indicator must display 0 bar!
- Before opening the hose coupling, let the inoBEAM F30 run in reverse to reduce any pressure!
- Use only conveyor hoses which, depending on the set used, are permissible with an operating pressure of 40 bar (set "D" and "R") or 230 bar (set "HP"), and are in technically perfect condition (e.g. do not have any cracks or other external damage!).

6.2 Installation location requirements

- Ensure that there is enough space around the machine to enable filling of the material hopper and machine operation.
- Install the inoBEAM F30 on an even and horizontal surface.
- Prevent the machine from sliding on uneven terrain by locking the wheels.
- Cover the floor underneath the machine with a plastic sheet, if it is not on a firm, tarmacked surface.
- Keep the machine in a dry, protected area in wet weather.
- Prevent direct exposure to sunlight, especially while in continuous operation, in order to prevent the motor from overheating.

6.3 Delivery condition of the machine

The inoBEAM F30 is shipped without the pump shaft inserted or rotor/stator pre-assembled.

6.4 Assembling the pump shaft, rotor/stator and mortar pressure gauge

1. Push the pump shaft into the pump hopper.
2. Connect the rotor/stator and the suction flange to the pump shaft.
3. Assemble the pressure flange with the mortar pressure gauge and hose connection to the rotor/stator and lock the two tie rods in place with the nuts (set "D" and "R"). The "HP" set is attached with two M16 x 25 mm screws.

6.5 Connecting the power supply

- Only connect the pump to regulation construction site power distribution points with type B FI circuit breakers (30 mA).
- The connection must be fused with 16 A.
- The cross-section of the supply cable is at least 2.5 mm^2 at 230 V 1 PH.
- Connect the supply cable to the 3-pole feed supply CEE plug (230 V / 16 A).

3-pole 230 V / 16 A feed supply CEE plug (right) on the switching cabinet

7 Operation, use

7.1 Safety during operation

Electrical voltage.
Danger of death due to electric shock.

- Work on the electronic control system may only be performed by a qualified electrician.
- Switch off the machine and pull out the mains plug.
- Secure the machine against unexpectedly being switched back on.

Rotating shafts.
Danger of death due to being pulled into the machine and crushed.
When the motor is running, the pump shaft rotates in the material hopper!

- Do not reach into the rotating shaft.
- Do not place any objects into the rotating shaft.

Pressurised conveyor hoses.
Risk of injury and risk of property damage due to escaping and/or flying material, and/or bursting conveyor hoses!

- Before disconnecting the conveyor hoses, make sure that the hoses are depressurised. To do so, check the pressure indicator on the mortar pressure gauge. The pressure indicator must display 0 bar!
- Before opening the hose coupling, let the inoBEAM F30 run in reverse to reduce any pressure!
- Use only conveyor hoses which, depending on the set used, are permissible with an operating pressure of 40 bar (set "D" and "R") or 230 bar (set "HP"), and are in technically perfect condition (e.g. do not have any cracks or other external damage!).

7.2 Activities before use

7.2.1 Preparing the machine (pump set "D" and "R")

1. Connect the mortar hose with the quick-release coupling to the hose connection of the mortar pressure gauge by closing both cam levers.
2. Fill approx. 2 to 3 litres of lime milk or wallpaper paste into the material hopper as pre-lubrication.
3. Switch on the machine by pressing the main switch (green button).
4. Switch on the pump by turning the switch to "Start" and allow the pre-lubrication to flow from the material hose into a bucket or suitable container. Ensure that the pump does not run dry, otherwise the service life of the rotor/stator will be shortened.
5. Switch the pump off by turning the switch to "0".
6. If necessary, extend the mortar hose and air hose to the desired delivery range.
7. Assemble the appropriate spray head or a one-handed gun to the end of the mortar hose and connect the air hose to the spray head.
8. Fill the material hopper with the paste-like material to be processed.
9. Switch off the machine by pressing the main switch (red button).

Functionality with remote control cable

10. Take the dummy plug out of jack for the remote control cable and insert the remote control cable into the contact.
11. Connect the remote control cable to the material hose and the air hose of the compressor using adhesive tape or cable ties.

7.2.2 Preparing the machine (pump set "HP")

1. Connect the high-pressure hose to the screw connection on the hose connection of the mortar pressure gauge and tighten it firmly.
2. Then attach the spray gun to the other end of the hose with the screw connection and tighten it firmly.
3. Connect the green control cable of the mortar pressure gauge to the remote control connector on the machine's switching cabinet. (The pressure control is factory-set and automatically switches the pump off when it reaches 90 bar or on again when it falls below 75 bar).
4. Fill the material hopper with the paste-like material to be processed.

WARNING **Operation without any material or with too little material.**
Danger of destroying the rotor/stator.
If the machine is operated without any material or with too little material, there is a risk of the rotor/stator being destroyed within an extremely short period of time (< 1 min.)!

NOTE **Choosing the right mortar hose (length and diameter) for the pump sets "D" and "R".**
The delivery range depends on the flowability of the mortar to be processed. The conveying properties change depending on the heaviness and sharpness of the material.

7.2.3 Adding material to the material hopper

The material must at least just about cover the pump shaft.

WARNING **Risk to health due to escaping material.**

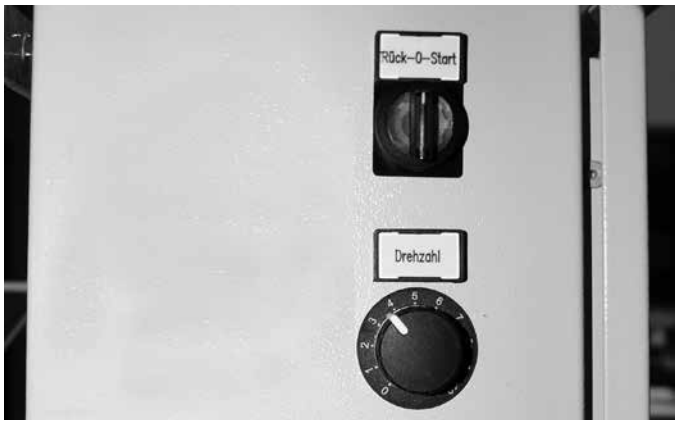
When using material from buckets, the material may splash while filling the material hopper, and also cause injuries, especially in the region of the eyes and face.

- Always wear safety goggles.
- Dispose of the empty buckets and other packaging material in an environmentally friendly manner in accordance with the instructions provided by the packaging manufacturer.

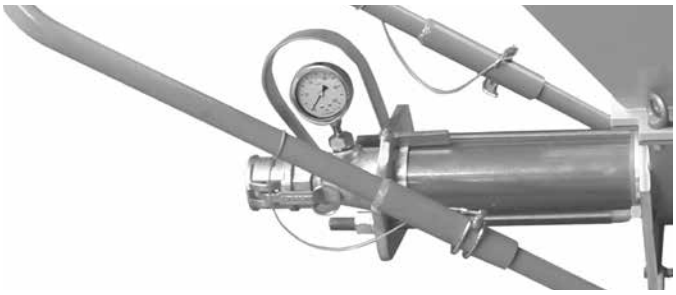
7.3 Activities during operation

7.3.1 Preparing and starting the conveying process (pump sets "D" and "R")

1. Switch on the machine by pressing the main switch (green button).
2. Start the pumping process by setting the switch on the switching cabinet to "Start".
3. Regulate the pump rotation speed or desired material quantity by means of the rotary knob on the switching box. Let the material flow back into the material hopper until the desired pump rotation speed is reached.



The continuously variable setting of the potentiometer (bottom) goes from 0 to 10.

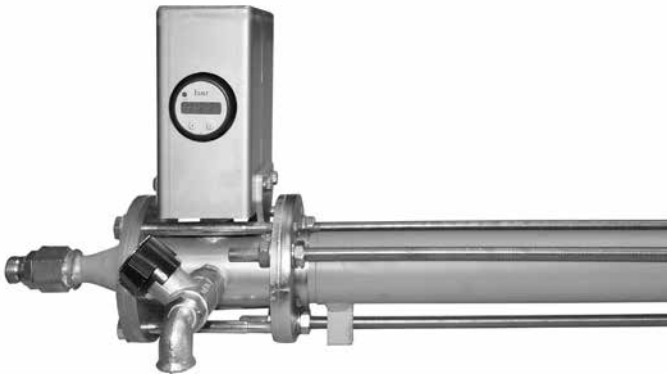


The mortar pressure gauge is used to monitor the delivery pressure (pump sets "D" and "R")

7.3.2 Preparing and starting the conveying process (pump set "HP")

HIGH PRESSURE

1. Switch on the machine by pressing the main switch (green button).
2. Start the pumping process by setting the switch on the switching cabinet to "Start".
3. Hold the spray gun over an empty bucket, unlock the gun and pull the trigger.
4. Regulate the pump rotation speed or desired material quantity by means of the rotary knob (potentiometer) on the switching cabinet. Let the material flow into the bucket or back into the material hopper until the desired pump rotation speed is reached.
5. As soon as the pumpable material comes out of the spray gun and has the right consistency, release the trigger.
6. Switch the pump off by turning the switch to "0".
7. Release the pressure from the system by pulling the trigger on the spray gun.
8. Secure the spray gun.
9. Screw the nozzle holder and selected nozzle onto the spray gun and tighten it firmly.
10. Switch the pump back on. The machine is now ready for operation.



The pressure control of the mortar pressure gauge (pump set "HP") is factory-set and automatically switches the pump off when it reaches 90 bar or on again when it falls below 75 bar.

7.3.3 Conveying process during operation

The motor starts up. The material is transported into the rotor/stator via the pump shaft. From there, it is conveyed further into the conveyor hoses. The mortar pressure gauge at the transition to the hose displays the delivery pressure.

7.3.4 Starting the spraying process (pump sets "D" and "R")

1. Open the valve on the air hose.
2. Open the ball valve on the spray head.
3. To switch on the pump, press the green pressure switch on the remote control cable.

- No compressor (compressed air) or spraying head are required for pumping e.g. floor levelling compounds.
- When using a one-handed gun – e.g. for applying adhesive to ETICS boards – the machine is switched on or off by pulling the trigger of the gun.

7.3.5 Starting the spraying process (pump set "HP")

HIGH PRESSURE

1. Set the desired working pressure with the rotary knob (potentiometer) on the switching cabinet.
2. Pull the trigger on the spray gun to start the pump.

HIGH PRESSURE

Spraying technique.

1. During spraying, guide the spray gun at an even distance (20 - 30 cm) from the object (otherwise the spray pattern will be irregular).
2. The spray pattern depends on the following parameters:
   - Pumpable material
   - Viscosity
   - Nozzle size
   - Working pressure
3. Test the desired structure on a sample surface.
4. Make sure that the lateral boundary of the spray jet is not too acute. During the next spray, the material will overlap and match this boundary to the spray pattern.

NOTE

Sharp grains and pigments cause the pump, high-pressure hose, spray gun and nozzle to wear.

7.3.6 Checking operating performance

1. If you notice any deviations in the operating behaviour, decommission the inoBEAM F30 immediately.
2. Ensure that the damage and/or defects which led to the deviating operating behaviour are rectified.

7.3.7 Topping up material

The inoBEAM F30 can be fed with a pre-made paste-like material from buckets or using an upstream continuous mixer, e.g. an inoMIX S16 or S50. In both cases, ensure that there is always a sufficient amount of pumpable material in the pump hopper!

Operation without any material or with too little material.
Danger of destroying the rotor/stator.
If the machine is operated without any material or with too little material, there is a risk of the rotor/stator being destroyed within an extremely short period of time (< 1 min.)!

7.3.8 Changing material

Before changing material, clean the inoBEAM F30 and all the accessories.

7.3.9 Change of location on the construction site

The inoBEAM F30 is equipped with two wheels, two swivel castors and an extended handle on the frame. The inoBEAM can, therefore, be moved on the construction site conveniently.

Changing location can put the safety of operating staff at risk and impair the functionality of the machine.

1. Switch off the machine and pull out the mains plug.
2. Always install the machine in such a way that it is level and stable.
3. Secure the machine against undesirable movements.
4. Reconnect the machine to the external power supply before restarting the machine.

7.3.10 Work break/end of work

If the duration of a work break exceeds the setting time of the material to be processed, there is a risk of the material setting during the break (observe the ambient temperature).

1. Whenever spraying is interrupted, release the trigger and secure the spray gun.
2. Switch the machine off.
3. Release the residual pressure from the gun until the pressure indicator on the pressure gauge shows zero bar.

7.3.11 Cleaning the machine

1. Run the inoBEAM F30 and accessories used (e.g. material conveyor hoses) until they are empty.
2. Switch off the delivery pump and pull out the mains plug.
3. Clean the machine and accessories.

8 Areas of application

	inoBEAM M8	inoBEAM F12	inoBEAM F30	inoBEAM F50
Airless spray-on filling compounds			With set "HP"	
Outdoor / indoor dispersion paint Silicate paint *			With set "HP"	
Fine acoustic finishing coats				
Acoustic renovation paint				
Multi-layer acoustic spray plasters				
Cotton plasters				
Concrete bonder				
Bitumen				
Floor filling compounds				
Fire protection mortar				
Decorative fine coats				
Liquid woodchip				
Floor levelling compounds				
Porous concrete coats				
Lime-based finishing plasters				
Lime plasters				
Lime cement plasters				
Mineral textured plasters				
Paste-like textured plasters				
Plaster primer				
Reprofiling mortar				
Renovating plaster systems				
SPCC Mortar				
SPCC filler				
Spray-on filling compounds				
ETICS glue, mineral				
ETICS glue, paste-like				
Cement pastes, suspensions				
Cement plasters				

9. Cleaning

9.1 Safety during cleaning

Electrical voltage.
Danger of death due to electric shock.

- Work on the electronic control system may only be performed by a qualified electrician.
- Switch off the machine and pull out the mains plug.
- Secure the machine against unexpectedly being switched back on.

Rotating shafts.
Danger of death due to being pulled into the machine and crushed.
When the motor is running, the pump shaft rotates in the material hopper!

- Do not reach into the rotating shaft.
- Do not place any objects into the rotating shaft.

Pressurised conveyor hoses.
Risk of injury and risk of property damage due to escaping and/or flying material, and/or bursting conveyor hoses!

- Before disconnecting the conveyor hoses, make sure that the hoses are depressurised. To do so, check the pressure indicator on the mortar pressure gauge. The pressure indicator must display 0 bar!
- Before opening the hose coupling, let the inoBEAM F30 run in reverse to reduce any pressure!
- Use only conveyor hoses which, depending on the set used, are permissible with an operating pressure of 40 bar (set "D" and "R") or 230 bar (set "HP"), and are in technically perfect condition (e.g. do not have any cracks or other external damage!).

9.2 Cleaning process (pump set "D")

1. Close the air valve and run the machine's material hopper over a suitable receptacle container until it is empty.
2. Press the green button on the remote control cable to switch on the machine and close the ball valve on the spray head.
3. Then fill the material hopper with water and remove any adhering material (e.g. with a brush)
4. Press the green button on the remote control cable to switch on the machine.
5. Open the ball valve on the spray head until water comes out of the spray head.
6. Close the ball valve on the spray head and press the green button on the remote control cable to switch off the machine.
7. Open the screw connection on the spray head and remove the nozzle.
8. Clean the nozzle with a sponge or a cleaning brush.
9. Uncouple the quick-release coupling on the hose connection by opening both cam levers. Put a sponge ball into the hose and then reconnect the material hose.
10. Add some more water to the material hopper. Open the ball valve on the spray head. Start the pump process by pressing the green button on the remote control cable. The sponge ball is carried through the material hose by the water and removes any adhering residual material from the walls of the material hose.
11. Once the sponge ball has emerged from the spray head, turn the switch to "0" to stop the pump process.
12. Repeat the cleaning process with the sponge ball up to twice depending on how dirty the machine is.
13. Insert the cleaned nozzle back into the spray head and close the screw connection.
14. Disassemble the component with the rotor/stator.
15. Screw the rotor out of the stator and store it in a dry location after cleaning.
16. Before reassembly, coat both the rotor and the stator generously with assembly spray lubricant (item no. 10004591) in order to make it easier to screw the rotor into the stator. Ensure that the rotor is correctly installed in the stator.

9.3 Cleaning process (pump set “R”)

1. Run the material hopper over a suitable receptacle container until it is empty, and 0 bar is displayed on the pressure indicator on the mortar pressure gauge
2. Then fill the material hopper with water and remove any adhering material (e.g. with a brush)
3. Uncouple the quick-release coupling on the hose connection by opening both cam levers. Put a sponge ball into the hose and then reconnect the material hose.
4. Add some more water to the material hopper. Open the ball valve on the spray head. Start the pump process by turning the switch to “Start”. The sponge ball is carried through the material hose by the water and removes any adhering residual material from the walls of the material hose.
5. Once the sponge ball has emerged from the spray head, turn the switch to “0” to stop the pump process.
6. Repeat the cleaning process with the sponge ball up to twice depending on how dirty the machine is.
7. Disassemble the component with the rotor/stator.
8. Screw the rotor out of the stator and store it in a dry location after cleaning.
9. Before reassembly, coat both the rotor and the stator generously with assembly spray lubricant (item no. 10004591) in order to make it easier to screw the rotor into the stator. Ensure that the rotor is correctly installed in the stator.

9.4 Cleaning process (pump set “HP”)

1. Run the material hopper over a suitable receptacle container until it is empty. Do not allow the pump to run dry.
2. Stop the pumping process by turning the switch on the switching cabinet to “0”.
3. Release the residual pressure from the material hose/system by pulling the trigger on the spray gun until the pressure indicator on the pressure gauge shows 0 bar.
4. Secure the trigger on the spray gun.
5. Remove the nozzle holder with the nozzle.
6. Then fill the material hopper with water and remove any adhering material (e.g. with a brush).
7. Stop the pumping process by turning the switch on the switching cabinet to “Start”.
8. Hold the spray gun over an empty bucket and pull the trigger of the gun.
9. Pump the remaining material into the bucket until only thin material or water comes out.
10. Release the trigger on the spray gun.
11. Stop the pumping process by setting the switch on the switching cabinet to “0”.
12. Release the residual pressure from the material hose/system by pulling the trigger on the spray gun until the pressure indicator on the pressure gauge shows 0 bar.
13. Secure the trigger on the spray gun.
14. Switch off the pump at the main switch (push button).
15. Disassemble the component with the rotor/stator.
16. Screw the rotor out of the stator and store it in a dry location after cleaning.
17. Before reassembly, coat both the rotor and the stator generously with assembly spray lubricant (item no. 10004591) in order to make it easier to screw the rotor into the stator. Ensure that the rotor is correctly installed in the stator.

NOTE

Carry out this cleaning process before any longer breaks from work (> 0.5 hours).

9.5 Decommissioning

1. Clean the machine.
2. Remove the remote control cable on the switching cabinet and insert the dummy plug.
3. Switch the machine off.
4. Pull out the mains plug.

10 Maintenance

Have the machine inspected once a year by a specialist workshop. Replace parts which are subject to wear as soon as the wear limits have been reached. Portable machines, like the inoBEAM F30, must be subject to an annual electrical inspection according to the implementing regulation for electrical plant and operating resources (DGUV V3). This inspection may only be carried out by a qualified electrician (e.g. electrical engineer, electrical technician, master electrician, senior electrician, foreman electrician or assistant electrician). Electrical specialists work at all INOTEC service centres, conducting electrical inspections in line with DGUV V3. To arrange an inspection, call the INOTEC service hotline on +49 7741 6805 777.

10.1 Safety during maintenance work

Electrical voltage.
Danger of death due to electric shock.

- Work on the electronic control system may only be performed by a qualified electrician.
- Switch off the machine and pull out the mains plug.
- Secure the machine against unexpectedly being switched back on.

Rotating shafts.
Danger of death due to being pulled into the machine and crushed.
When the motor is running, the pump shaft rotates in the material hopper!

- Do not reach into the rotating shaft.
- Do not place any objects into the rotating shaft.

Pressurised conveyor hoses.
Risk of injury and risk of property damage due to escaping and/or flying material, and/or bursting conveyor hoses!

- Before disconnecting the conveyor hoses, make sure that the hoses are depressurised. To do so, check the pressure indicator on the mortar pressure gauge. The pressure indicator must display 0 bar!
- Before opening the hose coupling, let the inoBEAM F30 run in reverse to reduce any pressure!
- Use only conveyor hoses which, depending on the set used, are permissible with an operating pressure of 40 bar (set "D" and "R") or 230 bar (set "HP"), and are in technically perfect condition (e.g. do not have any cracks or other external damage!).

WARNING **Maintenance and cleaning work can put the safety of operating staff at risk and impair the functionality of the machine.**

1. Before any cleaning and maintenance work, switch off the machine pull out the mains plug.
2. Secure the machine against unexpectedly being switched back on.
3. Before cleaning with the water jet, cover all the openings that water must not penetrate into for safety and functional reasons.
4. After cleaning, remove all the covers which were attached to protect against the water.

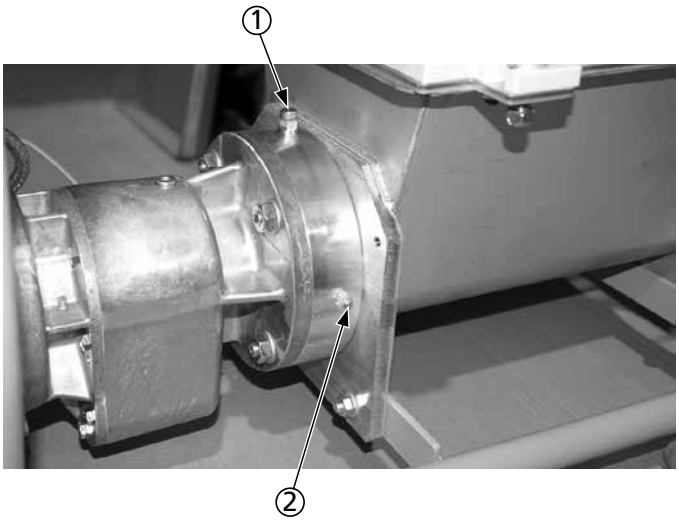
10.2 Maintenance plan: Time and frequency

Maintenance work	Frequency/personnel qualification
- Visual and functional inspection of all safety devices. - Inspection of all wear parts, conveyor hoses and couplings. - Visual Inspection of the electrical cabling.	Daily by the operator
Regreasing the sealing unit	Once a quarter (recommended), or for heavy use, once a month by the operator.
Have the machine inspected at a specialist workshop or at an INOTEC service centre	Once a year (recommended) by a service technician
Electrical inspection (DGUV V3) by a qualified electrician or at an INOTEC service centre	Once a year (Mandatory, stipulated by DGUV V3) by a qualified electrician

10.3 Regreasing the sealing unit

The sealing unit requires almost no maintenance. However, it is necessary to regrease the seal's depot every quarter, or for heavy use, every month. If this maintenance measure is not carried out or not carried out in time, the sealing rings may run dry, causing the seal to fail prematurely.

1. Use a grease gun with roller bearing grease.
2. Press the grease into the grease nipple (1) provided until excess grease comes out of the pressure relief valve (2).



CAUTION **The seal will become damaged if it is not filled with grease**.

10.4 Wear limit for pump shafts

The pump shafts are subject to wear. The entire pump shaft must be replaced if the minimum height of the augur blades is reached or not reached.

Maximum height of augur blades	38 mm
Wear limit: Minimum height of augur blades	30 mm

10.5 Wear limit for rotor/stators

The rotor and stator are wear parts that must be checked regularly and replaced if necessary.

11 Faults, causes and solutions

The inoBEAM F30 is designed for fault-free operation. However, should a fault occur, please follow the instructions below on analysing, checking and remedying the fault or contact the Inotec Service team (see the address list for INOTEC service centres at the end of the document) or call the INOTEC service hotline on: +49 7741 6805 777.

11.1 Safety while rectifying faults

Electrical voltage.
Danger of death due to electric shock.

- Work on the electronic control system may only be performed by a qualified electrician.
- Switch off the machine and pull out the mains plug.
- Secure the machine against unexpectedly being switched back on.

Rotating shafts.
Danger of death due to being pulled into the machine and crushed.
When the motor is running, the pump shaft rotates in the material hopper!

- Do not reach into the rotating shaft.
- Do not place any objects into the rotating shaft.

Pressurised conveyor hoses.
Risk of injury and risk of property damage due to escaping and/or flying material, and/or bursting conveyor hoses!

- Before disconnecting the conveyor hoses, make sure that the hoses are depressurised. To do so, check the pressure indicator on the mortar pressure gauge. The pressure indicator must display 0 bar!
- Before opening the hose coupling, let the inoBEAM F30 run in reverse to reduce any pressure!
- Use only conveyor hoses which, depending on the set used, are permissible with an operating pressure of 40 bar (set "D" and "R") or 230 bar (set "HP"), and are in technically perfect condition (e.g. do not have any cracks or other external damage!).

11.2 What to do in the event of any faults

Faults can put the safety of operating staff at risk and impair the functionality of the machine.

1. In the event of any faults which pose a direct risk to people or material assets, switch off the machine and pull out the mains plug.
2. Secure the machine against unintended reactivation.
3. Determine the cause of the fault.
4. Report the fault to the responsible person on site.
5. Depending on the type of fault you can either rectify this yourself or have it rectified by a qualified electrical specialist.

The faults listed below feature recommendations as to who is authorised to rectify the fault.

Symptom	Potential cause	Check / solution	Personnel qualification
If the machine will not start.	Power supply is cut off.	• Check the power supply (power distribution points, socket, power cable, cable reel).	Machine operator
	No input voltage available. FI circuit breaker has been triggered.	• Have the voltage supply checked at the worksite distribution board, supply cables and cable reels. • Have the voltage supply restored if it was interrupted.	Qualified electricians
	Dummy plug or remote control cable not plugged in	• Plug the dummy plug/remote control cable into the remote control connection on the switching cabinet.	Machine operator
	Remote control cable faulty	• Check remote control cable and replace if necessary.	Service technician
	Blockage due to foreign bodies or excessively dry or hardened material in the material hopper or rotor/stator.	• Switch off the machine and pull out the mains plug. Remove the foreign bodies and clean the material hopper or rotor/stator	Machine operator
The machine has stopped.	The overcurrent protection device has tripped.	• Switch off the machine and pull out the mains plug. Check the rotor/stator for damage and replace if necessary.	Machine operator
		• Have the motor checked. • Have the fault remedied if necessary.	Service technician/ Qualified electricians
	Pump shaft mechanically blocked.	• Switch off the machine and pull out the mains plug. Check whether any hardened material or foreign bodies are in the pump shaft; if necessary, remove the hardened material or foreign bodies.	Machine operator
	Rotor/stator mechanically blocked.	• Switch off the machine and pull out the mains plug. Check whether any hardened material or foreign bodies are in the rotor/stator; if necessary, remove the hardened material or foreign bodies.	Machine operator
	Material blockage in the hose; pressure greater than 40 bar. **ATTENTION**: Safety notice	• Run the machine in reverse to reduce the mortar pressure. Check the mortar pressure on the mortar pressure gauge. If the pressure gauge shows "0" bar, switch off the machine and pull out the mains plug. Remove the mortar hose, remedy the material blockage and then clean the mortar hose. If necessary, use a new material hose.	Machine operator
	The motor has overheated.	• Leave the motor to cool down.	Machine operator
	Motor, gears, drive storage defective.	• Replace the motor, gears or bearing.	Service technician/ Qualified electricians
Pump is delivering no material, but the motor is running.	Pump shaft is unhinged or worn	• Switch off the machine and pull out the mains plug. Adopt good practice when dismantling the rotor/stator component. Then remount the shaft or replace the pump shaft with a new one.	Machine operator
Pump is delivering no material.	Rotor/stator is worn	• Switch off the machine and pull out the mains plug. • Replace the rotor/stator.	Machine operator

Pump is delivering no material; hose blockage. Signs: - Increasing delivery pressure - Pump blockage - Mortar hose stretched	Worn or poorly lubricated hoses	• Run the machine in reverse to reduce the mortar pressure. Check the mortar pressure on the mortar pressure gauge. If the pressure gauge shows "0" bar, switch off the machine and pull out the mains plug. Remove the mortar hose, remedy the material blockage and then clean the mortar hose. If necessary, use a new material hose.	Machine operator
	Pressure flange clogged	• Run the machine in reverse to reduce the mortar pressure. Check the mortar pressure on the mortar pressure gauge. • If the pressure gauge still shows pressure, switch off the machine and pull out the mains plug. Wrap the coupling connection on the pressure flange with tear-resistant foil. • Loosen the GEKA coupling. • Loosen the blockage by tapping or shaking at the location of the blockage. Wear gloves and eye protection (PPE). • If necessary, insert a flushing hose into the material hose and flush out the material. • If the pressure gauge shows "0" bar, open the coupling on the pressure flange and remove the blockage if necessary.	Machine operator
	Too much taper on the couplings	• Please check the tapers of the material hoses and adjust, as required.	Machine operator
	Kink in the hose	• Lay out the material hose in a generous radius to avoid kinking.	Machine operator
	Leaky couplings	• Check the seals of the hose couplings and replace them if necessary.	Machine operator
	Materials that are difficult to pump	• Only use pumpable materials with a particle size of up to a maximum of 6 mm. Observe the material manufacturer's instructions.	Machine operator

12 Dismantling and disposal

After the machine's period of use has expired, the machine must be dismantled and sent for environmentally conscious disposal.

12.1 Safety while dismantling

DANGER **Electrical voltage.**

Danger of death due to electric shock.

- Work on the electronic control system may only be performed by a qualified electrician.
- Switch off the machine and pull out the mains plug.
- Secure the machine against unexpectedly being switched back on.

DANGER **Rotating shafts.**

Danger of death due to being pulled into the machine and crushed.

When the motor is running, the pump shaft rotates in the material hopper!

- Do not reach into the rotating shaft.
- Do not place any objects into the rotating shaft.

DANGER **Pressurised conveyor hoses.**

Risk of injury and risk of property damage due to escaping and/or flying material, and/or bursting conveyor hoses!

- Before disconnecting the conveyor hoses, make sure that the hoses are depressurised. To do so, check the pressure indicator on the mortar pressure gauge. The pressure indicator must display 0 bar!
- Before opening the hose coupling, let the inoBEAM F30 run in reverse to reduce any pressure!
- Use only conveyor hoses which, depending on the set used, are permissible with an operating pressure of 40 bar (set "D" and "R") or 230 bar (set "HP"), and are in technically perfect condition (e.g. do not have any cracks or other external damage!).

WARNING **Risk of injury posed by improper disassembly. Stored residual energy, sharp components, points and corners on and in the machine can cause injuries.**

- Ensure there is enough space for disassembly.
- Wear gloves and safety boots to avoid injuries.
- Handle sharp-edged parts with care.
- Ensure that the workplace is tidy and clean. Loose components and tools lying around or on top of each other can cause accidents.
- Adopt good practice when dismantling the components.
- Note that some individual parts may be very heavy.
- Secure the individual parts to ensure these do not fall down or topple over.
- In the event of uncertainty, call the INOTEC service hotline on +49 7741 6805 777.

12.2 Dismantling

Clean and dismantle the machine before sorting the parts in compliance with the applicable occupational health and environmental protection regulations.

12.3 Disposal

According to European Directive 2012/19/EU on waste electrical and electronic equipment and its implementation in national law, this machine should not be disposed of in general household waste, but recycled in an environmentally conscious manner!

NOTE **The inoBEAM F30 consists primarily of high-quality metal. Observe the following if you are decommissioning the inoBEAM F30 for the final time:**

- Send the metal to a recycling facility.
- Dispose of the inoBEAM F30 via a scrap metal dealer or your local scrap metal collection centre.

Your used INOTEC equipment will be taken back by us and disposed of in an environmentally conscious manner. Please contact one of our service centres to arrange this.

13 Systems

The following documents are enclosed as annexes and form part of this operating manual:

13.1 EC declaration of conformity

Name/address of the issuer: **INOTEC GmbH**
Daimlerstraße 9-11
DE 79761 Waldshut-Tiengen

We hereby declare
that the machine described below, on the basis of its design and construction, as well as the version that we have put into circulation, complies with the relevant fundamental safety and health regulations of the EC Directive 2006/42/EC.

This declaration will become void in the event of any modification made to the machine without our approval.

Name of the device:	inoBEAM F30
Machine model:	Delivery pump
Item number:	10043421

Applied harmonised standards

DIN EN 12100	Safety of machinery
DIN EN 60 204.1	Electrical equipment of machines - Part 1: general requirements

Authorised representative for the compilation technical documentation:

INOTEC GmbH
Daimlerstraße 9-11
DE 79761 Waldshut-Tiengen

Jörg Tetling
Managing Director

Waldshut-Tiengen, April 2021

13.2 General Terms of Business of the company INOTEC GmbH

Valid from April 2021

§ 1
General, scope

I. All offers, deliveries and other services provided by INOTEC GmbH — including in the future — are exclusively subject to these general terms and conditions.
Terms and conditions of the customer that deviate from or are not included in our terms and conditions are not recognised unless INOTEC GmbH has explicitly agreed to their validity in writing. Counter-confirmations by the customer with reference to their terms and conditions of business or purchase are hereby rejected.

II. INOTEC GmbH's general terms and conditions of leasing apply to leasing services we provide.

§ 2
Product descriptions, application-related information, subject to change

I. Machine descriptions in brochures, technical data sheets, etc. do not constitute quality guarantees. Application-related information and recommendations that INOTEC GmbH issues verbally and in writing to support the customer or processor are based on our current level of knowledge. They are non-binding and do not establish any contractual rights nor any secondary obligations from the purchase contract, unless explicitly agreed otherwise.

II. We reserve the right to make design and material changes, provided that normal use of the delivery item or use required under the contract is not significantly or adversely affected and the change is reasonable for the customer.

§ 3
Delivery period, assembly deadline

I. Agreed delivery periods start on conclusion of the contract, but not before the customer has provided the necessary documents and approvals and has fully clarified all of the details regarding the requested execution and all technical questions. Compliance with the delivery period always requires the customer to meet its contractual obligations.

II. In the event of force majeure and any unforeseeable obstacles which were unknown on conclusion of the contract, where we are not responsible for such obstacles, the delivery period shall be extended appropriately — including within a delay — insofar as it is proven that such obstacles impacted the provision of the service owed.
This also applies if these circumstances apply to sub-suppliers. We shall notify the customer of the start and end dates of such obstacles as early as possible. If the obstacle lasts for more than three months or if it is determined that this will last for more than three months, both we and the customer may withdraw from the contract.

III. If we have agreed the time of delivery, assembly or installation with the customer, the customer is obliged to take all precautions at their place of work to be able to carry out their planned work. In particular, the customer is obliged to provide electrical connections, compressed air connections and adequate lighting at the place of work.
If the customer is responsible for the fact that we are unable to complete the planned work, are unable to complete it in full, or are unable to complete it within a reasonable period of time, the customer is obliged to compensate us for any damages incurred, and is particularly obliged to reimburse use for any additional costs incurred as a result of additional journeys and wasted working hours additionally required from our employees.
The assembly deadline is met if assembly has been carried out for acceptance by the customer by the deadline. If a test is stipulated by the contract, the deadline is met if assembly has been carried out for execution by the deadline. If there are any delays as a result of force majeure or circumstances for which the customer is responsible, the assembly deadline shall be extended to a reasonable extent.

IV. If the customer has demonstrably suffered damage as a result of a delay by INOTEC GmbH as an assembly company, they are entitled to demand compensation for the delay. In the case of simple negligence on the part of INOTEC GmbH, this is a fixed amount totalling 0.5% for each full week of the delay, but this amount shall not exceed 5% of the value of the part of the total delivery that cannot be used on time or in line with the contract as a result of delayed assembly.

§ 4
Transportation, transfer of risk, packaging, partial deliveries

I. Unless otherwise agreed, INOTEC GmbH shall deliver goods carriage forward and uninsured to the named destination at the risk of the recipient. If there are any damages in transit, the damage must be confirmed by the carrier before the goods are accepted. If carriage paid delivery is owed, this only applies to shipping and transportation standard in the industry. Additional costs, e.g. for express freight requested by the customer, shall be borne by the customer.

II. Unless otherwise agreed, risk for shipping transactions transfers to the customer as soon as the delivery has been handed over to the person providing transportation. If dispatch is not possible for reasons for which INOTEC GmbH is not to blame, risk transfers to the customer upon notification that the goods are ready for dispatch. If the customer collects the goods, risk transfers when the goods are handed over.

III. Unless explicitly agreed otherwise, INOTEC GmbH shall provide deliveries without packaging.

IV. INOTEC GmbH is entitled to partial delivery and partial performance to a reasonable extent.

§ 5
Prices and payment, returns

I. Unless otherwise agreed, prices do not include packaging, transportation, insurance, unloading, installation, assembly and commissioning, namely for delivery ex works or from the delivery warehouse, and are exclusive of statutory VAT at the respective rate. The prices quoted are only valid for the respective individual order. Assembly is billed based on time spent, unless a fixed rate has been explicitly agreed.

II. If contracts have an agreed delivery period of more than two months, both contracting parties may request a change in the agreed price if costs decrease or increase after the contract is concluded and the contracting parties cannot avoid this, particularly if such decreases or increases are caused by collective bargaining agreements or changes in the cost of materials. The price change must be limited to the amount required to compensate for the cost decrease or increase. A party is entitled to a similar price adjustment if delays arise for which the other party is responsible and these result in an actual delivery period of more than two months.

III. Unless otherwise agreed (e.g. when the invoice is sent), payments are to be made immediately on delivery of the goods. Payment is only considered to have been made when INOTEC GmbH has the amount at its disposal.

Granting a payment term once or several times only applies to the invoice amount referred to and not to other receivables (e.g. receivables from other or future deliveries).

IV. If the customer defaults on payment, INOTEC GmbH may demand statutory default interest as a minimum.

V. Offsetting payments or retaining payments where such retention equates to offsetting is only permitted if the customer has legal claims that are recognised by INOTEC GmbH, are not disputed, are pending judgement or have been established by law.

VI. Despite any of the customer's provisions to the contrary, INOTEC GmbH is entitled to initially offset payments against their older debts and will notify the customer about the type of offsetting that has taken place. If costs and interest have already been incurred, INOTEC GmbH is entitled to offset the payment against the costs first, then against the interest and finally against the main receivable.

VII. If the customer defaults on acceptance of the delivery items or on payment, INOTEC GmbH may withdraw from the contract and/or may demand compensation instead of performance after a reasonable grace period passes to no avail, where such a grace period is required by law and is set by INOTEC GmbH. If a compensation claim for damages is asserted, INOTEC GmbH may demand compensation at the amount of 15% of the purchase price, without being required to provide evidence to compensate for lost profit. The contracting parties are free to provide evidence of higher or significantly lower actual damage.

VIII. If we take back goods after consultation without any legal obligation, a credit note will be issued that totals a maximum of the value of the goods. With respect to the expenses incurred (loss of value, testing, cleaning, freight, packaging, administrative expenses, etc.), we reserve the right to deduct the working hours spent at current billing rates and/or a percentage of the value of the goods from the credit note, and with respect to machine returns, we reserve the right to carry out a leasing calculation using current leasing rates.

§ 6
Retention of title, extended retention of title

I. INOTEC GmbH retains title to the delivered goods until all receivables from the concluded contract, including all accessory claims (e.g. exchange costs, financing costs, interest) have been met in full. If several items are delivered for a total price, ownership of all items remains reserved until full payment has been made.
If a current account agreement has been made with the customer, retention of title exists until the recognised current account balance has been paid in full.
If cheques or bills of exchange are accepted, fulfilment only occurs when the cheque or bill of exchange has been cashed and INOTEC GmbH has the amount at its disposal without any recourse risks.

II. The customer is obliged to treat the goods subject to retention of title with care and to immediately notify INOTEC GmbH in the event of seizure, confiscation, damage or loss. Any breach of this obligation gives INOTEC GmbH the right to withdraw from the contract. The customer shall bear all of the costs that have to be paid, particularly in the context of third-party action against seizure being lifted and, if necessary, for the replacement of the delivery items, unless they can be recovered from third parties.

III. If the customer defaults in payment with respect to a not inconsiderable portion of its obligations, INOTEC GmbH is entitled to temporarily take back the goods subject to retention of title. Exercising the right of withdrawal does not constitute a withdrawal from the contract, unless INOTEC GmbH has explicitly declared withdrawal. The customer shall bear any costs that arise from the exercise of the right of withdrawal (in particular for transportation and storage) if INOTEC GmbH threatened withdrawal within a reasonable period of time. INOTEC GmbH is entitled to dispose of the goods subject to retention of title that have been taken back and to offset its claims with the proceeds, provided that INOTEC GmbH has previously threatened to dispose of them. In the threat, INOTEC GmbH must have set the customer a reasonable deadline to meet their obligations.

IV. The customer hereby assigns to INOTEC GmbH the purchase price, wages or other receivables (including the recognised balance from a current account agreement or, in the event of insolvency on the part of the customer's business partner, the 'causal balance' available) at the amount of the invoice value for the goods subject to retention of title (inclusive of VAT) from the onward sale or further processing of the goods subject to retention of title, or which arise because of another legal reason (insurance, tort, loss of ownership caused by connecting the delivery item to a property); INOTEC GmbH hereby accepts the assignment. INOTEC GmbH revocably authorises the customer to collect receivables assigned to INOTEC GmbH for the account of INOTEC GmbH in their own name. This collection authorisation can only be revoked if the customer does not properly meet their payment obligations. In such a case and at the request of INOTEC GmbH, the customer must provide information on the assigned receivables which is required for collection, in addition to making corresponding documents available and notifying the debtor of the assignment. The assignment of receivables under sentence 1 serves to secure all receivables —
including in the future — from the business relationship with the customer.

§ 7
Notice of defects, rights in the event of material defects

I. If a contract is established with a consumer (§13 of the Civil Code [Bürgerliches Gesetzbuch, BGB]), the statutory provisions that entered into force on 01/01/2002 shall apply.

II. If the purchase is a commercial transaction for both parties, the customer must provide immediate notice of any defects in writing, provided that this is in line with the normal course of business. Notice of hidden defects, however, must only be given after they are discovered; otherwise the goods are considered to be accepted.

III. Insofar as the delivery item and/or the associated assembly service is defective, the customer can either request that the defect is remedied (repair) or that an item free of defects is delivered (replacement delivery) as supplementary performance, at INOTEC GmbH's discretion, for a period of 12 months from transfer of risk. If we are not prepared or are unable to carry out the repair/replacement delivery, particularly if this is delayed beyond a reasonable period for reasons for which we are responsible, or if the repair/replacement delivery fails in any other way, and if further attempts at supplementary performance are unreasonable for the customer, they shall be entitled to withdraw from the contract or to reduce the purchase price, at their discretion. If there is a negligible defect, the customer may only withdraw from the contract with our consent.

IV. No claims for material defects arise in the event of unsuitable or improper use or treatment of the goods, incorrect assembly or commissioning by the customer or third parties, natural wear and tear (especially for wearing parts), unsuitable equipment or operating conditions, inadequate maintenance, etc.

V. If the defective goods are third-party products, we are entitled to assign our claims for material defects against our sub-suppliers to the customer and to refer them to their (judicial) claim. A claim can only be made against us if claims against our sub-suppliers are not enforceable despite the (judicial) claim being made on time, or if the claim is unreasonable in the individual case.

§ 8
Limitation of liability

I. INOTEC GmbH shall be liable for intent and gross negligence.

II. INOTEC GmbH shall only liable for simple negligence if essential contractual obligations (cardinal obligations) have been breached, except in the case of injury to life, limb or health. Liability is limited to foreseeable damage typical for the contract.

III. Liability for indirect and unforeseeable damage, loss of production and use, loss of profits, loss of savings and financial losses due to claims by third parties is excluded in the case of simple negligence, except in the case of injury to life, limb or health.

IV. Further liability that goes beyond this contract is excluded, regardless of the legal nature of the asserted claim. However, the above limitations or exclusions of liability shall not apply to no-fault liability that is mandatory by law (e.g. in accordance with the Product Liability Act [Produkthaftungsgesetz]).

V. Insofar as liability under points II and III is excluded or limited, this shall also apply to the personal liability of INOTEC GmbH's employees, workers, representatives, bodies and vicarious agents.

§ 9
Fixed compensation for damages

I. If the buyer cancels the order before execution, INOTEC GmbH is entitled to demand 15% of the total order amount as compensation.

II. INOTEC GmbH's right to claim higher damage amounts remains unaffected.

§ 10
Documents, demonstration equipment, property rights

We shall retain title and copyrights to drawings, drafts, cost estimates and other documents provided by us, particularly samples and demonstration equipment. Documents and items may not be reproduced or made accessible to third parties without our explicit, specified consent.

§ 11
Place of jurisdiction, applicable law

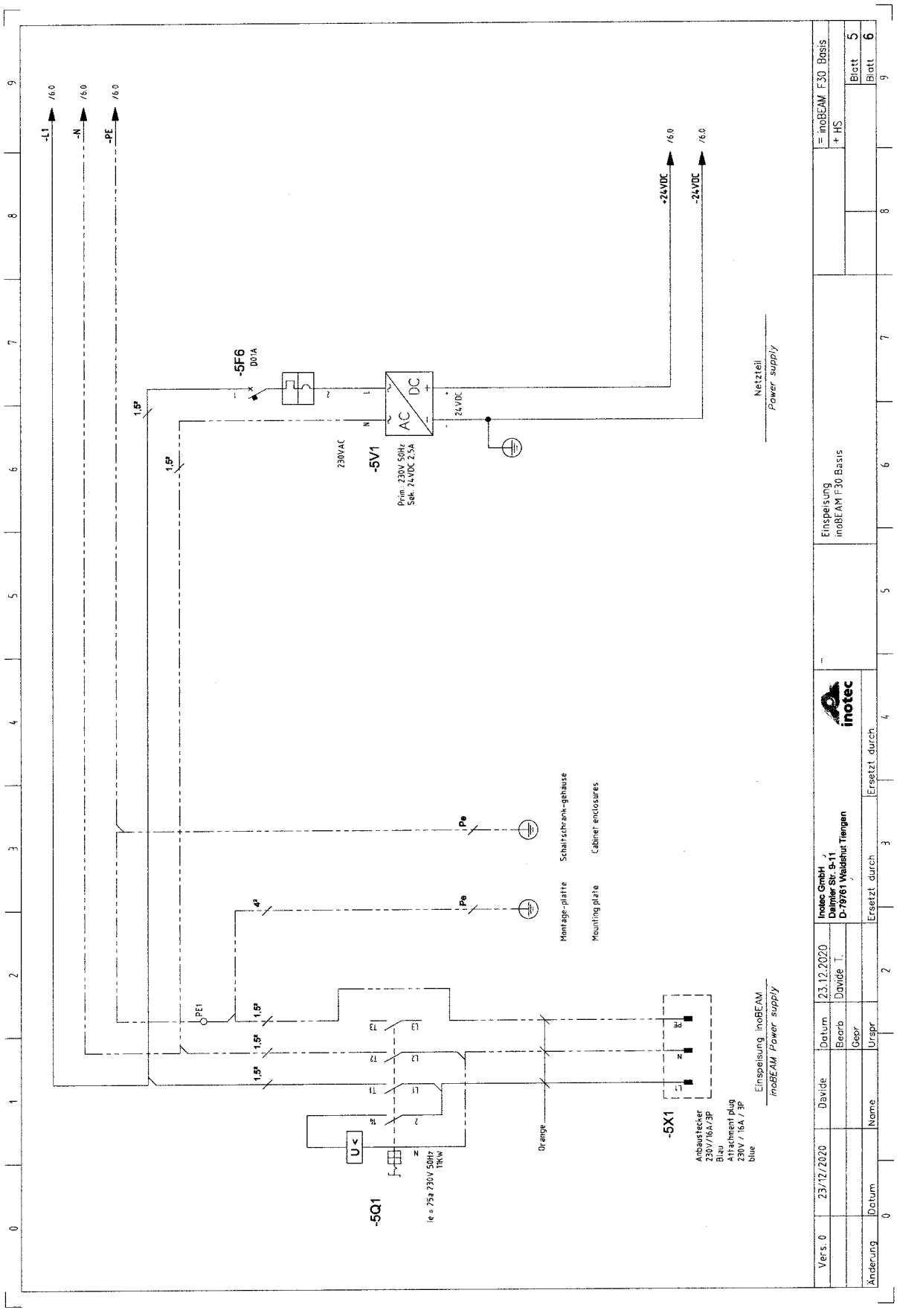
I. The law of the Federal Republic of Germany applies to these general terms and conditions and the entire legal relationship between INOTEC GmbH and the customer, excluding the UN Convention on Contracts for the International Sale of Goods (CISG).

II. If the customer is a merchant within the meaning of the Commercial Code (Handelsgesetzbuch), a legal entity under public law or a special fund under public law, the place of jurisdiction for all rights and obligations of the parties to the contract from any transaction — including those involving bills of exchange and cheque disputes — is Waldshut-Tiengen (Federal Republic of Germany). The same shall apply if the customer does not have a general place of jurisdiction in Germany, has moved their domicile or usual place of residence outside of Germany after concluding the contract, or their place of residence or usual place of residence is not known at the time when the action is filed. However, we are also entitled to sue the customer at their general place of jurisdiction.

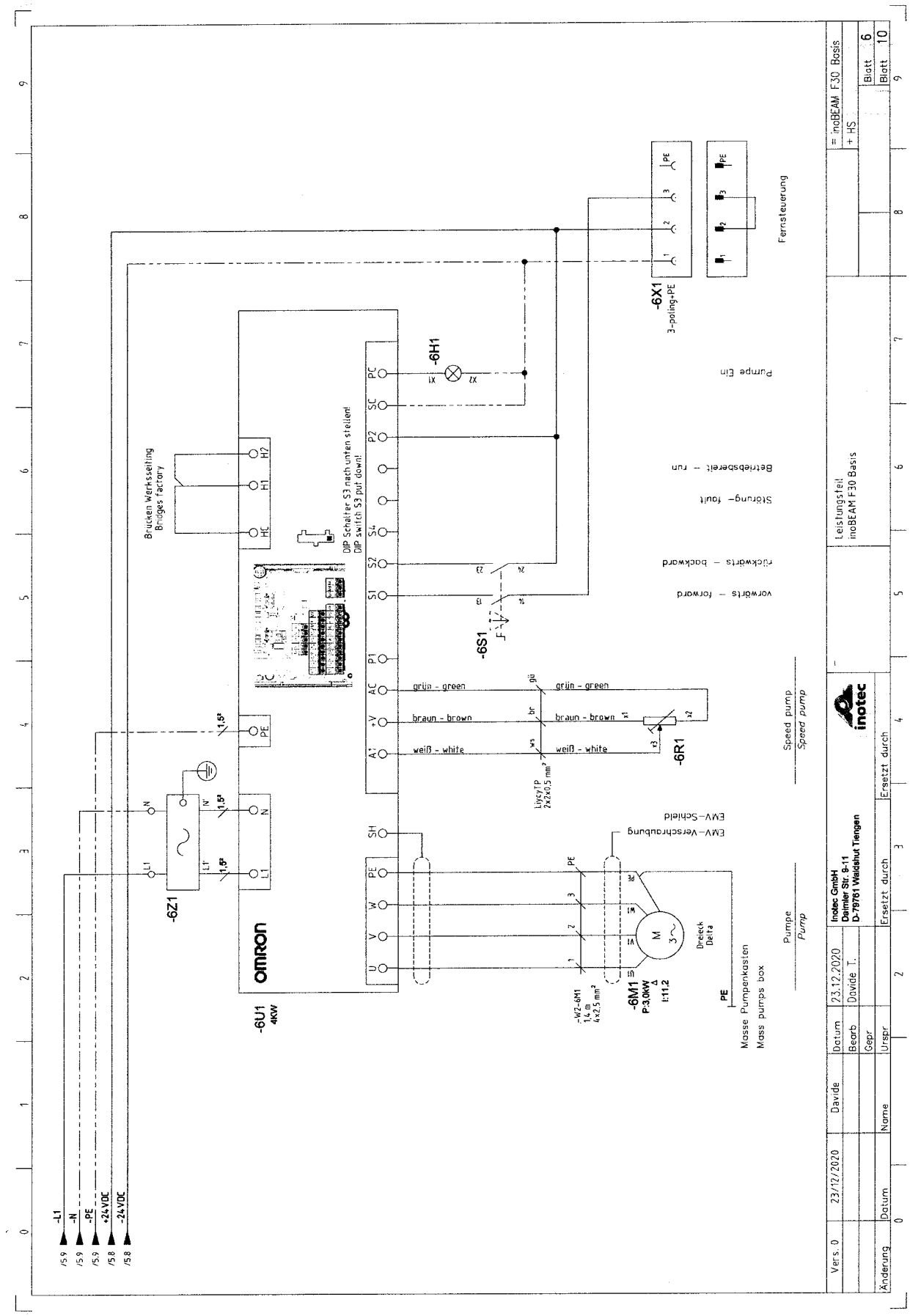
INOTEC GmbH
Daimlerstraße 9-11
D-79761 Waldshut-Tiengen

Managing Director:
Manfred Schmidt
Jörg Tetling
Commercial Register:
Freiburg District Court HRB 621 131

13.3 Circuit diagram of the machine



13.4 Circuit diagram of the switching cabinet



EN

14 Order form

Fax to: +49(0)7741-6805-665

Delivery address

Invoice to

Name of customer

Consultant

Date

Number	Item no.	Item name

Our General Terms of Business, Delivery and Payment apply. The customer has been made aware of these terms and agrees to the application of the same.
All goods shall be owned by us until we receive complete payment pursuant to Section 449 of the German Civil Code.

15 Index

16 Locations
Your sales partner (English language)

INOTEC GmbH
(Headquarter)
Daimlerstraße 9-11
79761 Waldshut-Tiengen
Germany
Phone +49 7741 / 6805 675
Fax +49 7741 / 6805 665
E-Mail: j.tetling@inotec-gmbh.com

Wherever you are, we're there, too.

inotec

Product range

Delivery pumps

Mixing pumps

Mixers

Delivery systems

Silo technology

OWC technology

Airless devices

Cutters

Grinders

One-handed guns

Waste water systems

Tillage

Compressed air / compressors

Heaters / air dehumidifiers / high-pressure cleaners

Accessories & spare parts

Power tools / electrical appliances

INOTEC GmbH • Daimlerstraße 9-11 • D-79761 Waldshut-Tiengen • Tel.: +49 77 41 / 68 05-0 • www.inotec-gmbh.com