

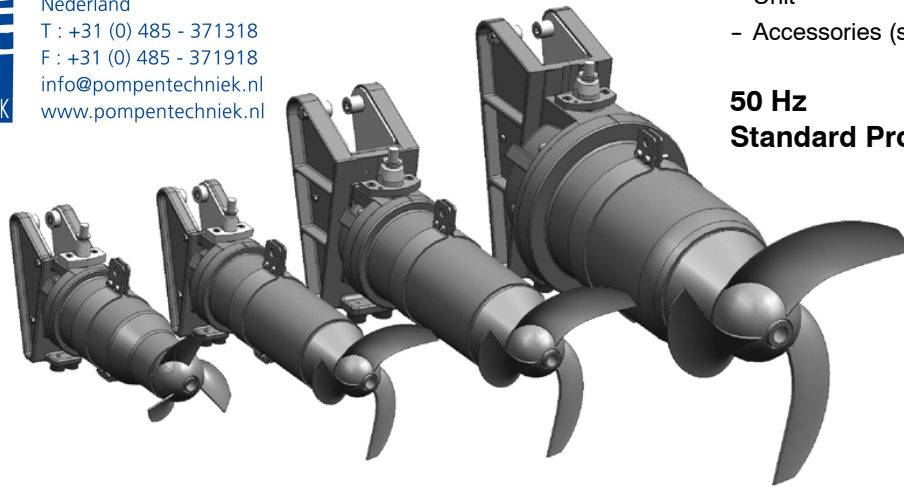


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## Submersible motor driven mixer

- Unit
- Accessories (standard)

**50 Hz  
Standard Programme**



## Areas of application

Submersible mixer type Amamix is used for handling municipal and industrial waste water and sludge in environmental engineering and other applications:

- Mixing tanks
- Sludge storage tanks
- Sludge thickeners
- Stormwater retention tanks
- Liquid manure tanks
- Nitrification tanks
- Denitrification tanks
- Phosphate removal tanks
- Flocculation tanks
- For flow acceleration
- Pump sumps
- Biogas digesters (fermenters)
- Biogas post digesters
- Biogas slurry tanks
- Biogas mixing tanks
- Digesters
- Ice prevention

## Operating data

Propeller diameter	D 225 mm ... 630 mm
Power rating	P up to 10 kW
Fluid temperature	t up to 40 °C
Installation depth	H up to 30 m

## Design

Horizontal submersible motor mixers with ECB propellers in close-coupled design, direct-driven.  
Also available as explosion-proof unit in acc. with ATEX II2G T4.

## Drive

Three-phase asynchronous motor 400 V/50 Hz,  
(Var. 500 V, 690 V).

## Bearing assembly

Maintenance-free grease-packed rolling element bearings, sealed for life.

## Shaft seal

Two bi-directional mechanical seals, with environmentally friendly oil chamber;  
dynamic sealing arrangement consisting of 2 mechanical seals (SiC/SiC) plus lip seals.

## Materials

Standard design in cast iron.  
Material variants in corrosion and wear-resistant stainless steel.

## Designation

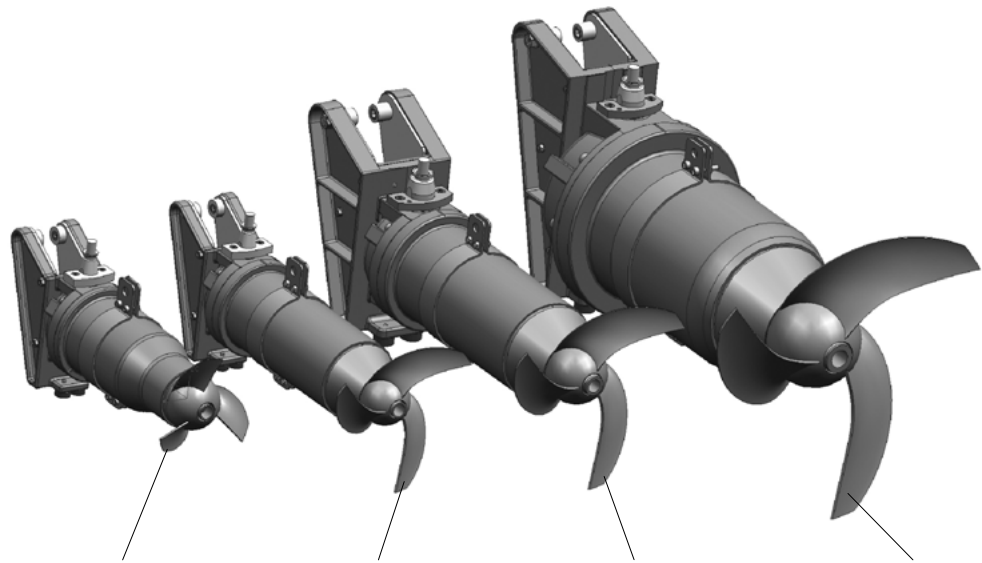
	<b>Amamix C 57 3 5 R 10 12 YD G</b>
Series	Amamix
Material variant of propeller	C
Code	57
No. of blades	3
Blade angle code	5
with jet ring	R
Motor size	10
No. of poles	12
Motor design	YD
Material variant of unit	G

**Table of contents**

	<b>Page</b>
Modular design of <b>Amamix</b> _____	3
Product advantages, example <b>Amamix 400 G</b> _____	4
Product advantages, example <b>Amamix 400 C</b> _____	5
Guarantee, testing and quality control, scope of supply, frequency inverter operation, warranty _____	6
Material variant, material comparison, oil fill for mech. seal reservoir, materials - information _____	7
TECHNICAL DETAILS - STANDARD PROGRAMME / ( <i>standard variants</i> ) _____	8
OPTIONS (extra charge) and information on special designs _____	9
General drawing with list of components (Example: Amamix C 4135/4 8 UDG) _____	10
General drawing with list of components (Example: Amamix C 4135/4 8 YDC) _____	11
Technical data _____	12-25
<b>Version without jet ring</b>	
Amamix 200 - material variant G                      Page 12	
Amamix 200 - material variant C                      Page 13	
Amamix 300 - material variant G                      Page 14	
Amamix 300 - material variant C                      Page 15	
Amamix 400 - material variant G                      Page 16	
Amamix 400 - material variant C                      Page 17	
Amamix 600 - material variant G                      Page 18	
Amamix 600 - material variant C                      Page 19	
<b>Version with jet ring</b>	
Amamix 300 - material variant G                      Page 20	
Amamix 300 - material variant C                      Page 21	
Amamix 400 - material variant G                      Page 22	
Amamix 400 - material variant C                      Page 23	
Amamix 600 - material variant G                      Page 24	
Amamix 600 - material variant G                      Page 25	
Overview of accessories _____	27
Standard accessories 6 _____	28-29
Standard accessories 7 _____	30-33
Standard accessories 22 / Accessories 22 - Options _____	34-55
Standard accessories 4 _____	56-57
Other accessories _____	58
Guide rails, minimum submergence and wall/floor clearance _____	59

**Modular design of Amamix**

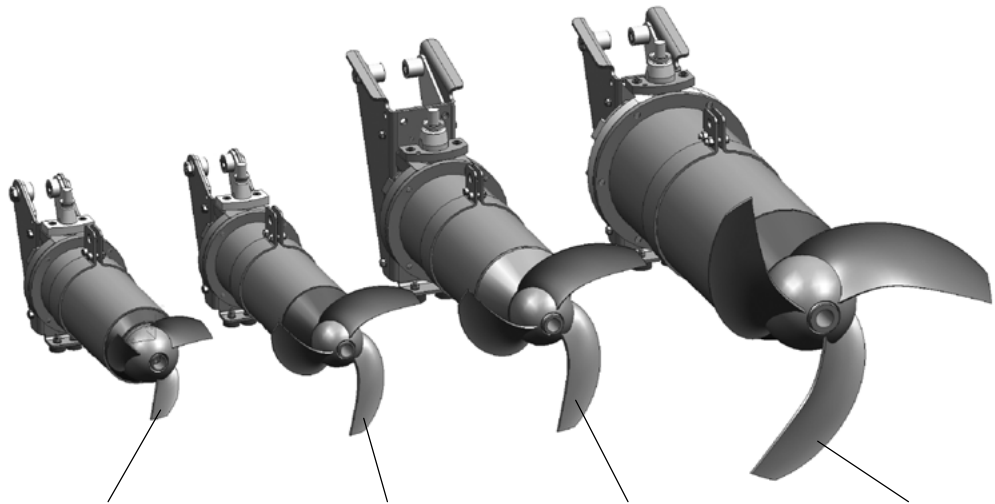
**Material variant: G**



UG 1081885

Propeller diameter	200	300	400	600
Motor size	1 4, 2 4	0 6, 2 6	3 8, 4 8	6 12, 10 12

**Material variant: C**

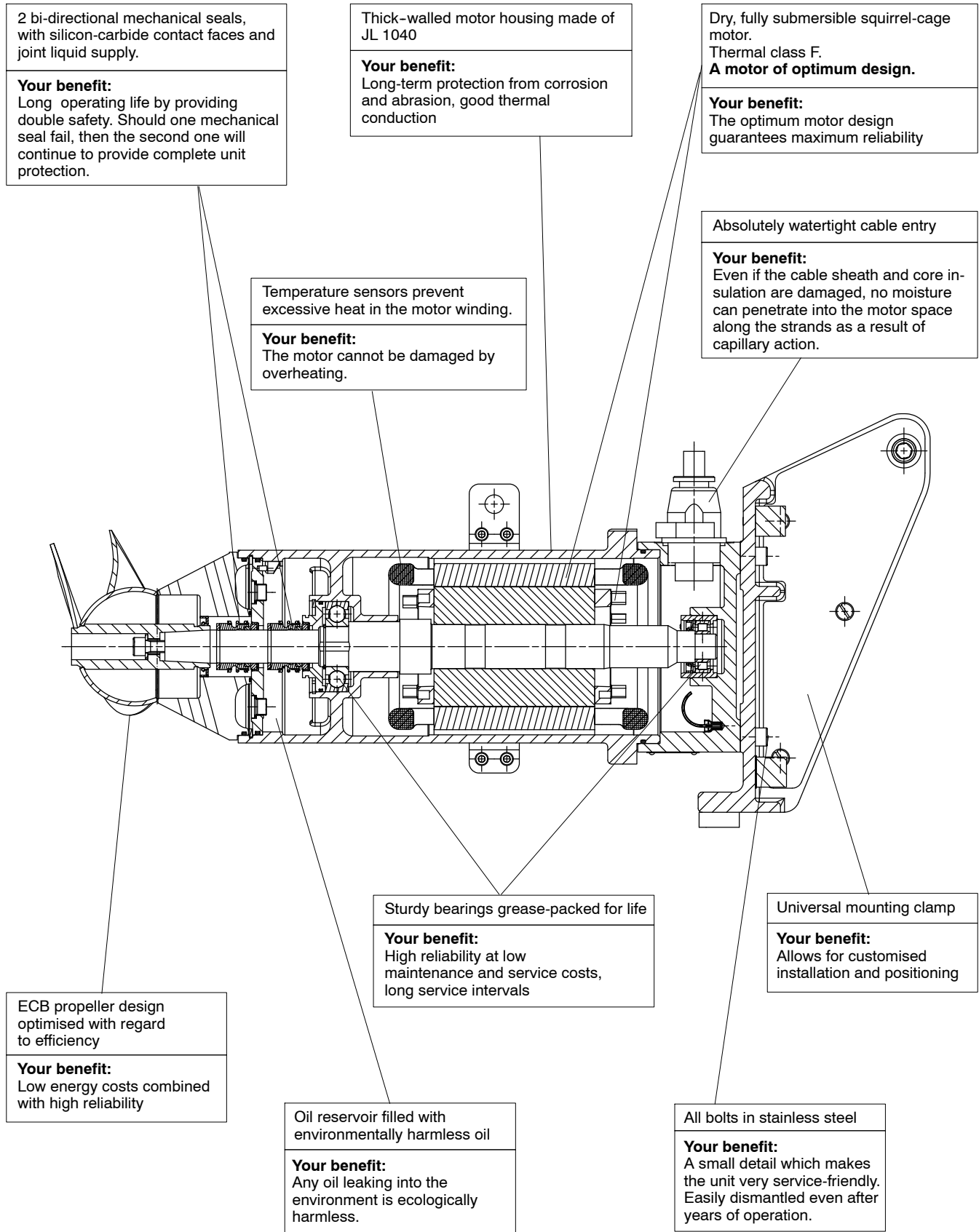


UG 1082232

Propeller diameter	200	300	400	600
Motor size	1 4, 2 4	0 6, 2 6	3 8, 4 8	4 12, 8 12

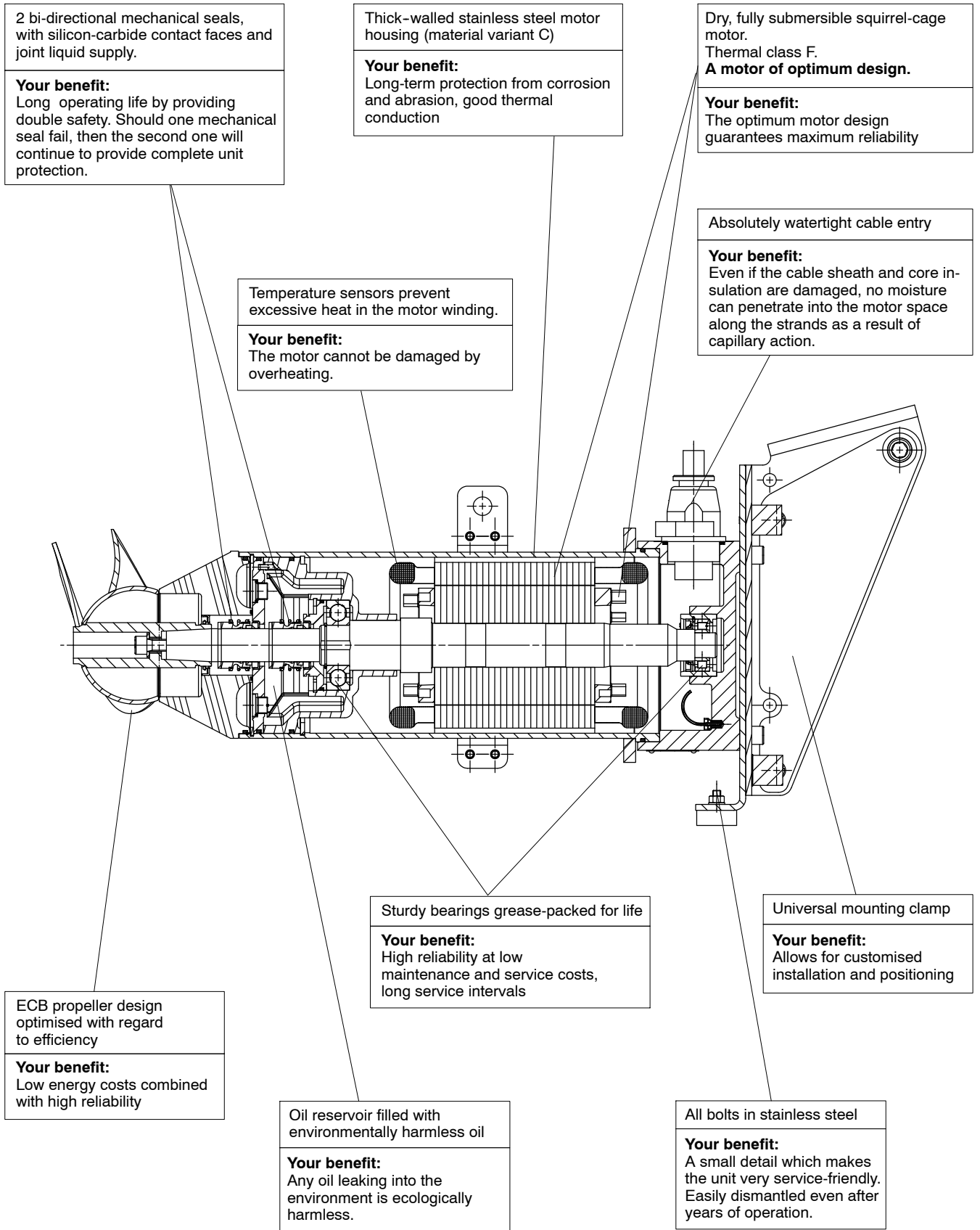
**Product advantages**

Example: **Amamix 400 G**



**Product advantages**

Example: **Amamix 400 C**



## Guarantee, testing and quality control

Every mixer undergoes an operational test in accordance with KSB standard ZN 56525 (dry running test). Quality assurance is guaranteed by a quality assurance system which has been assessed and certified to DIN EN ISO 9001. Special inspections on request.

## Scope of supply

- Amamix (standard):**
- Mixer with supporting clamp
  - cable support for power cable
  - 2 shackles (for lifting gear and cable support)
- Amamix (optional):**
- Standard accessories 4, 6, 7 or 22
  - clamp for stationary installation, accessories 7 and 22
  - jet ring Amamix 300 ... 600
  - pitch adapter

## Instructions relating to frequency inverter operation

All KSB mixers are suitable for frequency inverter operation. With motors the control range is 25 to 50 Hz. In addition to the reserve capacity provided for hydraulic reasons, a 5 % motor power reserve must be taken into account when operating the mixer with a frequency inverter.

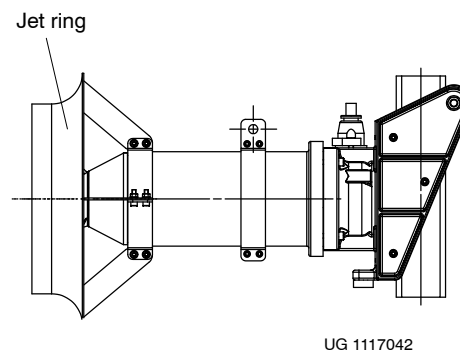
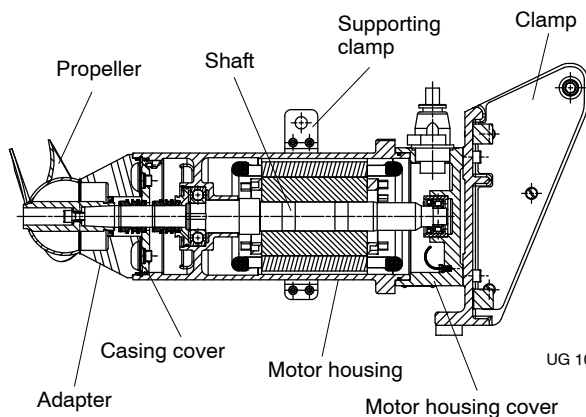
## Warranty conditions

Our warranty is based on and exclusively applicable to the fluid and tank/basin data provided by yourselves and applies to the relevant physical conditions. Claims which go beyond the aforementioned aspects as well as the hydraulic solids transportation of the entire system are excluded from our warranty obligations.

The overall function substantially depends on the correct positioning of the mixing equipment. We cannot accept any warranty claims resulting from a mixer positioning which has not explicitly been approved of by us.

Low-flow areas (flow separation) resulting from the tank geometry are not subject to the warranty either. Furthermore, we do not assume any responsibility for the utilisation of our mixers in protected/patented procedures and/or in case of protected rights of third parties.

Unauthorised modifications, the mixer's use for fluids and operating conditions not specified in the purchase order, as well as the use of non-KSB installation parts without KSB's prior consent will result in the forfeiture of any and all claims for damages! The same applies to consequential damage (e.g. resultant process downtime).



### Material variant

Part		Material variant	
		G	C
<b>Pump Unit</b>			
Motor housing		JL 1040	1.4581
Motor housing cover		JL 1040	1.4517
Casing cover		JL 1040	1.4571
Adapter (except 200 G)		PU	
Propeller	Amamix 200	PU (optional 1.4571)	1.4571
	other sizes	1.4571	
Mechanical seal	propeller side	SiC/SiC	
	motor side	SiC/SiC	
Shaft		1.4571 (Amamix 600 G in 1.4021)	
O-rings		Viton (FPM)	
Bolts		A4 (as 1.4571)	
Clamp		JL 1040	1.4571
Supporting clamp		1.4571	
Jet ring (option)		1.4571	
Power cable		EPR (optional ETFE)	

### Material comparison

EN	Similar to ASTM material
JL 10 40	A 48 Class 40 B
1.4517	A 890 CD 4 MCu
1.4571 / 1.4581	A 276 Type 316 Ti
1.4021	A 276 Type 420
PU (Polyurethane)	Polyurethane
FPM	FKM

JL 1040 → GG-25

### Oil fill for mech. seal reservoir

Amamix 200 G	0.3 l
Amamix 200 C	0.4 l
Amamix 300 G/C	0.4 l
Amamix 400 G/C	0.8 l
Amamix 600 G	2.4 l
Amamix 600 C	1.4 l

### Materials - Information

#### Grey Cast Iron JL 1040 (GG-25) Graphite cast iron

This graphite cast iron to DIN 1691 is used most commonly for pumping municipal sewage, foul water, sludges and storm and surface water. It is suitable for neutral and slightly aggressive fluids. The pH-value should be  $\geq 6.5$  and the sand content  $\leq 0.5$  g/l.

#### 1.4571 / 1.4581 (X10 CrNiMoTi 18 10) Austenitic steel

This austenitic steel acc. to DIN 17 440 is highly corrosion-resistant in municipal and chemical effluent and is resistant against intercrystalline corrosion due to its titanium stabilisation even when welded.

#### Duplex Steel Cast stainless steel (1.4517 or technically equivalent material)

The resistance to pitting of this ferritic-austenitic stainless cast steel makes it particularly suitable to pump waste water containing substantial amounts of chlorides and acids or sea and brackish water. Its good chemical resistance, even to phosphorus and sulphuric acid, makes it suitable for a wide range of applications in the chemical and process industries. Units manufactured in duplex steel have also been used very successfully to pump brine and chemical effluents (pH 1-12), foul water and seepage from waste tips.

**TECHNICAL DETAILS - STANDARD PROGRAMME / (Standard Variants)**
**Material variant: G, C**

Size	200	300	400	600	
<b>Motor size</b>					
	1 4 UD.., 2 4 UD..	0 6 UD.., 2 6 UD..	3 8 UD.., 4 8 UD..	6 12 UDG, 10 12 UDG Material variant G	4 12 UMC, 8 12 UMC Material variant C
	Standard				
	1 4 YD.., 2 4 YD..	0 6 YD.., 2 6 YD..	3 8 YD.., 4 8 YD..	6 12 YDG, 10 12 YDG Material variant G	4 12 YMC, 8 12 YMC Material variant C
	Explosion-proof Ex d IIB T4				
<b>Power rating</b>	up to 2.5 kW	up to 3.2 kW	up to 4 kW	up to 10 kW	
<b>Motor</b>					
Switching method	direct		direct or star-delta		
Voltage and frequency	400 V (500 V; 690 V on request) 50 Hz, suitable for frequency inverter operation				
Cooling	By surrounding fluid				
Immersion depth	up to 30 m				
<b>Power cable</b>					
Length	10 m ( <i>Var.: 15 m and 20 m, &gt;20 m on request</i> )				
Entry	cast in resin, completely watertight over its entire length				
Type	Rubber-sheathed cable S1BN8-F; ETFE (TESIRE) cable on request				
<b>Bearings</b>	Rolling element bearings - sealed for life				
<b>Sealing</b>					
O-rings	Viton (fluorocarbon rubber FPM)				
Shaft seal	bellows-type mechanical seal ( <i>Var.: mechanical seal with covered spring</i> )				
<b>Monitoring</b>					
Winding temperature	PTC resistor				
Motor leakage, mechanical seal leakage	Leakage detection electrode in the motor space ( <i>Var.: Additional leakage sensor in the oil reservoir; U version only, C only</i> )				
<b>Coating</b>					
Material <b>G</b>	2-comp. epoxy resin coating				
Material <b>C</b>	none				
<b>Admissible temperature of pumped fluid</b>	40 °C				
<b>Acceptance tests</b>					
	to ISO 9001 ( <i>Var.: with Test Report EN 10 204-2.2</i> )				
<b>Installation</b>					
Stationary	Installation depth up to 30 m				

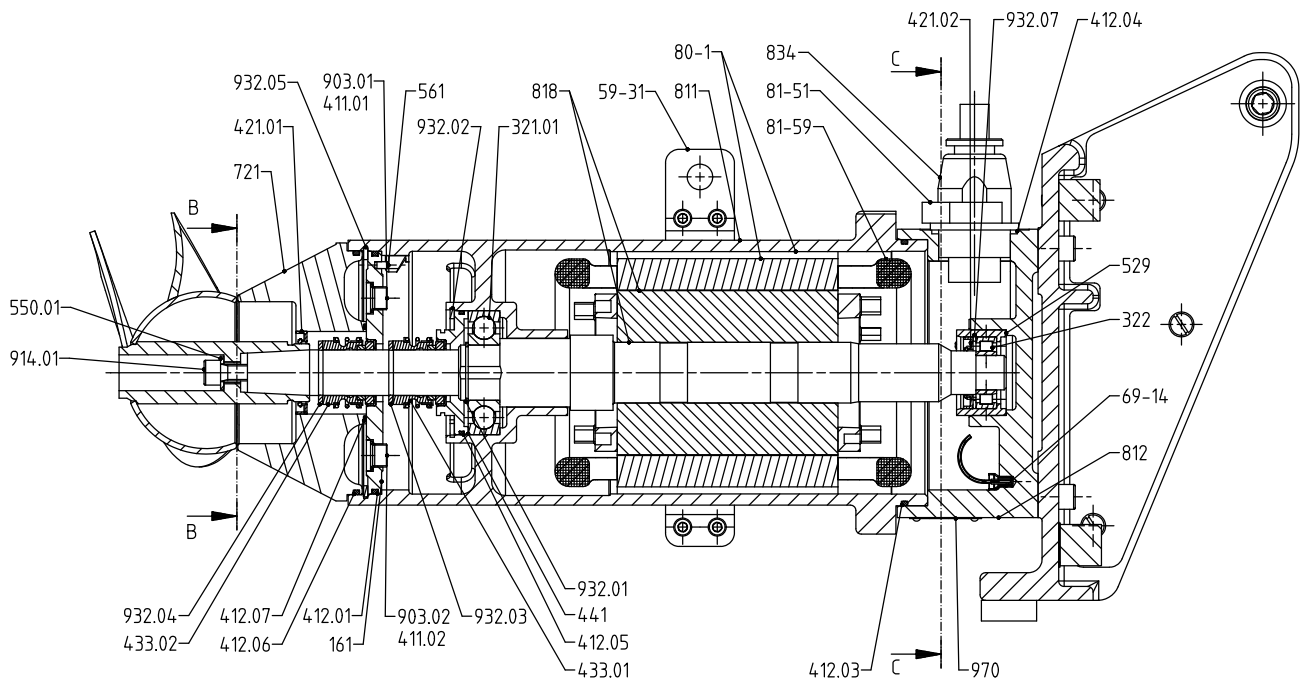
**OPTIONS (extra charge) and information on special designs**

Option	Details
Mechanical seal with covered springs	all sizes
Power cable 15m / 20 m and >20 m	all sizes
Tefzel cable instead of standard cable	all sizes
Leakage sensor in mech. seal oil reservoir	Amamix 200/300/400/600 material variant C (only version U)
Analysing unit for leakage sensor	all sizes
Special voltage 500 V and 690 V	all sizes
Propeller in 1.4571 instead of polyurethane Propeller C2227 instead of V2227 Propeller C2223 instead of V2230 Propeller V2233 instead of V2235	Amamix 200 material variant G; for fluids with larger solids
Coating: 2-pack epoxy resin 250 µm	Amamix 200/300/400/600 material variant G
Clamp in 1.4571 instead of standard clamp in JL1040	Amamix 200/300/400 material variant G
Clamp for 100 x 100 guide rail instead of standard clamp for 60 x 60 guide rail	Amamix 200, 300 and 400 on existing KSB installation parts (replacement units)
Clamp for 50 x 50 or 65 x 65 guide rail instead of standard clamp for 60 x 60 guide rail	Amamix 200 and 300
Jet ring	Amamix 300/400/600; not suitable for fluids liable to twist and plait or fluids containing larger solids
Lifting clamp	all sizes
Pitch adapter for directing the jet upwards or downwards; for standard accessories 7 or 22	all sizes
Additional operating manuals	Standard: 1 copy per unit
Flow simulation	

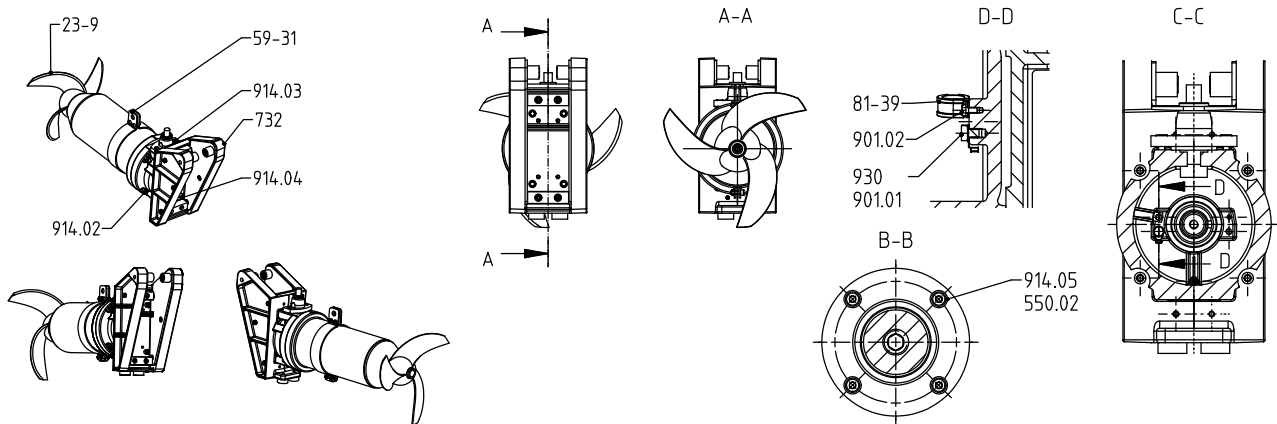
**For any mixer versions not documented in this type series booklet such as**

- other voltages than 400 V / 500 V / 690 V)
- customised coatings
- other mechanical seal and elastomer materials
- non-documented motor / propeller combinations
- versions for higher application temperatures
- other installation parts

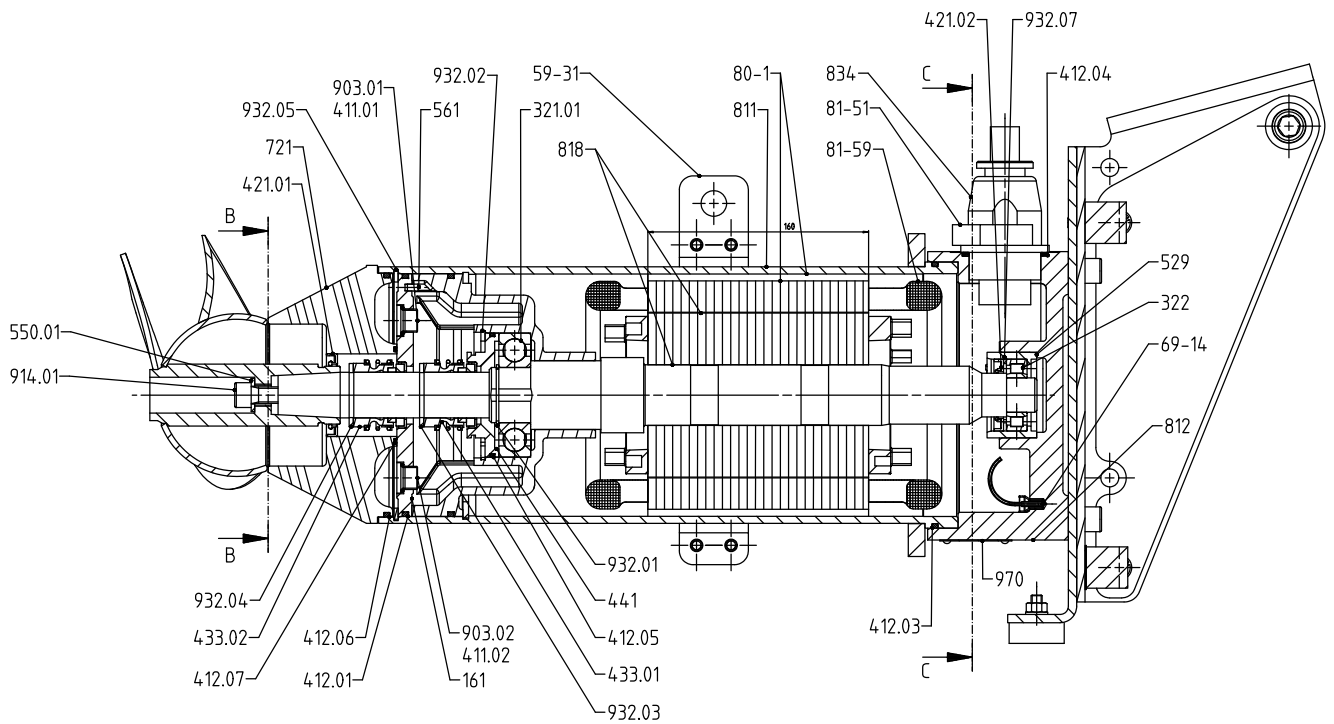
**please contact KSB for technical details, prices and delivery periods!**

**General drawing with list of components (material variant G)**
**Example: Amamix C 4135/4 8 UDG**


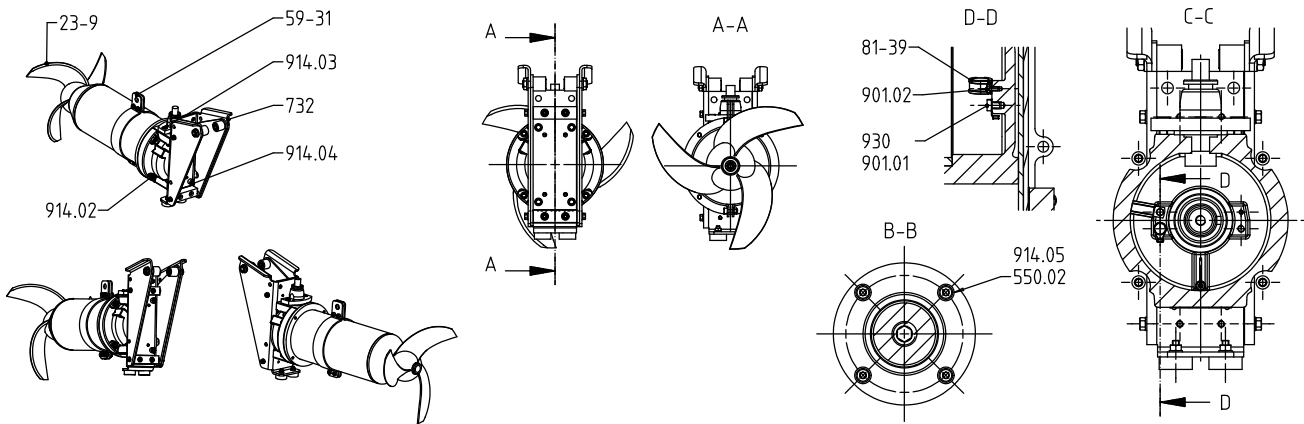
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Part No.	Description	Part No.	Description	Part No.	Description
161	Casing cover	59-17	Shackle	901	Hex. head bolt
23-9	Propeller	59-31	Supporting clamp	903	Screwed plug
321	Radial ball bearing	69-14	Leakage sensor	914	Socket hd. cap screw
322	Cylindrical roller bearing	721	Adapter	930	Safety device
411	Joint ring	732	Clamp	932	Circlip
412	O-ring	80-1	Motor housing with stator	970	Plate
421	Radial shaft seal ring	81-39	Clamp		
433	Mechanical seal	81-59	Stator		
441	Housing for shaft seal	811	Motor housing		
529	Bearing sleeve	812	Motor housing cover		
550	Disc	818	Rotor		
561	Grooved pin	834	Cable entry		

**General drawing with list of components (material variant C)**
**Example: Amamix C 4135/4 8 YDC**


UG 1082217



Part No.	Description	Part No.	Description	Part No.	Description
161	Casing cover	515	Taper lock ring	81-39	Clamp
23-9	Propeller	529	Bearing sleeve	81-59	Stator
321	Radial ball bearing	550	Disc	811	Motor housing
322	Cylindrical roller bearing	561	Grooved pin	812	Motor housing cover
330	Bearing bracket	59-17	Shackle	818	Rotor
411	Joint ring	59-31	Supporting clamp	834	Cable entry
412	O-ring	69-14	Leakage sensor	901	Hex. head bolt
421	Radial shaft seal ring	721	Adapter	903	Screwed plug
433	Mechanical seal	732	Clamp	914	Socket hd. cap screw
441	Housing for shaft seal	80-1	Motor housing with stator	932	Circlip
443	Seal insert			970	Plate

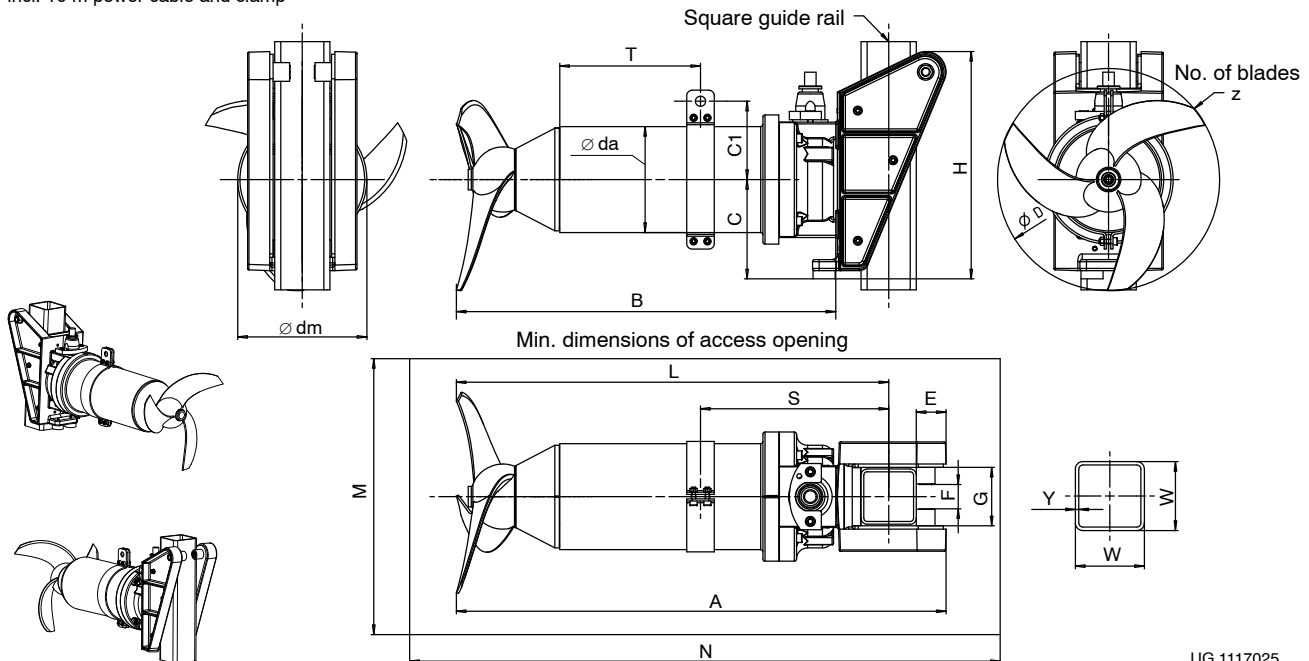




**Technical data**
**Amamix 300**
**400 V, 50 Hz**
 **$n \sim 920 \text{ min}^{-1}$** 
**Version without jet ring - Material variant G**

No.	Size Amamix ...	Motor power $P_2$ [kW]	Weight <sup>1)</sup> [kg]	No. of blades z	Square guide rail [mm]	
					W	Y
01	C 2925 / 0 6 UDG / YDG	1.8	53.5	2	60	3
02	C 2928 / 0 6 UDG / YDG		53,5			
03	C 3225 / 0 6 UDG / YDG		53.5			
04	C 3228 / 0 6 UDG / YDG		53.5			
05	C 2936 / 0 6 UDG / YDG		53.5			
06	C 2938 / 0 6 UDG / YDG		53.5			
07	C 2925 / 2 6 UDG / YDG	3.2	53.5	2	60	3
08	C 2928 / 2 6 UDG / YDG		53.5			
09	C 3225 / 2 6 UDG / YDG		53.5			
10	C 3228 / 2 6 UDG / YDG		53.5			
11	C 2936 / 2 6 UDG / YDG		53.5			
12	C 2938 / 2 6 UDG / YDG		53.5			
13	C 3236 / 2 6 UDG / YDG		53.5			
14	C 3238 / 2 6 UDG / YDG		53.5			
15	C 2931 / 2 6 UDG / YDG		53.5			
16	C 2935 / 2 6 UDG / YDG		53.5			
17	C 3231 / 2 6 UDG / YDG		53.5			

x) incl. 10 m power cable and clamp



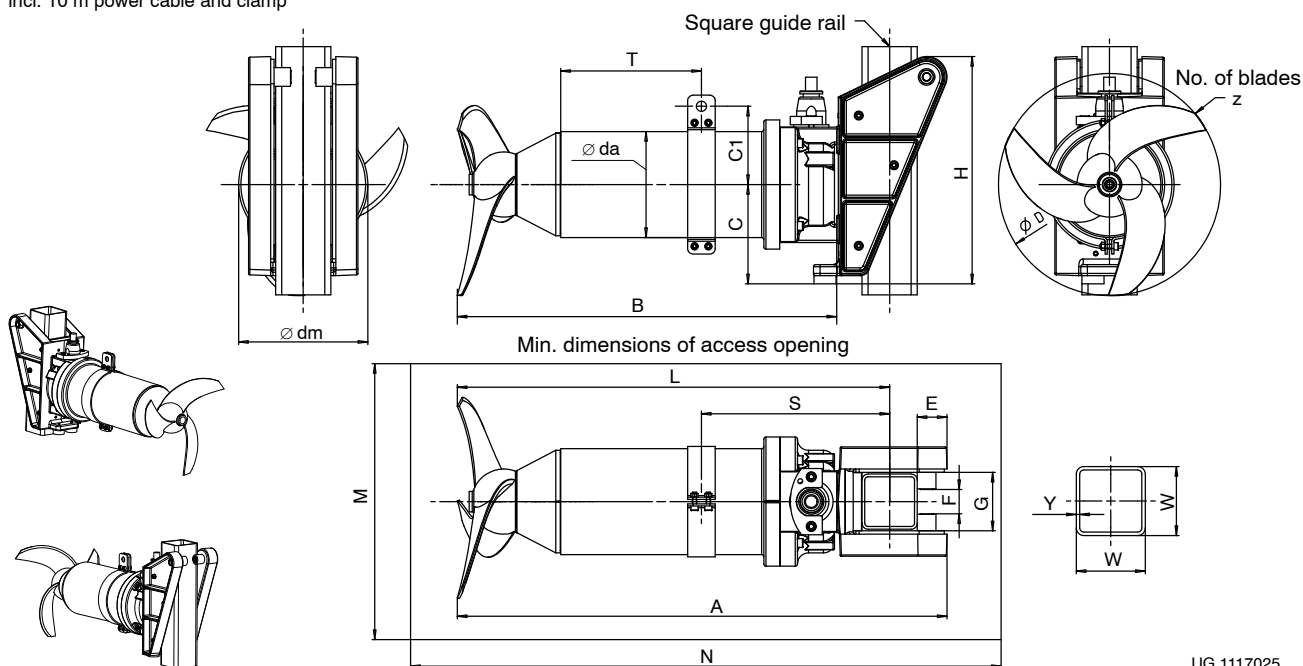
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No.	Size Amamix ...	Dimensions [mm]															
		A	B	C	C1	$\varnothing D$	$\varnothing da$	$\varnothing dm$	E	F	G	H	L	M	N	S	T
01	C 2925 / 0 6 UDG / YDG	731	594	150	124	294	156	187	42	36	66	287	659	275	910	268	230
02	C 2928 / 0 6 UDG / YDG																
03	C 3225 / 0 6 UDG / YDG					325											
04	C 3228 / 0 6 UDG / YDG					294											
05	C 2936 / 0 6 UDG / YDG					375											
06	C 2938 / 0 6 UDG / YDG					275											
07	C 2925 / 2 6 UDG / YDG					325											
08	C 2928 / 2 6 UDG / YDG					294											
09	C 3225 / 2 6 UDG / YDG					325											
10	C 3228 / 2 6 UDG / YDG					294											
11	C 2936 / 2 6 UDG / YDG					375											
12	C 2938 / 2 6 UDG / YDG					325											
13	C 3236 / 2 6 UDG / YDG					294											
14	C 3238 / 2 6 UDG / YDG					325											
15	C 2931 / 2 6 UDG / YDG					294											
16	C 2935 / 2 6 UDG / YDG					325											
17	C 3231 / 2 6 UDG / YDG					325											

**Technical data**
**Amamix 300**
**400 V, 50 Hz**
**n~920 min<sup>-1</sup>**
**Version without jet ring - Material variant C**

No.	Size Amamix ...	Motor power P <sub>2</sub> [kW]	Weight <sup>1)</sup> [kg]	No. of blades z	Square guide rail [mm]	
					W	Y
01	C 2925 / 0 6 UDC / YDC	1.8	47	2	60	3
02	C 2928 / 0 6 UDC / YDC					
03	C 3225 / 0 6 UDC / YDC					
04	C 3228 / 0 6 UDC / YDC					
05	C 2936 / 0 6 UDC / YDG			3		
06	C 2938 / 0 6 UDC / YDC					
07	C 2925 / 2 6 UDC / YDC	3.2	47	2	60	3
08	C 2928 / 2 6 UDC / YDC					
09	C 3225 / 2 6 UDC / YDC					
10	C 3228 / 2 6 UDC / YDC					
11	C 2936 / 2 6 UDC / YDC			3		
12	C 2938 / 2 6 UDC / YDC					
13	C 3236 / 2 6 UDC / YDC					
14	C 3238 / 2 6 UDC / YDC					
15	C 2931 / 2 6 UDC / YDC					
16	C 2935 / 2 6 UDC / YDC					
17	C 3231 / 2 6 UDC / YDC					

x) incl. 10 m power cable and clamp



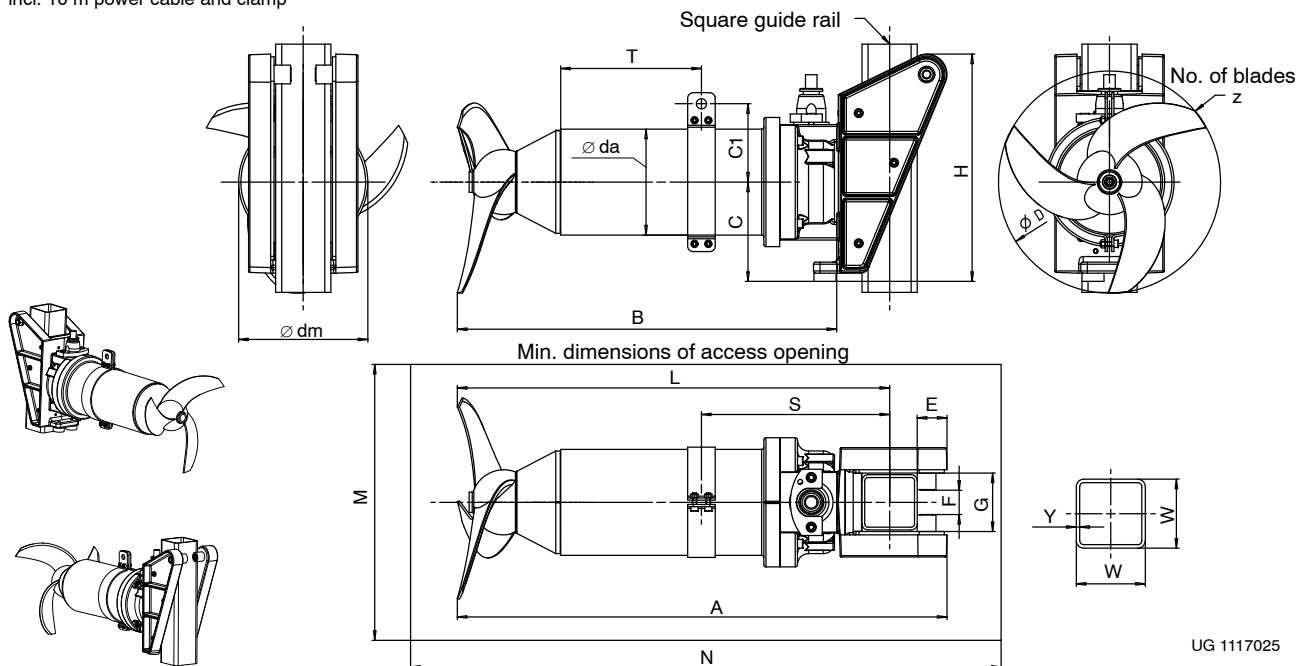
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No.	Size Amamix ...	Dimensions [mm]															
		A	B	C	C1	∅ D	∅ da	∅ dm	E	F	G	H	L	M	N	S	T
01	C 2925 / 0 6 UDC / YDC	727	594	150	120	294	148	187	42	36	66	287	655	275	910	264	230
02	C 2928 / 0 6 UDC / YDC																
03	C 3225 / 0 6 UDC / YDC					325											
04	C 3228 / 0 6 UDC / YDC																
05	C 2936 / 0 6 UDC / YDG					294								375			
06	C 2938 / 0 6 UDC / YDC																
07	C 2925 / 2 6 UDC / YDC													275			
08	C 2928 / 2 6 UDC / YDC																
09	C 3225 / 2 6 UDC / YDC					325											
10	C 3228 / 2 6 UDC / YDC																
11	C 2936 / 2 6 UDC / YDC					294								375			
12	C 2938 / 2 6 UDC / YDC																
13	C 3236 / 2 6 UDC / YDC					325											
14	C 3238 / 2 6 UDC / YDC																
15	C 2931 / 2 6 UDC / YDC					294											
16	C 2935 / 2 6 UDC / YDC																
17	C 3231 / 2 6 UDC / YDC					325											



**Technical data**
**Amamix 400**
**400 V, 50 Hz**
 **$n \sim 700 \text{ min}^{-1}$** 
**Version without jet ring - Material variant C**

No.	Size Amamix ...	Motor power $P_2$ [kW]	Weight <sup>1)</sup> [kg]	No. of blades z	Square guide rail [mm]	
					W	Y
01	C 3725 / 3 8 UDC / YDC	2.5	82.5	2	60	3
02	C 3728 / 3 8 UDC / YDC					
03	C 4125 / 3 8 UDC / YDC					
04	C 4128 / 3 8 UDC / YDC					
05	C 3738 / 3 8 UDC / YDC			3		
06	C 4138 / 3 8 UDC / YDC					
07	C 3725 / 4 8 UDC / YDC	4	84	2	100	5
08	C 3728 / 4 8 UDC / YDC					
09	C 4125 / 4 8 UDC / YDC					
10	C 4128 / 4 8 UDC / YDC					
11	C 3738 / 4 8 UDC / YDC			3		
12	C 4138 / 4 8 UDC / YDC					
13	C 3731 / 4 8 UDC / YDC					
14	C 3735 / 4 8 UDC / YDC					
15	C 4131 / 4 8 UDC / YDC					
16	C 4135 / 4 8 UDC / YDC					

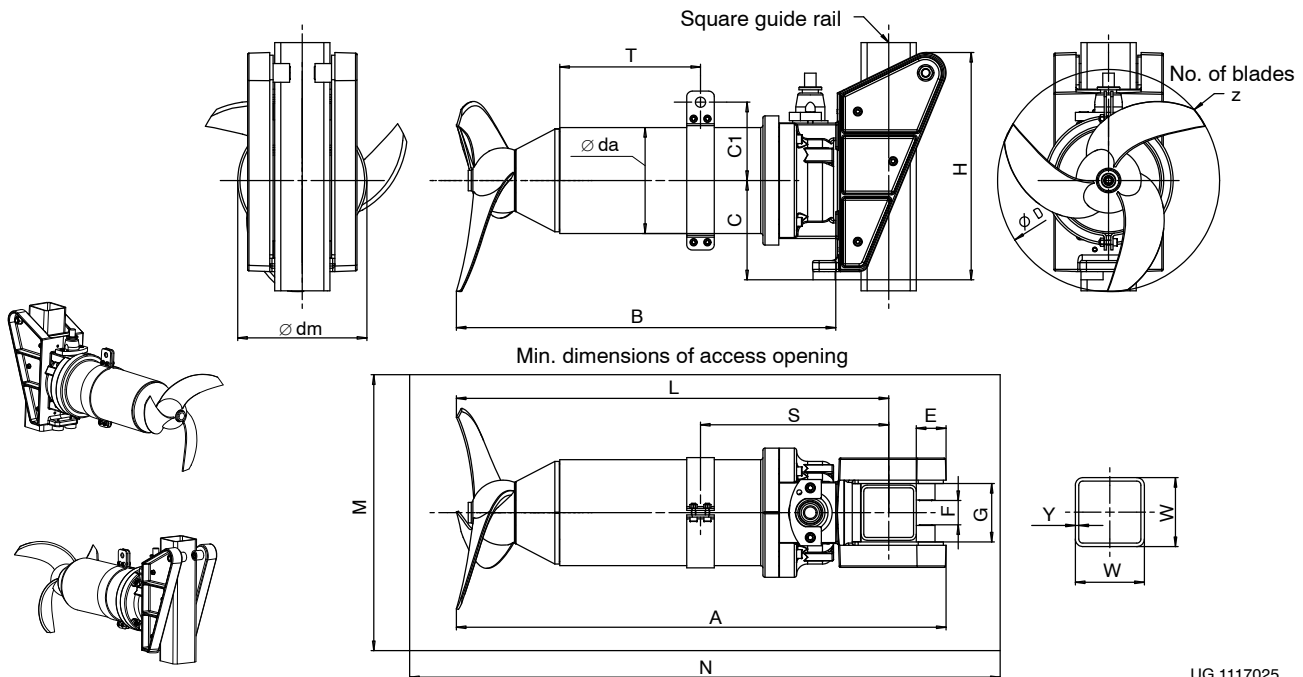
<sup>x)</sup> incl. 10 m power cable and clamp


UG 1117025

No.	Size Amamix ...	Dimensions [mm]															
		A	B	C	C1	$\varnothing D$	$\varnothing da$	$\varnothing dm$	E	F	G	H	L	M	N	S	T
01	C 3725 / 3 8 UDC / YDC	844	687	150	139	373	186	234	42	36	66	287	772	285	1050	318	275
02	C 3728 / 3 8 UDC / YDC																
03	C 4125 / 3 8 UDC / YDC					410											
04	C 4128 / 3 8 UDC / YDC					410											
05	C 3738 / 3 8 UDC / YDC					373											
06	C 4138 / 3 8 UDC / YDC					410											
07	C 3725 / 4 8 UDC / YDC					373											
08	C 3728 / 4 8 UDC / YDC					410											
09	C 4125 / 4 8 UDC / YDC					410											
10	C 4128 / 4 8 UDC / YDC					410											
11	C 3738 / 4 8 UDC / YDC					373											
12	C 4138 / 4 8 UDC / YDC					410											
13	C 3731 / 4 8 UDC / YDC					373											
14	C 3735 / 4 8 UDC / YDC					410											
15	C 4131 / 4 8 UDC / YDC					410											
16	C 4135 / 4 8 UDC / YDC					873											

**Technical data**
**Amamix 600**
**400 V, 50 Hz**
 **$n \sim 475 \text{ min}^{-1}$** 
**Version without jet ring - Material variant G**

No.	Size Amamix ...	Motor power $P_2$ [kW]	Weight <sup>1)</sup> [kg]	No. of blades z	Square guide rail [mm]	
					W	Y
01	C 5725 / 6 12 UDG / YDG	5	221	2	100	5
02	C 5728 / 6 12 UDG / YDG					
03	C 6325 / 6 12 UDG / YDG					
04	C 6328 / 6 12 UDG / YDG					
05	C 5725 / 10 12 UDG / YDG	10	235	3		
06	C 5728 / 10 12 UDG / YDG					
07	C 6325 / 10 12 UDG / YDG					
08	C 6328 / 10 12 UDG / YDG					
09	C 5738 / 10 12 UDG / YDG					
10	C 6338 / 10 12 UDG / YDG					
11	C 5731 / 10 12 UDG / YDG					
12	C 5735 / 10 12 UDG / YDG					
13	C 6331 / 10 12 UDG / YDG					
14	C 6335 / 10 12 UDG / YDG					

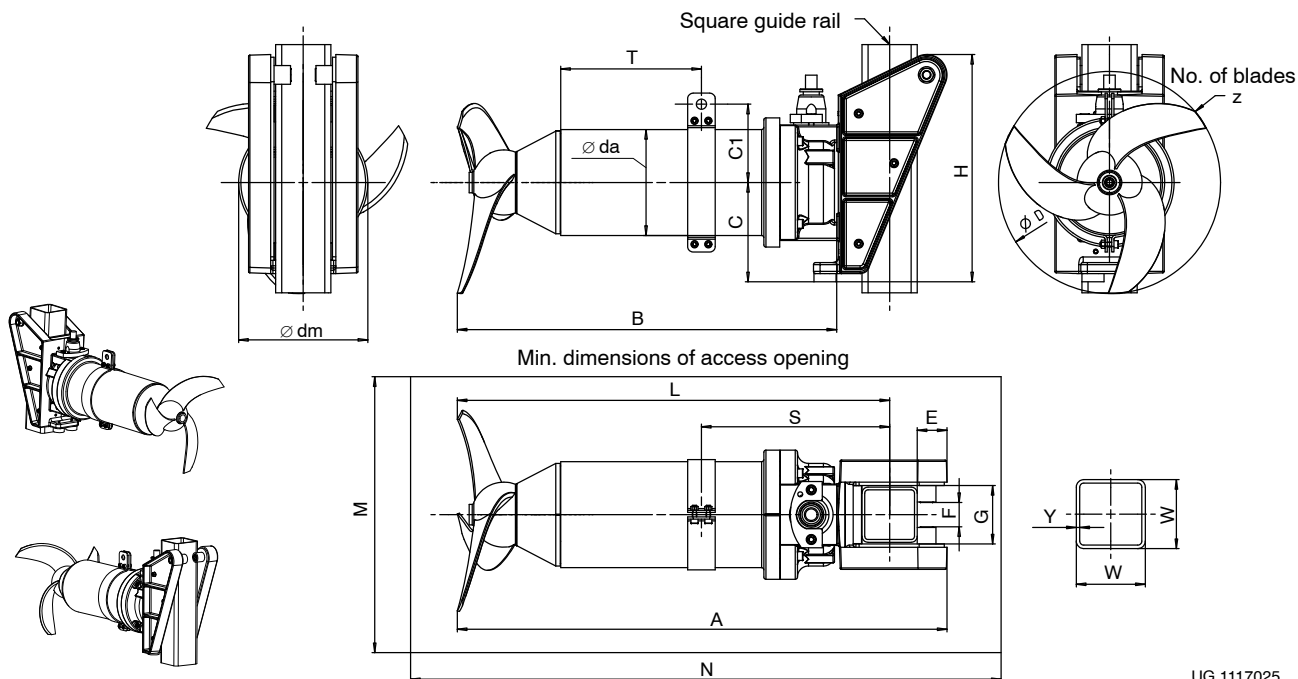
<sup>x)</sup> incl. 10 m power cable and clamp


UG 1117025

No.	Size Amamix ...	Dimensions [mm]															
		A	B	C	C1	$\varnothing D$	$\varnothing da$	$\varnothing dm$	E	F	G	H	L	M	N	S	T
01	C 5725 / 6 12 UDG / YDG	1042	848	230	197	570	294	380	43	44	106	508	949	450	1310	393	280
02	C 5728 / 6 12 UDG / YDG																
03	C 6325 / 6 12 UDG / YDG																
04	C 6328 / 6 12 UDG / YDG																
05	C 5725 / 10 12 UDG / YDG																
06	C 5728 / 10 12 UDG / YDG																
07	C 6325 / 10 12 UDG / YDG																
08	C 6328 / 10 12 UDG / YDG																
09	C 5738 / 10 12 UDG / YDG																
10	C 6338 / 10 12 UDG / YDG																
11	C 5731 / 10 12 UDG / YDG																
12	C 5735 / 10 12 UDG / YDG																
13	C 6331 / 10 12 UDG / YDG																
14	C 6335 / 10 12 UDG / YDG																

**Technical data**
**Amamix 600**
**400 V, 50 Hz**
 **$n \sim 475 \text{ min}^{-1}$** 
**Version without jet ring - Material variant C**

No.	Size Amamix ...	Motor power $P_2$ [kW]	Weight <sup>1)</sup> [kg]	No. of blades z	Square guide rail [mm]	
					W	Y
01	C 5725 / 4 12 UMC / YMC	5	146	2	100	5
02	C 5728 / 4 12 UMC / YMC					
03	C 6325 / 4 12 UMC / YMC					
04	C 6328 / 4 12 UMC / YMC					
05	C 5725 / 8 12 UMC / YMC	10	198	2		
06	C 5728 / 8 12 UMC / YMC					
07	C 6325 / 8 12 UMC / YMC					
08	C 6328 / 8 12 UMC / YMC					
09	C 5738 / 8 12 UMC / YMC			3		
10	C 6338 / 8 12 UMC / YMC					
11	C 5731 / 8 12 UMC / YMC					
12	C 5735 / 8 12 UMC / YMC					
13	C 6331 / 8 12 UMC / YMC					
14	C 6335 / 8 12 UMC / YMC					

<sup>x)</sup> incl. 10 m power cable and clamp


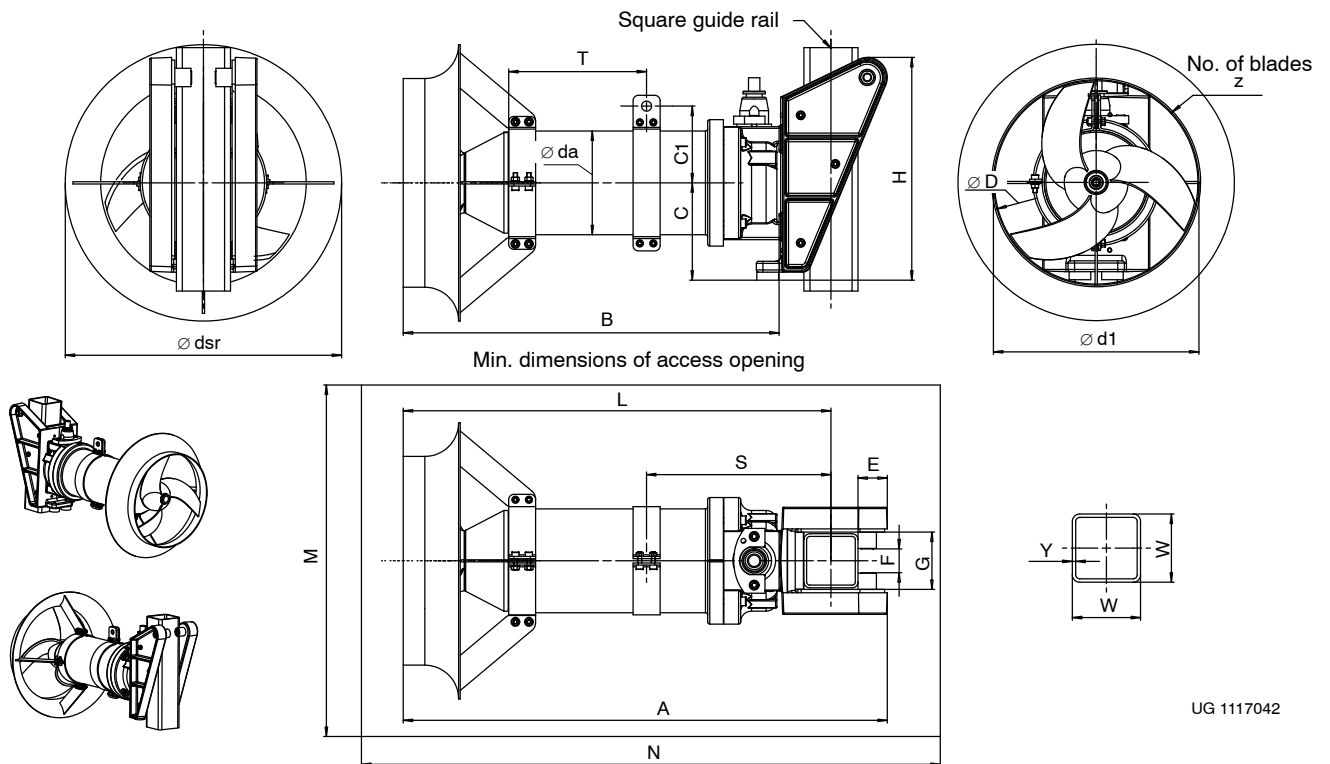
UG 1117025

No.	Size Amamix ...	Dimensions [mm]															
		A	B	C	C1	$\varnothing D$	$\varnothing da$	$\varnothing dm$	E	F	G	H	L	M	N	S	T
01	C 5725 / 4 12 UMC / YMC	1002	816	215	175	570	251	304	43	44	106	420	909	450	1270	360	275
02	C 5728 / 4 12 UMC / YMC					630											
03	C 6325 / 4 12 UMC / YMC					630											
04	C 6328 / 4 12 UMC / YMC					630											
05	C 5725 / 8 12 UMC / YMC	1122	936	215	175	570	251	304	43	44	106	420	1029	450	1390	425	330
06	C 5728 / 8 12 UMC / YMC					630											
07	C 6325 / 8 12 UMC / YMC					630											
08	C 6328 / 8 12 UMC / YMC					630											
09	C 5738 / 8 12 UMC / YMC					700											
10	C 6338 / 8 12 UMC / YMC					630											
11	C 5731 / 8 12 UMC / YMC					630											
12	C 5735 / 8 12 UMC / YMC					630											
13	C 6331 / 8 12 UMC / YMC					630											
14	C 6335 / 8 12 UMC / YMC					630											



**Technical data**
**Amamix 300**
**400 V, 50 Hz**
**n~920 min<sup>-1</sup>**
**Version with jet ring - Material variant C**

No.	Size Amamix ...	Motor power P <sub>2</sub> [kW]	Weight <sup>1)</sup> [kg]	No. of blades z	Square guide rail [mm]	
					W	Y
01	C 2925 R / 0 6 UDC / YDC	1.8	51.7	2	60	3
02	C 2928 R / 0 6 UDC / YDC					
03	C 2936 R / 0 6 UDC / YDC					
04	C 2938 R / 0 6 UDC / YDC					
05	C 2925 R / 2 6 UDC / YDC	3.2		2		
06	C 2928 R / 2 6 UDC / YDC					
07	C 2936 R / 2 6 UDC / YDC					
08	C 2938 R / 2 6 UDC / YDC					
09	C 2931 R / 2 6 UDC / YDC					
10	C 2935 R / 2 6 UDC / YDC					

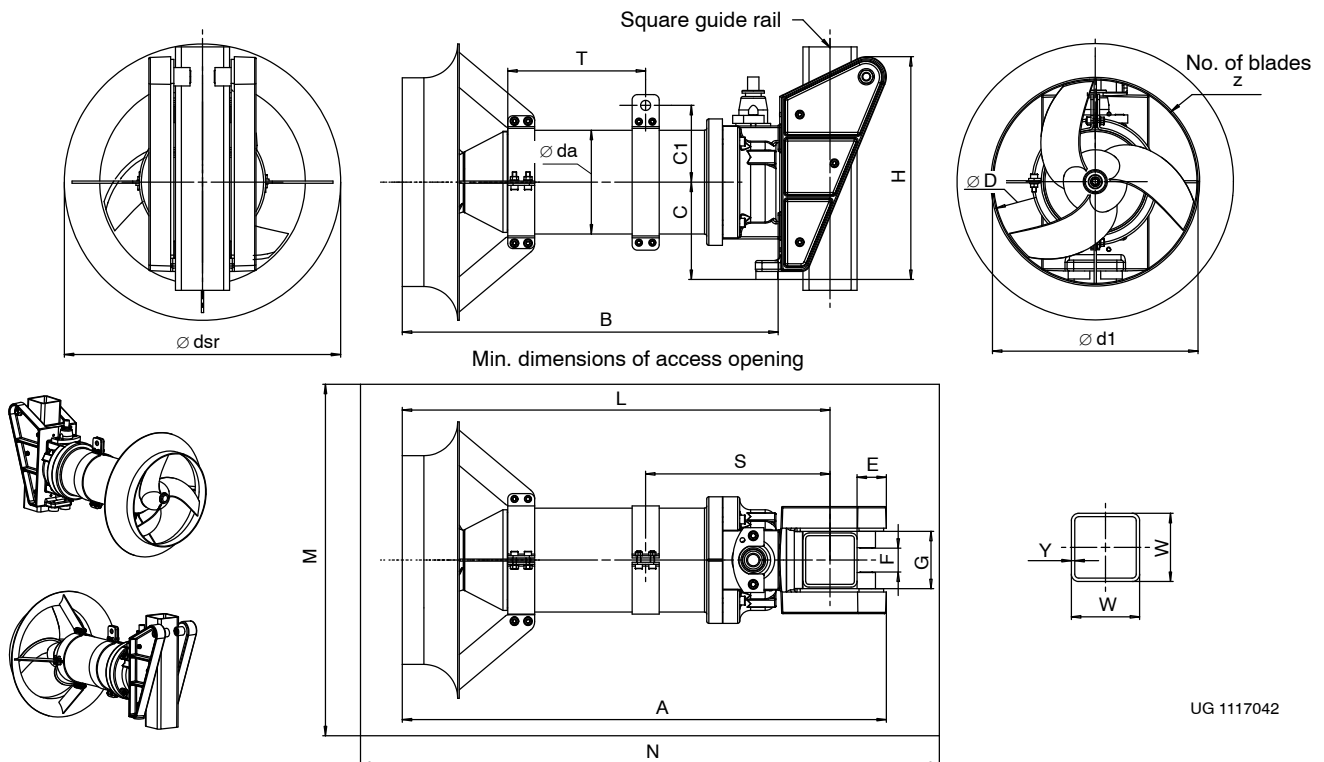
<sup>x)</sup> incl. 10 m power cable, jet ring and clamp


UG 1117042

No.	Size Amamix ...	Dimensions [mm]																
		A	B	C	C1	$\varnothing D$	$\varnothing da$	$\varnothing d1$	$\varnothing dsr$	E	F	G	H	L	M	N	S	T
01	C 2925 R / 0 6 UDC / YDC	731	598	150	120	294	148	300	400	42	36	66	287	659	500	945	274	220
02	C 2928 R / 0 6 UDC / YDC																	
03	C 2936 R / 0 6 UDC / YDC																	
04	C 2938 R / 0 6 UDC / YDC																	
05	C 2925 R / 2 6 UDC / YDC																	
06	C 2928 R / 2 6 UDC / YDC																	
07	C 2936 R / 2 6 UDC / YDC																	
08	C 2938 R / 2 6 UDC / YDC																	
09	C 2931 R / 2 6 UDC / YDC																	
10	C 2935 R / 2 6 UDC / YDC																	

**Technical data**
**Amamix 400**
**400 V, 50 Hz**
 **$n \sim 700 \text{ min}^{-1}$** 
**Version with jet ring - Material variant G**

No.	Size Amamix ...	Motor power $P_2$ [kW]	Weight <sup>1)</sup> [kg]	No. of blades z	Square guide rail [mm]	
					W	Y
01	C 3725 R / 3 8 UDG / YDG	2.5	89.8	2	60	3
02	C 3728 R / 3 8 UDG / YDG			3		
03	C 3731 R / 3 8 UDG / YDG			2		
04	C 3738 R / 3 8 UDG / YDG			3		
05	C 3725 R / 4 8 UDG / YDG	4		2		
06	C 3728 R / 4 8 UDG / YDG			3		
07	C 3738 R / 4 8 UDG / YDG			2		
08	C 3731 R / 4 8 UDG / YDG			3		
09	C 3735 R / 4 8 UDG / YDG			2		

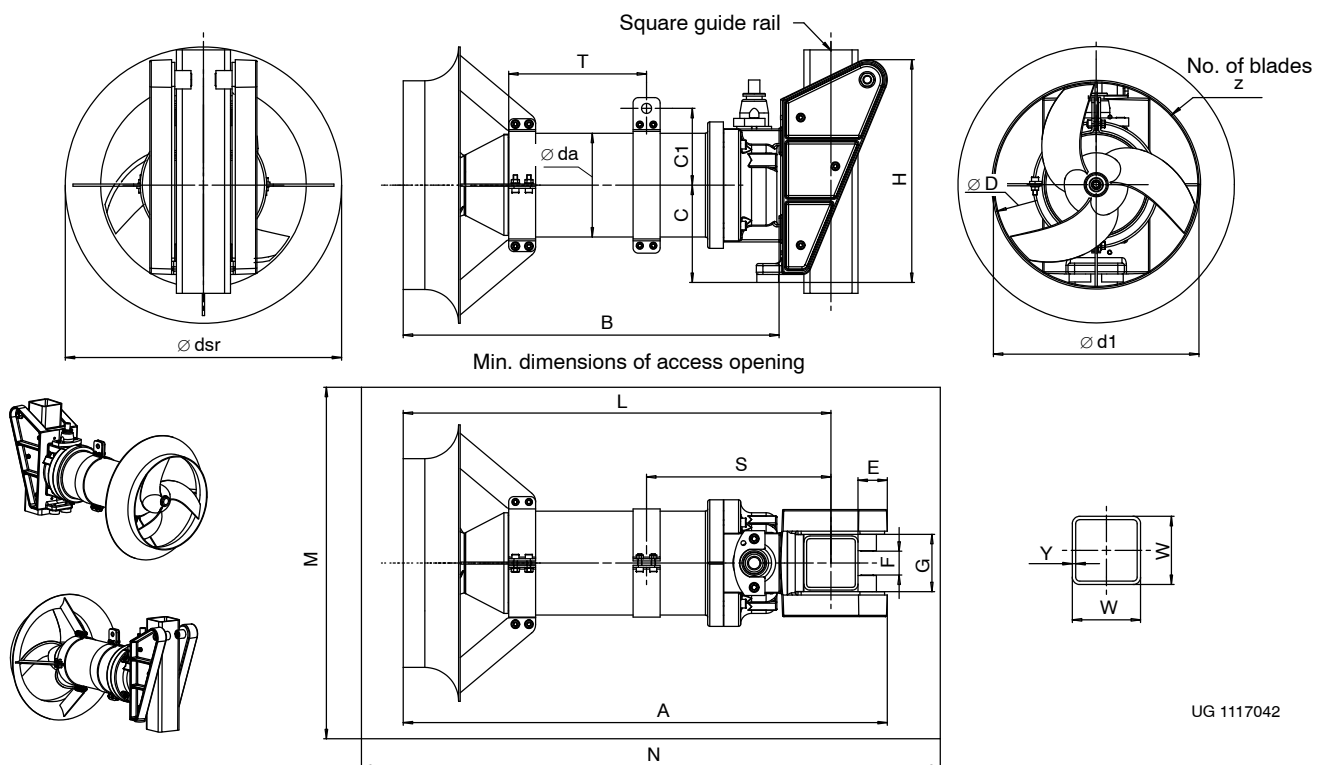
<sup>x)</sup> incl. 10 m power cable, jet ring and clamp


UG 1117042

No.	Size Amamix ...	Dimensions [mm]																
		A	B	C	C1	$\varnothing D$	$\varnothing da$	$\varnothing d1$	$\varnothing dsr$	E	F	G	H	L	M	N	S	T
01	C 3725 R / 3 8 UDG / YDG	855	695	150	142	373	192	380	511	42	36	66	287	783	610	1050	341	255
02	C 3728 R / 3 8 UDG / YDG																	
03	C 3731 R / 3 8 UDG / YDG																	
04	C 3738 R / 3 8 UDG / YDG																	
05	C 3725 R / 4 8 UDG / YDG																	
06	C 3728 R / 4 8 UDG / YDG																	
07	C 3738 R / 4 8 UDG / YDG																	
08	C 3731 R / 4 8 UDG / YDG																	
09	C 3735 R / 4 8 UDG / YDG																	

**Technical data**
**Amamix 400**
**400 V, 50 Hz**
 **$n \sim 700 \text{ min}^{-1}$** 
**Version with jet ring - Material variant C**

No.	Size Amamix ...	Motor power $P_2$ [kW]	Weight <sup>1)</sup> [kg]	No. of blades z	Square guide rail [mm]	
					W	Y
01	C 3725 R / 3 8 UDC / YDC	2.5	89.3	2	60	3
02	C 3728 R / 3 8 UDC / YDC			3		
03	C 3731 R / 3 8 UDC / YDC			2		
04	C 3738 R / 3 8 UDC / YDC			3		
05	C 3725 R / 4 8 UDC / YDC	4		2		
06	C 3728 R / 4 8 UDC / YDC			3		
07	C 3738 R / 4 8 UDC / YDC			2		
08	C 3731 R / 4 8 UDC / YDC			3		
09	C 3735 R / 4 8 UDC / YDC			2		

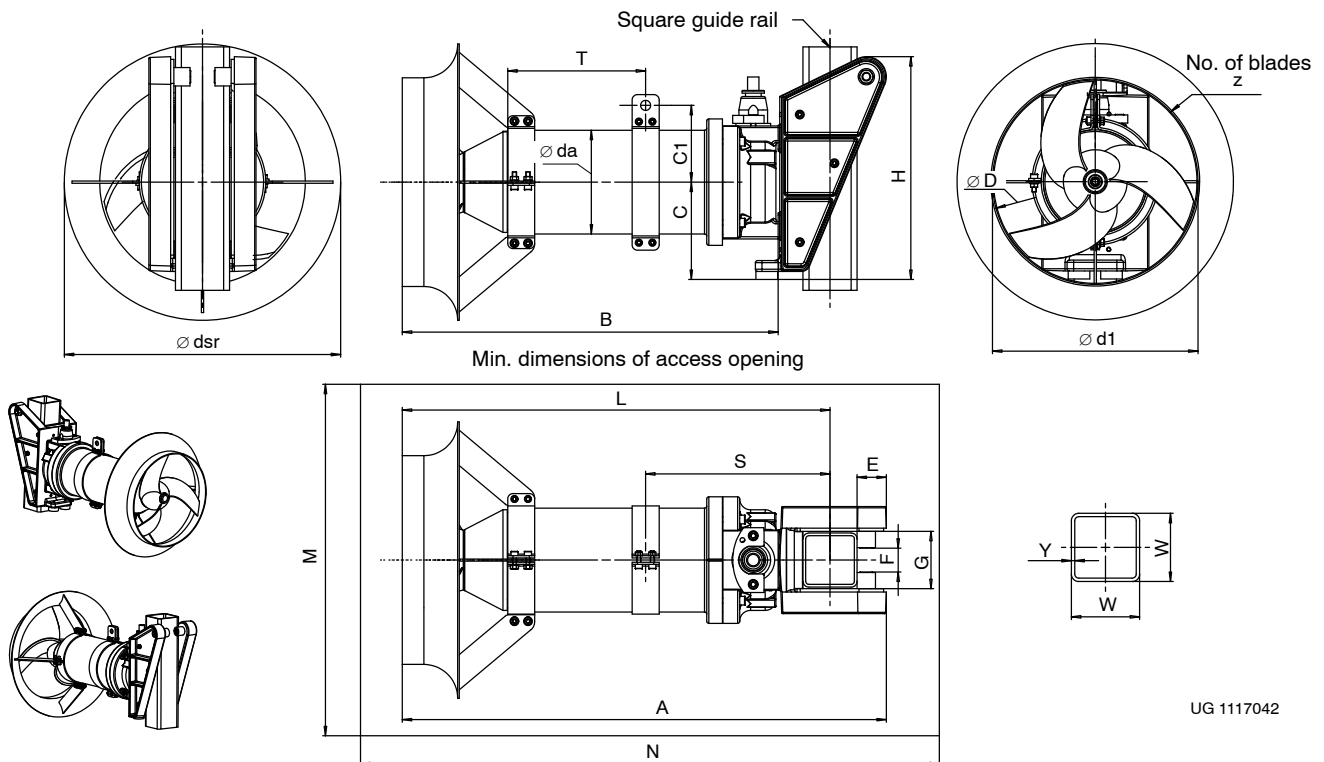
<sup>x)</sup> incl. 10 m power cable, jet ring and clamp


UG 1117042

No.	Size Amamix ...	Dimensions [mm]																
		A	B	C	C1	$\varnothing D$	$\varnothing da$	$\varnothing d1$	$\varnothing dsr$	E	F	G	H	L	M	N	S	T
01	C 3725 R / 3 8 UDC / YDC	855	695	150	139	373	186	380	511	42	36	66	287	783	610	1050	338	255
02	C 3728 R / 3 8 UDC / YDC																	
03	C 3731 R / 3 8 UDC / YDC																	
04	C 3738 R / 3 8 UDC / YDC																	
05	C 3725 R / 4 8 UDC / YDC																	
06	C 3728 R / 4 8 UDC / YDC																	
07	C 3738 R / 4 8 UDC / YDC																	
08	C 3731 R / 4 8 UDC / YDC																	
09	C 3735 R / 4 8 UDC / YDC																	

**Technical data**
**Amamix 600**
**400 V, 50 Hz**
 **$n \sim 475 \text{ min}^{-1}$** 
**Version with jet ring - Material variant G**

No.	Size Amamix ...	Motor power $P_2$ [kW]	Weight <sup>1)</sup> [kg]	No. of blades z	Square guide rail [mm]	
					W	Y
01	C 5725 R / 6 12 UDG / YDG	5	240.5	2	100	5
02	C 5728 R / 6 12 UDG / YDG			3		
03	C 5731 R / 6 12 UDG / YDG			3		
04	C 5738 R / 6 12 UDG / YDG			3		
05	C 5725 R / 10 12 UDG / YDG	10	254.5	2		
06	C 5728 R / 10 12 UDG / YDG			3		
07	C 5738 R / 10 12 UDG / YDG			3		
08	C 5731 R / 10 12 UDG / YDG			3		
09	C 5735 R / 10 12 UDG / YDG			3		

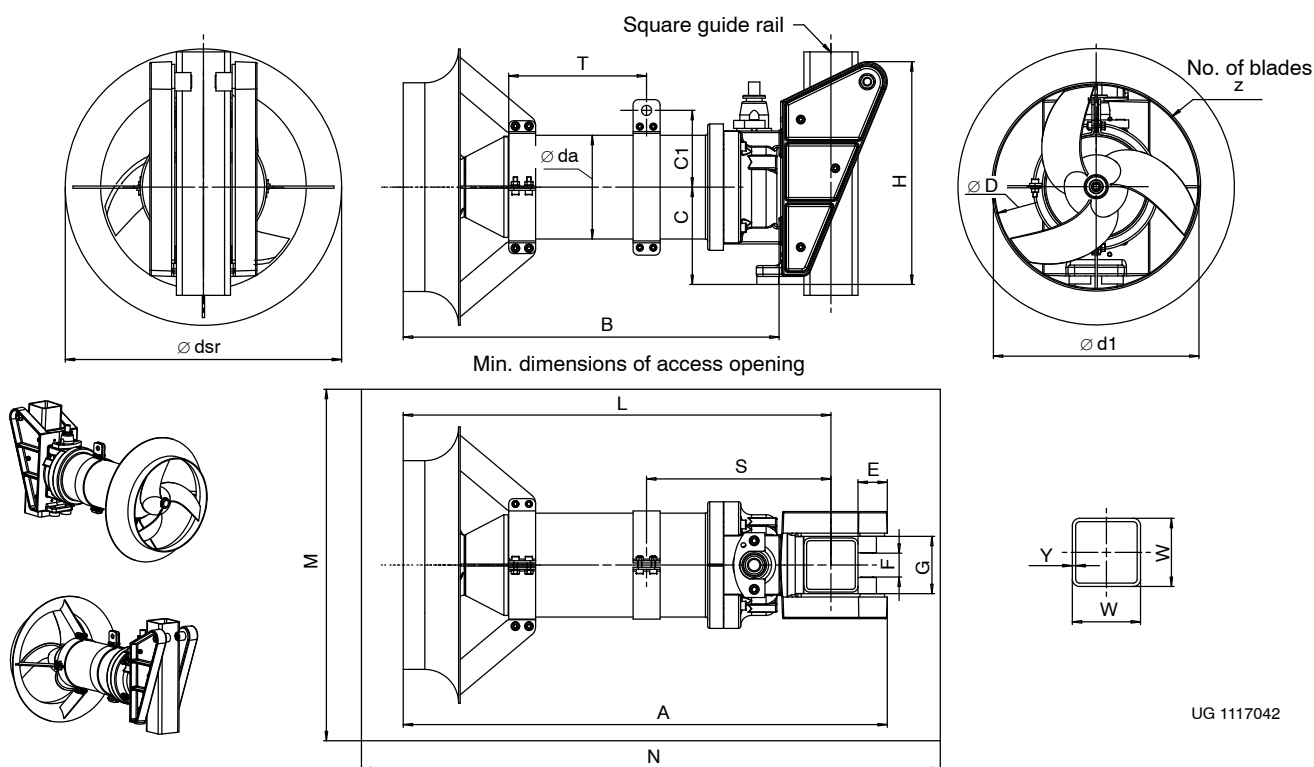
<sup>x)</sup> incl. 10 m power cable, jet ring and clamp


UG 1117042

No.	Size Amamix ...	Dimensions [mm]																
		A	B	C	C1	$\varnothing D$	$\varnothing da$	$\varnothing d1$	$\varnothing dsr$	E	F	G	H	L	M	N	S	T
01	C 5725 R / 6 12 UDG / YDG	1048	854	230	197	570	294	580	773	54	44	106	507	953	875	1335	403	270
02	C 5728 R / 6 12 UDG / YDG																	
03	C 5731 R / 6 12 UDG / YDG																	
04	C 5738 R / 6 12 UDG / YDG																	
05	C 5725 R / 10 12 UDG / YDG																	
06	C 5728 R / 10 12 UDG / YDG																	
07	C 5738 R / 10 12 UDG / YDG																	
08	C 5731 R / 10 12 UDG / YDG																	
09	C 5735 R / 10 12 UDG / YDG																	

**Technical data**
**Amamix 600**
**400 V, 50 Hz**
 **$n \sim 475 \text{ min}^{-1}$** 
**Version with jet ring - Material variant C**

No.	Size Amamix ...	Motor power P <sub>2</sub> [kW]	Weight <sup>1)</sup> [kg]	No. of blades z	Square guide rail [mm]	
					W	Y
01	C 5725 R / 4 12 UMC / YMC	5	165.5	2	100	5
02	C 5728 R / 4 12 UMC / YMC			3		
03	C 5731 R / 4 12 UMC / YMC			3		
04	C 5738 R / 4 12 UMC / YMC			3		
05	C 5725 R / 8 12 UMC / YMC	10	217.5	2	100	5
06	C 5728 R / 8 12 UMC / YMC			3		
07	C 5738 R / 8 12 UMC / YMC			3		
08	C 5731 R / 8 12 UMC / YMC			3		
09	C 5735 R / 8 12 UMC / YMC			3		

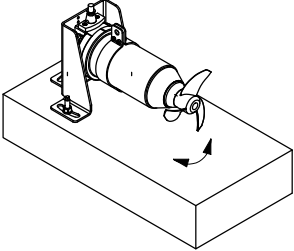
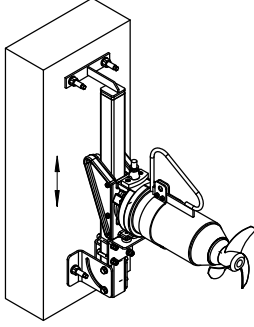
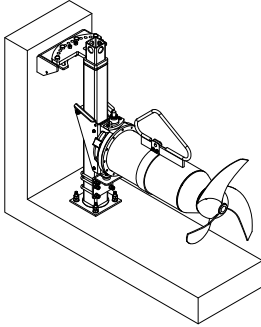
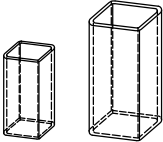
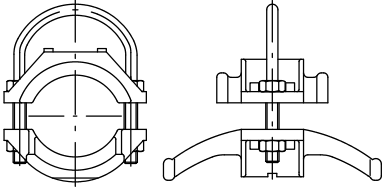
<sup>x)</sup> incl. 10 m power cable, jet ring and clamp


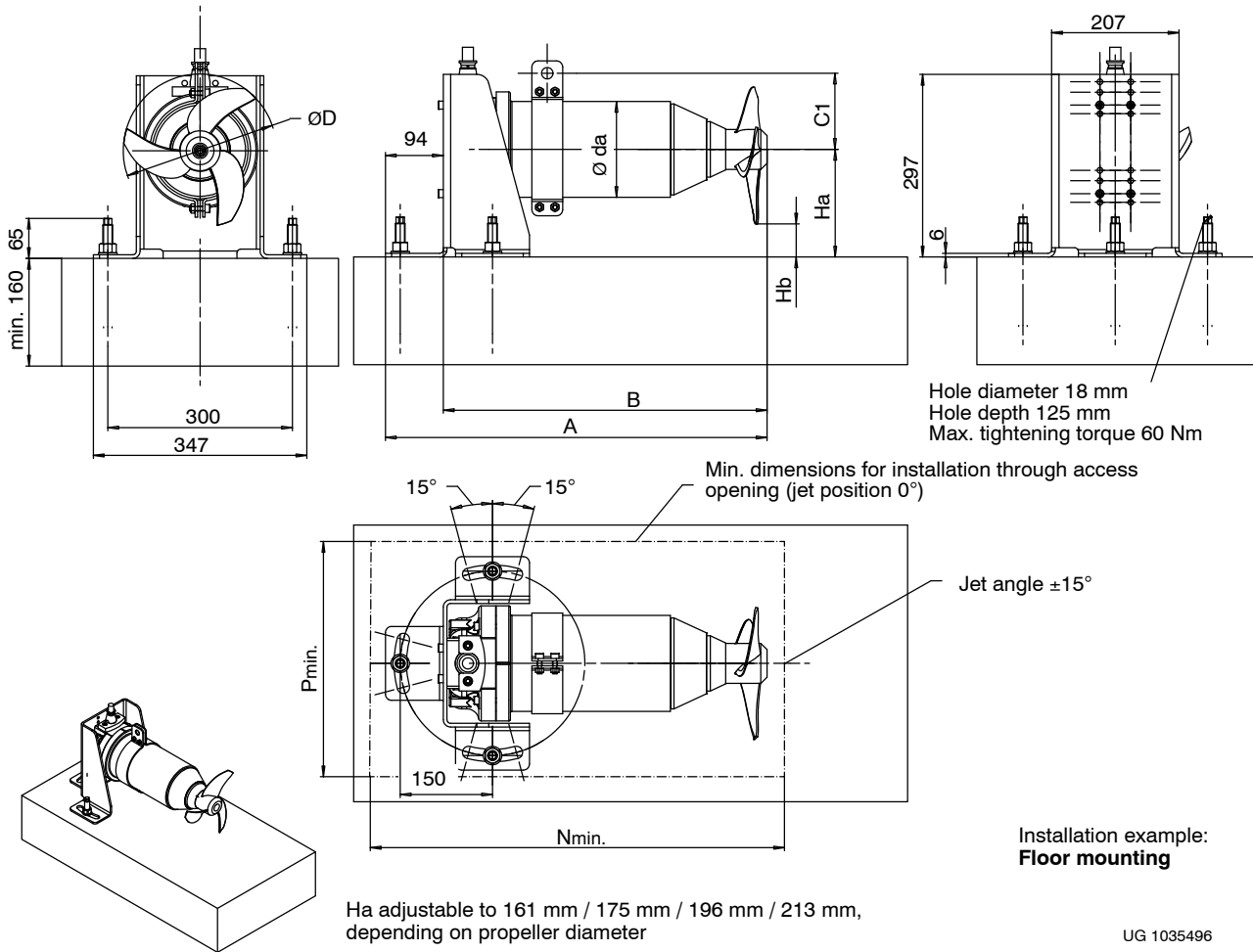
UG 1117042

No.	Size Amamix ...	Dimensions [mm]																
		A	B	C	C1	∅ D	∅ da	∅ d1	∅ dsr	E	F	G	H	L	M	N	S	T
01	C 5725 R / 4 12 UMC / YMC	1016	830	215	176	570	251	580	773	43	44	106	420	908	890	1290	380	250
02	C 5728 R / 4 12 UMC / YMC																	
03	C 5731 R / 4 12 UMC / YMC																	
04	C 5738 R / 4 12 UMC / YMC																	
05	C 5725 R / 8 12 UMC / YMC	1137	950										1028			1410	445	310
06	C 5728 R / 8 12 UMC / YMC																	
07	C 5738 R / 8 12 UMC / YMC																	
08	C 5731 R / 8 12 UMC / YMC																	
09	C 5735 R / 8 12 UMC / YMC																	



**Overview of accessories**

Accessories	Type series				Installation example
	200	300	400	600	
<b>Standard accessories 6</b> Page 28-29 Floor mounting	x	x	-	-	 <ul style="list-style-type: none"> <li>- swivelling option in horizontal position</li> <li>- fixed vertical installation height</li> </ul>
<b>Standard accessories 7</b> Page 30-33 Sump installation	x	x	-	-	 <ul style="list-style-type: none"> <li>- vertically adjustable</li> <li>- with optional pitch adapter for upward and downward jet positioning</li> <li>- cannot be swivelled horizontally around the guide rail axis</li> </ul>
<b>Standard accessories 22</b> <b>Accessories 22 - Options</b> Page 34-55  Universal accessories	x	x	x	x	 <ul style="list-style-type: none"> <li>- vertically adjustable</li> <li>- with optional pitch adapter for upward and downward jet positioning</li> <li>- horizontal swivelling option (together with guide rail)</li> </ul>
<b>Standard accessories 4</b> Page 56-57	x	x	x	x	<b>Lifting equipment</b>
<b>Guide rails for accessories 7 and 22</b>  Page 59	x	x	x	x	
<b>Other accessories</b> Page 58	x	x	x	x	
<b>Cranes</b>	See type series booklet "KSB Lifting Equipment" 1596.5/...-10!				

**Standard accessories 6**
**For permanent mounting of the mixer on the tank floor**
**Amamix 200, 300 (Size 400/600 on request)**


Size	Dimensions [mm]									Weight of unit	
	A	B	C1	Ø D	Ø da	Ha	Hb	N <sub>min.</sub>	P <sub>min.</sub>	without stand [kg]	with stand [kg]
Amamix ...											
V 22.. / 1 4 ..DG	560	466	124	approx. 225	156	161	48.5	610	400	28	34
V 22.. / 2 4 ..DG										30.5	36.5
C 22.. / 1 4 ..DG	560	466	124	approx. 225	156	161	48.5	610	400	28	34
C 22.. / 2 4 ..DG										30.5	36.5
C 22.. / 1 4 ..DC	560	466	120	approx. 225	148	161	48.5	610	400	30.5	36.5
C 22.. / 2 4 ..DC										33	39
C 29.. / 0 6 ..DG	694	600	124	294	156	196	50	750	400	46.5	52.5
C 32.. / 0 6 ..DG				325		213					
C 29.. / 2 6 ..DG				294		196					
C 32.. / 2 6 ..DG				325		213					
C 29.. / 0 6 ..DC	694	600	120	294	148	196	50	750	400	40	46
C 32.. / 0 6 ..DC				325		213					
C 29.. / 2 6 ..DC				294		196					
C 32.. / 2 6 ..DC				325		213					

Extra weight for stand: 6 kg (if supplied pre-assembled)

**Standard accessories 6**
**For permanent mounting of the mixer on the tank floor**
**Amamix 200, 300**

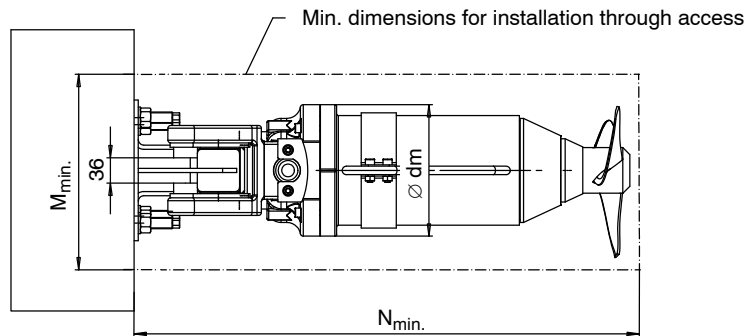
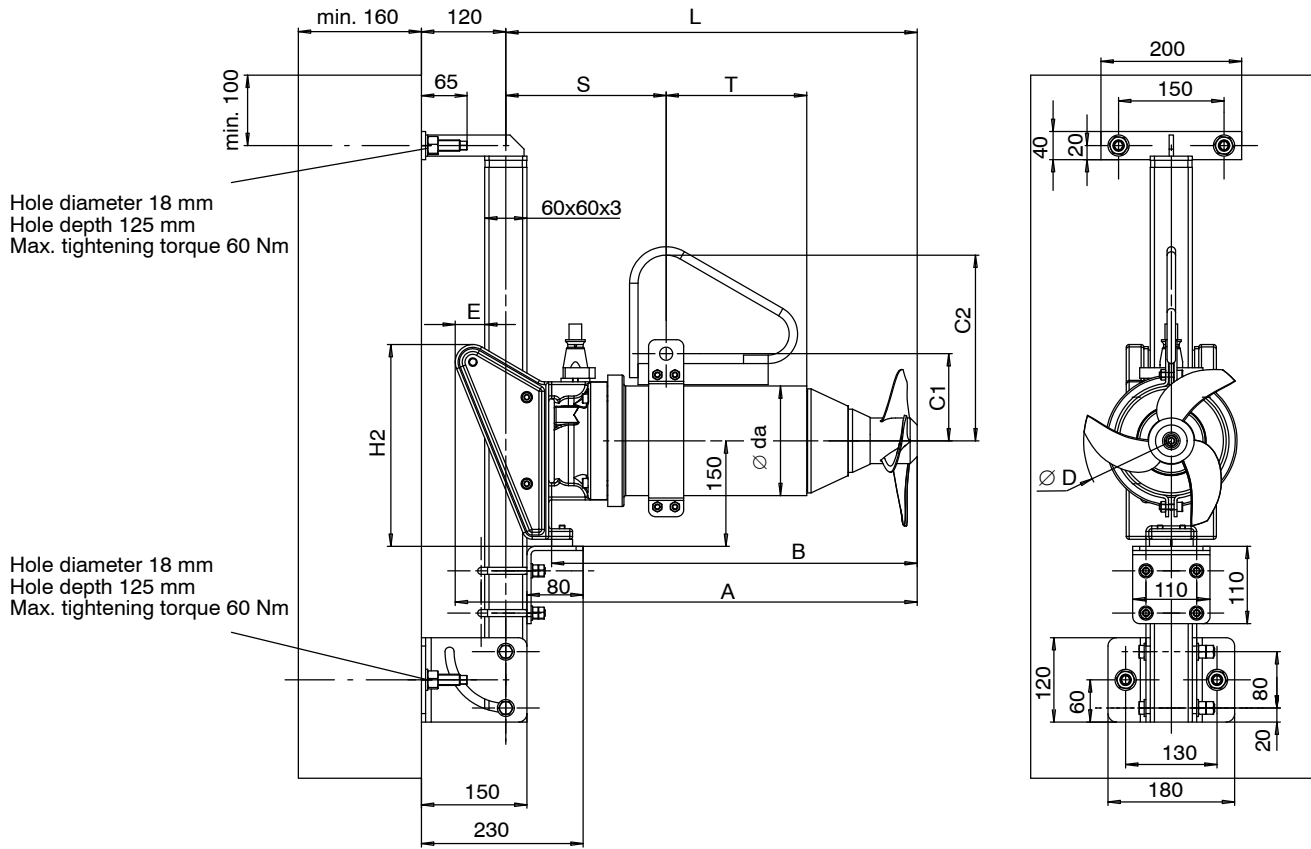
Item No.	Accessories	Description
<b>6</b>	Stand	for permanent mounting of the mixer (sizes 200, 300) on the tank floor; application in tanks where regular drainage provides access to the unit (e.g. for maintenance and inspection purposes), e.g. stormwater balancing systems.
	Incl. composite anchor bolts	Composite anchor bolts for fastening the stand on the tank floor (concrete grade at least B25)

Item No.	Description	For size	Material	Material No.	Weight [kg]
<b>6</b>	Stand incl. 3 nos. composite anchor bolts	Amamix 200/300	1.4301	01 109 062	8.0
			1.4571	19 556 921	8.0

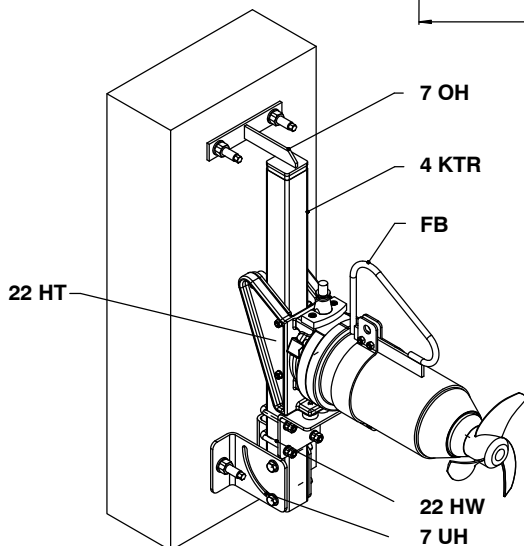
Standard accessories 7

For mounting on the sump wall or benching, vertically adjustable

Amamix 200, 300



Other dimensions are given on page 32

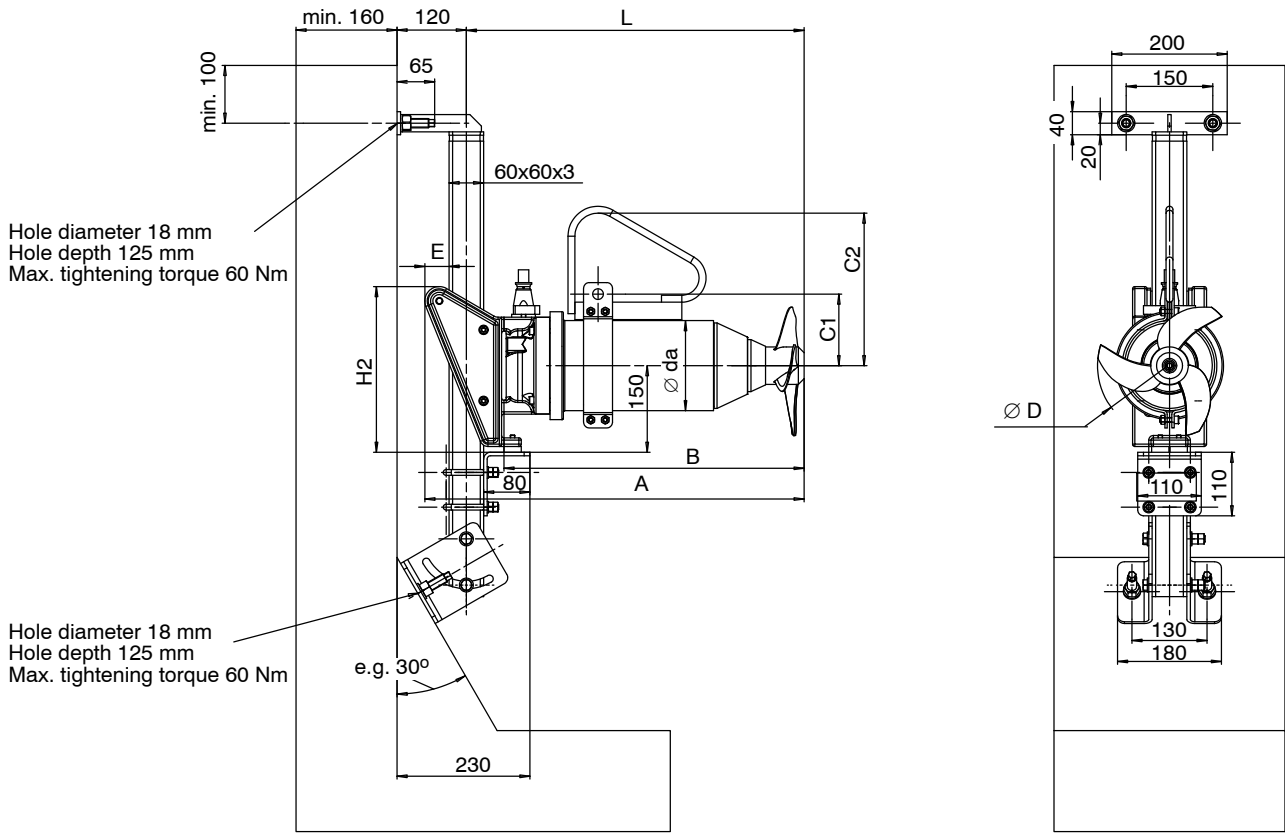


Installation example:  
**Wall-mounted**  
(optional lifting clamp FB)

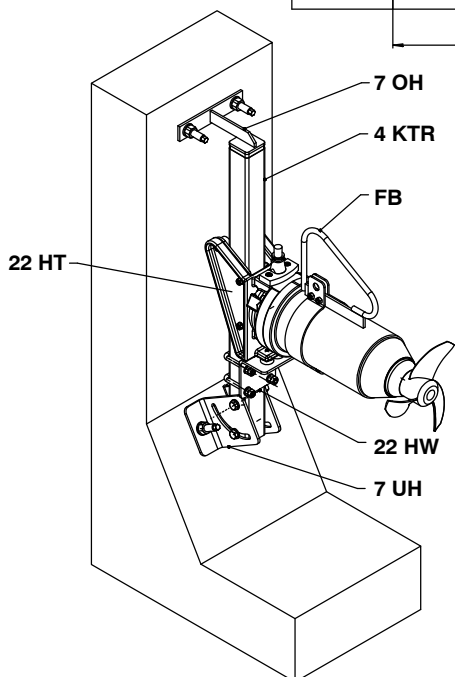
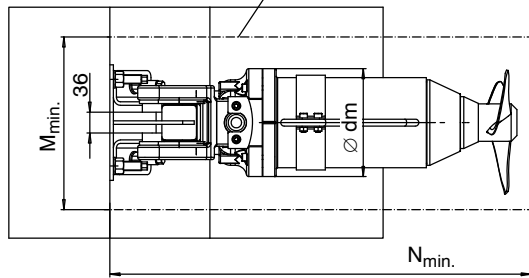
### Standard accessories 7

For mounting on the sump wall or benching, vertically adjustable

Amamix 200, 300



Min. dimensions for installation through access



Other dimensions are given on page 32

Installation example:  
**on benching**  
(optional lifting clamp FB)

**Standard accessories 7**
**For mounting on the sump wall or benching, vertically adjustable**
**Amamix 200, 300**

Size Amamix ...	Dimensions [mm]														Weight of pump unit <sup>1)</sup> [kg]
	A	B	C1	C2	∅ D	∅ da	∅ dm	E	H2	L	S	T	M <sub>min.</sub>	N <sub>min.</sub>	
V 22.. / 1 4 ..DG	596	459	124	264	approx. 225	156	187	42	287	524	210	240	225	700	35
V 22.. / 2 4 ..DG											215	235	275		
C 22.. / 1 4 ..DG	596	459	124	264	approx. 225	156	187	42	287	524	210	240	225	700	35
C 22.. / 2 4 ..DG											215	235	275		
C 22.. / 1 4 ..DC	592	459	120	260	approx. 225	148	187	42	287	520	220	200	225	700	34
C 22.. / 2 4 ..DC											225	195	275		
C 29.. / 0 6 ..DG	731	594	124	264	294	156	187	42	287	659	268	230	375	830	53.5
C 32.. / 0 6 ..DG					325										
C 29.. / 2 6 ..DG					294										
C 32.. / 2 6 ..DG					325										
C 29.. / 0 6 ..DC	727	594	120	260	294	148	187	42	287	655	264	230	375	830	47
C 32.. / 0 6 ..DC					325										
C 29.. / 2 6 ..DC					294										
C 32.. / 2 6 ..DC					325										

<sup>1)</sup> Weight of unit with 10-metre power cable and assembled clamp

Item No.	Accessories	Description
<b>22 HT</b>	Clamp	Clamp for mounting the unit on the square guide rail in horizontal position, Cross-section: 60 x 60 x 3
<b>22 HW</b>	Holding bracket	Vertical continuous adjustment to the operating position of the mixer; unit rests on the bracket via the clamp.
<b>4 KTR</b>	Square guide rail	Square guide rail ( <b>see page 59!</b> ) Cross-section: 60 x 60 x 3 Supplied in lengths of 1.5 m / 3 m / 6 m
<b>7 UH</b>	Lower guide rail holder	Lower holder for mounting the guide rail on the sump wall or benching; infinitely adjustable through 90°
	incl. 2 nos. composite anchor bolts	Composite anchor bolts for fitting the lower holder on the sump wall or benching Concrete grade at least B25.
<b>7 OH</b>	Upper guide rail holder	Upper holder for mounting the guide rail on the sump wall; flexible support of 60 x 60 x 3 guide rail
	incl. 2 nos. composite anchor bolts	Composite anchor bolts for mounting the upper holder on the sump wall Concrete grade at least B25.

## Standard accessories 7

For mounting on the sump wall or benching, vertically adjustable

Amamix 200, 300

Item No.	Description	for size	Material	Material No.	Weight [kg]
<b>22 HT</b>	Clamp for square guide rail 60 x 60 x 3	Amamix 215/300 G	JL 1040	19 203 139	6.9
		Amamix 215/300 C	1.4571	19 202 241 <sup>1)</sup>	3.4
<b>22 HW</b>	Bracket for square guide rail 60 x 60 x 3	Amamix 215/300	1.4301	01 109 104	1.5
			1.4571	19 202 369	1.5
<b>4 KTR</b>	Square guide rail 60 x 60 x 3	Amamix 215/300	1.4301	See accessories Amamix 4 KTR page 59!	5.2 kg/m
			1.4571		
<b>7 UH</b>	Lower holder for square guide rail 60 x 60 x 3	Amamix 200/300	1.4301	01 109 097	2.8
			1.4571	01 103 809	2.8
<b>7 OH</b>	Upper holder for square guide rail 60 x 60 x 3	Amamix 200/300	1.4301	01 109 095	1.5
			1.4571	01 103 807	1.5

<sup>x)</sup> optional for Amamix 215/300 G

## Standard accessories 22

### For mounting on the tank wall and floor, with horizontal swivelling option, vertically adjustable

Accessories 22 is the universal set of accessories for Amamix sizes 200, 300, 400 and 600.

Accessories 22 comprises the upper guide rail holder **22 OH**, the guide rail **4 KTR**, and the lower guide rail holder **22 UH-....**

The cross section of the square guide rail (4 KTR) depends on the mixer size:

Amamix 200, 300, 400: cross section 60 x 60 x 3

Amamix 400, 600: cross section 100 x 100 x 5

Different types of lower holders (22 UH) are available to match individual tank floor designs:

- For horizontal tank floors (EBB): **22 UH-EBB**
- For sloping tank floors (GBB, slope of 0.5° ... 10°): **22 UH-GBB**, with continuously adjustable inclination
- For inclined tank floors (SBB, inclination of 10° ... 90° or wall mounting (WB): **22 UH-SBB/WB** also with continuously adjustable inclination

The upper holder (22 OH) is identical for all three variants.

The square guide rail (4 KTR) with a 60 x 60 x 3 or 100 x 100 x 5 cross section can be supplied either by KSB or the owner/operator.

The mixer rests on a holding bracket **22 HW** mounted on the guide rail which is available for both guide rail cross sections.

A clamp **22 HT** bolted to the motor housing cover guides the mixer along the guide rail. Any forces generated by the mixer, such as the reactive force to the propeller's axial thrust, the motor torque and any lateral forces are transferred into the guide rail via the clamp and thus safely dissipated into the foundation (tank wall and floor). The upper holder provides a mixer swivelling option around the guide rail axis of up to 45° towards both sides.

Another option is jet pitch adjustment either upwards or downwards from the standard horizontal installation position by fitting a pitch adapter **22 ADP** between the motor housing cover and the clamp **22 HT**. Pitch can be adjusted through a range of plus/minus 40°, depending on the mixer size.

If existing KSB installation parts include a 100 x 100 guide rail, a clamp for this guide rail size can be mounted for replacement units of sizes 200 and 300.

For installation depths >6m an additional middle support **22 MIAS** is required for the guide rail; this may also be useful for lower installation depths depending on tank design and flow conditions.

The standard accessories 22 and any options available are described and illustrated on the following pages

#### **Mixer sizes 200, 300, 400** Page 34-43

- Standard accessories 22 for horizontal tank floors
- optional accessories 22 for sloping tank floors 0.5° ... 10°
- optional accessories 22 for inclined tank floors 10° ... 90°
- Middle support for guide rail 60 x 60 x 3  
Option : Amamix 200/300 on 100 x 100 guide rail

#### **Mixer sizes 400, 600** Page 44-51

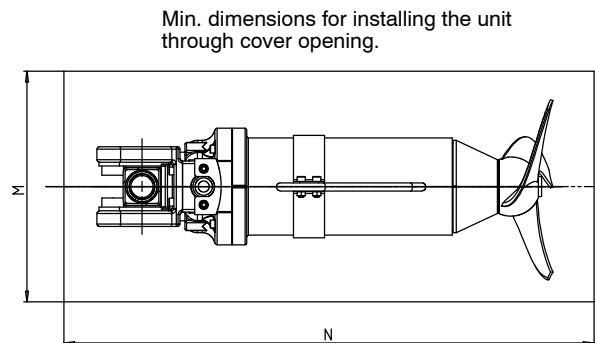
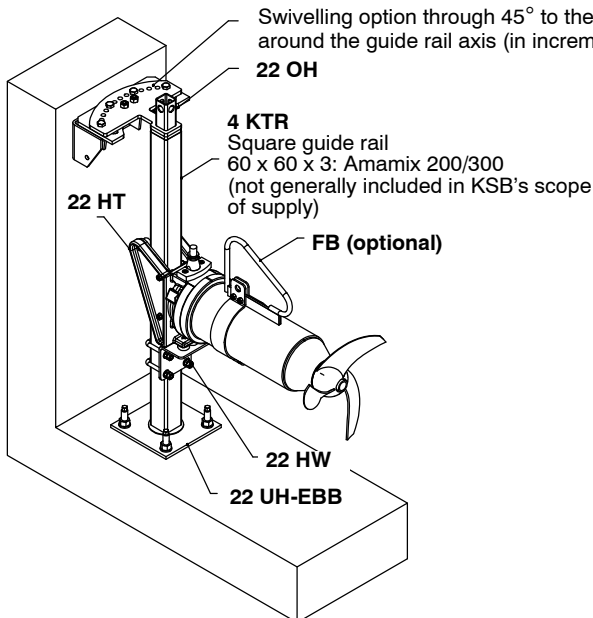
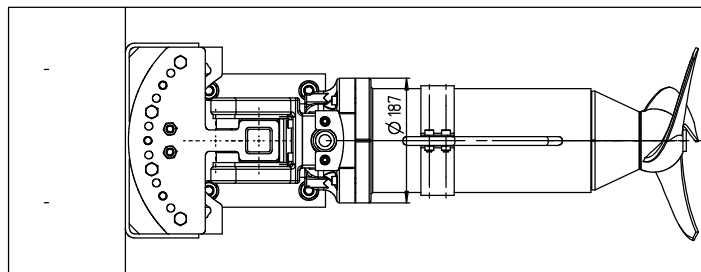
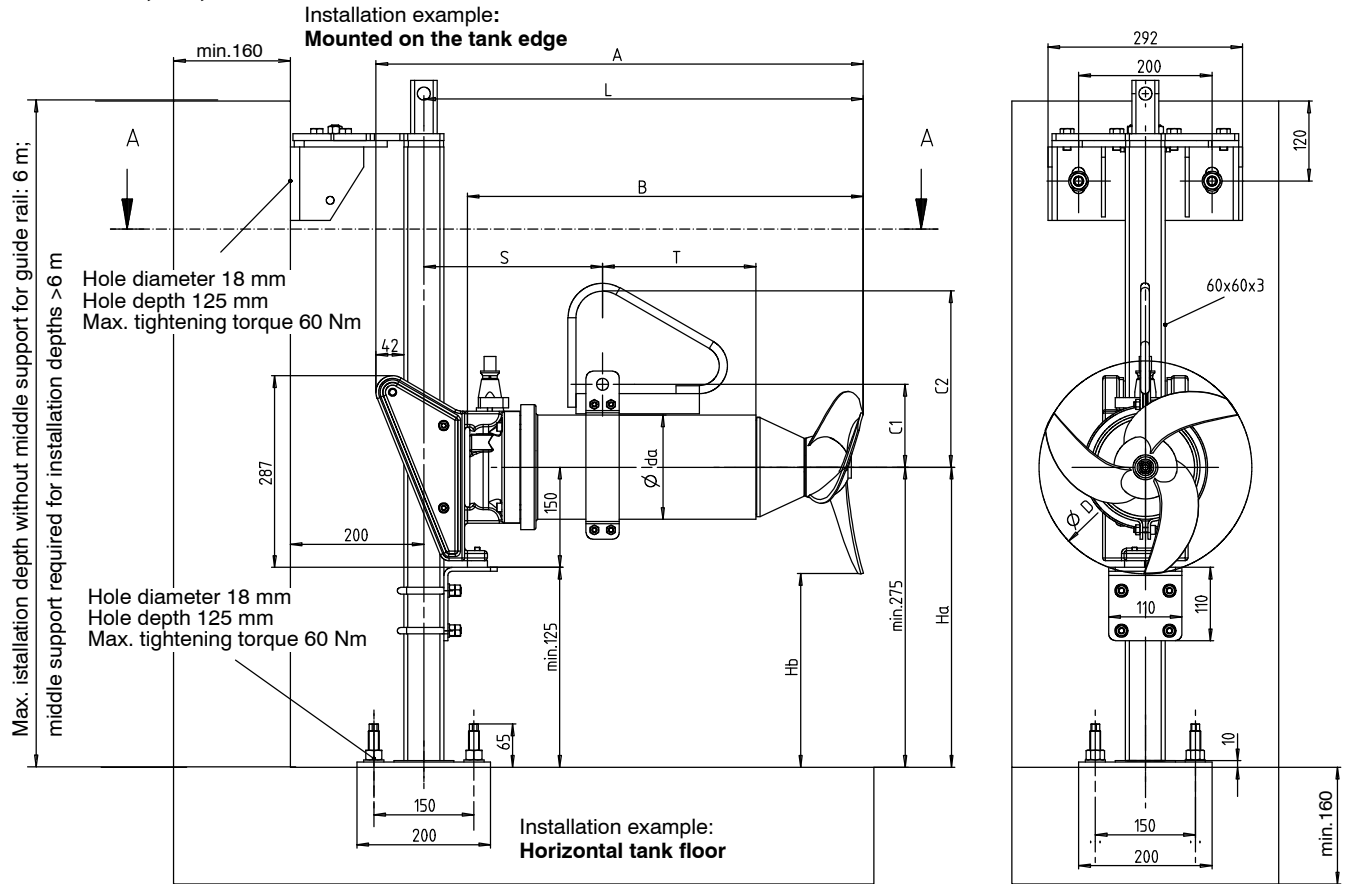
- Standard accessories 22 for horizontal tank floors
- optional accessories 22 for sloping tank floors 0.5° ... 10°
- optional accessories 22 for inclined tank floors 10° ... 90°
- Middle support for 100 x 100 x 5 guide rail

#### **Mixer sizes 200, 300, 400, 600** Page 52-55

- Optional: Pitch adapter

**Standard accessories 22**

**For mounting on the tank wall and floor, with horizontal swivelling option, vertically adjustable**  
**Amamix 200, 300, 400**



Dimensions see dimensions tables page 12-15 and page 20/21

## Standard accessories 22

**For mounting on the tank wall and floor, with horizontal swivelling option, vertically adjustable**  
**Amamix 200, 300, 400**

Item No.	Accessories	Description
<b>22 HT</b>	Clamp	Clamp for mounting the unit on the square guide rail in horizontal position. Cross-section: 60 x 60 x 3
<b>22 HW</b>	Holding bracket	Vertical continuous adjustment to the operating position of the mixer; unit rests on the bracket via the clamp.
<b>4 KTR</b>	Square guide rail	Square guide rail Cross-section: 60 x 60 x 3  Installation depths up to 6 m without middle support; middle support required for installation depths >6 m <b>See page 59!</b>
<b>22 OH</b>	Upper guide rail holder	Upper holder for mounting on the tank wall
	Incl. 2 nos. composite anchor bolts	Composite anchor bolts for mounting the upper holder on the tank wall. Concrete grade at least B25.
<b>22 UH-EBB</b>	Lower guide rail holder for horizontal floor	Lower holder for mounting on horizontal tank floor.
	Incl. 4 nos. composite anchor bolts	Composite anchor bolts for mounting the lower holder on a horizontal tank floor. Concrete grade at least B25.

Item No.	Description	for size	Material	Material No.	Weight [kg]
<b>22 HT</b>	Clamp for square guide rail 60 x 60 x 3	Amamix 200/300 G	JL 1040	19 203 139	6.9
		Amamix 400 G		01 307 155	10.5
		Amamix 200/300 C	1.4571	19 202 241 <sup>1)</sup>	3.4
		Amamix 400 C		01 307 156 <sup>2)</sup>	7.0
<b>22 HW</b>	Holding bracket for square guide rail 60 x 60 x 3	Amamix 200/300/400	1.4301	01 109 104	1.5
			1.4571	19 202 369	3.5
<b>4 KTR</b>	Square guide rail 60 x 60 x 3	Amamix 200/300/400	1.4301	See accessories Amamix 4 KTR page 59!	5.2 kg/m
			1.4571		
<b>22 OH</b>	Upper holder for vertical wall; for square guide rail 60 x 60 x 3 incl. 2 nos. of composite anchor bolts	Amamix 200/300/400	1.4301	01 306 260	8.9
			1.4571	01 306 261	
<b>22 UH-EBB</b>	Lower holder for horizontal tank floor; for square guide rail 60 x 60 x 3 incl. 4 nos. of composite anchor bolts	Amamix 200/300/400	1.4301	01 129 858	4.25
			1.4571	01 129 859	4.25

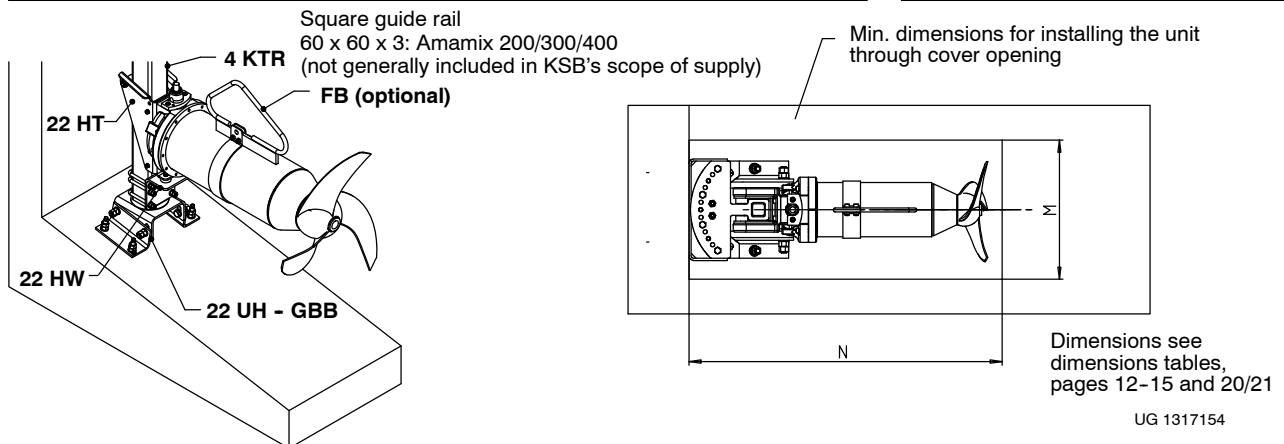
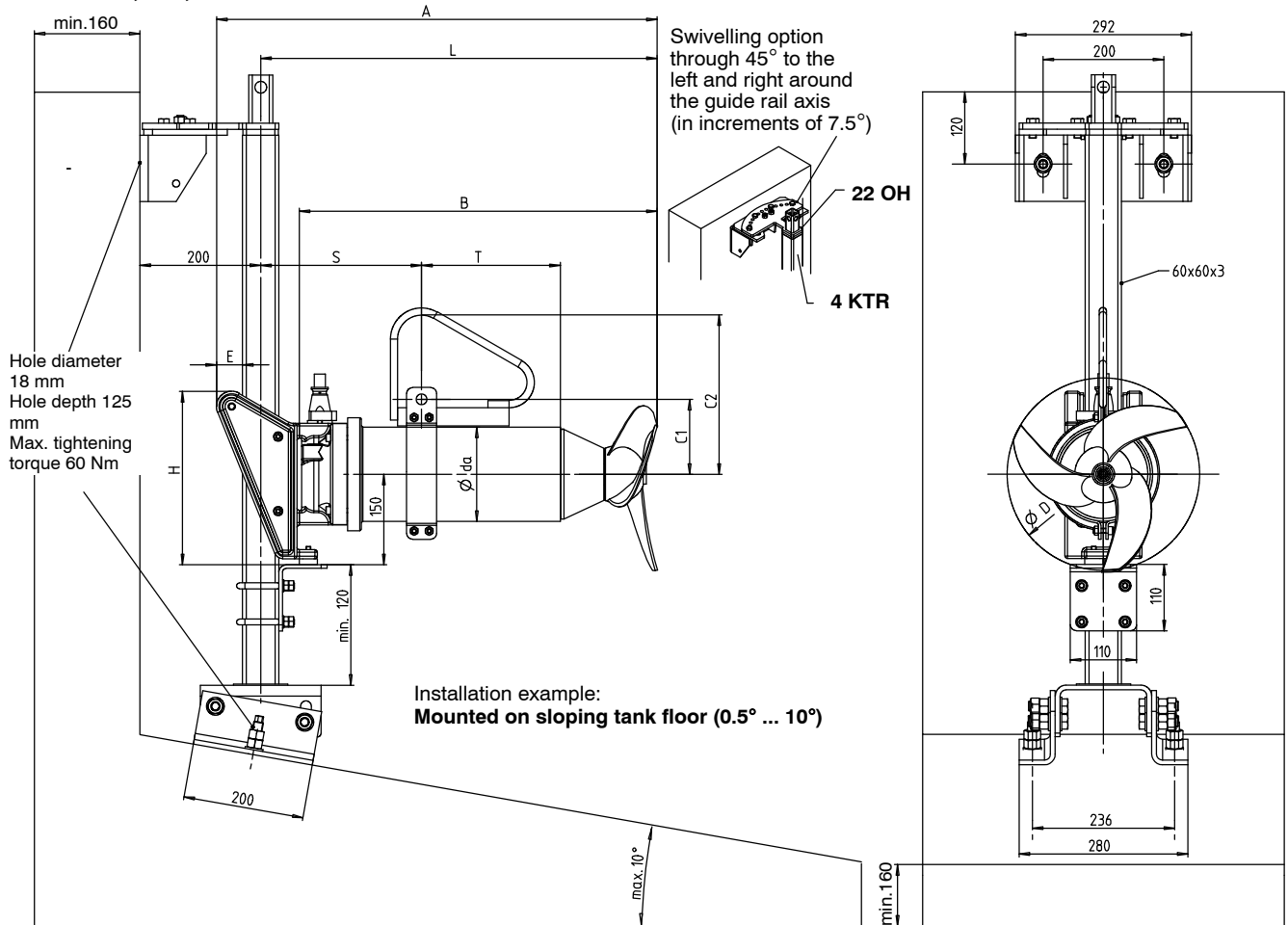
<sup>1)</sup> optional for Amamix 200/300 G

<sup>2)</sup> optional for Amamix 400 G

## Standard accessories 22 - Options

For mounting on the tank wall and sloping floor (0.5° ... 10°), with horizontal swivelling option, vertically adjustable

Amamix 200, 300, 400



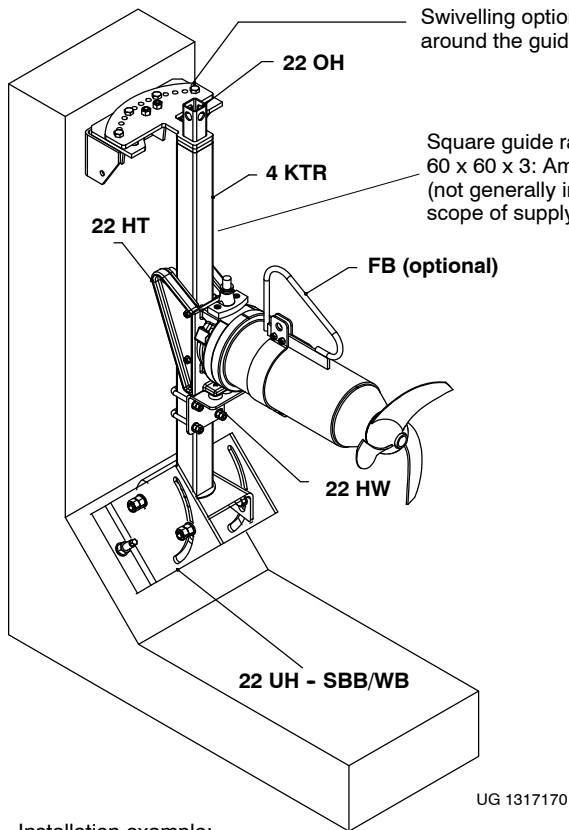
Item No.	Accessories	Description
<b>22 UH-GBB</b>	Lower guide rail holder for sloping floor 0.5° ... 10°	Lower holder for mounting on sloping floor
	incl. 4 nos. of composite anchor bolts	Composite anchor bolts for mounting the lower holder; Concrete grade at least B25.

Item No.	Description	for size	Material	Material No.	Weight [kg]
<b>22 UH-GBB</b>	Lower holder for sloping floor for square guide rail 60 x 60 x 3 incl. 4 nos. of composite anchor bolts	Amamix 200/300/400	1.4301	01 129 860	9.4
			1.4571	01 129 861	9.4

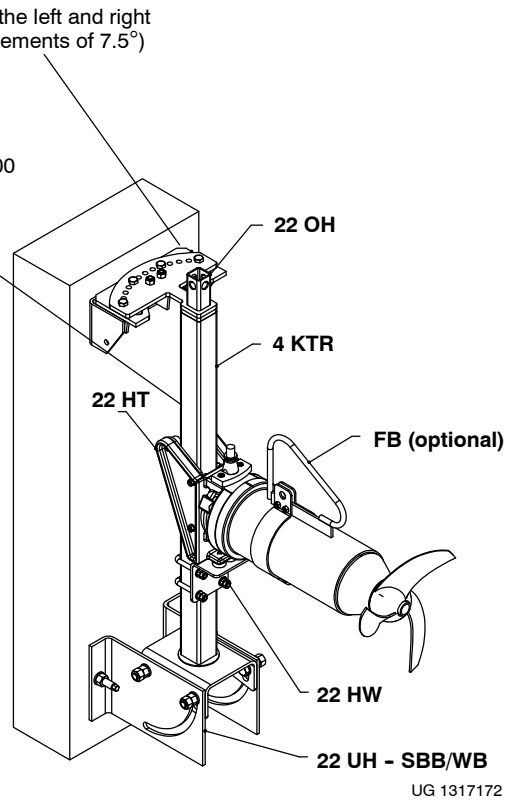
## Standard accessories 22 - Options

For mounting on the tank wall and at the base of the tank wall or on an inclined tank floor (10° ... 90°), with horizontal swivelling option, vertically adjustable

Amamix 200, 300, 400



Installation example:  
**Mounted on inclined tank floor 10° ... 90°**



Installation example:  
**Mounted on the tank wall**

Item No.	Accessories	Description
<b>22 UH-SBB/WB</b>	Lower guide rail holder	For mounting the lower holder of the 60 x 60 x 3 guide rail on the tank wall or on a tank floor inclined at 10° ... 90°, continuously adjustable
	Incl. 2 nos. composite anchor bolts	Composite anchor bolts for fitting the lower holder on the tank wall or on the inclined floor; Concrete grade at least B25.

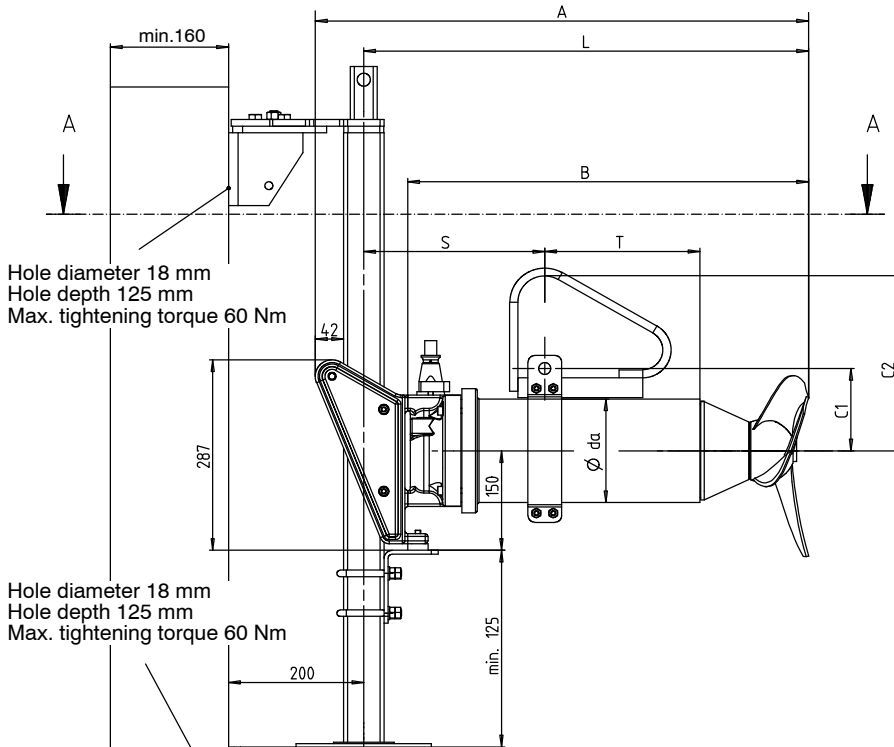
Item No.	Description	for size	Material	Material No.	Weight [kg]
<b>22 UH-SBB/WB</b>	Lower holder for wall mounting or inclined tank floor for square guide rail 60 x 60 x 3 Incl. 4 nos. composite anchor bolts	Amamix 200/300/400	1.4301	01 129 731	13.27
			1.4571	01 129 732	13.27

**Standard accessories 22 - Options**

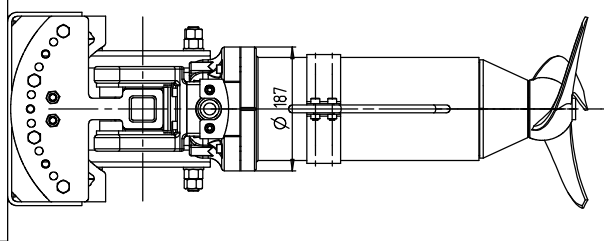
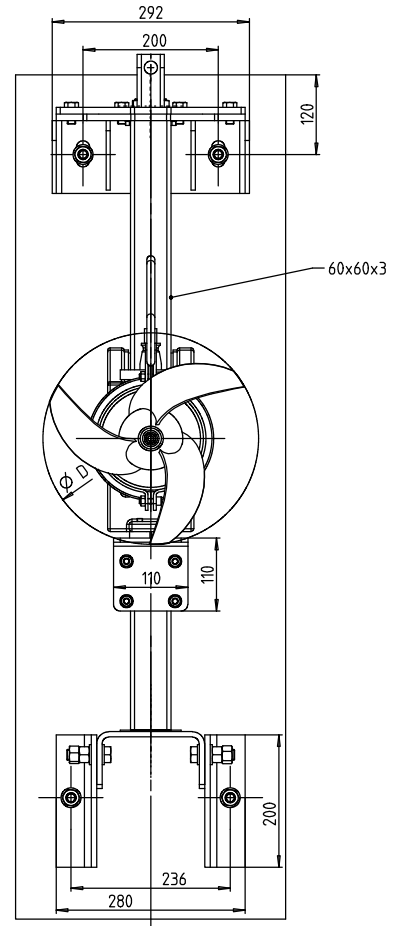
**For mounting on the tank wall and at the base of the tank wall or on an inclined tank floor (10° ... 90°), with horizontal swivelling option, vertically adjustable**

Amamix 200, 300, 400

Installation example:  
**Mounted on the tank edge**



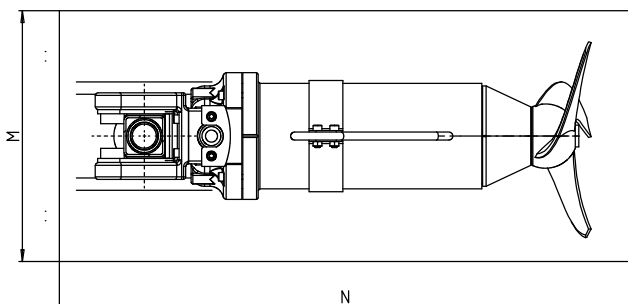
Installation example:  
**Wall mounting**



UG 1317172

**A-A**

Min. dimensions for installing the unit through cover opening

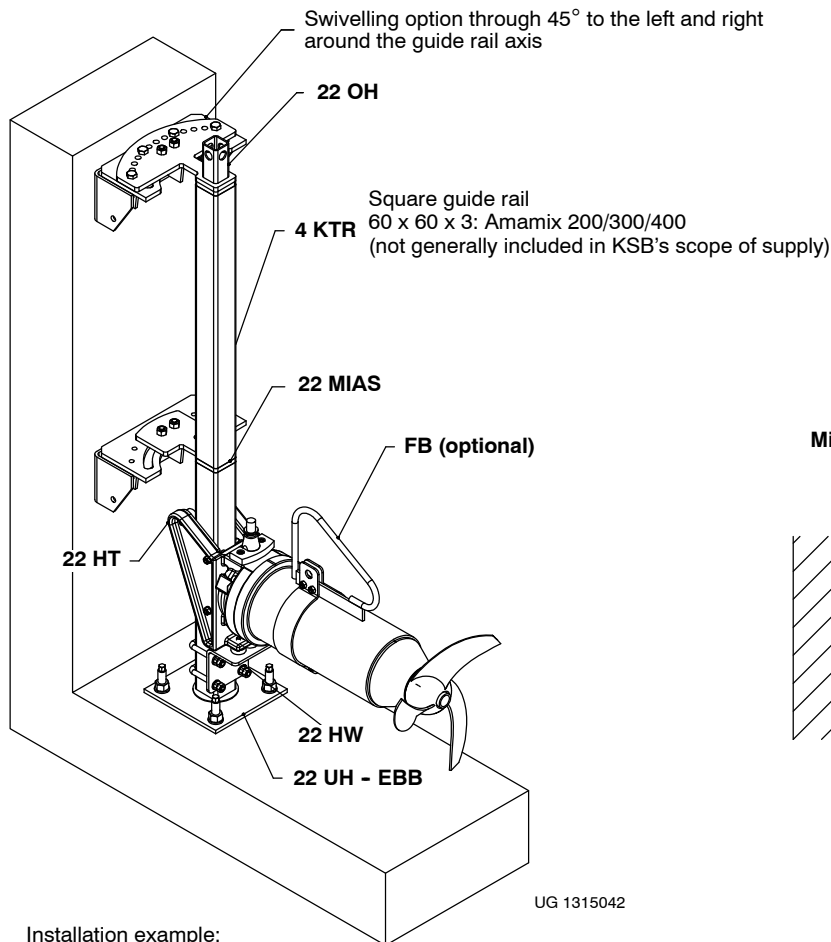


Dimensions see dimensions tables, pages 12-15 and 20/21

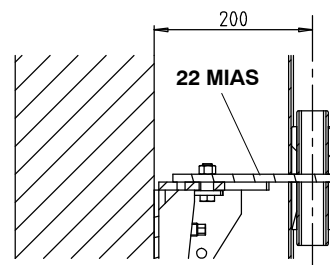
## Standard accessories 22 - Options

### Middle support for 60 x 60 x 3 guide rail for greater installation depths

Amamix 200, 300, 400



Middle support for guide rail



Installation example:  
Mounted middle support for guide rail

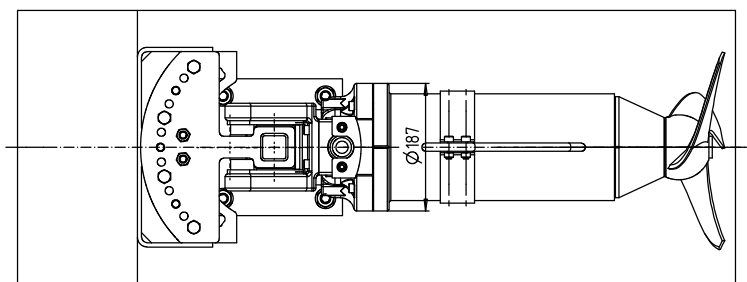
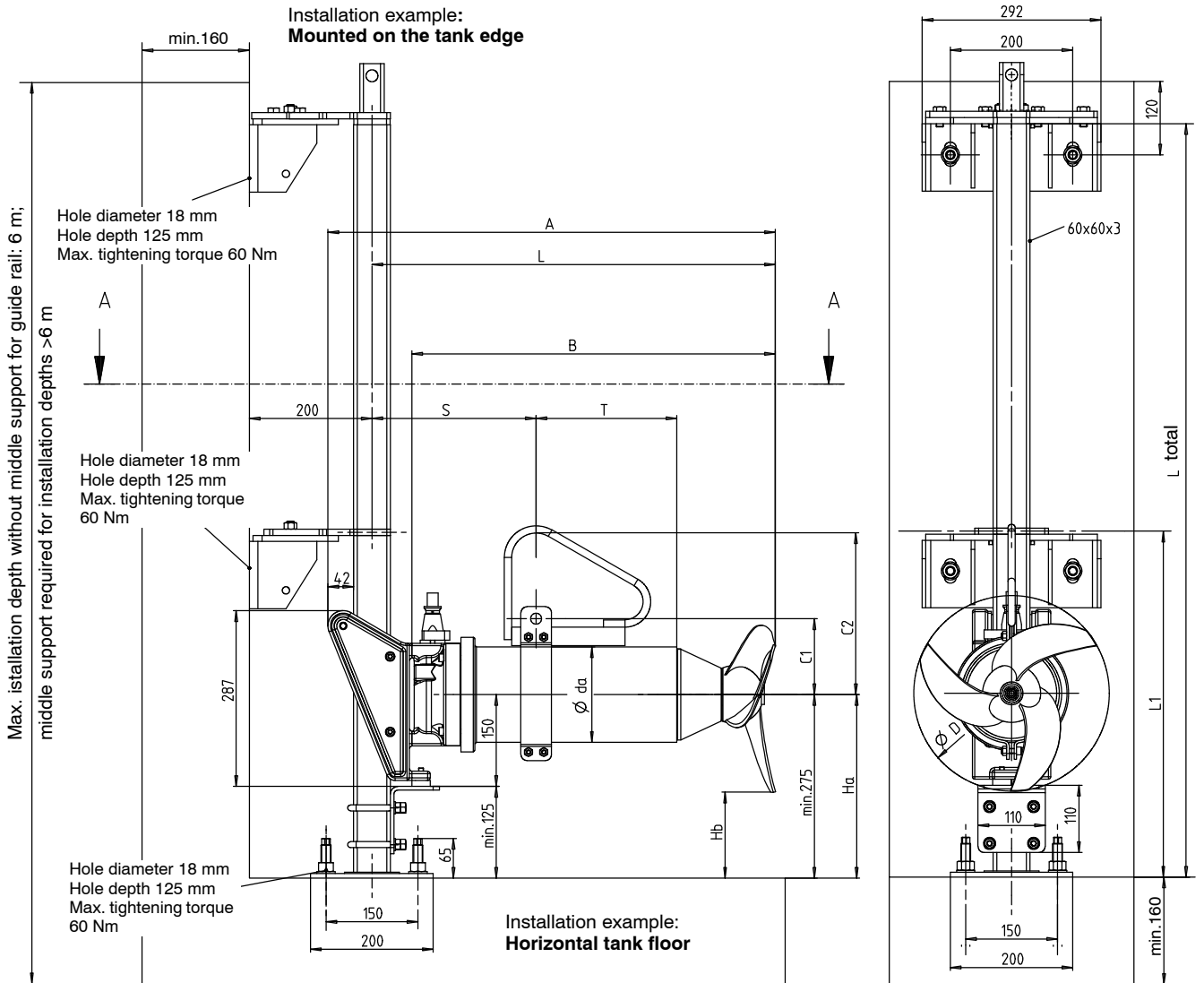
Item No.	Accessories	Description
<b>22 MIAS</b>	Middle support for square guide rail	For supporting the square guide rail 60 x 60 x 3 on the tank wall in case of installation depths $\geq 6$ m; Guide rails up to 6 m long do not generally require a middle support, except for tanks where the set jet direction and wall reflections (e.g. as a result of tank shape and installations) result in increased forces acting on the guide rail and upper and lower holders. In this case a middle support must be provided for the guide rail, like for guide rails >6 m.
	Incl. 2 nos. composite anchor bolts	Composite anchor bolts for mounting the middle support on the tank wall; Concrete grade at least B25.

Item No.	Description	for size	Material	Material No.	Weight [kg]
<b>22 MIAS</b>	Middle support for square guide rail 60 x 60 x 3 Incl. 2 nos. composite anchor bolts	Amamix 200/300/400	1.4301	01 306 324	7.7
			1.4571	01 306 325	7.7

**Standard accessories 22 - Options**

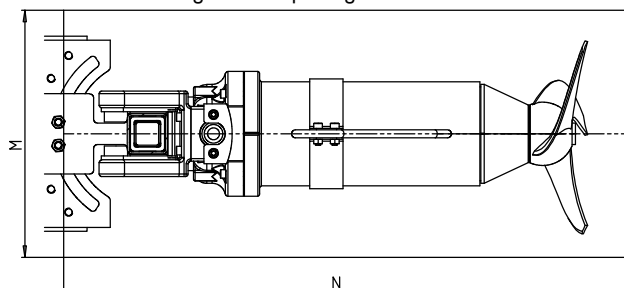
**Middle support for 60 x 60 x 3 guide rail for greater installation depths**

Amamix 200, 300, 400



**A-A**

Min. dimensions for installing the unit through cover opening



L1 should be located as closely above the mixer as possible, to ensure that the forces generated are safely transferred from the guide rail into the wall!

UG 1315142

Dimensions see dimensions tables, pages 12-15 and 20/21

## Standard accessories 22 - Options

### Amamix 200 and 300 with clamp for guide rail 100 x 100

The standard version of Amamix 200/300 with accessories set no. 22 is designed for the (square) guide rail measuring 60 x 60 x 3 (new installations).

If a square guide rail 100 x 100 has been specified, or if a square guide rail 100 x 100 is already installed (e.g. in the case of KSB replacement units), Amamix 200/300 units can be retrofitted with the following clamps instead of the standard clamps:

- Amamix 200/300 material variant G - Clamp 19 556 701 (JL 1040)/optional clamp 19202242 (1.4571)
- Amamix 200/300 material variant C - Clamp 19 202 242 (1.4571)

The clamp is already provided with the holes required for fastening the Amamix 200/300 unit.  
Mounting to the motor housing cover: 4 cheese-head screws M8; tightening torque 17 Nm.

Compared to the technical data given in the type series booklet for the standard version (clamp for square guide rail 60 x 60 x 3) (dimensions sheet), the complete unit weight, incl. clamp and 10-metre power cable, will be increased by 9.1 kg ("G" variant) or 5.1 kg ("C" variant).

This higher-weight clamp also results in different dimensions and a different position of the supporting clamp, as shown on the next page.

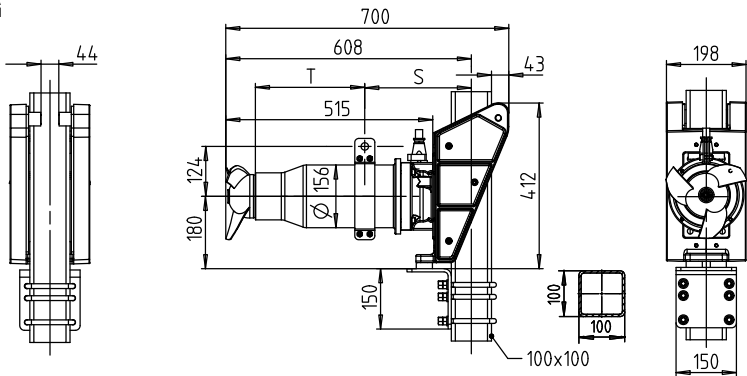
**Please note:**

Holding brackets already mounted on the guide rail (for adjusting the unit's distance from the floor) do not need to be replaced. Once the unit is lowered, it will rest on these brackets via the flexible rubber buffers mounted on the clamp.

Standard accessories 22 - Options

Amamix 200 and 300 with clamp for guide rail 100 x 100

**Amamix 200 G**

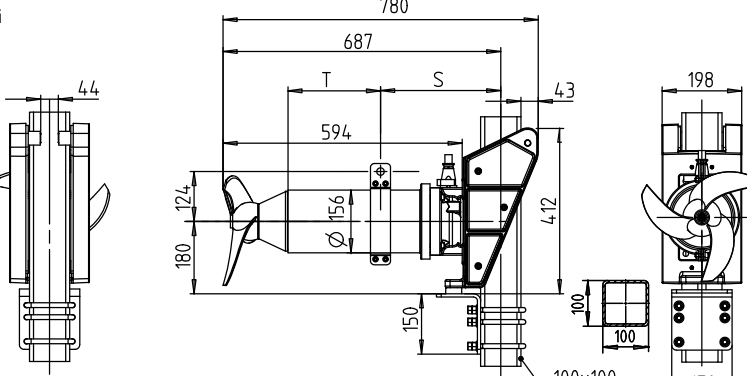


S = 215 / T = 270

Weight:  
 43 kg with motor 1 4  
 45.5 kg with motor 2 4

UG 1114666

**Amamix 300 G**

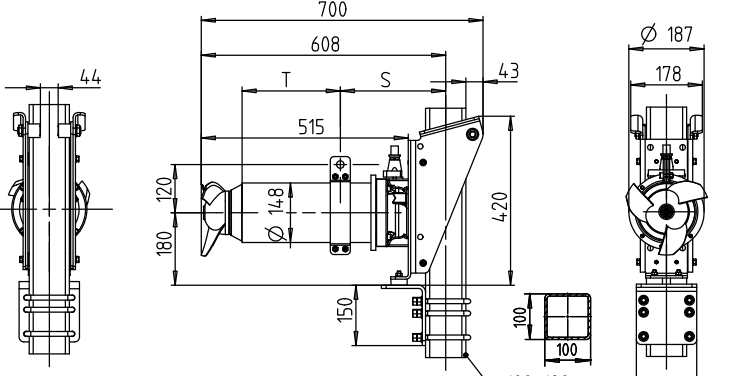


S = 265 / T = 260

Weight:  
 55 kg with motor 0 6 / 2 6

UG 1114666

**Amamix 200 C**

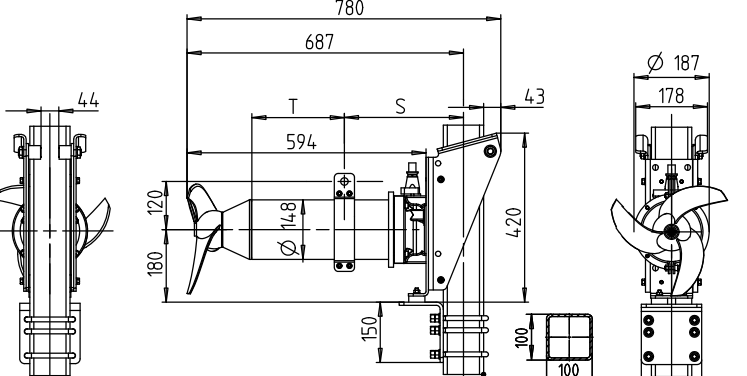


S = 215 / T = 240 (motor 1 4)  
 S = 220 / T = 235 (motor 2 4)

Weight:  
 36.5 kg with motor 1 4  
 39 kg with motor 2 4

UG 1114666

**Amamix 300 C**



S = 265 / T = 260

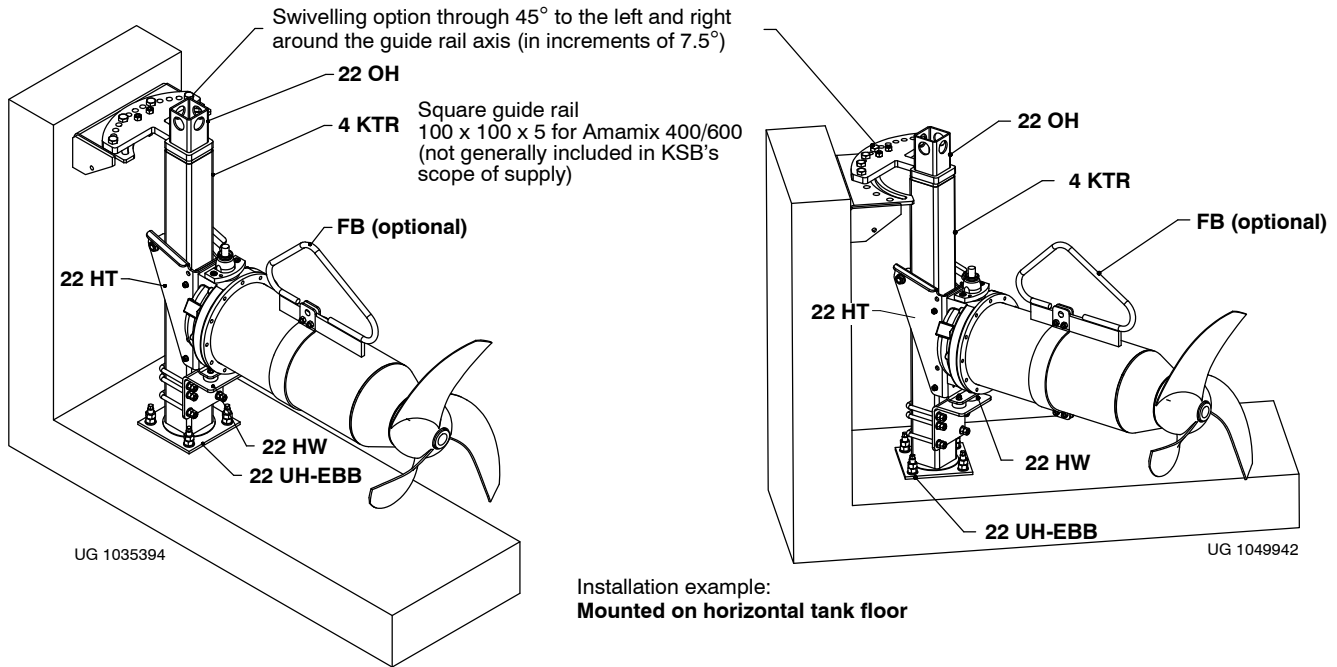
Weight:  
 48.5 kg with motor 0 6 / 2 6

UG 1114666

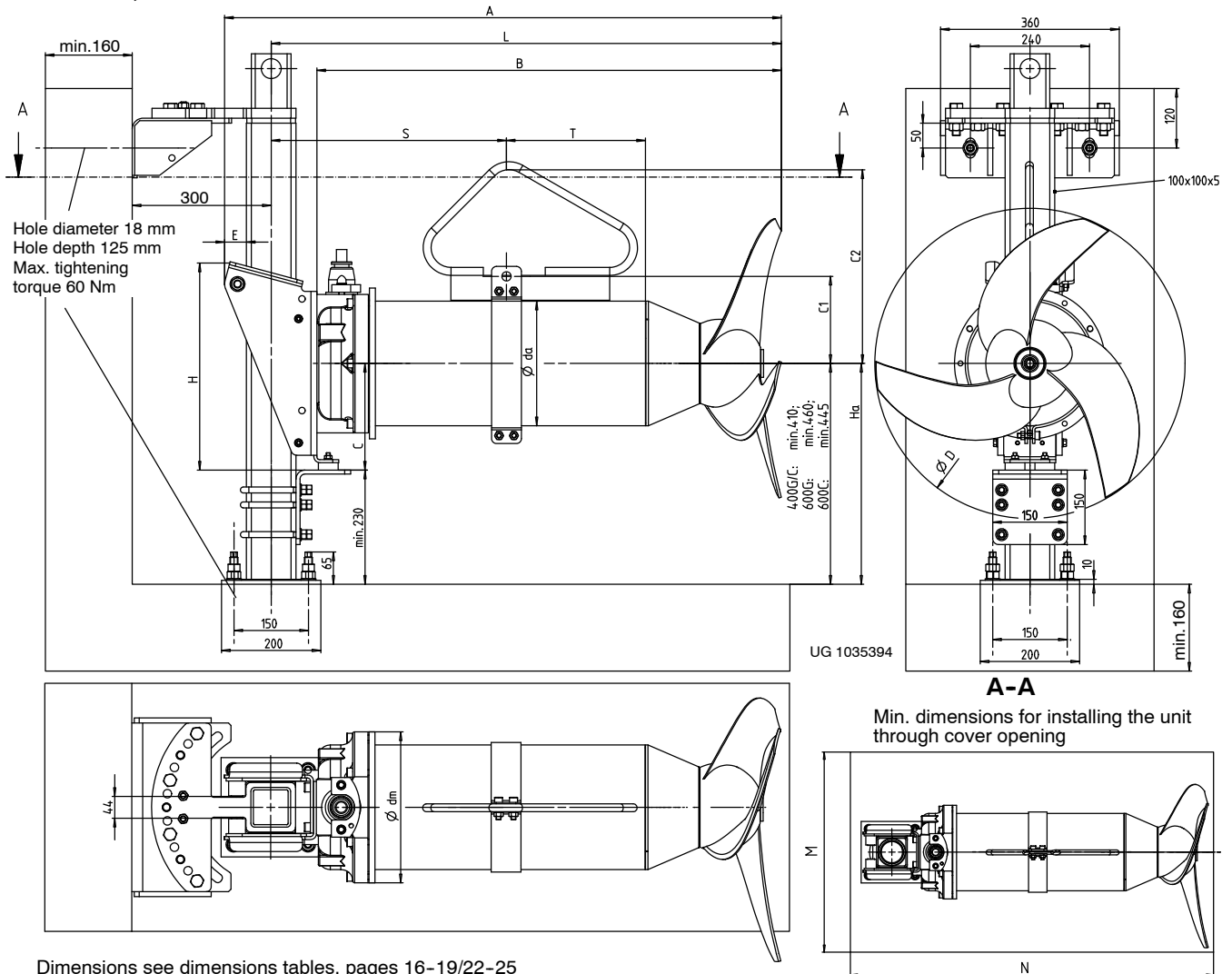
## Standard accessories 22

For mounting on the tank wall and on a horizontal tank floor, with horizontal swivelling option, vertically adjustable

Amamix 400, 600



Item No.	Accessories	Description
22 HT	Clamp	Clamp for mounting the unit on the square guide rail in horizontal position, Cross-section: 100 x 100 x 5
22 HW	Holding bracket	vertical continuous adjustment to the operating position of the mixer; Unit rests on the bracket via the clamp.
4 KTR	Square guide rail	Square guide rail Cross-section: 100 x 100 x 5; Installation depths up to 6 m without middle support; middle support required for installation depths >6 m <b>(see page 59!)</b>
22 OH	Upper guide rail holder	Upper holder for mounting on the tank wall
	incl. 2 nos. composite anchor bolts	Composite anchor bolts for mounting the upper holder on the tank wall; Concrete grade at least B25.
22 UH-EBB	Lower guide rail holder	For mounting the lower holder of the 100 x 100 x 5 guide rail on a horizontal tank floor (inclined by 0° ... 0.5°)
	incl. 4 nos. composite anchor bolts	Composite anchor bolts for mounting the lower holder on the tank floor; Concrete grade at least B25.

**Standard accessories 22**
**For mounting on the tank wall and on a horizontal tank floor, with horizontal swivelling option, vertically adjustable**
**Amamix 400, 600**


Dimensions see dimensions tables, pages 16-19/22-25

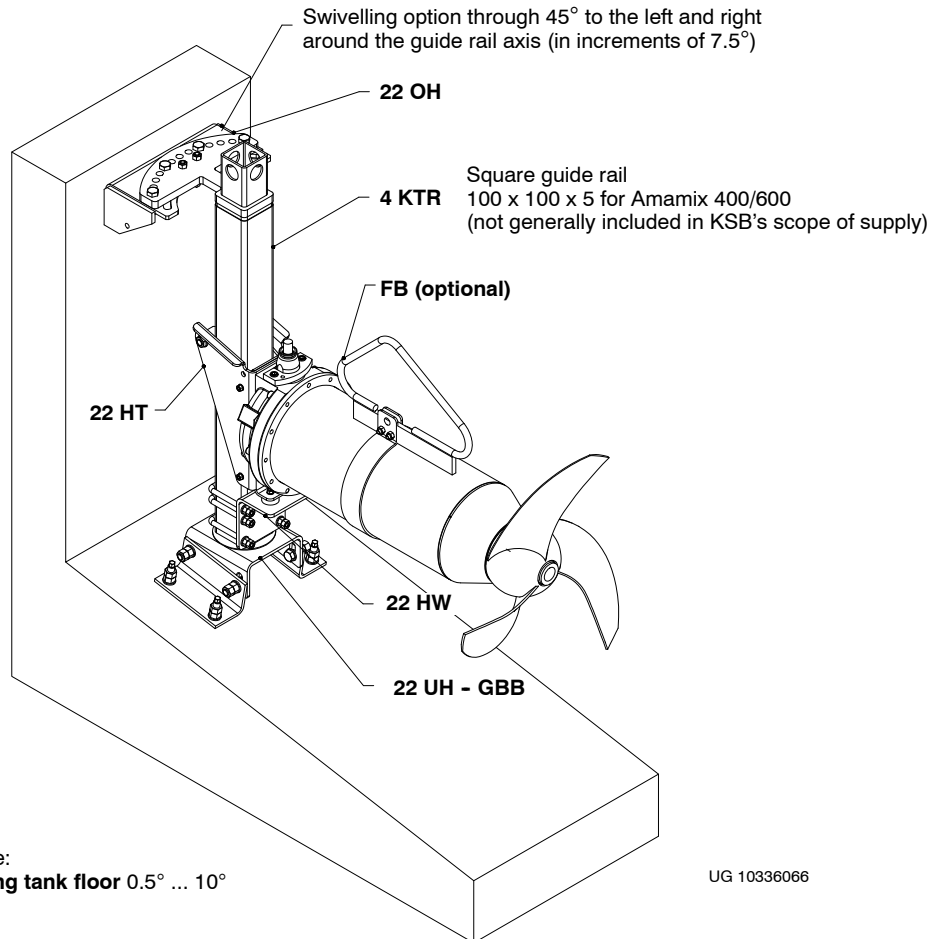
Item No.	Description	for size	Material	Material No.	Weight [kg]
<b>22 HT</b>	Clamp for square guide rail 100 x 100 x 5	Amamix 400 G	JL 1040	19 556 701	15
		Amamix 600 G	JL 1040	19 556 700	25
		Amamix 600 G for pitch adapter	JL 1040	01 142 642	25
		Amamix 400/600 C <sup>1)</sup>	1.4571	19 202 242	8.5
<b>22 HW</b>	Holding bracket for square guide rail 100 x 100 x 5	Amamix 400/600	1.4301	01 129 810	3.5
			1.4571	19 202 370	3.5
<b>4 KTR</b>	Square guide rail 100 x 100 x 5	Amamix 400/600	1.4301	See accessories Amamix 4 KTR page 59!	14.4 kg/m
			1.4571		
<b>22 OH</b>	Upper holder for square guide rail 100 x 100 x 5 incl. 2 nos. of composite anchor bolts	Amamix 400/600	1.4301	01 313 458	23.23
			1.4571	01 313 459	23.23
<b>22 UH-EBB</b>	Lower holder for horizontal or inclined tank floor for square guide rail 100 x 100 x 5 incl. 4 nos. of composite anchor bolts	Amamix 400/600	1.4301	01 118 892	5.68
			1.4571	01 118 903	5.68

<sup>1)</sup> optional for Amamix 400 G

## Standard accessories 22 - Options

For mounting the upper holder on the tank wall and the lower holder on a sloping tank floor (0.5° ... 10°), with horizontal swivelling option, vertically adjustable

Amamix 400, 600



Item No.	Accessories	Description
<b>22 UH-GBB</b>	Lower guide rail holder	For mounting the lower holder of the 100 x 100 x 5 guide rail on a sloping tank floor (0.5° ... 10°); continuously adjustable
	incl. 4 nos. of composite anchor bolts	Composite anchor bolts for fitting the lower holder on the inclined floor; Concrete grade at least B25.

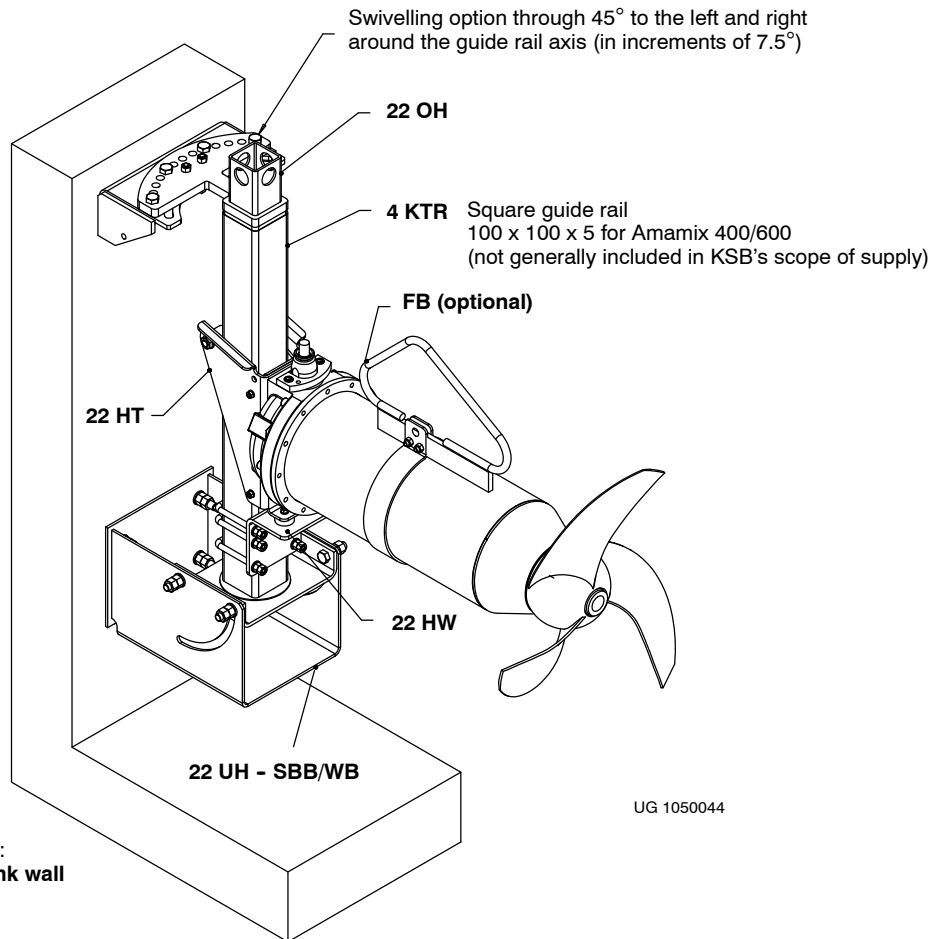
Item No.	Description	for size	Material	Material No.	Weight [kg]
<b>22 UH-GBB</b>	Lower guide rail holder for sloping tank floor	Amamix 400/600	1.4301	01 118 906	11.92
	for square guide rail 100 x 100 x 5 incl. 4 nos. of composite anchor bolts		1.4571	01 118 907	11.92



## Standard accessories 22 - Options

For mounting on the tank wall and at the base of the tank wall or on an inclined tank floor (10° ... 90°), with horizontal swivelling option, vertically adjustable

Amamix 400, 600



Installation example:  
Mounted on the tank wall

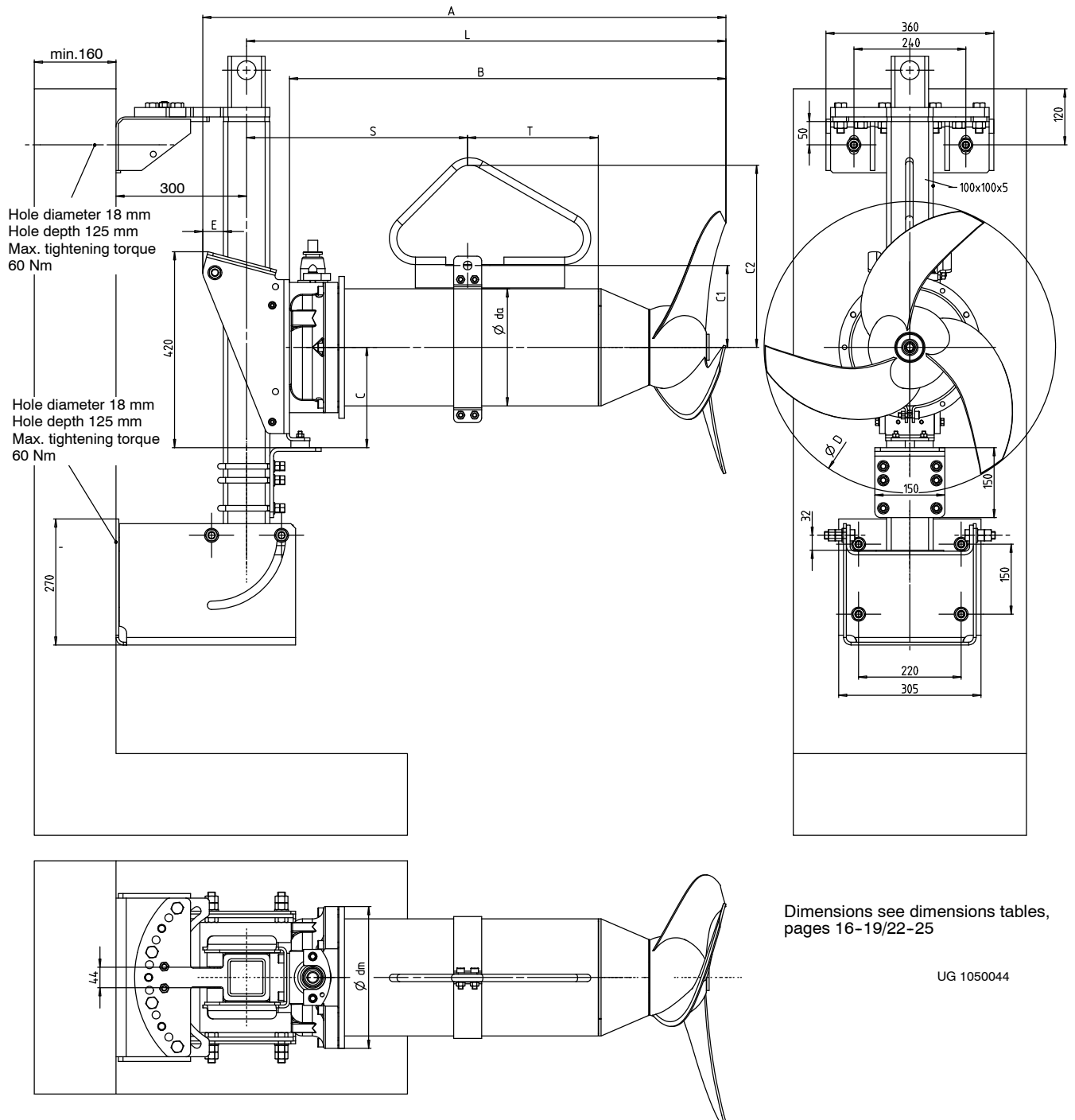
Item No.	Accessories	Description
<b>22 UH-SBB/WB</b>	Lower guide rail holder	For mounting the lower holder of the 100 x 100 x 5 guide rail on the tank wall or on a tank floor inclined at 10° ... 90°; continuously adjustable
	incl. 4 nos. of composite anchor bolts	Composite anchor bolts for fitting the lower holder on the tank wall or on the inclined floor; Concrete grade at least B25.

Item No.	Description	for size	Material	Material No.	Weight [kg]
<b>22 UH-SBB/WB</b>	Lower holder for wall mounting or inclined tank floor; for square guide rail 100 x 100 x 5 incl. 4 nos. of composite anchor bolts	Amamix 400/600	1.4301	01 314 360	26.52
			1.4571	01 314 362	26.52

**Standard accessories 22 - Options**

**For mounting on the tank wall and at the base of the tank wall or on an inclined tank floor (10° ... 90°), with horizontal swivelling option, vertically adjustable**

**Amamix 400, 600**



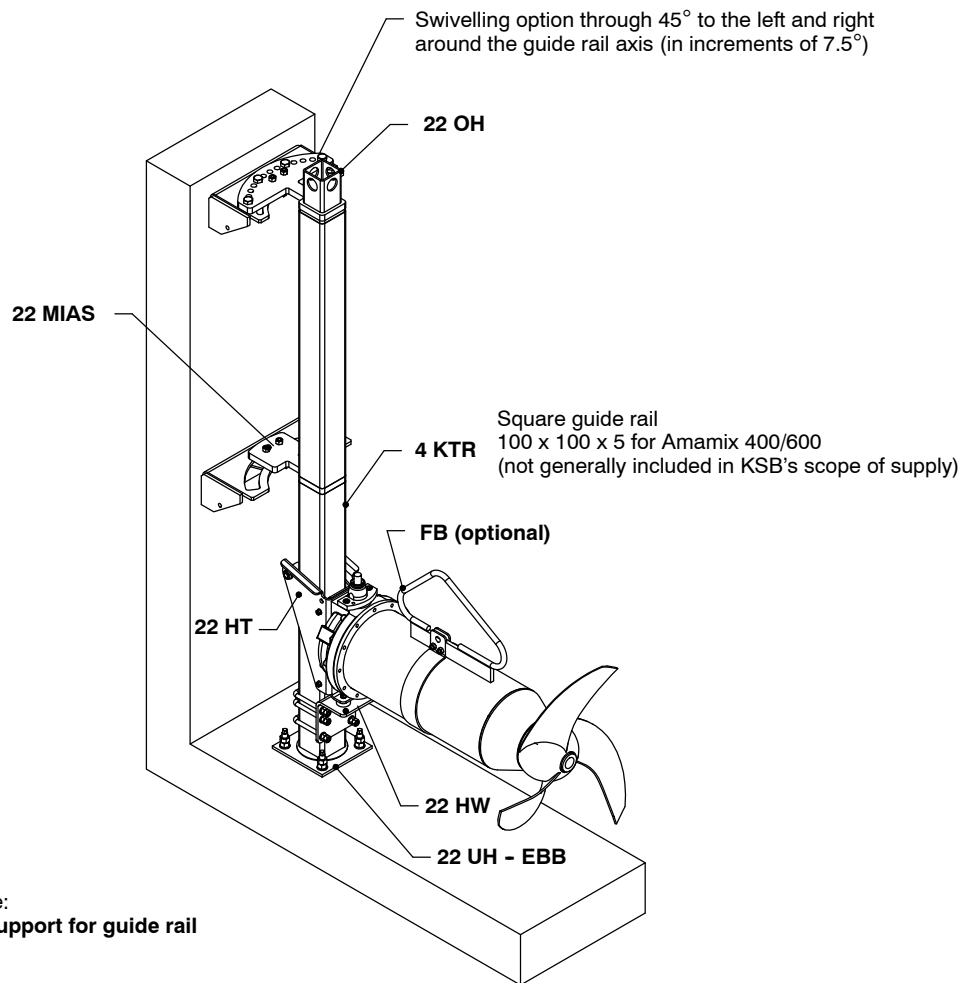
Dimensions see dimensions tables, pages 16-19/22-25

UG 1050044

## Standard accessories 22 - Options

### Middle support for 100 x 100 x 5 guide rail for greater installation depths

Amamix 400, 600



Installation example:  
**Mounted middle support for guide rail**

UG1049962

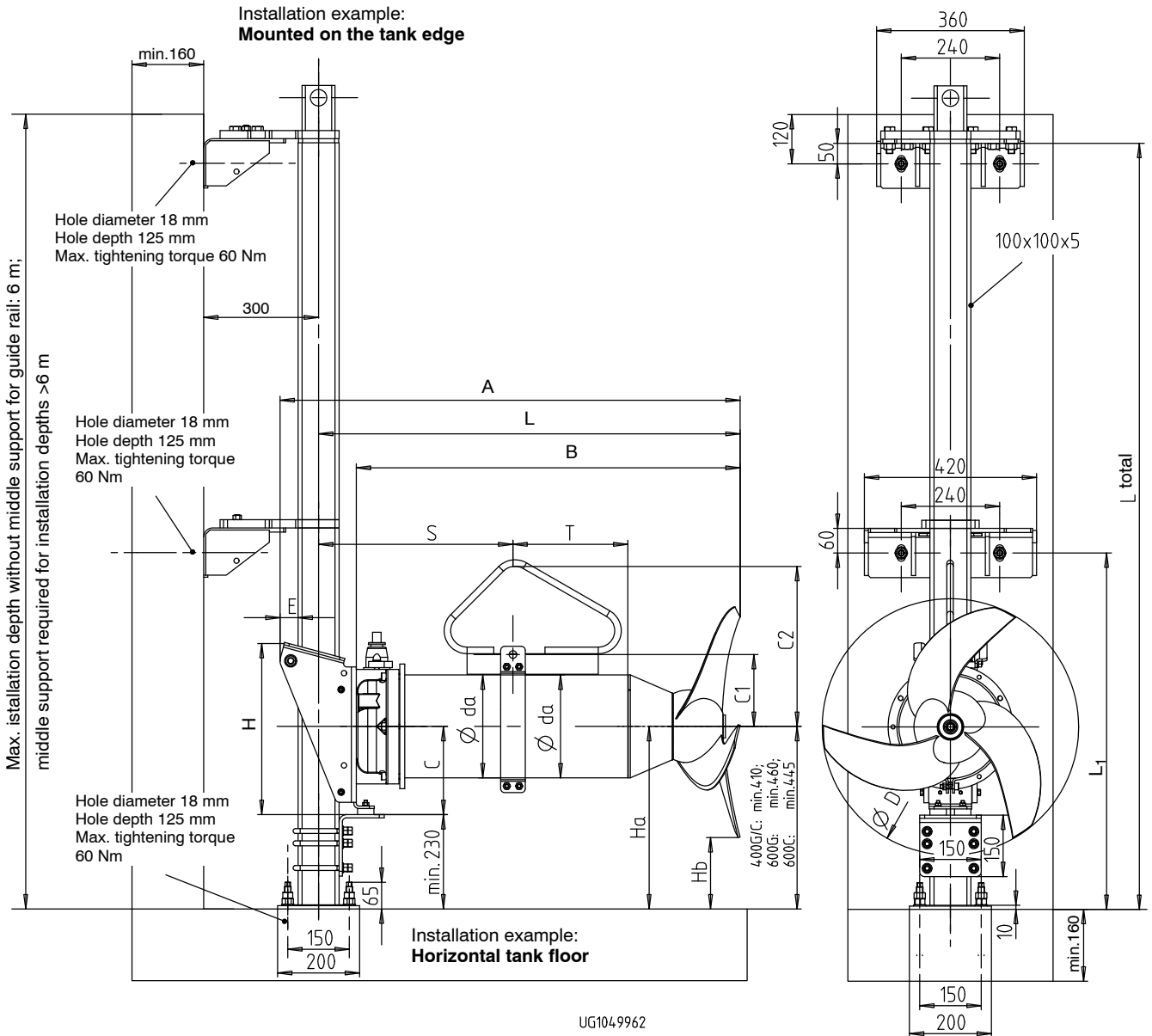
Item No.	Accessories	Description
<b>22 MIAS</b>	Middle support for square guide rail	For supporting the square guide rail 100 x 100 x 5 on the tank wall in case of installation depths $\geq 6$ m; with flexible shaped parts
	incl. 2 nos. of composite anchor bolts	Composite anchor bolts for mounting the middle support on the tank wall; Concrete grade at least B25.

Item No.	Description	for size	Material	Material No.	Weight [kg]
<b>22 MIAS</b>	Middle support for square guide rail 100 x 100 x 5; incl. 2 nos. of composite anchor bolts	Amamix 400/600	1.4301	01 313 462	19.26
			1.4571	01 313 463	19.26

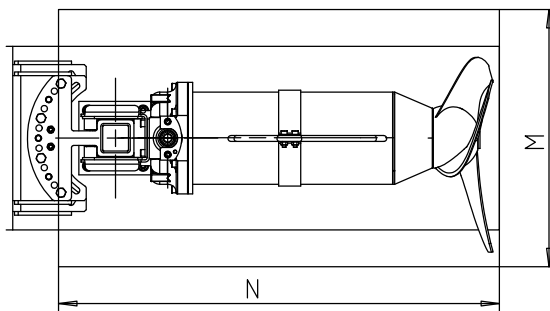
**Standard accessories 22 - Options**

**Middle support for 100 x 100 x 5 guide rail for greater installation depths**

Amamix 400, 600



Min. dimensions for installing the unit through cover opening



L1 should be located as closely above the mixer as possible, to ensure that the forces generated are safely transferred from the guide rail into the wall!

Dimensions see dimensions tables, pages 16-19/22-25

## Accessories 22 - Options

### Pitch adapter for Amamix 200, 300, 400, 600

The standard clamp (made of JL1040 in material variant G; 1.4571 in material variant C) - item 22 HT (see table on page 35/36 and 44/45) - does not allow an inclined mixer position relative to the guide rail axis.

For such duties (requiring an upward or downward inclination of the mixer jet) an adapter - item 22 ADP - is required. This adapter is fitted between the motor housing cover and the clamp. It enables the requisite inclination of the unit axis in increments of 10°, from 40° upwards to 40° downwards.

Exception:

- Amamix 600 C - max. upward and downward pitch of 30°, respectively
- Amamix 600 G - upward or downward pitch of 15° or 30° possible

Item No.	Description	for sizes	Material	Material No.	Weight [kg]
<b>22 ADP</b>	Pitch adapter	Amamix 200/300/400 G	1.4571	19 554 654	4.0
		Amamix 200/300/400 C			
		Amamix 400 G/C (only propeller 4135)	1.4571	19 554 656	9.0
		Amamix 600 C with motor 4 12			
		Amamix 600 C with motor 8 12	1.4571	19 554 655	9.0
Amamix 600 G					
		15°	JL 1040	01 137 874	13
		30°	JL 1040	01 137 876	20.8

Installation of the pitch adapter is shown on page 53.

- Note:**
- On the "C" variant, the adapter can be mounted on the standard clamp in 1.4571 without any problems.
  - On the "G" variant, the adapter cannot be mounted on the standard clamp for Amamix 200/300/400 in JL1040! In this case, the following clamps made of 1.4571 must be used instead of the standard clamp:
    - Amamix 200 and 300/400: Clamp Mat. No. 19 202 241
    - Amamix 400 (only propeller 4135): Clamp Mat. No. 19 202 242

On Amamix 600 G the pitch adapter (JL 1040) is designed as a wedge-shaped cast component fitted between the motor housing cover and the standard clamp (JL 1040) which allows only two pitch angles: 15° and 30°.

- Amamix 600: Clamp Mat. No. 01 142 642

Pitch adaptation between 0° and 40° in steps of 10° will change dimension L, compared to horizontal mixer installation (cf. dimensions tables, pages 12 to 19); also, the position of the supporting clamp (sling point for lifting and lowering the unit) will be changed.

When the mixer is pitched downwards (see page 55), it may not be possible to shift the supporting clamp towards the motor housing cover far enough to still allow smooth lifting and lowering of the mixer (approx. 5° inclination of the clamp).

In such cases, the suspension strap shown must be used (included in the adapter assembly), which provides the user with a suitable sling point. The requisite sling point is determined by the specified hole.

e.g.: **Unit V 222. / 1 4 UDG** → corresponds to the following data given in the table on page 55 (**downward** pitch)

- **V2 ... / 14 ...** → Column **Angle 20° "downward"**
- Column **Tu - 2.L\*** → suspension strap needed → suspend unit from the **2<sup>nd</sup> hole from the left.**

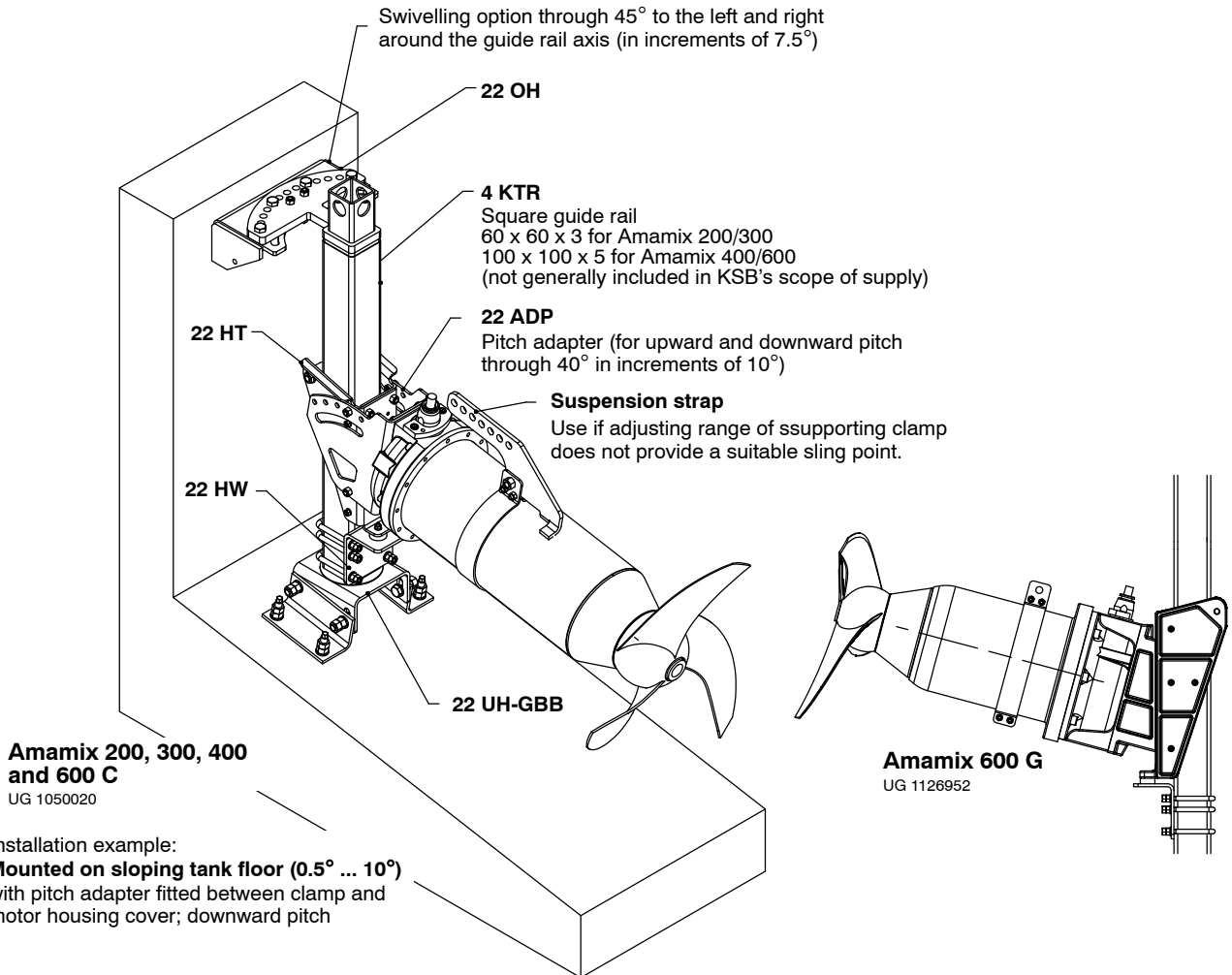
The electrical connection cable is to be fixed with the flexible tubing and cable connectors included in the supply, and is thus protected (a.o. against chafing).

The applicable dimensions according to pitch direction and angle are listed in the tables on the following pages:

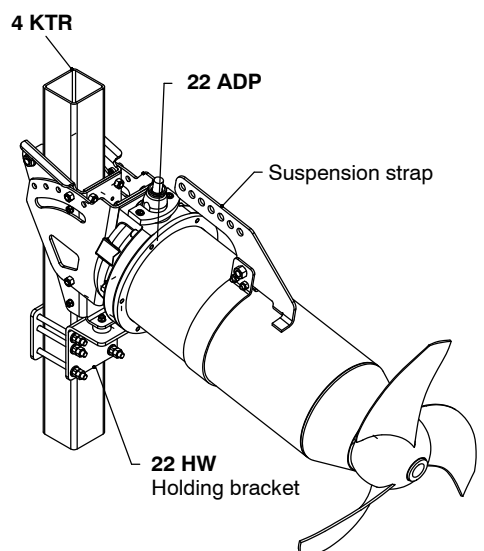
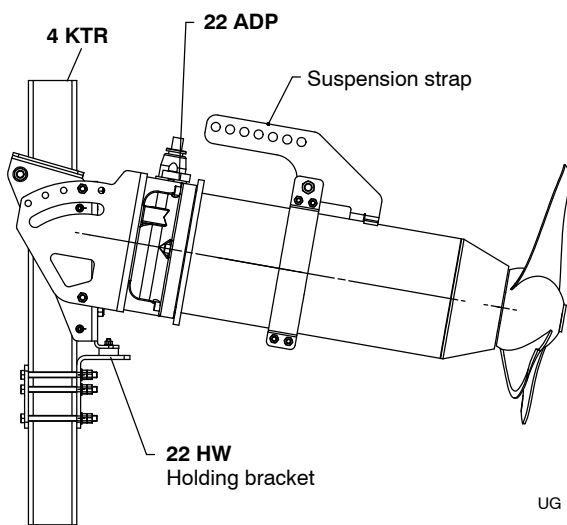
- Pitch adjusted in **upward** direction page 54
- Pitch adjusted in **downward** direction page 55

**Accessories 22 - Options**

**Pitch adapter for Amamix 200, 300, 400, 600**



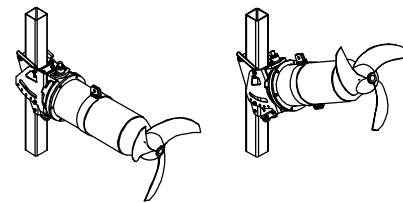
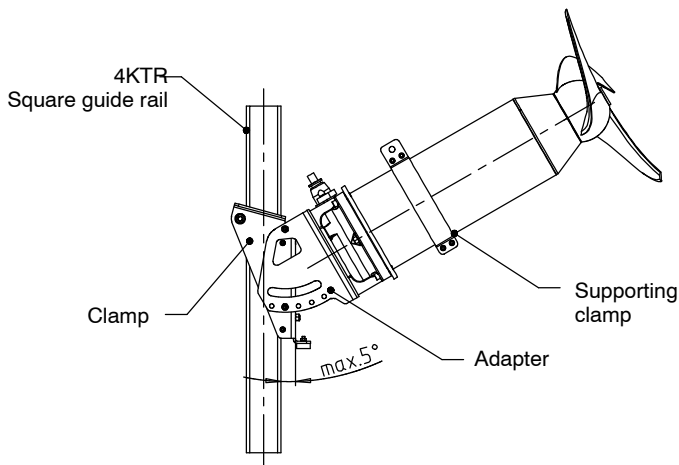
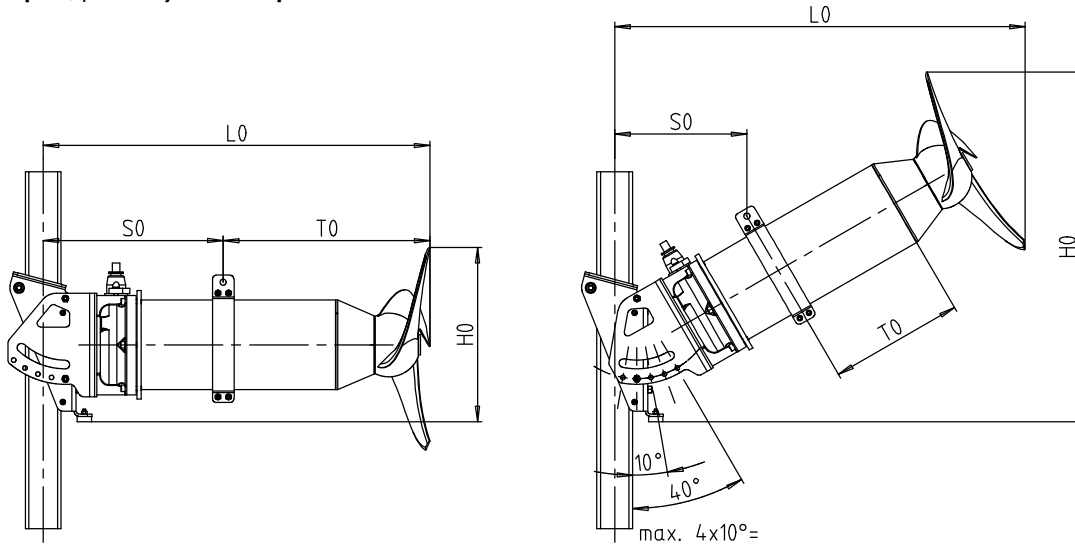
Installation example:  
**Mounted on sloping tank floor (0.5° ... 10°)**  
with pitch adapter fitted between clamp and motor housing cover; downward pitch



## Accessories 22 - Options

### Pitch adapter for Amamix 200, 300, 400, 600

Unit with adapter, pitch adjusted in upward direction



Dimensions not indicated here may be gathered from the dimension sheets of the relevant mixer size.

Suspend the mixer in the point of gravity or slightly to the left of it by shifting the supporting clamp. The angle between clamp and square rail must not exceed 5°.

When mounting the unit, lock all fastening studs of adapter and supporting clamp with a high-strength locking agent (e.g. Loctite 270).

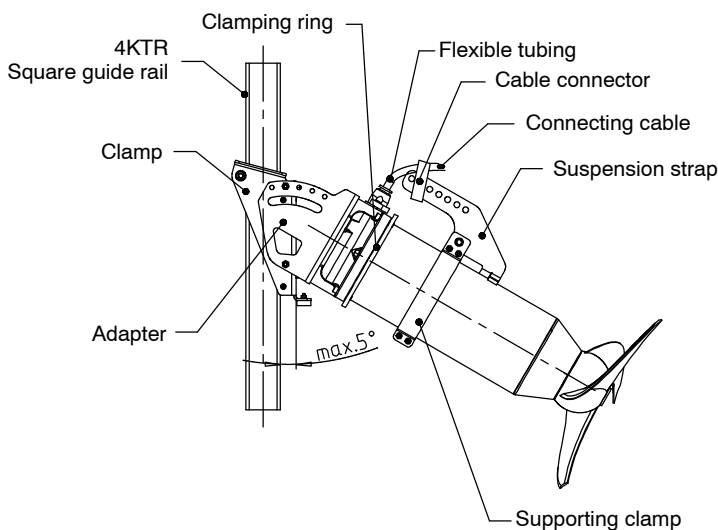
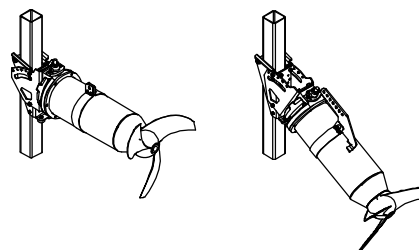
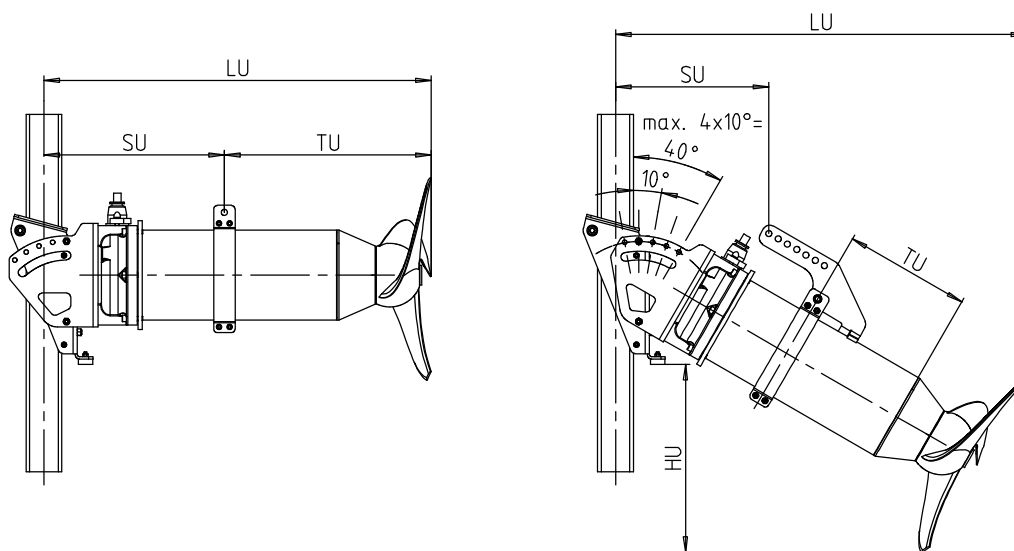
UG 1346802

Size		Pitch = 0°				Pitch = 10°				Pitch = 20°				Pitch = 30°				Pitch = 40°			
		Ho	Lo	So	To	Ho	Lo	So	To	Ho	Lo	So	To	Ho	Lo	So	To	Ho	Lo	So	To
		[mm]																			
V 2...	/ 1 4...	260	560	225	265	350	585	240	245	440	595	250	220	520	585	255	190	595	560	260	150
	/ 2 4...			230	260			245	240			255	215			260	185				
C 2...	/ 1 4...	270	560	230	230	360	585	250	210	450	595	255	190	530	590	260	165	600	565	260	135
	/ 2 4...			235	225			255	205			260	185			265	160				130
C 29.. / C 32..	/ 0 6...	313	709	275	255	470	744	295	230	570	759	315	200	655	754	315	170	735	729	305	140
	/ 2 6...																				
C 37.. / C 41..	/ 3 8...	385	858	340	310	630	898	360	285	740	918	380	250	845	913	290	210	935	883	390	160
	/ 4 8...																				
C 57.. / C 63..	/ 4 12...	530	1004	400	290	765	1074	425	260	890	1114	440	225	1000	1129	445	185	Pitch must not exceed 30°			
	/ 8 12...		1129	460	350	785	1194	485	320	930	1229	500	280	1060	1234	505	235				
Size		Pitch = 0°				Pitch = 15°				Pitch = 30°											
		Ho	Lo	So	To	Ho	Lo	So	To	Ho	Lo	So	To								
		[mm]																			
C 57.. / C 63..	/ 6 12...	545	946	393	280	800	1079	400	250	1050	1116	360	230								
	/ 10 12...																				

## Accessories 22 - Options

### Pitch adapter for Amamix 200, 300, 400, 600

Unit with adapter, pitch adjusted in downward direction



Dimensions not indicated here may be gathered from the dimension sheets of the relevant mixer size.

Suspend the mixer in the point of gravity or slightly to the left of it by shifting the supporting clamp. The angle between clamp and square rail must not exceed 5°.

If the maximum travel of the supporting clamp is not sufficient, mount the suspension strap. Protect the cable by running it through the flexible tubing and fix the cable to the suspension strap with the cable connectors.

When mounting the unit, lock all fastening studs of adapter and supporting clamp with a high-strength locking agent (e.g. Loctite 270).

UG 1346802

Size		Pitch = 0°				Pitch = 10°				Pitch = 20°				Pitch = 30°				Pitch = 40°			
		Hu	Lu	Su	Tu	Hu	Lu	Su	Tu	Hu	Lu	Su	Tu	Hu	Lu	Su	Tu	Hu	Lu	Su	Tu
		[mm]																			
V 2...	/ 1 4...	< 0	560	225	265	30	585	240	1.L*	120	595	250	2.L*	200	585	240	4.L*	275	560	230	6.L*
	/ 2 4...			230	260																
C 2...	/ 1 4...	< 0	560	230	230	40	585	250	245	130	595	250	2.L*	210	590	260	3.L*	280	565	245	5.L*
	/ 2 4...			235	225																
C 29.. / C 32..	/ 0 6...	13	709	275	255	150	744	285	280	245	759	285	305	335	754	285	2.L*	415	729	270	4.L*
	/ 2 6...																				
C 37.. / C 41..	/ 3 8...	25	858	340	310	165	898	345	340	275	918	355	1.L*	380	913	340	3.L*	470	883	330	5.L*
	/ 4 8...																				
C 57.. / C 63..	/ 4 12...	100	1004	400	290	305	1074	415	325	430	1114	420	360	540	1129	420	390	Pitch must not exceed 30°			
	/ 8 12...		1129	460	350	325	1194	475	385	470	1229	475	420	600	1234	470	455				

Size		Pitch = 0°				Pitch = 15°				Pitch = 30°			
		Hu	Lu	Su	Tu	Hu	Lu	Su	Tu	Hu	Lu	Su	Tu
		[mm]											
C 57.. / C 63..	/ 6 12...	85	946	393	280	350	950	700	300	486	1048	579	320
	/ 10 12...												

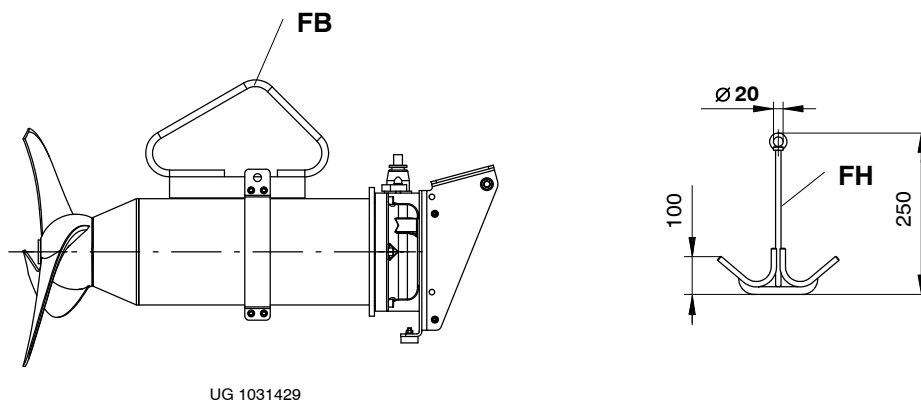
\*) see note page 52

**Standard accessories 4**
**Lifting equipment**

Amamix 200, 300, 400, 600

Lifting equipment	Lifting ropes	Rope tensioning device / bollard

Item No.	Accessories	Description
<b>SEIL 1.4401</b>	Lifting rope	Stainless steel, diam. 5 mm, 12 m / 18 m / 22 m long, made of 1.4401, for cranes of Haacon Company; rope is attached to the sling point on the mixer and can be fastened on the winch of the above cranes; when transportable cranes are used, the rope remains attached to the mixer after having been removed from the winch and is fastened to a rope tensioning device on the tank edge
<b>SP</b>	Rope tensioning device / bollard	For locking the lifting ropes, item No. SEIL 1.4401, of cranes (of Haacon Company) on the tank edge or railing
<b>SEIL PP</b>	Lifting rope	Lifting rope made of polypropylene synthetic fibres of excellent chemical resistance, with connecting loops at intervals of 1 m; available in fixed lengths of 5 m
<b>FH</b>	Lifting hook	For mounting on the lifting gear of the crane (lifting chain/rope) when using transportable cranes (e.g. if the crane used is different from the cranes supplied by KSB); to facilitate handling we recommend the combination of cranes of Haacon Company with the stainless steel lifting rope
<b>FB</b>	Lifting clamp	For mounting on the lifting lug

**Alternative:**
**Combination: Lifting clamp (FB) (on the mixer) / Lifting hook (FH) (on the lifting rope of the crane)**


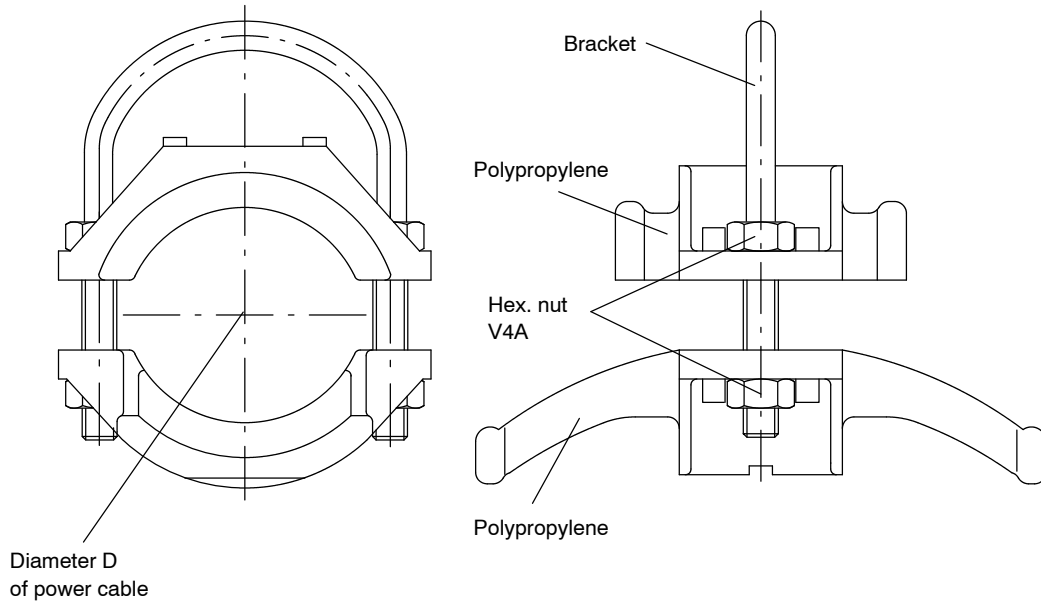
UG 1031429

**Standard accessories 4**
**Lifting equipment**
**Amamix 200, 300, 400, 600**

Item No.	Description	for size	Material	Material No.	Weight [kg]
<b>SEIL 1.4401</b>	Lifting rope for cranes of Haacon Company, remains attached to the mixer; can be used for transportable cranes	Amamix 200 ... 600	1.4401		
	∅ = 5 mm, L = 12 m			11 304 621	1.9
	∅ = 5 mm, L = 18 m			11 306 713	2.7
	∅ = 5 mm, L = 22 m			11 306 712	3.5
<b>SP</b>	Rope tensioning device / bollard for Haacon cranes	Amamix 200 ... 600	1.4571	19 554 260	1.5
<b>SEIL PP</b>	Lifting rope Load capacity 180 kg, 5 m	Select depending on unit weight	Polypropylene	11 185 207	2.0
	Lifting rope Load capacity 450 kg, 5 m		Polypropylene	11 190 024	5.0
For larger installation depths, several 5-metre ropes shall be used. Connection by rope loops					
<b>FH</b>	Lifting hook Load capacity max. 500 kg	Amamix 200 ... 600	1.4301	19 219 613	2.0
<b>FB</b>	Lifting clamp	Amamix 200	1.4571	19 219 830	1.1
		Amamix 300/400	1.4571	19 219 831	1.3
		Amamix 600	1.4571	19 219 832	1.8
<b>See type series booklet "KSB Lifting Equipment" 1596.5/...-EN!</b>					

**Other accessories: cable support (KH)**

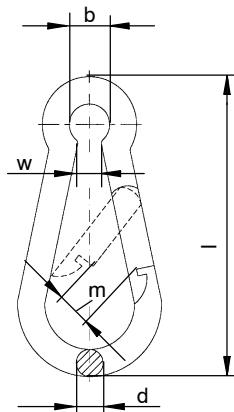
For supporting the power cable at the lifting rope or the tank edge



Variant	Diameter D [mm]	Art. No.	Material No.
01	17-25	25 NO 20 433	11 306 562
00	10-16	16 NO 20 433	11 306 561

Please refer to the power cable data given in the motor catalogue!

**Carbine hook**



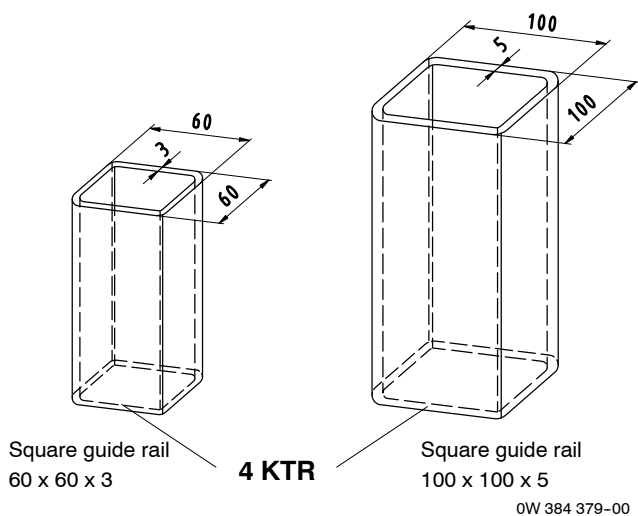
Variant	Size	Load capacity [kg]	[mm]					Weight per 100 pcs. approx. [kg]
			b	d	l	m	w	
00	60 x 6	150	9	6	60	9	5	2.7

Item No.	Description	for size	Material	Material No.	Weight [kg]
KH	Cable support / Cable clamp incl. carbine hook	for power cables 7 x 1.5 and 8 x 1.5	Synthetic material / A4; carbine hook A4	19 555 522	0.15
		for power cables 12 x 1.5 and 12 x 2.5; 7 x 4 + 5 x 1.5 and 7 x 6 + 5 x 1.5		19 555 523	0.20

## Guide rails

KSB supply or supplied by customer

For accessories 7 and 22



- Guide rails as per DIN 59411, packed in tubular foil
- Lengths >6m can be attained by adding guide rail extensions (3 metres and 6 metres long) at the site (welding and subsequent treatment to be performed at the site in accordance with applicable regulations)

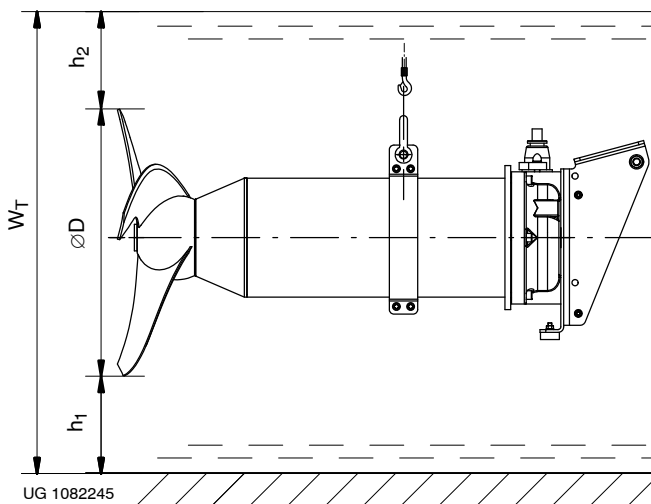
Item No.	Description	for size	Material	Material No.	Weight [kg]
<b>4 KTR</b>	Guide rail 60 x 60 x 3; length 1.5 m	Amamix 200/300/400	1.4301	11 307 851	7.85
			1.4571	11 307 852	7.85
	Guide rail 60 x 60 x 3; length 3 m	Amamix 200/300/400	1.4301	11 304 010	15.7
			1.4571	11 304 011	15.7
	Guide rail 60 x 60 x 3; length 6 m		1.4301	11 304 596	31.3
			1.4571	11 304 597	31.3
Guide rail 100 x 100 x 5; length 3 m	Amamix 400/600	1.4301	11 304 598	43.2	
		1.4571	11 304 599	43.2	
Guide rail 100 x 100 x 5; length 6 m		1.4301	11 304 600	86.4	
		1.4571	11 304 601	86.4	

## Minimum submergence and wall / floor clearance

**Recommended distance from the floor,  $h_1$ , and liquid level above the pump,  $h_2$ , for continuous operation**

The distance from vertical walls should also correspond to distance  $h_1$ . If there is more than one mixer, these must be installed at a minimum distance of  $\varnothing D$  from each other in consideration of the reflections of the water jet and the flow turbulence.

### Minimum submergence / filling level



$\varnothing D$ [mm]	$h_1$ min. [m]	$h_2$ min. [m]	$W_T$ min. [m]
200	0.11	0.50	0.82
300	0.15	0.80	1.25
400	0.20	0.85	1.45
600	0.30	1.00	1.90

With standard accessories 6 (floor mounting) for shallow tanks and ducts, the floor clearance  $h_1$  can be reduced to approx. 50 mm (pre-condition: solid floor / concrete / steel / plastics).

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Turmstr. 92  
06110 Halle/Saale  
Dept.: Competence Center Rührwerke

Fax: (+49) 345 4826 4695

Tel: (+49) 345 4826-0

From: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Project: \_\_\_\_\_

## Data required for mixer selection

**Mixing duty:** \_\_\_\_\_

**Process duty of tank:** \_\_\_\_\_

### Product to be mixed

Description: \_\_\_\_\_

Solids content: \_\_\_\_\_ %

Temperature: \_\_\_\_\_ °C

Density: \_\_\_\_\_ kg/m<sup>3</sup>

Viscosity: \_\_\_\_\_ m Pas

Loss on ignition: \_\_\_\_\_ %

Explosion protection: \_\_\_\_\_

### Flow behaviour

Newtonian  Intrinsically viscous  Thixotropic

Other: \_\_\_\_\_

### Type of thickening

Static  Mechanical

Centrifuge  Screening drum

Application of polymers:  yes  no

### Installation parts

Floor mounting (access. 6)  1.4301  1.4571

Pump sump (access. 7)  1.4301  1.4571

Tank (access. 22)  1.4301  1.4571

Guide rail (access. 7 and 22)  1.4301  1.4571

### Comment:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Hoisting device (crane)

Material:  St galv.  1.4301  Alu

### Aeration

Type of aeration:  None

Pipe diffusers  Disc diffusers  Jet aerator

Surface rotor  Plates

Air supply: \_\_\_\_\_ m<sup>3</sup> N/h

### Tank/reservoir

#### Material

Concrete  Steel  Stainless steel

Synthetic material  Steel, enamelled

#### Coating

**Design**  Covered  Open

#### Tank geometry

Round  Ring channel  Square

Rectangular  Channel

Other: \_\_\_\_\_

#### Dimensions

Length: \_\_\_\_\_ m

Width: \_\_\_\_\_ m

Diameter: \_\_\_\_\_ m

Filling level: \_\_\_\_\_ m

Tank depth: \_\_\_\_\_ m

