

***Operating, Installation and Maintenance Instructions
for
E-102 Mixer Standard,

optionally oil-filled,

optionally oil-filled and with mechanical seal***

Please keep these instructions!

Should anything remain unclear after reading these Operating, Installation and Maintenance Instructions, please turn to the responsible BUSCHMANN Representative or contact us directly.

Status 15.02.2012

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1. General

1.1 General

We are delighted that you have chosen a BUSCHMANN SLURRY MIXER, and wish to thank you for placing your trust in us. We wish you improved operating success through the use of the mixer. Before putting the BUSCHMANN SLURRY MIXER into operation, the Operating Instructions must be read by the specialist personnel responsible.

The safety guidelines named in these Operating Instructions do not invalidate the general and specific regulations and standards. The accident prevention regulations and general technical rules must be observed.

1.2 Completeness of delivery

Please first check that the delivery is complete. The delivery note contains all items pertaining to the delivery. Objections can only be considered if the missing items are directly recorded on the delivery note with the forwarders present, and countersigned. Otherwise, we are unable to accept complaints.

1.3 Transport

During transport, the mixer must be secured against tipping over. The transport aids may only be loosened and removed once the mixer is standing in its permanent position.

If the mixer is attached to the back of a tractor, please observe the outreach in particular. When using public roads and paths, the German Traffic Act (StVO) must also be observed.

2. Safety

2.1. Prior to initial use

The BUSCHMANN SLURRY MIXERS are constructed in accordance with the latest technology standards and the recognised safety rules. The Operating, Installation and Maintenance instructions do not invalidate the general and specific regulations and standards. However, improper use can generate hazards involving bodily or lethal injuries to the user or to third parties, or impairments to the mixer and other material assets. The BUSCHMANN SLURRY MIXERS may only be used in a technically proper condition.

Please read through these Operating Instructions prior to initial commissioning, and observe the listed points.

1. The operating company must allow the operator access to the Operating Instructions, and must ensure that the operator has read and understood all points.
2. You must obtain familiarity with the actuation devices prior to starting work on the machine.
3. Prior to starting work, check all protective equipment and that all screws fit tightly. Replace defective safety devices and machine parts.
4. Without exception, always use BUSCHMANN original spare parts. No liability shall be borne if external or reproduction parts are used.
5. Please observe that, if the machine is later forwarded on to other parties, the Operating Instructions must also be forwarded with the machine. Please also draw the other party's attention to the regulations.
6. Observe all operating and maintenance regulations. They represent the prerequisite for long-term, economic and problem-free use of the mixer. Incorrect operation or misuse can generate substantial hazards for people, animals and machines.

2.2 Use in accordance with the intended purpose

This mixer is exclusively intended for the stirring and homogenisation of liquid manure and slurry in open and closed slurry tanks (intended purpose). Further fields of application are only permitted after contacting, and obtaining written permission from, Karl Buschmann Maschinenbau GmbH. Any use over and above this shall be considered not in accordance with the intended purpose. Karl Buschmann Maschinenbau GmbH shall not be held responsible for any damages resulting from use not in accordance with the intended purpose; the risks shall be borne exclusively by the user. The operating, maintenance and repair terms and conditions stipulated by the manufacturer must also be maintained for use in accordance with the intended purpose.

2.3 Authorised operators

Only those people (who are at least 16 years of age) may be commissioned with assembly, maintenance and operation who are appropriately qualified and who have precisely understood and observe these Operating and Installation Instructions. Within the work area, the operator is responsible for third parties. This also applies to animals which are within the danger zone.

Non-observation of the safety guidelines may lead to the invalidity of any claims for damages. This is in your own interest, as you will lose any warranty claims for damages and consequential damages caused through operating or maintenance errors.

2.4 Special safety regulations

Prior to starting work, the user must ensure that there are no solid objects such as wood, iron, concrete, cables, film etc. in the slurry. There is a risk of blade or shaft breakage.

If malfunctions occur, the mixer must be taken out of operation immediately.

2.5 Hazards generated through accessories

Please observe precisely the Operating Instructions and Safety Regulations by the manufacturer for additional attachment parts such as cardan shafts, reverse gear units etc.

2.6 Safety guidelines for operation, maintenance and inspection work

Safety devices have been installed for the safety of the operator, and must under no circumstances be changed, removed or converted. If these parts are defective or missing, provide replacements. The mixer may not be put into operation until the blade is fully submerged in the slurry. It must also be ensured that the blade is sufficiently far away from the ceiling, floor, wall, supports etc. In order to avoid damage and hazards, no-one may be located between the mixer and the tractor. Therefore, only connect the cardan shaft to the mixer if the mixer is in the stirring position and stirring operation is intended. Do not leave the machine unsupervised at any time during the stirring process, as playing children or animals may approach the source of danger. Secure the tractor against rolling away during the stirring process. Pit openings and slurry tanks must be secured against falling in. Maintenance, inspection and repair work must always be carried out when the machine is at a standstill and whilst the machine is secured against inadvertent operation.

2.7 Hazards generated through slurry gases

Please observe that slurry gases are unpredictable. During stirring, highly-poisonous, flammable and explosive gases (ammonia, hydrogen sulphide, carbon dioxide and methane) are released. During a prolonged storage period without intermediate stirring, high gas concentrations may be generated as floating or settling layers suddenly break open. As with any other slurry storage, it must be observed that it is well-ventilated and that no damages may occur through slurry gases. If sufficient ventilation cannot be guaranteed during storage, operation, maintenance and repairs, suitable protective measures must be taken. The operator must wear respiratory protection during work. No other people or animals whatsoever may be allowed in the danger zone. Please refer to and observe the leaflet by the Landwirtschaftlichen BG Arbeitssicherheit Aktuell (Agricultural Employer's Liability Insurance Association Current News "Liquid Manure") and the accident prevention regulations on slurry storage, pits, channels and wells UVV (Accident Insurance Regulation) 2.8.

2.8 Safety guideline signs and their meanings



Before starting up, read and observe the operating and safety instructions



Before repair, maintenance and cleaning work, activate repair switch and lock (disconnect motor from power supply)



Please refer to the accident prevention regulation "Safety and health signs" (VSG 1.5).

3. Assembly and installation dimensions

3.1. Assembly and installation dimensions

The mixer is mainly used in forcible circulation systems, open pits and ground basins.

The mixer is delivered ready assembled. However, for reasons of transportation, it may be necessary to screw on attachment parts such as the three-point linkage or cage on reaching the location of use.

Adjustment settings are welded onto the outer tube, whereby the position is clearly stipulated.

On the mixer with mechanical seal, the blade is divided. The blade and hub are already assembled at the factory and secured with an M 24 self-locking nut. The hub, which is tightly screwed on, may only be loosened in case repairs are required, as the mechanical seal is prestressed with the hub.

If the mixer is delivered without the blades assembled onto it, please proceed as follows:

Prior to assembly of the mixer blade, the transportation lock, a round disc which is screwed on with 2 cylinder head screws, must be removed. This disc is merely for protection against damage to the VA deflector plate, and is no longer required after disassembly. Then the 4 M 12 threaded bores in the mixer blade hub must be completely degreased, and the contact surface of the mixer blade must be cleaned. The contact surface of the mixer blade hub must also be cleaned. After cleaning the contact surfaces, they must be oiled slightly. Here it is important that no oil gets into the threaded bore. Then the mixer blade can be pushed onto the hub. The four M 12 x 35 cylinder head screws must be degreased, secured using Loctite Threadlocker, and then screwed in tight using the four spring rings. Then the mixer blade is ready for use.

On mixers with oil filling, please ensure that the M5 ventilation screw is slightly loosened after assembly. This ensures that no pressure can build up in the tube, or, depending on the equipment and application, a self-opening ventilation valve can be mounted here.

4. Operation, maintenance and repairs

4.1 General information on operation

The machine may only be operated, serviced or repaired by authorised persons who are familiar with the respective work and who have been informed of the related hazards involved. Operators must have reached the end of their sixteenth year. They must also have read and understood the Operating Instructions. (responsibility of the operating company).

The operator is responsible both for people and for animals remaining within the danger zone of the slurry mixer location of use. The relevant accident prevention regulations and the other generally recognised safety, occupational medical and legal road traffic rules must be observed.

If possible, check all screws again for tight fit and, if applicable, inspect the oil level. Please also ensure that the mixer does not impact or become stuck in the shaft during lifting, lowering and insertion, as the enormous lever effect may damage the mixer, the three-point linkage or the installation box.

During the stirring process, the tractor must not be moved, as this may destroy the cardan shaft and the mixer.

Start up or stop the mixer during prolonged operation, so that the load on the mixer shaft remains as small as possible. Sudden acceleration and braking may lead to shaft breakage. Always ensure gentle start-up or stopping.

The blade must be submerged at least 600 mm from the upper edge into the slurry during stirring. If the submersion depth is lower, the mixer will suck in large quantities of air and will be unable to develop its full power, or the lower seal will be destroyed due to insufficient cooling.

4.2 Technical data

- The max. permitted shaft speed of the mixer totals 1000 1/min.
- The mixer is equipped as a standard measure with a 560 mm suction or pressure blade. With a normal medium and drive via the tractor, a power of approx. 60 to 70 KW at 540 1/min is transferred onto the blade.
- Optionally, the mixer can also be oil-filled (during stationary operation)
- Optionally, the mixer can also be equipped with a highly wear-resistant seal (during stationary and permanent operation)
- The mixer is independent in terms of rotational direction. Optionally, a reverse gear unit can be mounted
- The total length of the mixer incl. the guard cone is orientated on the pit depth

All other data can be found in the delivery note or the brochure.

4.3 Oil level inspection (*only for oil-filled mixer and mixer with mechanical seal*)

If the mixer is installed horizontally, the screw plug must be screwed out for the oil level inspection. The entire shaft in the tube must be covered with oil.

If the mixer is installed with a floor inclination, an oil expansion chamber must be mounted. The oil expansion chamber must be mounted higher than the highest point of the mixer. The oil level is shown in the sight glass, or 1/3 of the chamber must be filled. If oil is missing in the tube or the expansion tank, SAE 20 or W 20 oil must be filled up to the abovementioned height.

4.4 Maintenance, inspection and assembly work

Once the stirring process is finished, spray down the mixer with water (not using a high-pressure cleaner, as this may destroy the seals). Grease the PTO shaft profile and the liner at the front and, if applicable, check the oil level. See point 4.3. on oil level inspection. Check that all screws fit tightly.

➡ **In the standard design Type E-102 (*mixer with closed roller bearings, without oil filling*), the shaft sealing rings must be regularly greased on the mixer blade bearing (lower bearing). The lubricating nipple is located under the mixer blade hub, and can be accessed via the hole in the blade hub.**

Once the stirring process is finished, check the blade and the tube and remove any foreign objects.

Replace defective parts and safety devices.

All work may only be carried out at a standstill and by trained specialist personnel.

Karl Buschmann Maschinenbau GmbH shall not bear liability for unauthorised conversion and spare parts manufacture. The use of other parts can render the liability for resulting consequences and damages null and void - this also includes other affected components.

4.5 Oil change mixer tube

The first oil change must take place after approx. 50 operating hours, and then each year or after 100 operating hours. To do this, the oil plug at the upper end of the mixer must be removed, and the oil must be suctioned off or drained out through the lower screw. Then the mixer must be refilled with SAE 20 or W 20 oil. Please find the exact filling level in Point 4.4.

4.6 Corrosion through foreign objects in slurry

The pH value of slurry usually lies in the neutral range at 7.0. If additional cleaning agents from the milking plant, whey, feed additives containing copper sulphate, silage effluent, mineral fertilisers, hoof disinfection agent, concrete additives, acids and lyes are added to the slurry, the pH value will change and the zinc layer will be destroyed within a short time. It is highly important that this aggressive wastewater is not fed into the slurry at all.

Damages caused for the abovementioned reasons shall remain excluded from any warranty. If the abovementioned substances are found in the medium, please contact us.

4.7 Use with the cardan shaft

Due to the multiple tractor connection dimensions, the length of the cardan shaft must be adapted especially for each tractor. Please find information on adaptation of the cardan shaft in the Operating and Maintenance Instructions by your cardan shaft manufacturer. Depending on the operation angle, a normal cardan shaft can be used here. During the stirring process, it is essential to ensure that both universal joints are evenly angled. If necessary, the tractor must be realigned to the mixer. If the joints are differently angled, the mixer will run extremely unevenly, and material fatigue may occur on the tractor, cardan shaft or mixer. You must observe the manufacturer information (operation angle, speed and the max. power to be transferred) of the cardan shaft.

If the joints cannot be evenly angled or if the operation angle is larger, please work using a one-sided wide-angle PTO shaft or a double-sided wide-angle PTO shaft. Here every operation must be considered separately. Whatever the case, the cardan shaft must be greased at regular, short intervals due to the high torsion loads and angling.

Always observe the operating and maintenance regulations by the cardan shaft manufacturer.

4.8 Use of a reverse gear unit

If using a reverse gear unit, observe the separate Operating and Maintenance Instructions.

5. Liability and warranty

5.1 Manufacturer's liability

The manufacturer shall not be held liable for any damages generated through improper transport and operation of the mixer and through non-observance of the safety regulations and these Operating Instructions.

Unauthorised modifications and conversion to the machine are prohibited for safety reasons, and shall lead to expiry of the warranty and exclusion of the manufacturer bearing liability for resulting damages. Costs for conversion work or malfunctions generated due to particularities of operating conditions shall not be borne by the manufacturer.

We shall only bear the costs of repairs to defects undertaken by the purchaser themselves or a third party if we have issued our written consent to these repairs.

5.2 Warranty conditions

The manufacturer shall provide a warranty of 1 year from the date of delivery under the following conditions:

- Maintenance of all guidelines, instructions and regulations in the Operating Instructions by the operator of the device.
- Maintenance of all obligations in accordance with the transfer declaration for the Operating Instructions by the operator of the device.
- Warranty cases must be reported to the manufacturer within 8 days in writing. This can also take place through the authorised dealer.
- The warranty extends to the repair or replacement of defective parts. The decision as to whether repair or replacement should take place shall be made by the manufacturer.
- We shall only bear the costs of the remedy of defects undertaken by the purchaser themselves or by third parties if we have issued our written consent for such repairs.
- Repairs can be undertaken by a workshop / dealer authorised by the manufacturer. The wage cost reimbursement shall take place according to the manufacturer's fixed rates.
- The recipient shall bear the freight costs for spare parts deliveries.
- Defective parts shall be returned free to the manufacturer for inspection purposes.
- Normal wear on the mixer shaft, blades, seals and shaft bearings are excluded from the warranty.
- The warranty does not extend to working hours or travel or transport costs, and not to consequential damages and accidents with damage to people and property which have been generated due to non-observance of the safety precautions or incorrect operation.

6. Appendix

6.1 Declaration of conformity

EC Declaration of conformity

Acc. Appendix II A of the EC Machinery Directive 2006/42/EC (MaschR)

Manufacturer: Karl Buschmann Maschinenbau GmbH
Industriestraße 18
46499 Hamminkeln
Deutschland

We hereby declare that the mixer Type: E-102

accords with the following relevant conditions:

Machinery Directive RL 2006/42/EC,
EMC Directive or Directive 2004/108/EC (including changes)

Applied harmonised European standards:

DIN EN ISO 12100-1, DIN EN ISO 12100-2, DIN EN ISO 13857, EN 349 (1993+A1),
Amendment to DIN EN 349 (2008-09), EN ISO 13850, EN 983 +A1, DIN EN ISO 14121-1, DIN EN ISO 13849-1,
DIN EN ISO 13849-2, EN 1037 (1995 + A1) (2008), EN 1088 (2008-10), DIN EN 60204-1 (2006)

German Equipment and Product Safety Act (GPSG) in the respective valid version, Ordinance on the German Equipment and Product Safety Act, in particular and if applicable the Ordinance on Electrical Equipment, Machine Noise Information Ordinance, Machinery Ordinance, other regulations from the EU Council if applicable and if not yet converted into national law, and all individually applicable harmonised European standards.

Karl Buschmann Maschinenbau GmbH hereby declares that the mixer has been developed, designed and manufactured in concordance with the abovementioned regulations.
This declaration of conformity shall lose validity should unauthorised modifications be made.

Hamminkeln, 15.02.2012

Karl Buschmann
Manufacturer's authorised signatory



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6.2 Tips on stirring

- The medium must be fluid enough so that the mixer can work well. Depending on the consistency, the addition of fluid can accelerate the stirring process.
- There must be no scum layer on the pit cover or on the girders, otherwise this cannot rotate.
- Multiple stirring processes over the year prevents large layers of scum and sediment.

6.3 Conclusion

Should you still have questions on these Operating, Installation and Maintenance Instructions, please turn to your BUSCHMANN specialist dealer or contact BUSCHMANN directly.

If you keep to the Operating, Installation and Maintenance Instructions, the BUSCHMANN SLURRY MIXER will provide a good stirring performance over a long period of time.

6.4 Suggestions

We continuously endeavour to improve our products and product information. Should questions arise or should you have suggestions on operation of the mixer or after working with these Operating Instructions, please copy this page and send or fax it, filled in, to:

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Sender :

Company :

Street :

Postcode / Place:

Tel / Fax :

Detail drawings

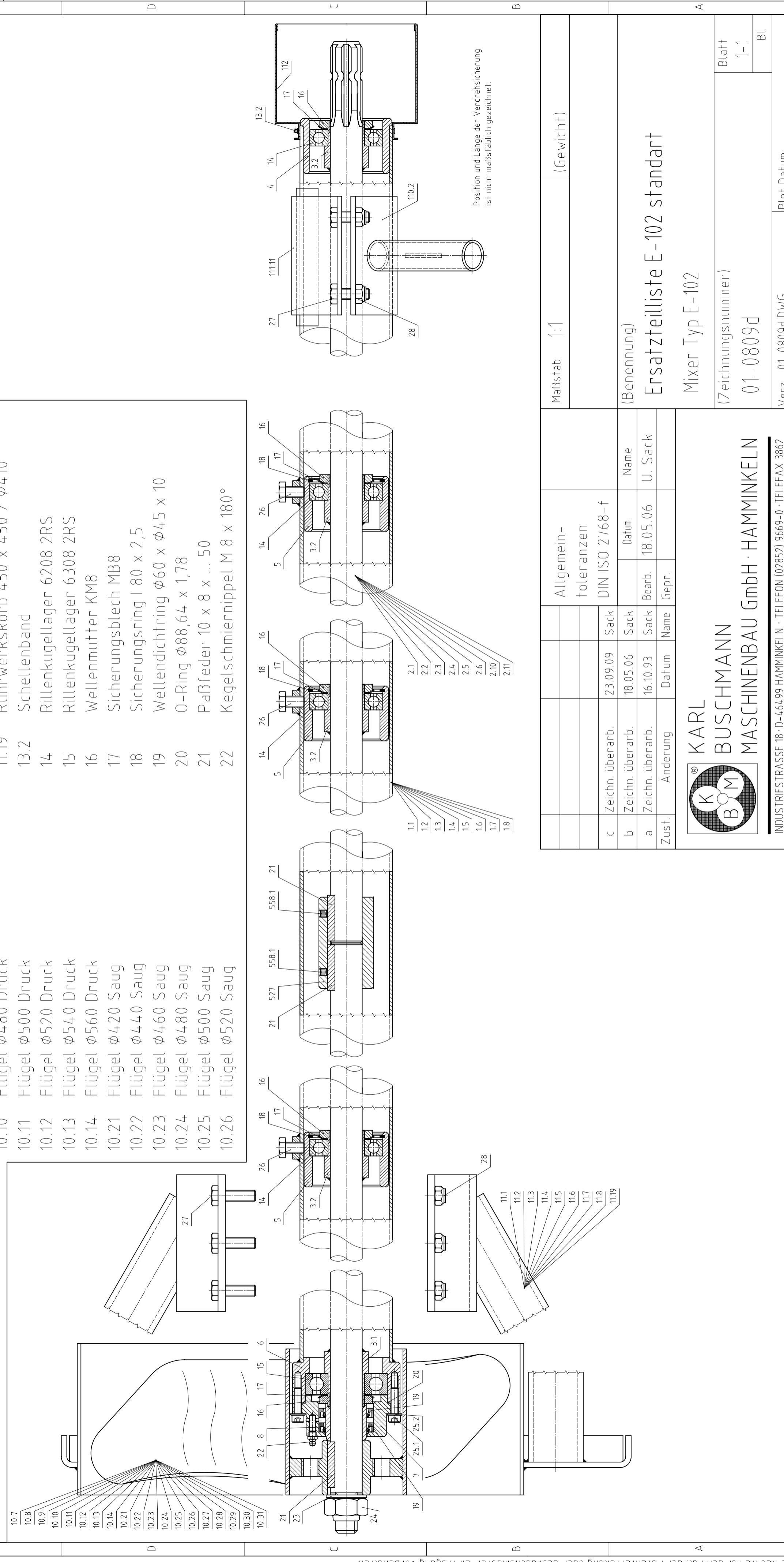
Type

E-102

Design

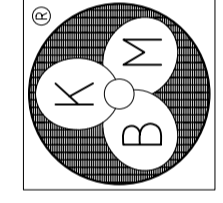
Standard

1.1	Außenrohr Typ E, Gesamtlänge 3.700	2.6	Antriebswelle Typ E-102 x 9.000	10.27	Flügel Ø540 Saug	23	Scheibe Ø25
1.2	Außenrohr Typ E, Gesamtlänge 4.200	2.10	Antriebswelle Typ E-102 x 3.700	10.28	Flügel Ø560 Saug	24	Sechskantmutter M 24
1.3	Außenrohr Typ E, Gesamtlänge 4.600	2.11	Antriebswelle Typ E-102 x 4.600	10.29	Flügel Ø580 Druck		selbstsichernd
1.4	Außenrohr Typ E, Gesamtlänge 5.200	3.1	Lagerbuchse unten	10.30	Flügel Ø580 Saug	25.1	Zylinderkopfschraube M 8 x 30
1.5	Außenrohr Typ E, Gesamtlänge 6.000	3.2	Lagerbuchse mitte und oben	10.31	Flügel Ø600 Druck	25.2	Federring Ø8
1.6	Außenrohr Typ E, Gesamtlänge 7.000	4	Lageraufnahme oben	11.1	Rührwerkskorb 540 x 540 / Ø500	26	Sechskantschraube M 12 x 20
1.7	Außenrohr Typ E, Gesamtlänge 8.000	5	Lageraufnahme	11.2	Rührwerkskorb 600 x 600 / Ø560	27	Sechskantschraube M 12 x 45
1.8	Außenrohr Typ E, Gesamtlänge 9.000	6	Lageraufnahme unten	11.3	Rührwerkskorb 625 x 625 / Ø590	28	Sechskantmutter M 12 selbstsichernd
2.1	Antriebswelle Typ E-102 x 4.200	7	Verschlußdeckel unten	11.4	Rührwerkskorb 700 x 700 / Ø590	110.2	Halterung für die Winkelschiene
2.2	Antriebswelle Typ E-102 x 5.200	8	Verschleißring unten	11.5	Rührwerkskorb Ø720 / Ø590	111.11	Halbschelle 130 x 5 gekantet
2.3	Antriebswelle Typ E-102 x 6.000	10.7	Flügel Ø420 Druck	11.6	Rührwerkskorb Ø780 / Ø650	112	Zapfwellenschutz für Typ C und E
2.4	Antriebswelle Typ E-102 x 7.000	10.8	Flügel Ø440 Druck	11.7	Rührwerkskorb 700 x 700 / Ø650	527	Wellenkupplung
2.5	Antriebswelle Typ E-102 x 8.000	10.9	Flügel Ø460 Druck	11.8	Rührwerkskorb 500 x 500 / Ø460	558.1	Gewindestift M 8 x 8
		10.10	Flügel Ø480 Druck	11.19	Rührwerkskorb 450 x 450 / Ø410		
		10.11	Flügel Ø500 Druck	13.2	Schellenband		
		10.12	Flügel Ø520 Druck	14	Rillenkugellager 6208 2RS		
		10.13	Flügel Ø540 Druck	15	Rillenkugellager 6308 2RS		
		10.14	Flügel Ø560 Druck	16	Wellenmutter KM8		
		10.21	Flügel Ø420 Saug	17	Sicherungsblech MB8		
		10.22	Flügel Ø440 Saug	18	Sicherungsring I 80 x 2,5		
		10.23	Flügel Ø460 Saug	19	Wellendichtring Ø60 x Ø45 x 10		
		10.24	Flügel Ø480 Saug	20	O-Ring Ø88,64 x 1,78		
		10.25	Flügel Ø500 Saug	21	Paßfeder 10 x 8 x ... 50		
		10.26	Flügel Ø520 Saug	22	Kegetschmiernippel M 8 x 180°		

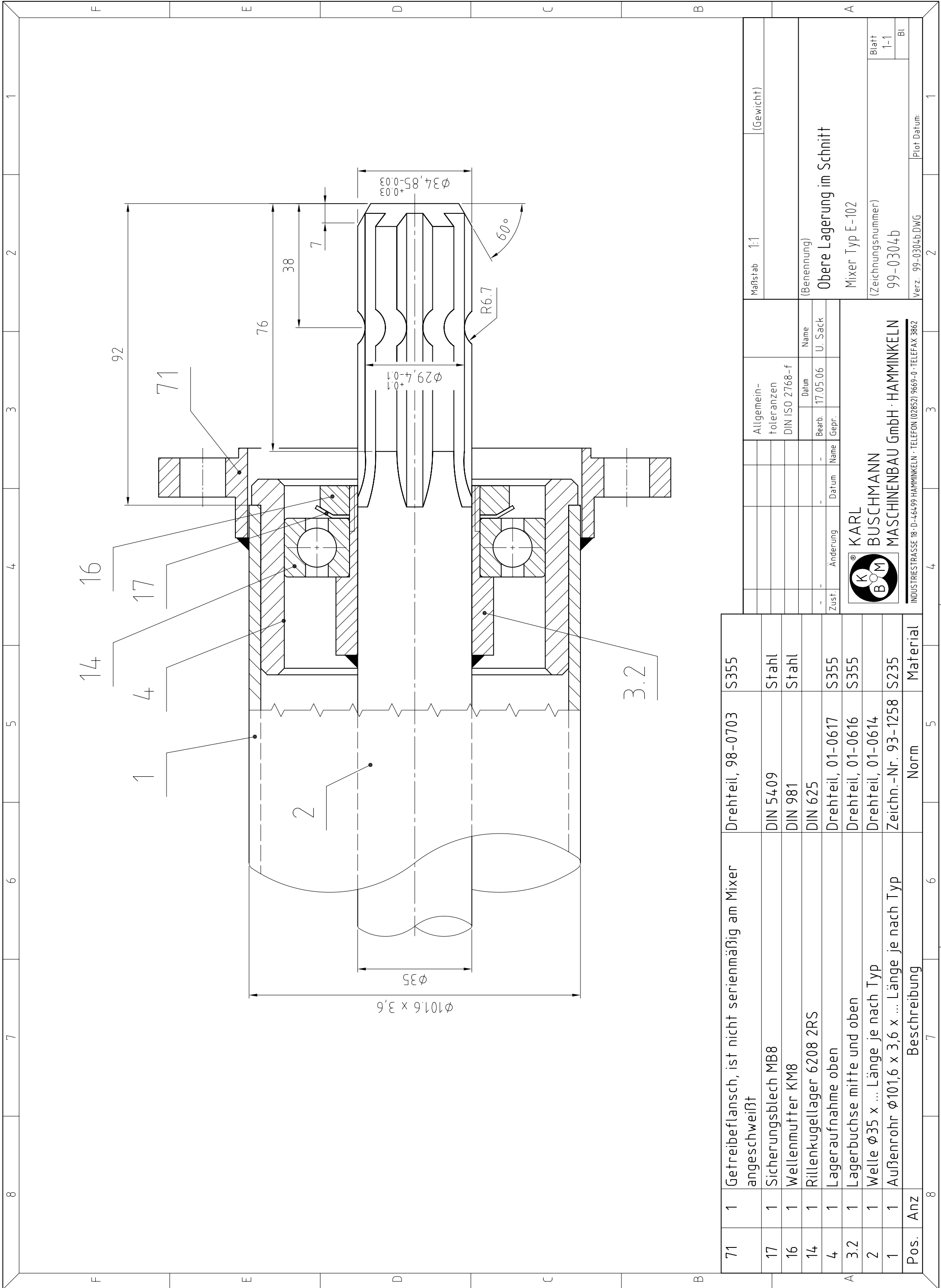


Maßstab	1:1	(Gewicht)
(Benennung)	Ersatzteilliste E-102 standard	
Mixer Typ E-102		
(Zeichnungsnummer)	01-0809d	
Verz.	01-0809d/DWG	Plot Datum:

Allgemein-toleranzen		DIN ISO 2768-f	
c	Zeichn. überarb.	23.09.09	Sack
b	Zeichn. überarb.	18.05.06	Sack
a	Zeichn. überarb.	16.10.93	Sack
Zust.	Änderung	Datum	Name
		18.05.06	U. Sack
			Gepr.



KARL BUSCHMANN
MASCHINENBAU GmbH · HAMMINKELN
 INDUSTRIESTRASSE 18 · D-46499 HAMMINKELN · TELEFON (02852) 9669-0 · TELEFAX 3862



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71	1	Getriebeflansch, ist nicht serienmäßig am Mixer angeschweißt	Drehteil, 98-0703	S355	Material
17	1	Sicherungsblech MB8	DIN 5409	Stahl	
16	1	Wellenmutter KM8	DIN 981	Stahl	
14	1	Rillenkugellager 6208 2RS	DIN 625		
4	1	Lageraufnahme oben	Drehteil, 01-0617	S355	
3.2	1	Lagerbuchse mitte und oben	Drehteil, 01-0616	S355	
2	1	Welle $\phi 35$ x ... Länge je nach Typ	Drehteil, 01-0614		
1	1	Außenrohr $\phi 101,6$ x $3,6$ x ... Länge je nach Typ	Zeichn.-Nr. 93-1258	S235	
Pos.	Anz	Beschreibung	Norm		

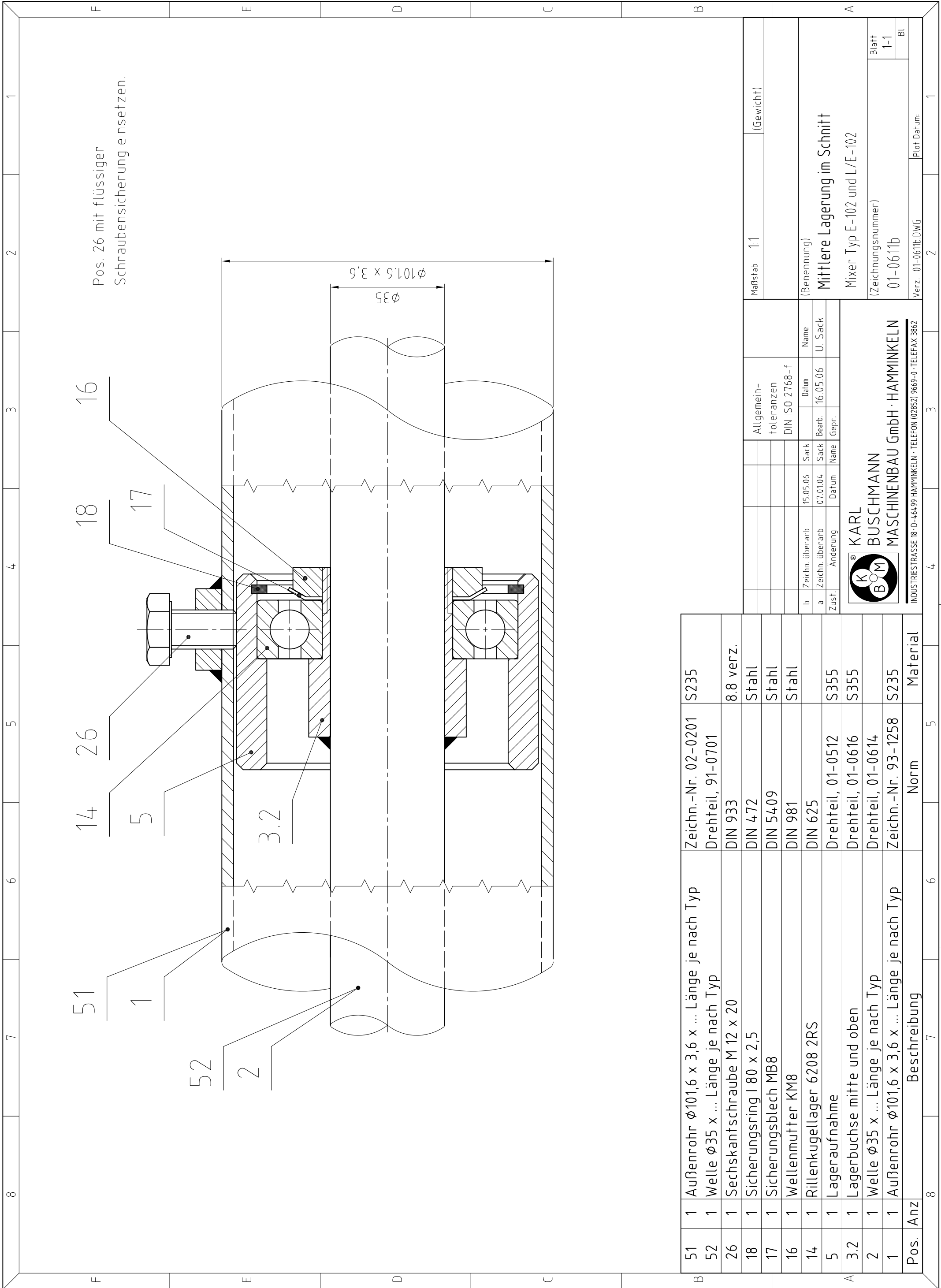
Allgemein-toleranzen DIN ISO 2768-f		Datum 17.05.06		Name U. Sack	
Zust.	Änderung	Datum	Name	Gepr.	
-	-	-	-	-	-

Maßstab 1:1	(Gewicht)
(Benennung) Obere Lagerung im Schritt	
Mixer Typ E-102	
(Zeichnungsnummer) 99-0304b	
Verz. 99-0304b.DWG	

KARL BUSCHMANN MASCHINENBAU GmbH · HAMMINKELN
 INDUSTRIESSTRASSE 18 · D-46499 HAMMINKELN · TELEFON 02852 969-0 · TELEFAX 3862

F 1 2 3 4 5 6 7 8

F 1 2 3 4 5 6 7 8

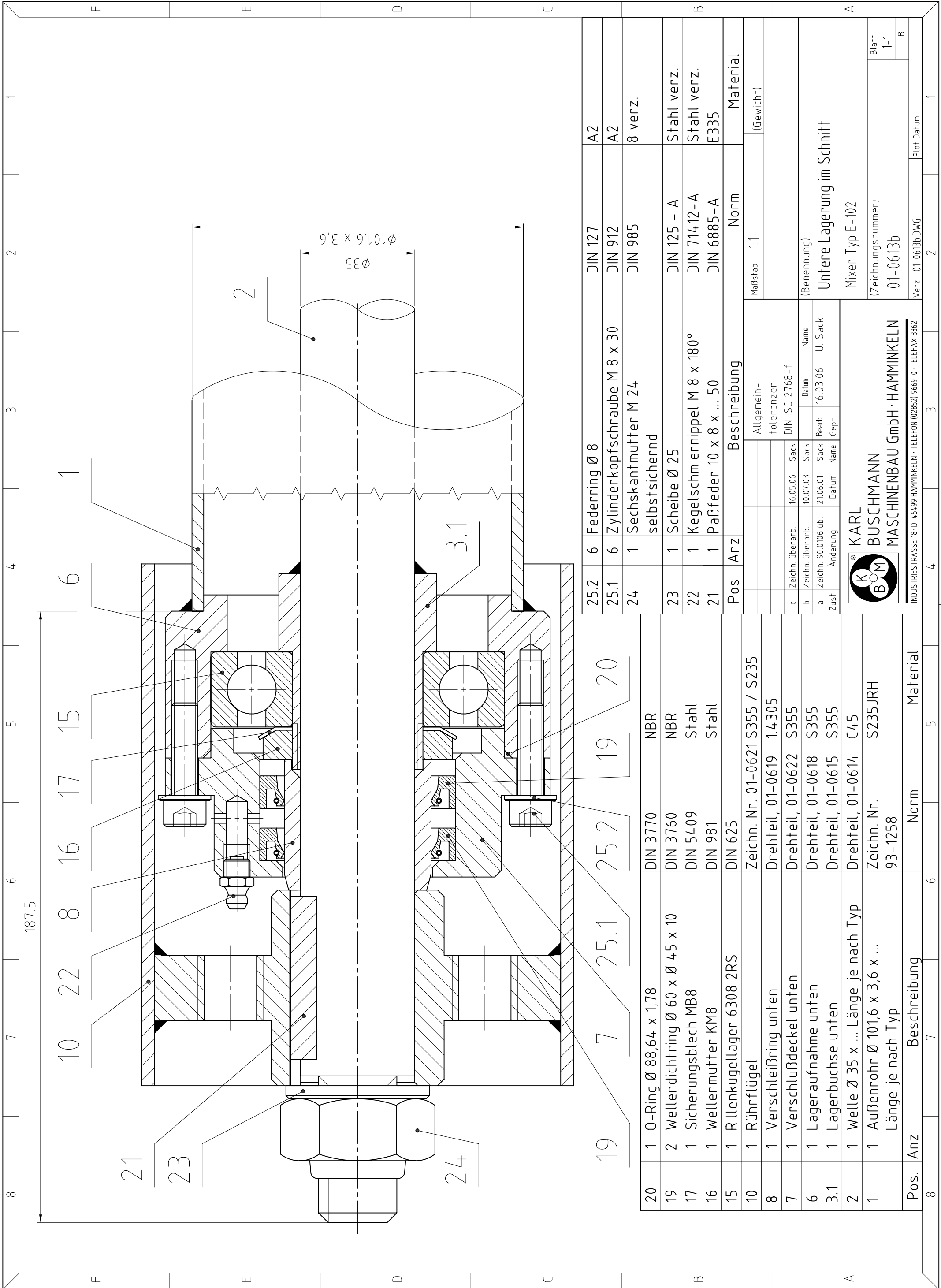


Pos. 26 mit flüssiger
Schraubensicherung einsetzen.

51	1	Außenrohr $\phi 101,6 \times 3,6 \times \dots$ Länge je nach Typ	Zeichn.-Nr. 02-0201	S235
52	1	Welle $\phi 35 \times \dots$ Länge je nach Typ	Drehteil, 91-0701	
26	1	Sechskantschraube M 12 x 20	DIN 933	8.8 verz.
18	1	Sicherungsring I 80 x 2,5	DIN 472	Stahl
17	1	Sicherungsblech MB8	DIN 5409	Stahl
16	1	Wellenmutter KM8	DIN 981	Stahl
14	1	Rillenkugellager 6208 2RS	DIN 625	
5	1	Lageraufnahme	Drehteil, 01-0512	S355
3.2	1	Lagerbuchse mitte und oben	Drehteil, 01-0616	S355
2	1	Welle $\phi 35 \times \dots$ Länge je nach Typ	Drehteil, 01-0614	
1	1	Außenrohr $\phi 101,6 \times 3,6 \times \dots$ Länge je nach Typ	Zeichn.-Nr. 93-1258	S235
Pos.	Anz	Beschreibung	Norm	Material

Maßstab 1:1		[Gewicht]	
(Benennung)			
Mittlere Lagerung im Schnitt			
Mixer Typ E-102 und L/E-102			
[Zeichnungsnummer]		Blatt	
01-0611b		1-1	
Verz. 01-0611b.DWG		Bl	
Plot Datum:		1	


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25.2	6	Federring Ø 8	DIN 127	A2
25.1	6	Zylinderkopfschraube M 8 x 30	DIN 912	A2
24	1	Sechskantmutter M 24 selbstsichernd	DIN 985	8 verz.
23	1	Scheibe Ø 25	DIN 125 - A	Stahl verz.
22	1	Kegelschmiernippel M 8 x 180°	DIN 71412-A	Stahl verz.
21	1	Paßfeder 10 x 8 x ... 50	DIN 6885-A	E335
Pos.	Anz	Beschreibung	Norm	Material
		Maßstab 1:1		(Gewicht)
		Allgemein-toleranzen		
c	Zeichn. überarb.	16.05.06	Sack	DIN ISO 2768-f
b	Zeichn. überarb.	10.07.03	Sack	Name
a	Zeichn. 90.0106 ü.	21.06.01	Sack	U. Sack
Zust.	Änderung	Datum	Name	Gepr.
		KARL BUSCHMANN MASCHINENBAU GmbH · HAMMINKELN INDUSTRIESSTRASSE 18 · D-46499 HAMMINKELN · TELEFON (02852) 9649-0 · TELEFAX 3862		
		(Benennung) Untere Lagerung im Schnitt Mixer Typ E-102 (Zeichnungsnummer) 01-0613b		
		Verz. 01-0613b.DWG		Plot Datum:

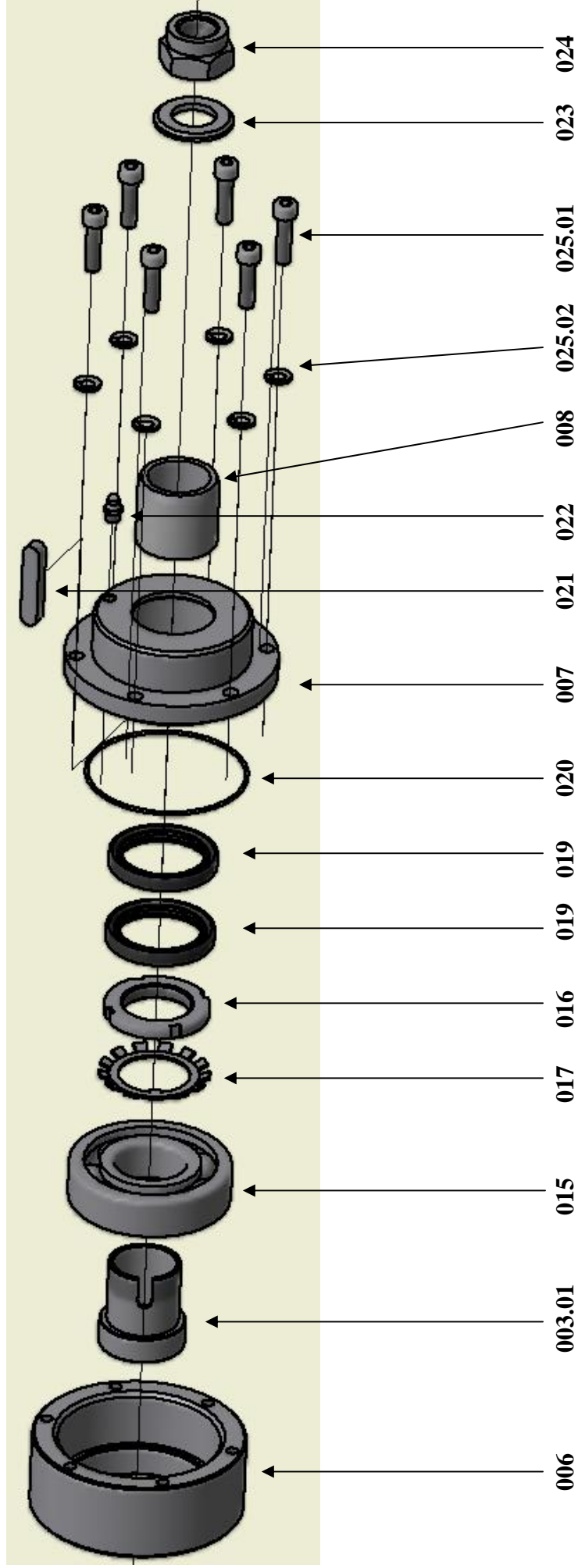
20	1	0-Ring Ø 88,64 x 1,78	DIN 3770	NBR	
19	2	Wellendichtring Ø 60 x Ø 45 x 10	DIN 3760	NBR	
17	1	Sicherungsblech MB8	DIN 5409	Stahl	
16	1	Wellenmutter KM8	DIN 981	Stahl	
15	1	Rillenkugellager 6308 2RS	DIN 625		
10	1	Rührflügel	Zeichn. Nr. 01-0621	S355 / S235	
8	1	Verschleißring unten	Drehteil, 01-0619	1.4305	
7	1	Verschleißdeckel unten	Drehteil, 01-0622	S355	
6	1	Lageraufnahme unten	Drehteil, 01-0618	S355	
3.1	1	Lagerbuchse unten	Drehteil, 01-0615	S355	
2	1	Welle Ø 35 x ... Länge je nach Typ	Drehteil, 01-0614	C45	
1	1	Außenrohr Ø 101,6 x 3,6 x ... Länge je nach Typ	Zeichn. Nr. 93-1258	S235JRH	
Pos.	Anz	Beschreibung	Norm	Material	

CAD-ZEICHNUNG - keine manuelle Änderung!
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GÜLLERÜHRWERKE**

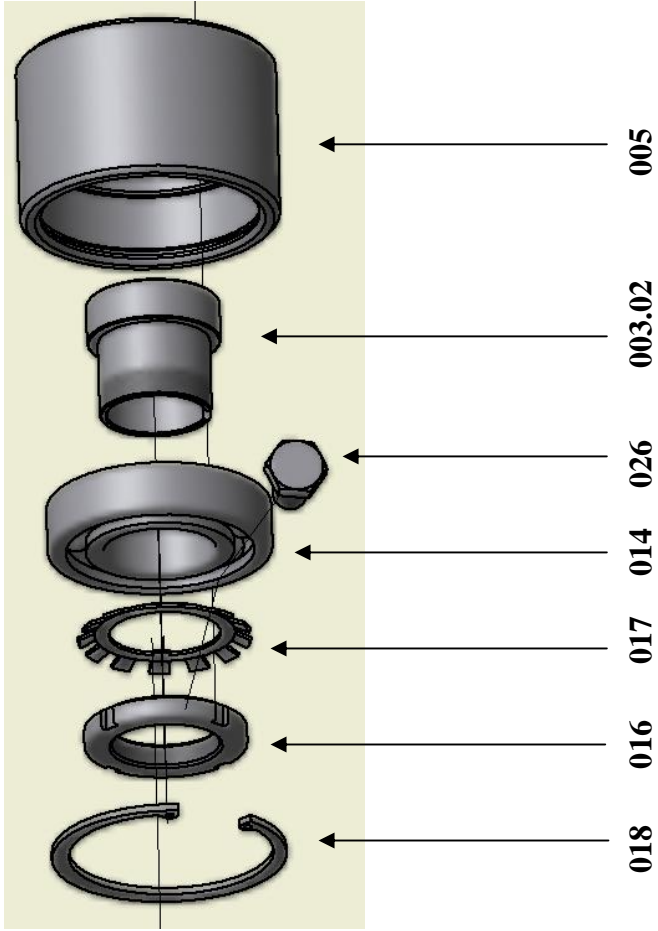
Untere Lagerung Typ E-102



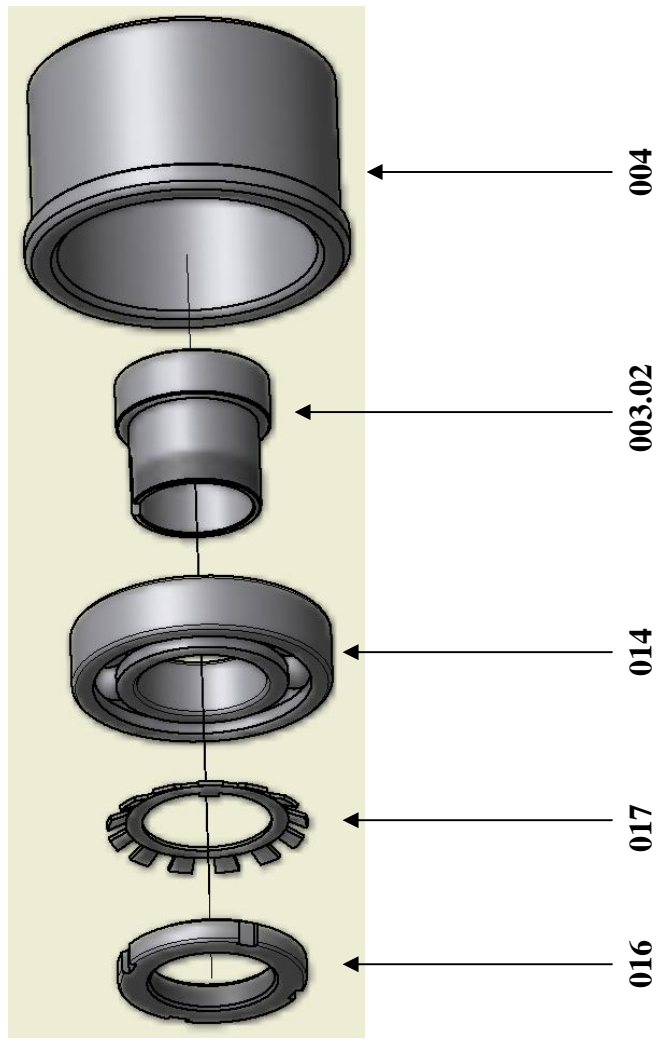


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Mittlere Lagerung Typ E-102 (Anzahl längenabhängig)



Obere Lagerung Typ E-102 (Schlepperseitig)



Detail drawings

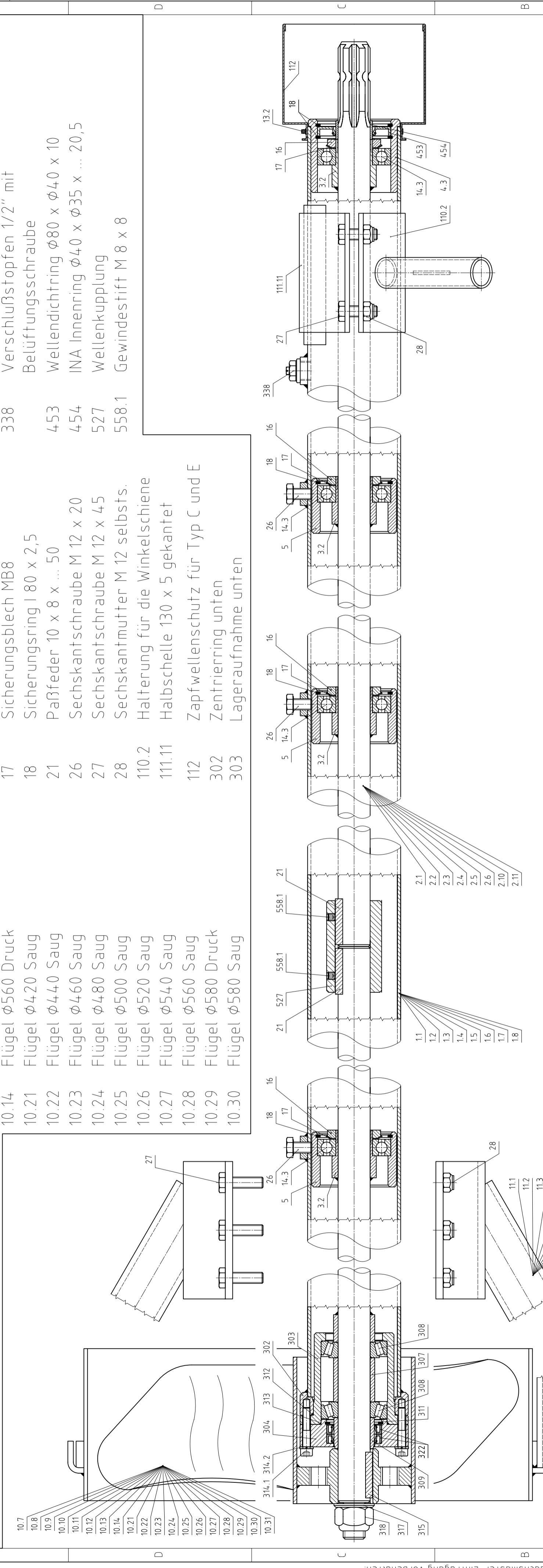
Type

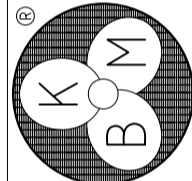
E-102

Design

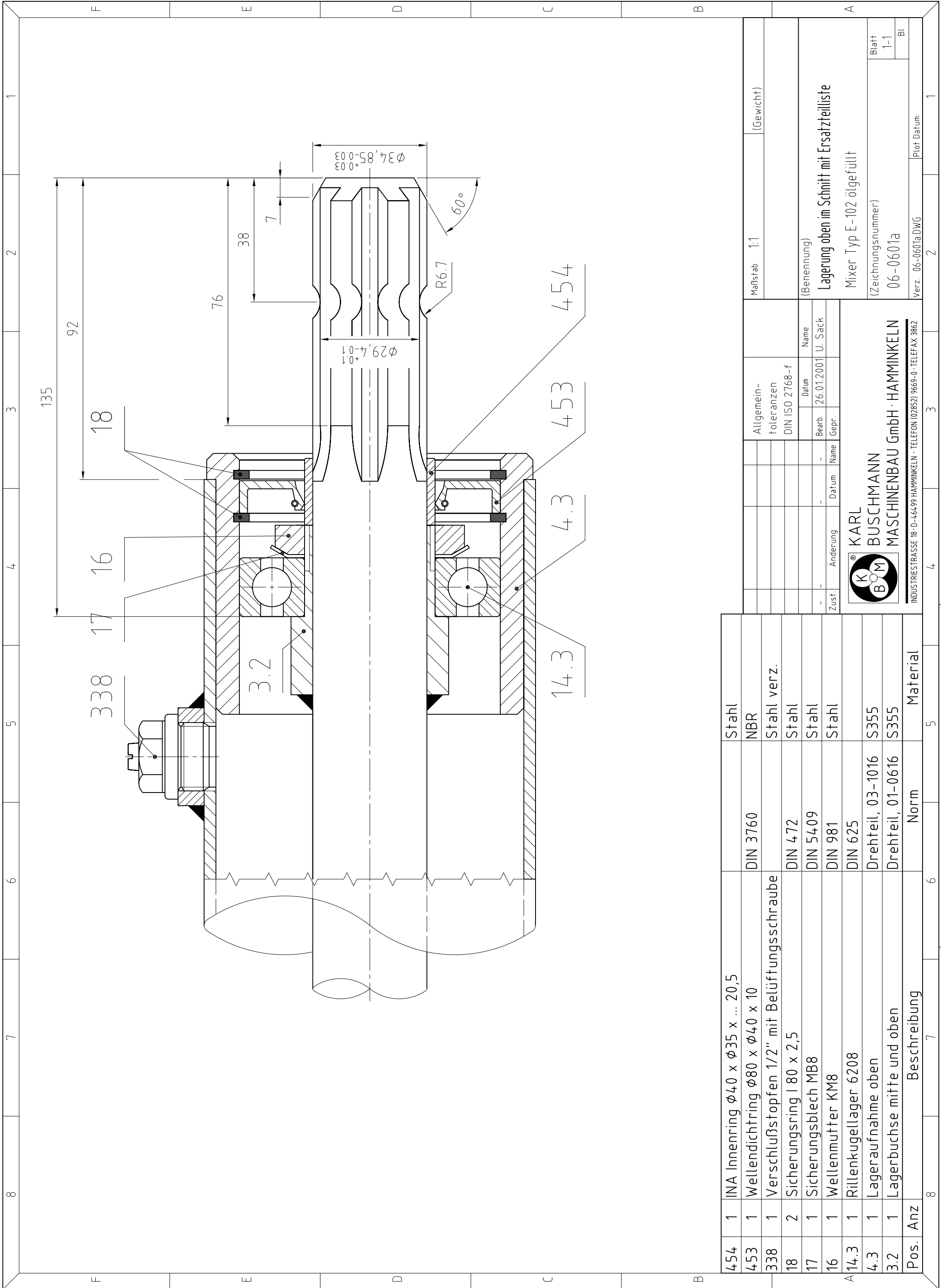
Oil filling

1.1	Außenrohr Typ E, Gesamtlänge 3.700	2.6	Antriebswelle Typ E-102 x 9.000	10.31	Flügel Ø600 Druck	304	Verschlussdeckel unten
1.2	Außenrohr Typ E, Gesamtlänge 4.200	2.10	Antriebswelle Typ E-102 x 3.700	11.19	Rührwerkskorb 450 x 450 / Ø410	307	Distanzbuchse
1.3	Außenrohr Typ E, Gesamtlänge 4.600	2.11	Antriebswelle Typ E-102 x 4.600	11.1	Rührwerkskorb 540 x 540 / Ø500	308	Kegelrollenlager 30207
1.4	Außenrohr Typ E, Gesamtlänge 5.200	3.2	Lagerbuchse mitte und oben	11.2	Rührwerkskorb 600 x 600 / Ø560	309	Verschleißring unten
1.5	Außenrohr Typ E, Gesamtlänge 6.000	4.3	Lageraufnahme oben	11.3	Rührwerkskorb 625 x 625 / Ø590	311	Sicherungsring l 60 x 2,0
1.6	Außenrohr Typ E, Gesamtlänge 7.000	5	Lageraufnahme	11.4	Rührwerkskorb 700 x 700 / Ø590	312	O-Ring Ø88,64 x 1,78
1.7	Außenrohr Typ E, Gesamtlänge 8.000	10.7	Flügel Ø420 Druck	11.5	Rührwerkskorb Ø720 / Ø590	313	O-Ring Ø72,74 x 1,78
1.8	Außenrohr Typ E, Gesamtlänge 9.000	10.8	Flügel Ø440 Druck	11.6	Rührwerkskorb Ø780 / Ø650	314.1	Zylinderkopfschraube M 8 x 45
2.1	Antriebswelle Typ E-102 x 4.200	10.9	Flügel Ø460 Druck	11.7	Rührwerkskorb 700 x 700 / Ø650	314.2	Federring Ø8
2.2	Antriebswelle Typ E-102 x 5.200	10.10	Flügel Ø480 Druck	11.8	Rührwerkskorb 500 x 500 / Ø460	315	Paßfeder 10 x 8 x ... 50
2.3	Antriebswelle Typ E-102 x 6.000	10.11	Flügel Ø500 Druck	13.2	Schellenband	317	Scheibe Ø25
2.4	Antriebswelle Typ E-102 x 7.000	10.12	Flügel Ø520 Druck	14.3	Rillenkugellager 6208	318	Sechskantmutter M 24 selbsts.
2.5	Antriebswelle Typ E-102 x 8.000	10.13	Flügel Ø540 Druck	16	Wellenmutter KM8	322	Wellendichtring Ø60 x Ø44 x 10
		10.14	Flügel Ø560 Druck	17	Sicherungsblech MB8	338	Verschlussstopfen 1/2" mit Belüftungsschraube
		10.21	Flügel Ø420 Saug	18	Sicherungsring l 80 x 2,5	453	Wellendichtring Ø80 x Ø40 x 10
		10.22	Flügel Ø440 Saug	21	Paßfeder 10 x 8 x ... 50	454	INA Innenring Ø40 x Ø35 x ... 20,5
		10.23	Flügel Ø460 Saug	26	Sechskantschraube M 12 x 20	527	Wellenkupplung
		10.24	Flügel Ø480 Saug	27	Sechskantschraube M 12 x 45	558.1	Gewindestift M 8 x 8
		10.25	Flügel Ø500 Saug	28	Sechskantmutter M 12 selbsts.		
		10.26	Flügel Ø520 Saug	110.2	Halterung für die Winkelschiene		
		10.27	Flügel Ø540 Saug	111.11	Halbschelle 130 x 5 gekantet		
		10.28	Flügel Ø560 Saug	112	Zapfwellenschutz für Typ C und E		
		10.29	Flügel Ø580 Druck	302	Zentriering unten		
		10.30	Flügel Ø580 Saug	303	Lageraufnahme unten		

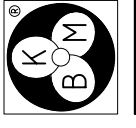


Maßstab 1:1 (Gewicht)		Allgemein-toleranzen DIN ISO 2768-f	
(Benennung)		Datum Name	
Ersatzteilliste E-102 ölfüllt		08.02.2005 U. Sack	
Mixer Typ E-102		Sack Name	
(Zeichnungsnummer)		Gepr.	
01-0108f			
Verz. 01-0108f.DWG			
 KARL BUSCHMANN MASCHINENBAU GmbH · HAMMINKELN			
<small>INDUSTRIESTRASSE 18 · D-46499 HAMMINKELN · TELEFON (02852) 9669-0 · TELEFAX 3862</small>			

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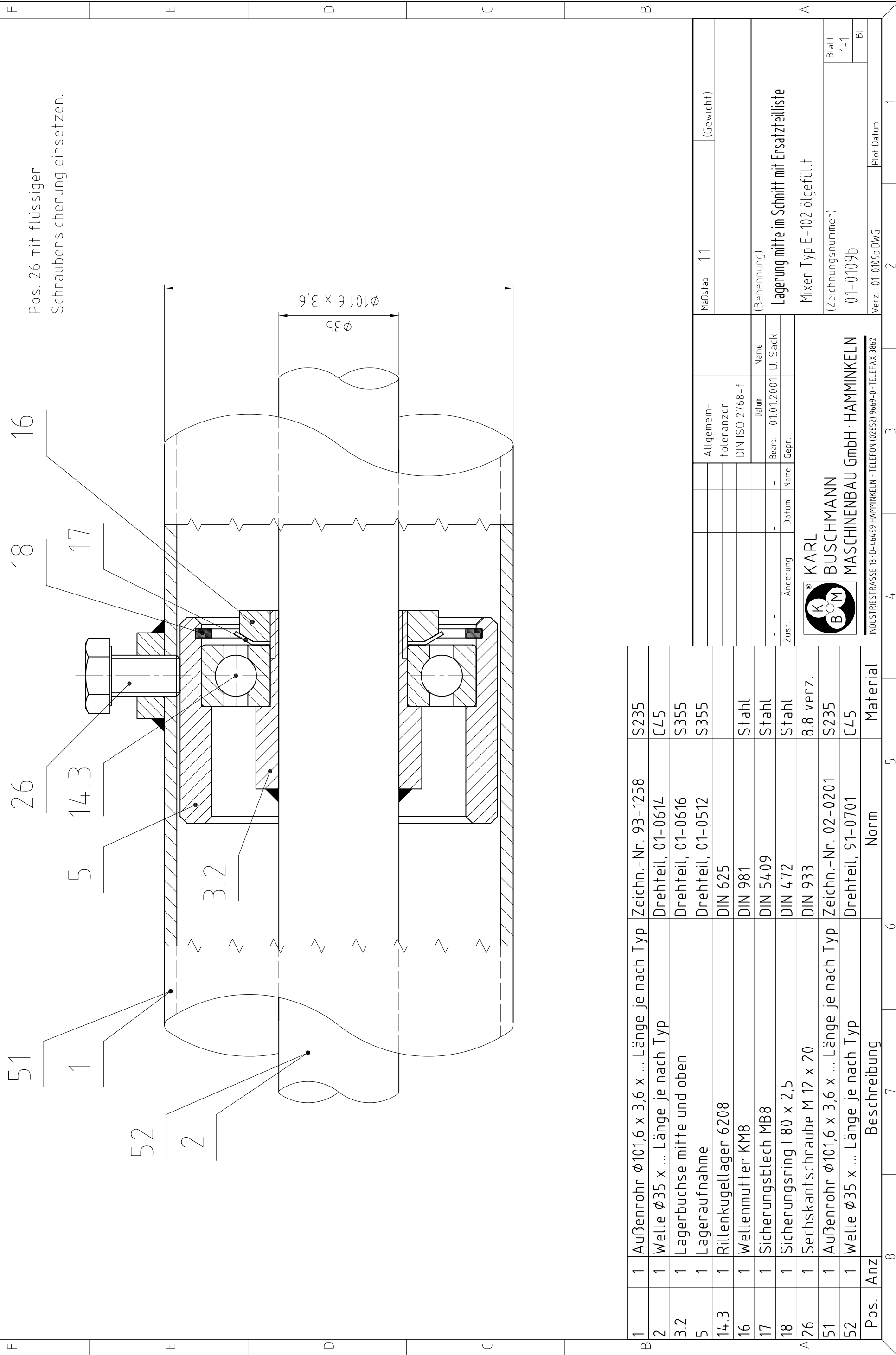


454	1	INA Innenring $\phi 40 \times \phi 35 \times \dots 20,5$	DIN 3760	Stahl	
453	1	Wellendichtring $\phi 80 \times \phi 40 \times 10$		NBR	
338	1	Verschlößstopfen 1/2" mit Belüftungsschraube		Stahl verz.	
18	2	Sicherungsring I 80 x 2,5	DIN 472	Stahl	
17	1	Sicherungsblech MB8	DIN 5409	Stahl	
16	1	Wellenmutter KM8	DIN 981	Stahl	
A14.3	1	Rillenkugellager 6208	DIN 625		
4.3	1	Lageraufnahme oben	Drehteil, 03-1016	S355	
3.2	1	Lagerbuchse mitte und oben	Drehteil, 01-0616	S355	
Pos.	Anz	Beschreibung	Norm	Material	

Maßstab 1:1		[Gewicht]	
Allgemein-toleranzen DIN ISO 2768-f		Datum	
Bearb.	26.01.2001	Name	U. Sack
Zust.	-	Änderung	Datum
 KARL BUSCHMANN MASCHINENBAU GmbH · HAMMINKELN INDUSTRIESSTRASSE 18 · D-46499 HAMMINKELN · TELEFON 02852 9669-0 · TELEFAX 3862			

(Benennung)		Lagerung oben im Schnitt mit Ersatzteilliste	
Mixer Typ E-102 ölfgefüllt		Blatt 1-1	
06-0601a		Bl	
Verz. 06-0601a.DWG		Plot Datum:	

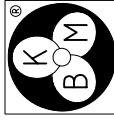
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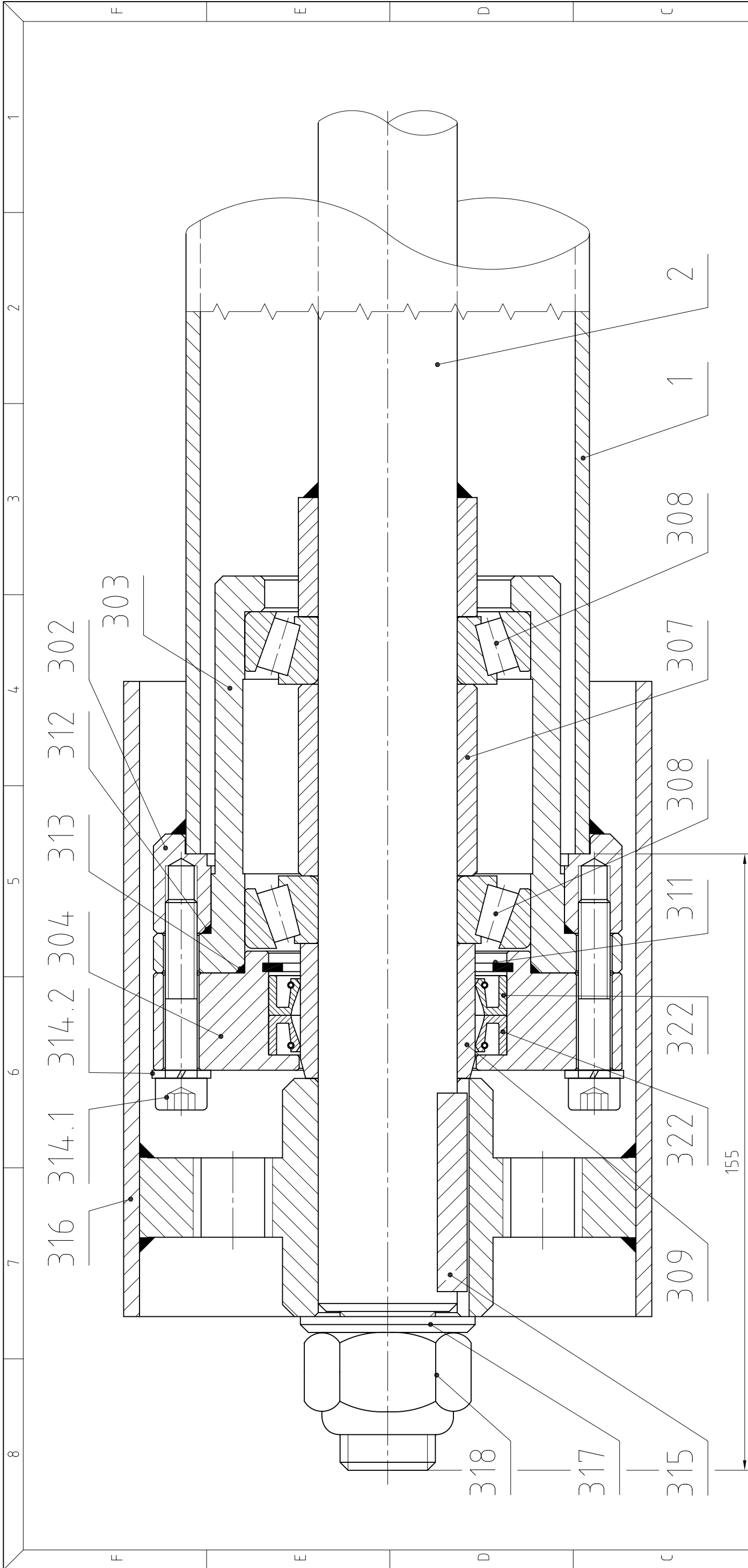


Pos. 26 mit flüssiger Schraubensicherung einsetzen.

1	Außenrohr $\phi 101,6 \times 3,6 \times \dots$ Länge je nach Typ	Zeichn.-Nr. 93-1258	S235	
2	Welle $\phi 35 \times \dots$ Länge je nach Typ	Drehteil, 01-0614	C45	
3.2	Lagerbuchse mitte und oben	Drehteil, 01-0616	S355	
5	Lageraufnahme	Drehteil, 01-0512	S355	
14.3	Rillenkugellager 6208	DIN 625		
16	Wellenmutter KM8	DIN 981	Stahl	
17	Sicherungsblech MB8	DIN 5409	Stahl	
18	Sicherungsring I 80 x 2,5	DIN 472	Stahl	
A26	Sechskantschraube M 12 x 20	DIN 933	8.8 verz.	
51	Außenrohr $\phi 101,6 \times 3,6 \times \dots$ Länge je nach Typ	Zeichn.-Nr. 02-0201	S235	
52	Welle $\phi 35 \times \dots$ Länge je nach Typ	Drehteil, 91-0701	C45	
Pos.	Anz	Beschreibung	Norm	Material
	8			

Maßstab	1:1	[Gewicht]
	(Benennung)	
Lagerung mitte im Schnitt mit Ersatzteilliste		
Mixer Typ E-102 ölfgefüllt		
[Zeichnungsnummer]		
01-0109b		
Verz. 01-0109b.DWG		
Plot Datum:		
1		


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315	1	Paßfeder 10 x 8 x ... 50	DIN 6885-A	E335	322	2	Wellendichtring $\phi 60 \times \phi 44 \times 10$	DIN 3760	NBR
314.2	6	Federring $\phi 8$	DIN 127	A2	318	1	Sechskantmutter M 24 selbstsichernd	DIN 985	8 verz.
314.1	6	Zylinderkopfschraube M 8 x 45	DIN 912	A2	317	1	Scheibe $\phi 25$	DIN 125 - A	Stahl verz.
313	1	O-Ring $\phi 72,74 \times 1,78$	DIN 3770	NBR	316	1	Rührflügel		S355 / S235
312	1	O-Ring $\phi 88,64 \times 1,78$	DIN 3770	NBR	Pos. Anz		Beschreibung	Norm	Material
311	1	Sicherungsring I 60 x 2,0	DIN 472	Stahl					
309	1	Verschleißring unten	Drehteil, 01-0605	1.4305					
308	2	Kegelrollenlager 30207	DIN 720						
307	1	Distanzbuchse	Drehteil, 01-0708	S355					
304	1	Verschlußdeckel unten	Drehteil, 01-0710	S355					
303	1	Lageraufnahme unten	Drehteil, 90-0303	S355					
302	1	Zentrierung unten	Drehteil, 90-0307	S355					
2	1	Welle $\phi 35 \times \dots$ Länge je nach Typ	Drehteil, 01-0614	C45					
1	1	Außenrohr $\phi 101,6 \times 3,6 \times \dots$ Länge je nach Typ	Zeichn.-Nr. 93-1258	S235					
Pos. Anz		Beschreibung	Norm	Material					

CAD-ZEICHNUNG - keine manuelle Änderung!
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Lagerung unten im Schnitt

Mixer Typ E-102, L/E-102 und HEM ölfüllf

(Benennung)
 Lagerung unten im Schnitt
 (Zeichnungsnummer)
 01-0107b

Maßstab 1:1 (Gewicht)

Allgemein-
 toleranzen
 DIN ISO 2768-f

a Zeichn. überarb. 15.06.2006 Sack Datum Name Gepr.
 U. Sack
 26.01.2001

Verz. 01-0107b.DWG
 Plot Datum: 1

8 7 6 5 4 3 2 1

F E D C B A

8

7

6

5

4

3

2

1

Detail drawings

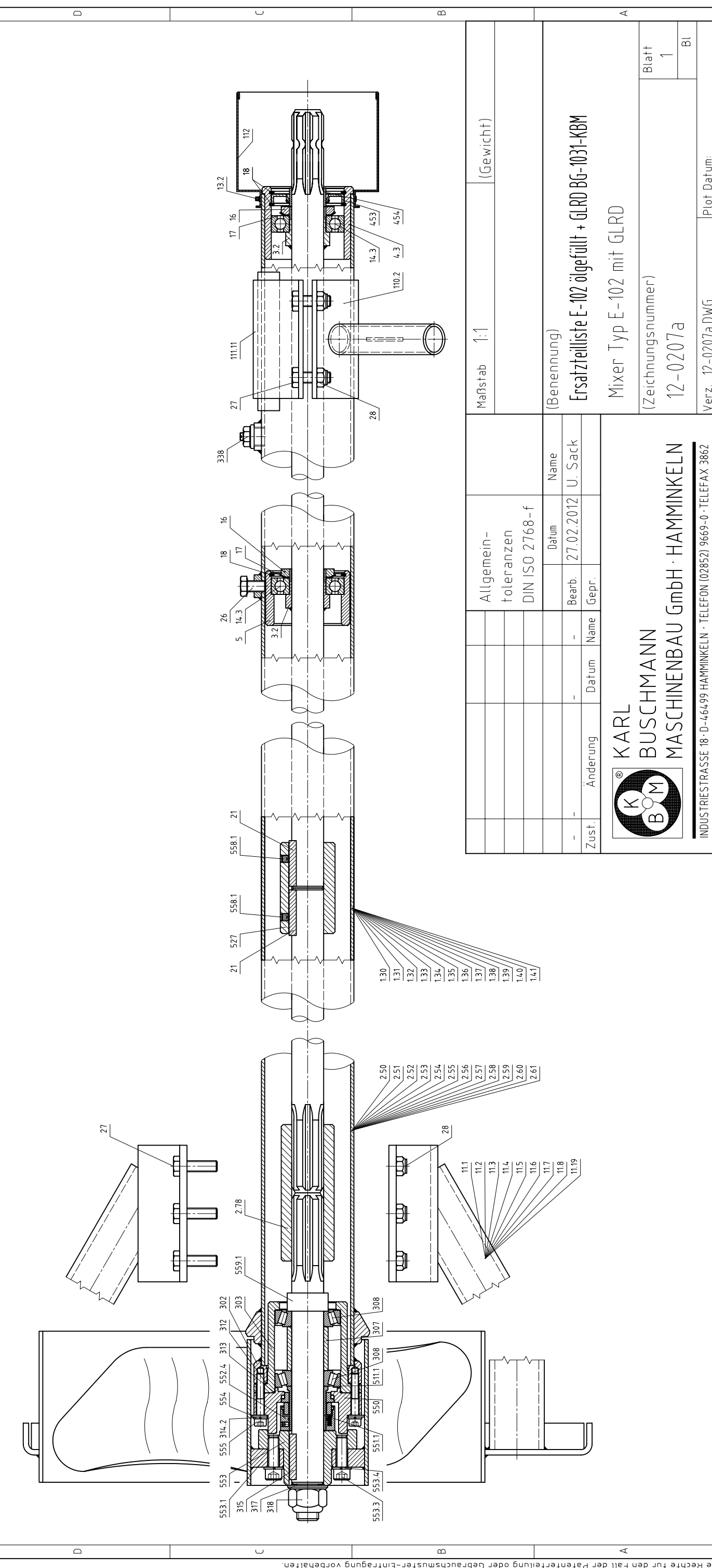
Type

E-102

Design

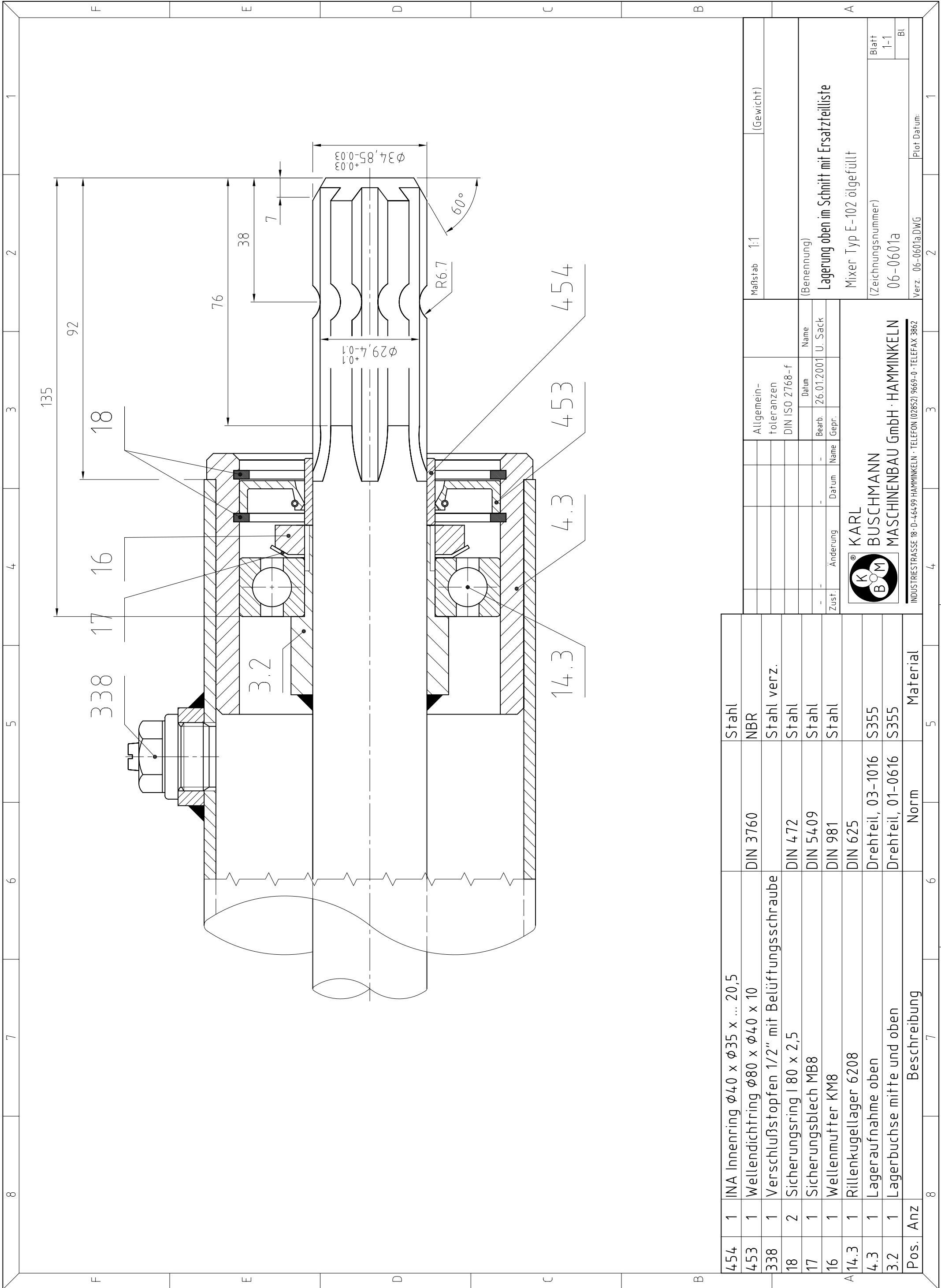
Oil filling with mechanical seal

1.30	Außenrohr Typ E mit GLRD, Gesamtlänge 3.200	4.3	Lageraufnahme oben	308	Kegelrollenlager 30207
1.31	Außenrohr Typ E mit GLRD, Gesamtlänge 3.700	5	Lageraufnahme	312	O-Ring Ø88,64 x 1,78
1.32	Außenrohr Typ E mit GLRD, Gesamtlänge 4.200	11.1	Rührwerkskorb 540 x 540 / Ø500	313	O-Ring Ø72,74 x 1,78
1.33	Außenrohr Typ E mit GLRD, Gesamtlänge 4.600	11.2	Rührwerkskorb 600 x 600 / Ø560	314.2	Federring Ø8
1.34	Außenrohr Typ E mit GLRD, Gesamtlänge 5.200	11.3	Rührwerkskorb 625 x 625 / Ø590	315	Paßfeder 10 x 8 x ... 50
1.35	Außenrohr Typ E mit GLRD, Gesamtlänge 6.000	11.4	Rührwerkskorb 700 x 700 / Ø590	317	Scheibe Ø25
1.36	Außenrohr Typ E mit GLRD, Gesamtlänge 7.000	11.5	Rührwerkskorb Ø720 / Ø590	318	Sechskantmutter M 24 selbstsichernd
1.37	Außenrohr Typ E mit GLRD, Gesamtlänge 8.000	11.6	Rührwerkskorb Ø780 / Ø650	338	Verschlußstopfen 1/2" mit Belüftungsschraube
1.38	Außenrohr Typ E mit GLRD, Gesamtlänge 9.000	11.7	Rührwerkskorb 700 x 700 / Ø650	4.54	Wellendichtring Ø80 x Ø40 x 10
1.39	Außenrohr Typ E mit GLRD, Gesamtlänge 10.000	11.8	Rührwerkskorb 500 x 500 / Ø460	511.1	INA Innenring Ø40 x Ø35 x ... 20,5
1.40	Außenrohr Typ E mit GLRD, Gesamtlänge 11.000	11.19	Rührwerkskorb 450 x 450 / Ø440	527	O-Ring Ø33,05 x 1,78
1.41	Außenrohr Typ E mit GLRD, Gesamtlänge 12.000	13.2	Schellenband	550	Wellenkupplung
2.50	Antriebswelle für Typ E-102 mit BG-1031-KBM GLRD x 3.200	14.3	Rillenkugellager 6208	551.1	Dichtungsaufnahme für GLRD
2.51	Antriebswelle für Typ E-102 mit BG-1031-KBM GLRD x 3.700	16	Wellenmutter KM8	552.4	Distanzbuchse
2.52	Antriebswelle für Typ E-102 mit BG-1031-KBM GLRD x 4.200	17	Sicherungsblech MB8	553.4	Gleitringdichtung 1031-12-KBM
2.53	Antriebswelle für Typ E-102 mit BG-1031-KBM GLRD x 4.600	18	Sicherungsring I 80 x 2,5	553	Flügelnarbe auf der Welle
2.54	Antriebswelle für Typ E-102 mit BG-1031-KBM GLRD x 5.200	21	Paßfeder 10 x 8 x ... 50	553.1	Flügelnarbe im Rohr
2.55	Antriebswelle für Typ E-102 mit BG-1031-KBM GLRD x 6.000	26	Sechskantschraube M 12 x 20	553.3	Zylinderkopfschraube M 12 x 35
2.56	Antriebswelle für Typ E-102 mit BG-1031-KBM GLRD x 7.000	27	Sechskantschraube M 12 x 45	553.4	Federring Ø13
2.57	Antriebswelle für Typ E-102 mit BG-1031-KBM GLRD x 8.000	28	Sechskantmutter M 12 selbstsichernd	554	Schmutzabweiser
2.58	Antriebswelle für Typ E-102 mit BG-1031-KBM GLRD x 9.000	110.2	Halterung für die Winkelschiene	555	Zylinderkopfschraube M 8 x 50
2.59	Antriebswelle für Typ E-102 mit BG-1031-KBM GLRD x 10.000	111.11	Halbschelle 130 x 5 gekantet	558.1	Gewindestift M 8 x 8
2.60	Antriebswelle für Typ E-102 mit BG-1031-KBM GLRD x 11.000	112	Zapfwellenschutz für Typ C und E	559.1	Welle unten
2.61	Antriebswelle für Typ E-102 mit BG-1031-KBM GLRD x 12.000	302	Zentrierung unten		
2.78	Wellenkupplung mit Profil nach DIN 9611	303	Lageraufnahme unten für 30207 Kegelrollenlager		
3.2	Lagerbuchse mitte und oben	307	Lageraufnahme		



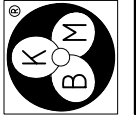
Allgemein-toleranzen DIN ISO 2768-f		Datum 27.02.2012		Name U. Sack	
Zust.	Änderung	Datum	Name	Gepr.	
-	-	-	-	-	-
 KARL BUSCHMANN MASCHINENBAU GmbH · HAMMINKELN					
INDUSTRIESTRASSE 18 · D-46499 HAMMINKELN · TELEFON (02852) 9669-0 · TELEFAX 3862					

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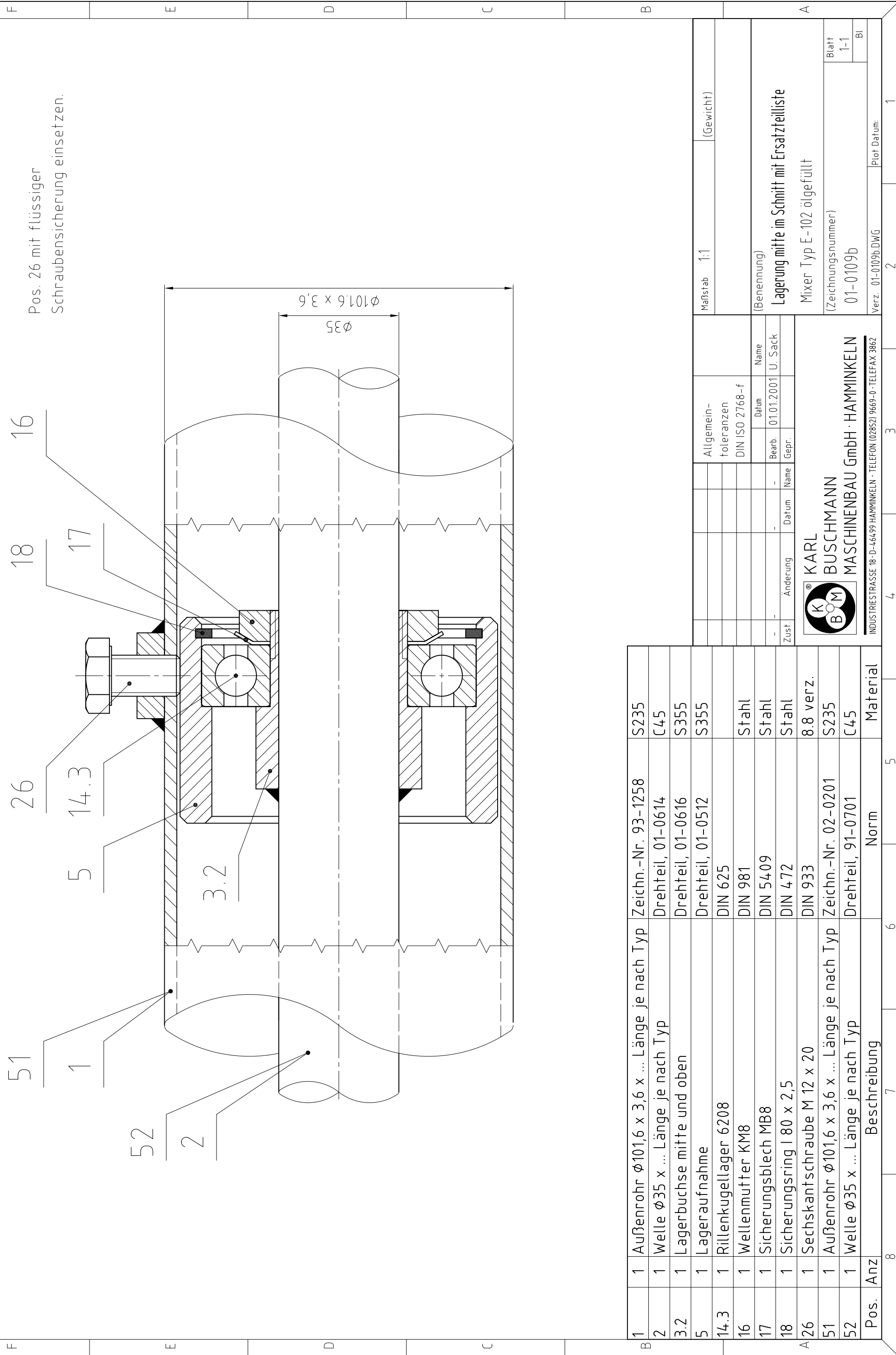


454	1	INA Innenring $\phi 40 \times \phi 35 \times \dots 20,5$		Stahl	
453	1	Wellendichtring $\phi 80 \times \phi 40 \times 10$	DIN 3760	NBR	
338	1	Verschlößstopfen 1/2" mit Belüftungsschraube		Stahl verz.	
18	2	Sicherungsring I 80 x 2,5	DIN 472	Stahl	
17	1	Sicherungsblech MB8	DIN 5409	Stahl	
16	1	Wellenmutter KM8	DIN 981	Stahl	
A14.3	1	Rillenkugellager 6208	DIN 625		
4.3	1	Lageraufnahme oben	Drehteil, 03-1016	S355	
3.2	1	Lagerbuchse mitte und oben	Drehteil, 01-0616	S355	
Pos.	Anz	Beschreibung	Norm	Material	

Zust.		Änderung		Datum		Name	
-	-	-	-	-	-	-	-
Bearb.		Datum		Name		U. Sack	
26.01.2001		26.01.2001		U. Sack		U. Sack	
Allgemein- toleranzen DIN ISO 2768-f				Maßstab 1:1 (Gewicht)			
Lagerung oben im Schnitt mit Ersatzteilliste							
Mixer Typ E-102 ölfgefüllt							
(Benennung)							
06-0601a							
Verz. 06-0601a.DWG							


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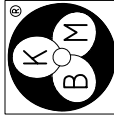
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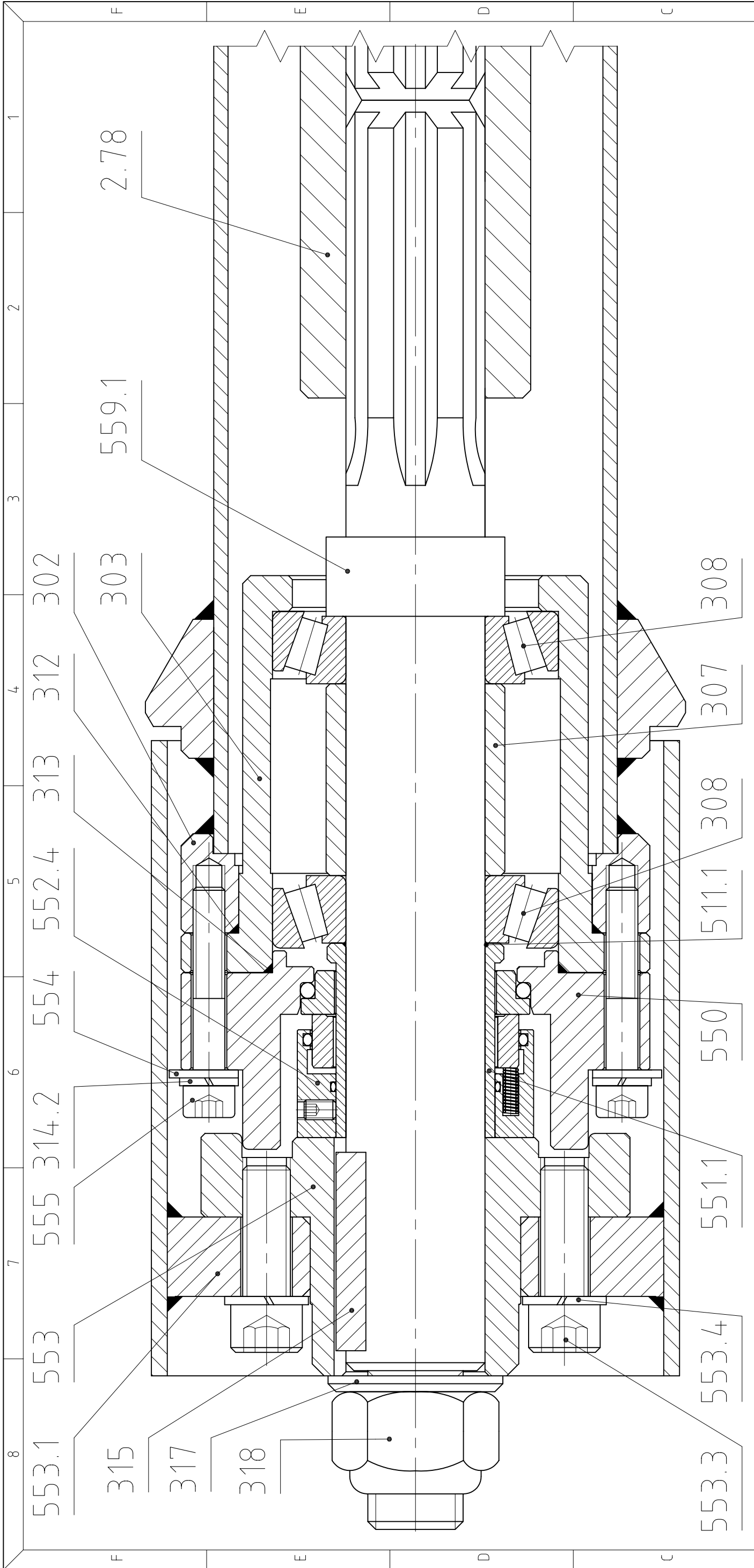


Pos. 26 mit flüssiger Schraubensicherung einsetzen.

1	Außenrohr $\phi 101,6 \times 3,6 \times \dots$ Länge je nach Typ	Zeichn.-Nr. 93-1258	S235	
2	Welle $\phi 35 \times \dots$ Länge je nach Typ	Drehteil, 01-0614	C45	
3.2	Lagerbuchse mitte und oben	Drehteil, 01-0616	S355	
5	Lageraufnahme	Drehteil, 01-0512	S355	
14.3	Rillenkugellager 6208	DIN 625		
16	Wellenmutter KM8	DIN 981	Stahl	
17	Sicherungsblech MB8	DIN 5409	Stahl	
18	Sicherungsring I 80 x 2,5	DIN 472	Stahl	
A26	Sechskantschraube M 12 x 20	DIN 933	8.8 verz.	
51	Außenrohr $\phi 101,6 \times 3,6 \times \dots$ Länge je nach Typ	Zeichn.-Nr. 02-0201	S235	
52	Welle $\phi 35 \times \dots$ Länge je nach Typ	Drehteil, 91-0701	C45	
Pos.	Anz	Beschreibung	Norm	Material
	8			

Maßstab	1:1	(Gewicht)
Allgemein-toleranzen DIN ISO 2768-f		
Datum		Name
Bearb.	01.01.2001	U. Sack
Zust.	Änderung	Datum
-	-	-
(Benennung)		
Lagerung mitte im Schnitt mit Ersatzteilliste		
Mixer Typ E-102 ölfgefüllt		
(Zeichnungsnummer)		
01-0109b		
Verz. 01-0109b.DWG		
Plot Datum:		
1		


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Pos.	Menge	Bezeichnung	Material	Norm	11-0211	1.4.305 / NBR / SIC	553.4	4	Federring ϕ 13	DIN 127	A2 / A4
2.78	1	Wellenkupplung mit Profil nach DIN 9611					554	1	Schmutzabweiser	00-0515	1.4.301/ 1.4.571
302	1	Zentrier링 unten	S355				555	6	Zylinderkopfschraube M 8 x 50	DIN 912	A2 / A4
303	1	Lageraufnahme unten	S355				559.1	1	Welle unten	09-1111	42CrMo4
307	1	Distanzbuchse	S355								
308	2	Kegelrollenlager 30207	DIN 720								
312	1	O-Ring ϕ 88,64 x 1,78	DIN 3770								
313	1	O-Ring ϕ 72,74 x 1,78	DIN 3770								
314.2	6	Federring ϕ 8	DIN 127								
315	1	Paßfeder 10 x 8 x ... 50	DIN 6885-A								
317	1	Scheibe ϕ 25	DIN 125 - B								
318	1	Sechskantmutter M 24 selbstsichernd	DIN 985								
A511.1	1	O-Ring ϕ 33,05 x 1,78	DIN 3770								
550	1	Dichtungsaufnahme für GLRD	S355								
551.1	1	Distanzbuchse	1.4.305								

Pos. 553.3 zusätzlich mit flüssiger Schraubensicherung gegen lösen sichern.
 Lagerspiel achsial 0,1- 0,2 mm.

Allgemeintoleranzen		Maßstab 1:1	
DIN ISO 2768-f		[Gewicht]	
Zust.	Änderung	Datum	Name
-	-	14.02.2012	U. Sack
Bearb.		Gepr.	
14.02.2012		U. Sack	

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