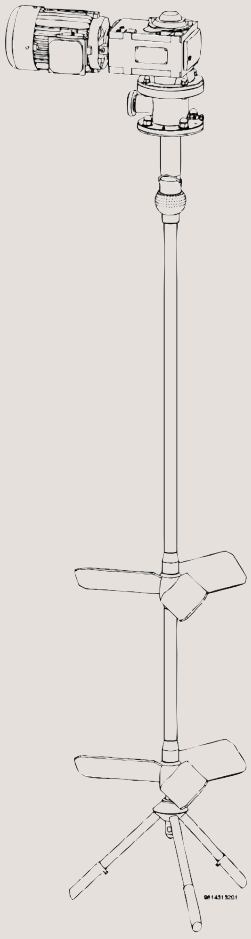
Spare Parts

ALTB-SB-20



ESE03066-EN4 2020-11

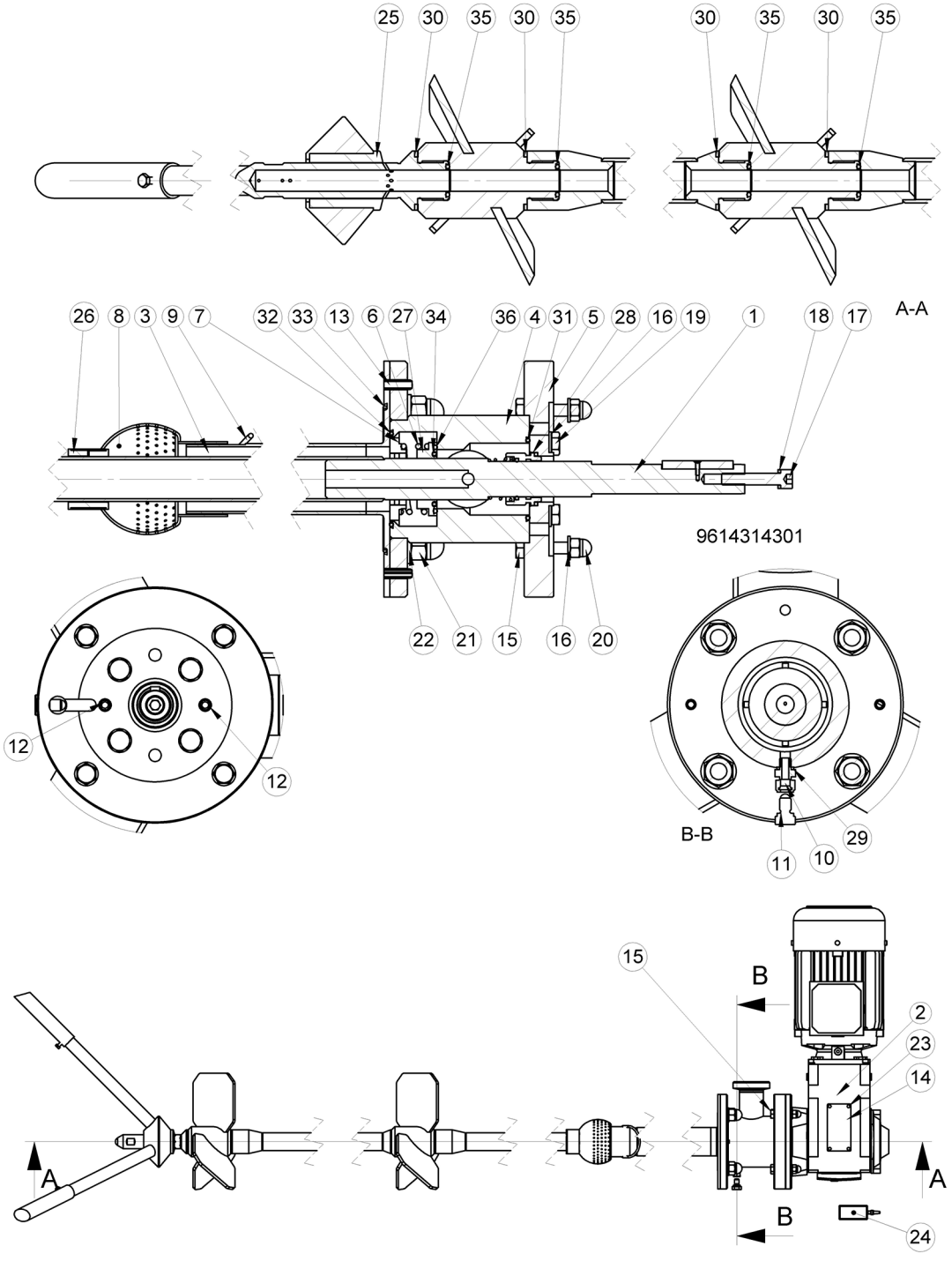
Original manual

Table of contents

The information herein is correct at the time of issue but may be subject to change without prior notice

1. ALTB-SB-20-AE (with aeration) 4
2. ALTB-SB-20-AE (without aeration) 6
3. ALTB-SB-20-(AE) (with and without aeration) 8
4. Mounting tools 24

Drawing (item number 9614313201)

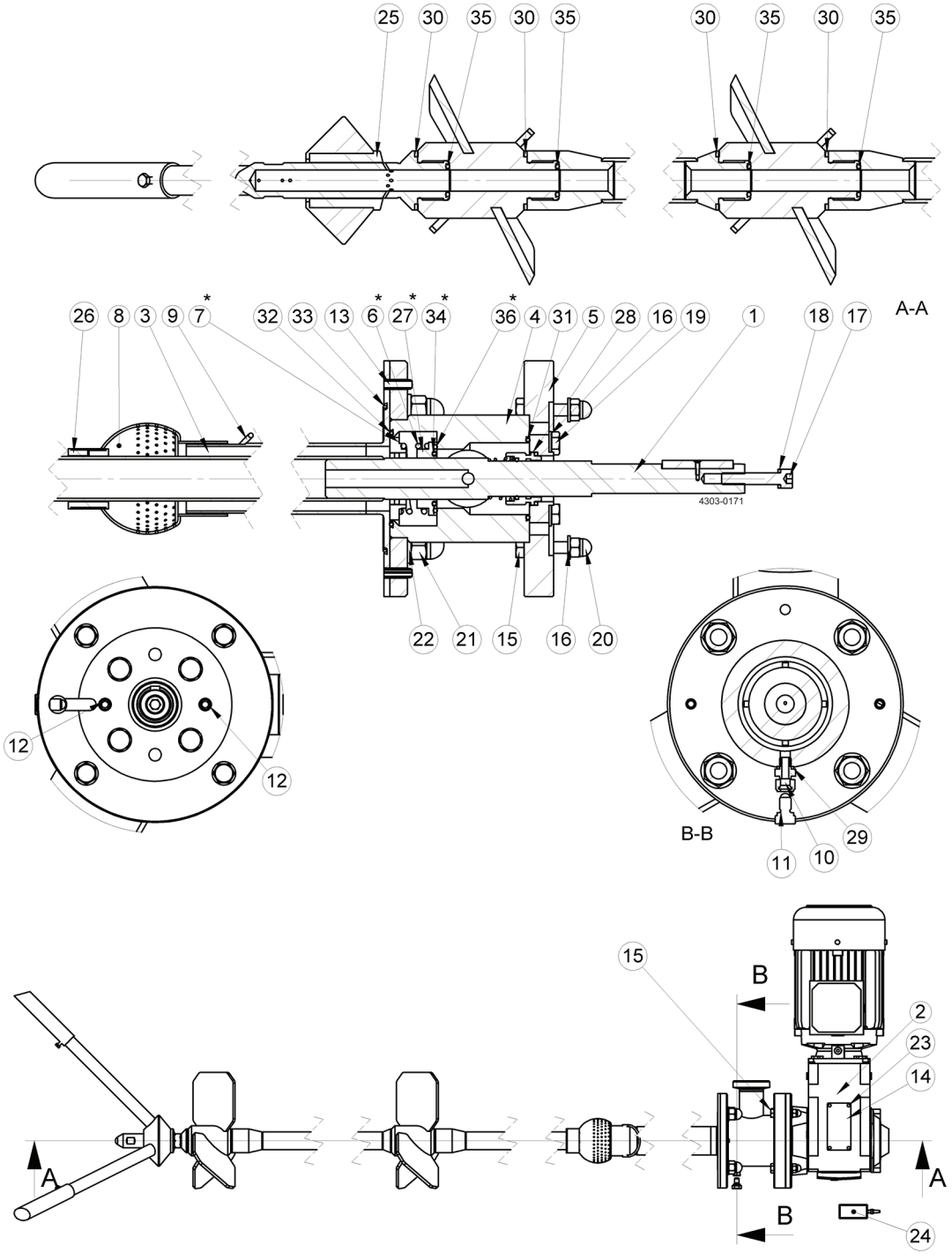


Pos		Qty	Denomination	Item no.	Drawing no.	Materials
Part list (item number 9614313201):						
1		1	Shaft, Propeller and Bottom console, type 20	See table on drawing*	96143142	See assembly
2		1	Gearmotor for type 20	See table on drawing*	96143133	NA
3		1	Tube, CIP for spray ball	See table on drawing*	96143085	1,4404
4		1	Console for Agitator, Welded	9614307901	96143079	1,4404
5		1	Flange, Upper for Agitator	9614308301	96143083	1,4404
6		1	Pressure spring 1 bar	9614311401	96143114	1,431
7		1	Spring guide, Agitator type 20	9614309101	96143091	1,4404
8		1	Spray ball Ø94-2T, Ø63,5	9614309301	96143093	1,4404
9		1	Spring lock for spray ball	9614308901	96143089	1,4404
10		1	Union	9614312001	96143120	1,4401
11		1	Plug for 2" and 3" P.E	9614311201	96143112	1,4307/1,4301
12		2	Guide Pin	9614313502	96143135	A2
13		2	Guide Pin	9614313501	96143135	A2
14		1	Name plate	TE2601041560	4156	AISI 304L
15		4	Screw	TE2601000017	None	A2
16		8	Washer	TE2601000346	None	A2
17		1	Screw	TE2601000328	None	A2
18		1	Washer	TE2601000166	None	A2
19		4	Screw	TE2601000208	None	A2
20		4	Cap nut	TE2601000355	None	A2
21		4	Cap nut	TE2601000058	None	A2
22		4	Washer	TE2601000348	None	A2
23		4	Rivet	TE2601000202	None	A2
24	❑	1	Loctite 2701, 10 ml	9614314101	96143141	NA
25	❑	1	Bearing for bottom console	9614311001	96143110	PTFE AF 1022/Acoflon 809
26	❑	1	Spray ball bearing	9614309201	96143092	PVDF
27	❑	1	Aeration seal box	9614309001	96143090	PTFE AF 1111/Acoflon 802
28	❑	1	Mechanical seal	9614311301	96143113	EN 12756: GBEGG
29	❑	1	Gasket	9614311801	96143118	PA (Nylon)
30	❑	4	Gasket	9614311802	96143118	PTFE
31	❑	1	O-ring	9614312706	96143127	EPDM
32	❑	1	O-ring	9614312707	96143127	EPDM
33	❑	1	O-ring	9614312704	96143127	EPDM
34	❑	1	O-ring	9614312702	96143127	EPDM
35	❑	4	O-ring	9614312701	96143127	EPDM
36	❑	1	O-ring	9614312708	96143127	EPDM

* Not part of top level item number - item number must be selected on drawing
Item numbers marked ❑ are included in the Spare part kit

		Item no.
❑	**Spare part kit**	**9614313202**

Drawing (item number 9614311901):
As shown on “ALTB-SB-20-AE with aeration” but without part no: 6*, 7*, 27*, 34* and 36*

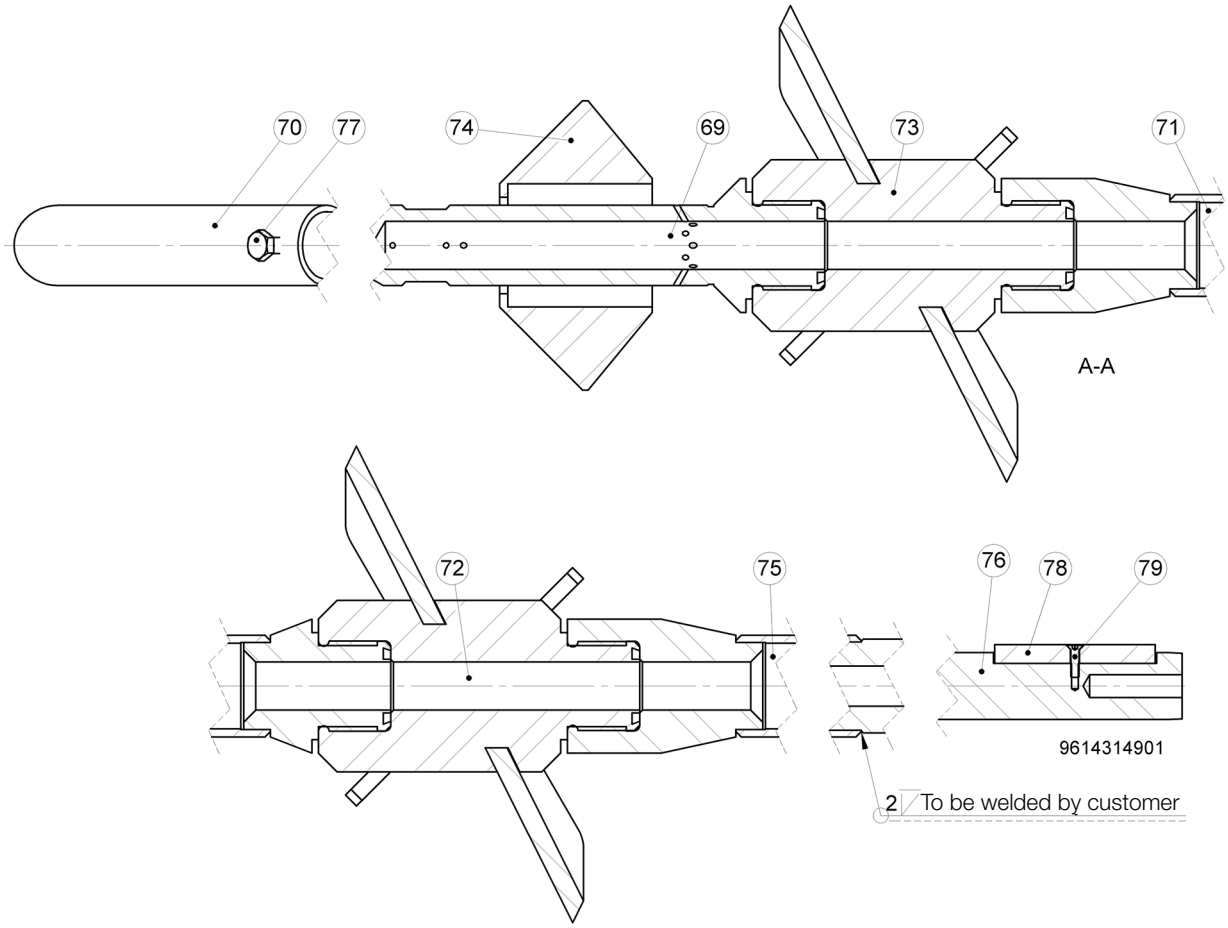


Pos		Qty	Denomination	Item no.	Drawing no.	Materials
Part list (item number 9614311901):						
1		1	Shaft, Propeller and Bottom console, type 20	See table on drawing*	96143142	See assembly
2		1	Gearmotor for type 20	See table on drawing*	96143133	NA
3		1	Tube, CIP for spray ball	See table on drawing*	96143085	1,4404
4		1	Console for Agitator, Welded	9614307901	96143079	1,4404
5		1	Flange, Upper for Agitator	9614308301	96143083	1,4404
8		1	Spray ball Ø94-2T, Ø63,5	9614309301	96143093	1,4404
9		1	Spring lock for spray ball	9614308901	96143089	1,4404
10		1	Union	9614312001	96143120	1,4401
11		1	Plug for 2" and 3" P.E	9614311201	96143112	1,4307/1,4301
12		2	Guide Pin	9614313502	96143135	A2
13		2	Guide Pin	9614313501	96143135	A2
14		1	Name plate	TE2601041560	4156	AISI 304L
15		4	Screw	TE2601000017	None	A2
16		8	Washer	TE2601000346	None	A2
17		1	Screw	TE2601000328	None	A2
18		1	Washer	TE2601000166	None	A2
19		4	Screw	TE2601000208	None	A2
20		4	Cap nut	TE2601000355	None	A2
21		4	Cap nut	TE2601000058	None	A2
22		4	Washer	TE2601000348	None	A2
23		4	Rivet	TE2601000202	None	A2
24	□	1	Loctite 2701, 10 ml	9614314101	96143141	NA
25	□	1	Bearing for bottom console	9614311001	96143110	PTFE AF 1022/Acoflon 809
26	□	1	Spray ball bearing	9614309201	96143092	PVDF
28	□	1	Mechanical seal	9614311301	96143113	EN 12756: GBEGG
29	□	1	Gasket	9614311801	96143118	PA (Nylon)
30	□	4	Gasket	9614311802	96143118	PTFE
31	□	1	O-ring	9614312706	96143127	EPDM
32	□	1	O-ring	9614312707	96143127	EPDM
33	□	1	O-ring	9614312704	96143127	EPDM
35	□	4	O-ring	9614312701	96143127	EPDM

* Not part of top level item number - item number must be selected on drawing
Item numbers marked ❑ are included in the Spare part kit

		Item no.
□	**Spare part kit**	**9614311902**

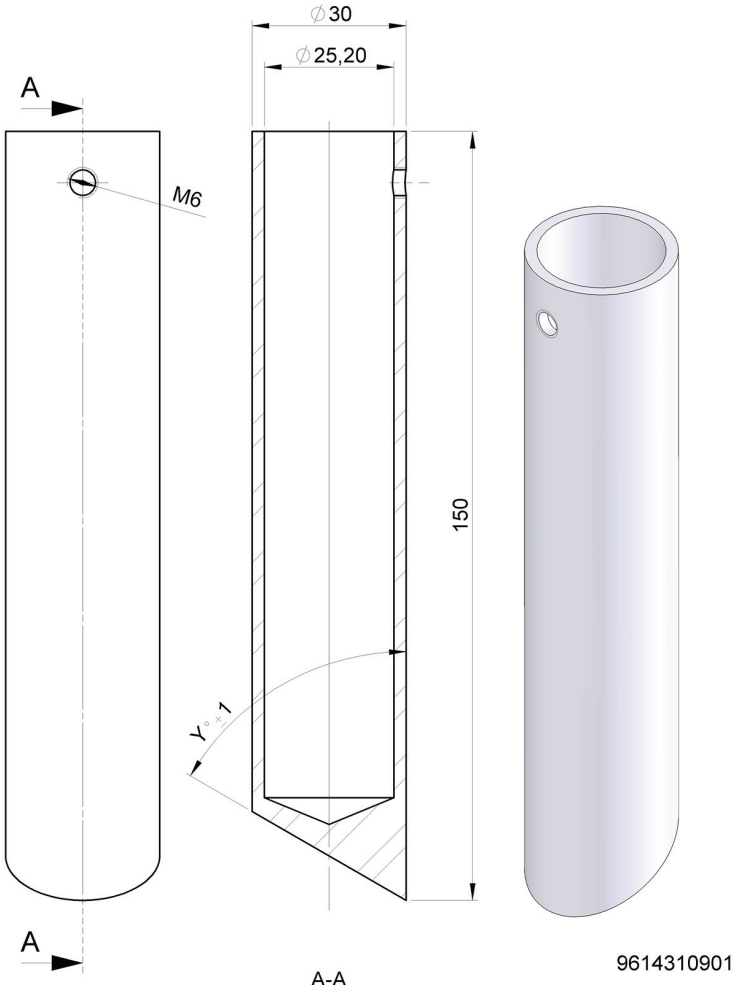
Shaft, Propeller and Bottom console assembly, Drawing (Item number 9614314201):



Pos	Qty	Denomination	Item no.	Drawing no.	Material
Shaft, Propeller and Bottom console assembly, Part List (Item number 9614314201):					
69	1	Guide spindle for bearing	9614311101	96143111	1,4404
70	3	Adjustable leg for bottom console	See table on drawing*	96143109	1,4404
71	1	Agitator shaft, Welded	See table on drawing*	96143097	1,4404
72	1	Propeller for agitator	See table on drawing*	96143103	1,4404
73	1	Propeller for agitator	See table on drawing*	96143103	1,4404
74	1	Bottom console for agitator	See table on drawing*	96143106	1,4404
75	1	Agitator shaft, Welded	See table on drawing*	96143101	1,4404
76	1	Shaft, Upper for Agitator	9614308401	96143084	1,4404
77	3	Screw	TE2601000098	None	A2
78	1	Parallel Key	9614313401	96143134	1.4307/1.4301
79	1	Screw	TE2601000537	None	A2

* Not part of top level item number - item number must be selected on drawing

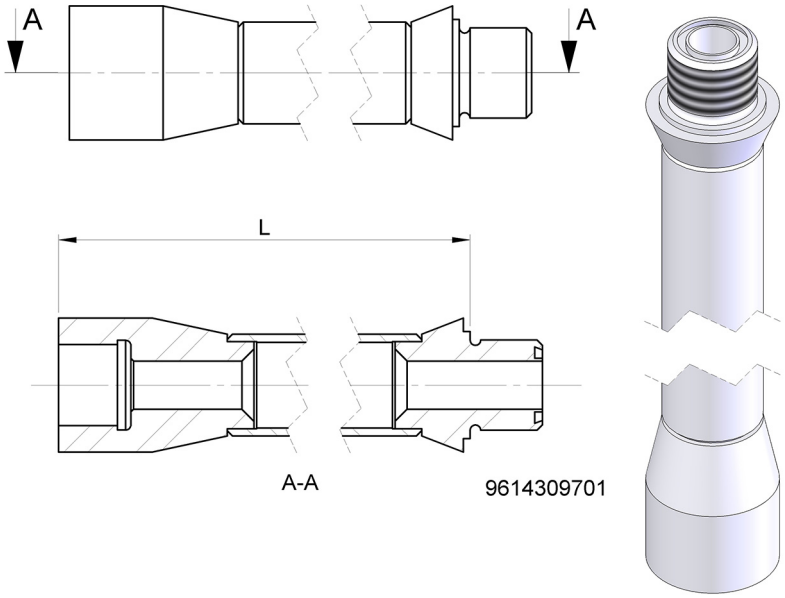
Adjustable leg for bottom console, Drawing (Drawing number 9614324109):



Adjustable leg for bottom console, Variants (Drawing number 9614324109):

Item No.	Drawing No.	Y / [°]
9614310901	96143109	90,0
9614310902	96143109	87,5
9614310903	96143109	85,0
9614310904	96143109	82,5
9614310905	96143109	80,0
9614310906	96143109	77,5
9614310907	96143109	75,0
9614310908	96143109	72,5
9614310909	96143109	70,0
9614310910	96143109	67,5
9614310911	96143109	65,0
9614310912	96143109	62,5
9614310913	96143109	60,0

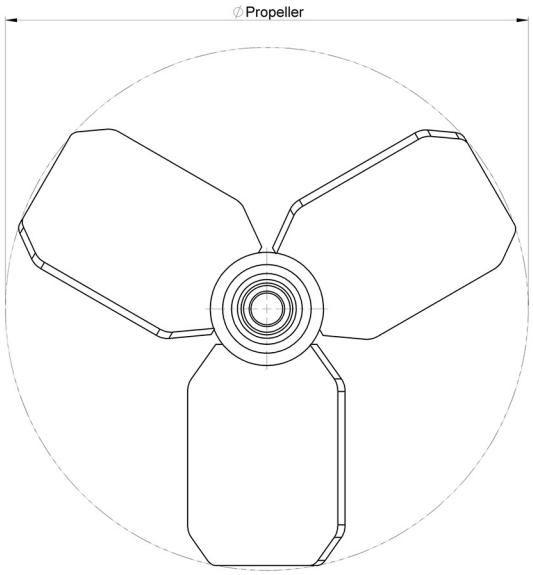
Agitator shaft, welded, Drawing (Drawing number 96143097):

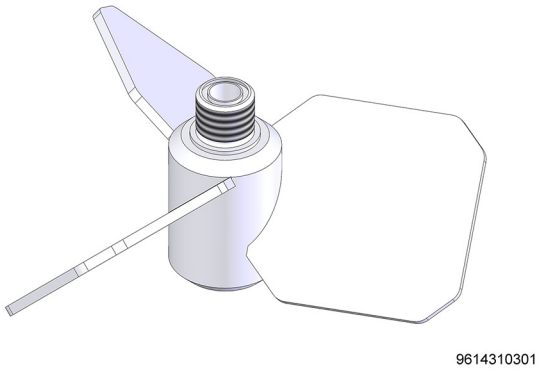


Agitator shaft, welded, Variants (Drawing number 96143097):

Item No.	Drawing No.	L / [mm]
9614309701	96143097	500
9614309702	96143097	600
9614309703	96143097	700
9614309704	96143097	800
9614309705	96143097	900
9614309706	96143097	1000
9614309707	96143097	1100
9614309708	96143097	1200
9614309709	96143097	1300
9614309710	96143097	1400
9614309711	96143097	1500
9614309712	96143097	1600
9614309713	96143097	1700
9614309714	96143097	1800
9614309715	96143097	1900
9614309716	96143097	2000
9614309717	96143097	2100
9614309718	96143097	2200
9614309719	96143097	2300
9614309720	96143097	2400
9614309721	96143097	2500

Propeller, Drawing (Drawing number 96143103):

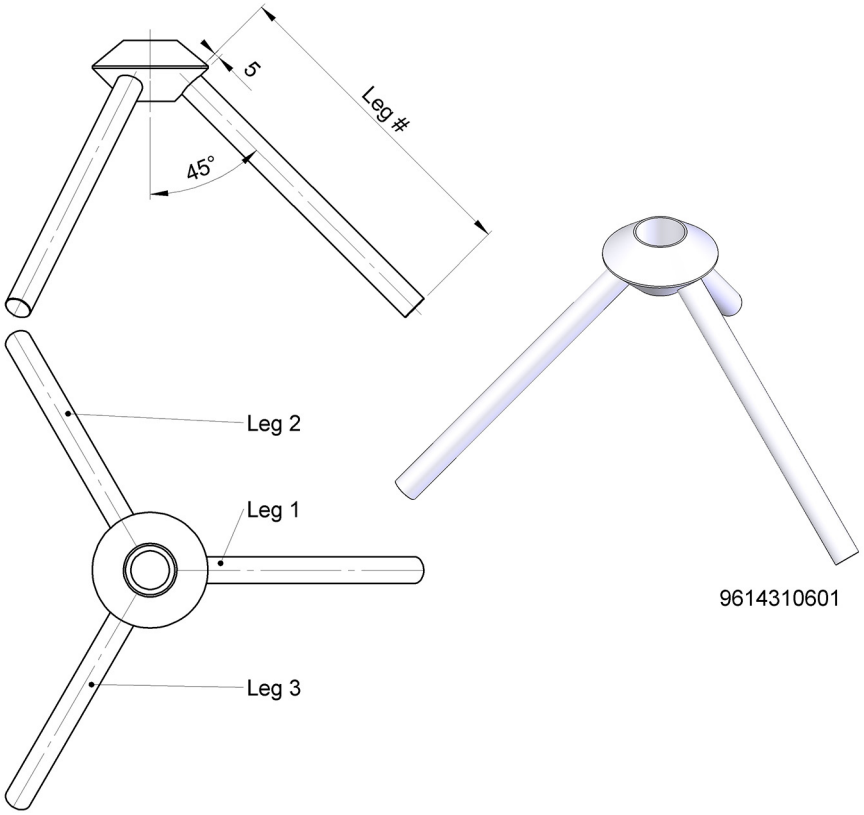




Propeller, Variants (Drawing number 96143103):

Item No.	Drawing No.	ØPropeller / [mm]
9614310301	96143103	296
9614310302	96143103	345
9614310303	96143103	394
9614310304	96143103	444
9614310305	96143103	493
9614310306	96143103	543
9614310307	96143103	593
9614310308	96143103	643
9614310309	96143103	692
9614310310	96143103	742
9614310311	96143103	792
9614310312	96143103	842
9614310313	96143103	892
9614310314	96143103	942
9614310315	96143103	992
9614310316	96143103	1042

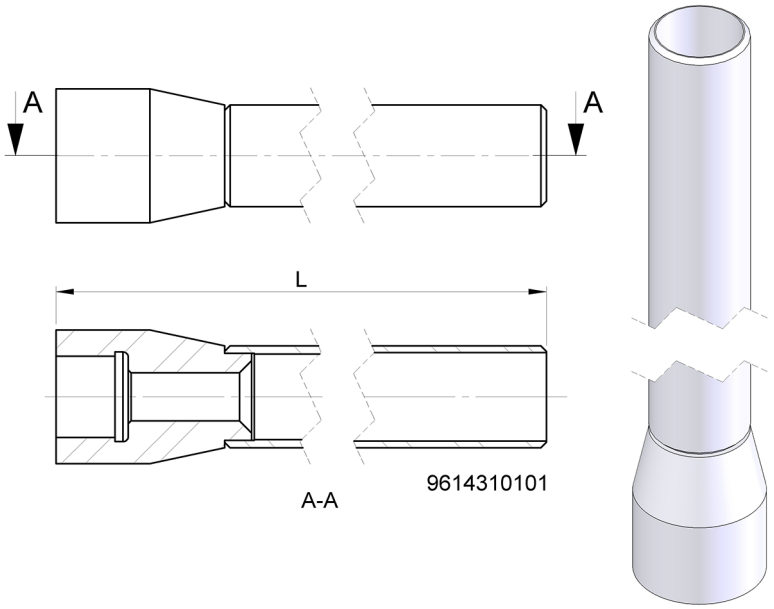
Bottom Console for Agitator, Drawing (Drawing number 96143106):



Bottom Console for Agitator, Variants (Drawing number 96143106):

Item No.	Drawing No.	Leg 1 (mm)	Leg 2 (mm)	Leg 3 (mm)	Item No.	Drawing No.	Leg 1 (mm)	Leg 2 (mm)	Leg 3 (mm)
9614310601	96143106	200	200	200	9614310642	96143106	700	700	600
9614310602	96143106	300	300	200	9614310643	96143106	800	800	600
9614310603	96143106	400	400	200	9614310644	96143106	900	900	600
9614310604	96143106	500	500	200	9614310645	96143106	1000	1000	600
9614310605	96143106	600	600	200	9614310646	96143106	200	200	700
9614310606	96143106	700	700	200	9614310647	96143106	300	300	700
9614310607	96143106	800	800	200	9614310648	96143106	400	400	700
9614310608	96143106	900	900	200	9614310649	96143106	500	500	700
9614310609	96143106	1000	1000	200	9614310650	96143106	600	600	700
9614310610	96143106	200	200	300	9614310651	96143106	700	700	700
9614310611	96143106	300	300	300	9614310652	96143106	800	800	700
9614310612	96143106	400	400	300	9614310653	96143106	900	900	700
9614310613	96143106	500	500	300	9614310654	96143106	1000	1000	700
9614310614	96143106	600	600	300	9614310655	96143106	200	200	800
9614310615	96143106	700	700	300	9614310656	96143106	300	300	800
9614310616	96143106	800	800	300	9614310657	96143106	400	400	800
9614310617	96143106	900	900	300	9614310658	96143106	500	500	800
9614310618	96143106	1000	1000	300	9614310659	96143106	600	600	800
9614310619	96143106	200	200	400	9614310660	96143106	700	700	800
9614310620	96143106	300	300	400	9614310661	96143106	800	800	800
9614310621	96143106	400	400	400	9614310662	96143106	900	900	800
9614310622	96143106	500	500	400	9614310663	96143106	1000	1000	800
9614310623	96143106	600	600	400	9614310664	96143106	200	200	900
9614310624	96143106	700	700	400	9614310665	96143106	300	300	900
9614310625	96143106	800	800	400	9614310666	96143106	400	400	900
9614310626	96143106	900	900	400	9614310667	96143106	500	500	900
9614310627	96143106	1000	1000	400	9614310668	96143106	600	600	900
9614310628	96143106	200	200	500	9614310669	96143106	700	700	900
9614310629	96143106	300	300	500	9614310670	96143106	800	800	900
9614310630	96143106	400	400	500	9614310671	96143106	900	900	900
9614310631	96143106	500	500	500	9614310672	96143106	1000	1000	900
9614310632	96143106	600	600	500	9614310673	96143106	200	200	1000
9614310633	96143106	700	700	500	9614310674	96143106	300	300	1000
9614310634	96143106	800	800	500	9614310675	96143106	400	400	1000
9614310635	96143106	900	900	500	9614310676	96143106	500	500	1000
9614310636	96143106	1000	1000	500	9614310677	96143106	600	600	1000
9614310637	96143106	200	200	600	9614310678	96143106	700	700	1000
9614310638	96143106	300	300	600	9614310679	96143106	800	800	1000
9614310639	96143106	400	400	600	9614310680	96143106	900	900	1000
9614310640	96143106	500	500	600	9614310681	96143106	1000	1000	1000
9614310641	96143106	600	600	600					

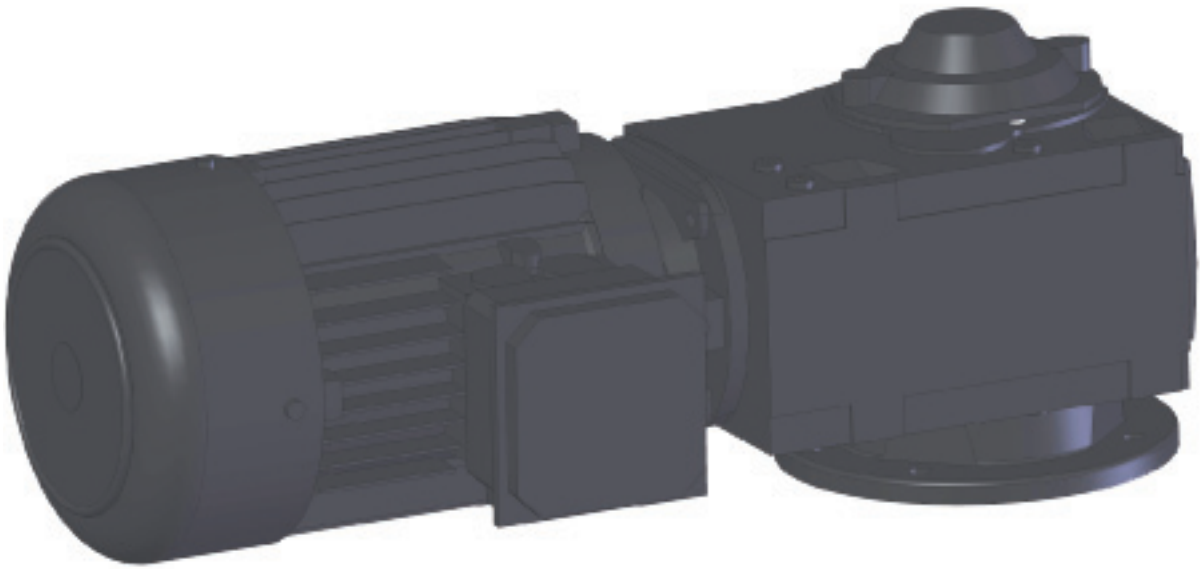
Agitator shaft, welded, Drawing (Drawing number 96143101):



Agitator shaft, welded, Variants (Drawing number 96143101):

Item No.	Drawing No.	L / [mm]	Item No.	Drawing No.	L / [mm]
9614310101	96143101	500	9614310119	96143101	2300
9614310102	96143101	600	9614310120	96143101	2400
9614310103	96143101	700	9614310121	96143101	2500
9614310104	96143101	800	9614310122	96143101	2600
9614310105	96143101	900	9614310123	96143101	2700
9614310106	96143101	1000	9614310124	96143101	2800
9614310107	96143101	1100	9614310125	96143101	2900
9614310108	96143101	1200	9614310126	96143101	3000
9614310109	96143101	1300	9614310127	96143101	3100
9614310110	96143101	1400	9614310128	96143101	3200
9614310111	96143101	1500	9614310129	96143101	3300
9614310112	96143101	1600	9614310130	96143101	3400
9614310113	96143101	1700	9614310131	96143101	3500
9614310114	96143101	1800	9614310132	96143101	3600
9614310115	96143101	1900	9614310133	96143101	3700
9614310116	96143101	2000	9614310134	96143101	3800
9614310117	96143101	2100	9614310135	96143101	3900
9614310118	96143101	2200	9614310136	96143101	4000

Gear motor, Variants (Drawing number 96143133):

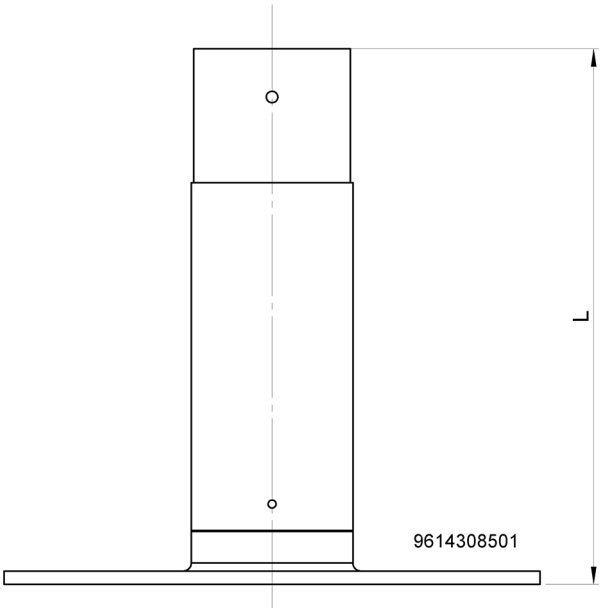


Gear motor specification:

Type:	High efficient Helical Bevel
Shaft material:	1,4057
Motor temperature Protection:	PTC resistor, 3x155°C
Motor backstop:	Yes
Lubrication type*:	Food-compatible oil ISI VG 220
Lubrication supplier*:	Klüber
Lubrication classification*:	CLP PG H1 220
Lubrication quantity:	1,2 ltr
Surface color:	RAL 5010
Surface treatment:	Pain coat 3,0, 110-150 µm
Surface corrosion class:	EN 12944, C2
Labelling:	CE and CEL

**For more information and certificate see 8.4 of ALTB-SB-20 Instruction Manual.*
Please contact Alfa Laval if a new gear motor is required. In this way it is ensured that the new gear motor fulfils all local legislation.

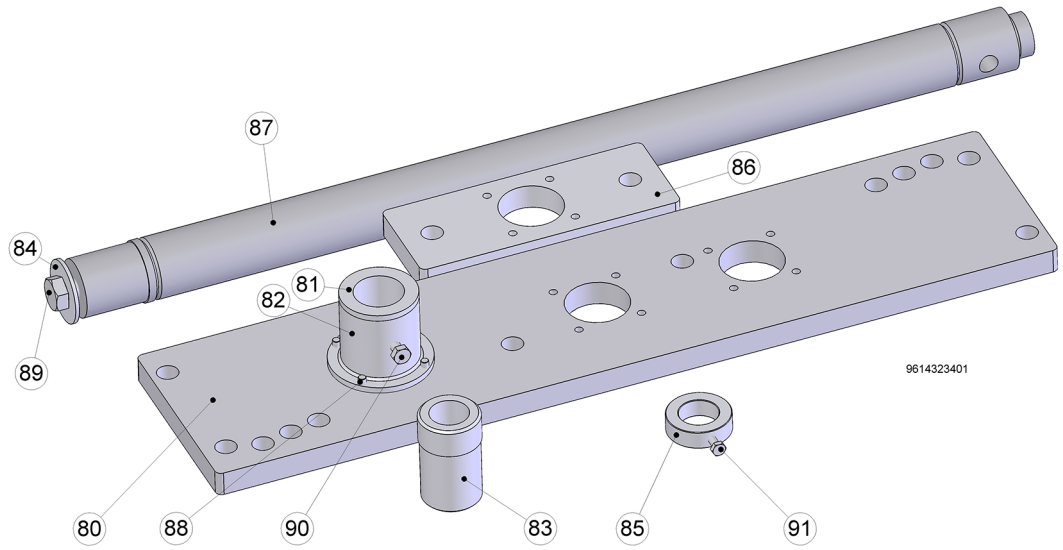
Tube, CIP for spray ball, Drawing (Drawing number 96143085):



Tube, CIP for spray ball, Variants (Drawing number 96143085):

Item No.	Drawing No.	L / [mm]
9614308501	96143085	200
9614308502	96143085	300
9614308503	96143085	400
9614308504	96143085	500

Mounting Tool, Drawing (Drawing number 96143115):



The mounting tool must be used for correct installation of ALTB-SB-20 (the same tool can also be used for ALTB-SB-30). The tool is able to be used on top flanges / welding flanges with M16 screws (the holes are Ø17mm) positioned with the following bolt circles:

- 16 holes in: Ø500 mm, Ø550 mm, Ø600 mm
- 20 holes in: Ø600 mm, Ø650 mm, Ø660 mm

Pos	Qty	Denomination	Item no.	Drawing no.	Materials
Mounting Tool, Parts List (Item number 9614311501):					
80	1	Tool - Guide plate	9614312401	96143124	Aluminium 6061 Alloy
81	1	Tool - Top Guide type 20	9614312201	96143122	Aluminium 6061 Alloy
82	1	Tool - Top Guide type 30	9614312301	96143123	Aluminium 6061 Alloy
83	1	Tool - Bushing	9614311601	96143116	Aluminium 6061 Alloy
84	1	Washer	9614310201	96143102	A2
85	1	Tool - Back stop	9614311701	96143117	Aluminium 6061 Alloy
86	1	Tool - Guide plate, small	9614312501	96143125	Aluminium 6061 Alloy
87	1	Tool - Mounting shaft welded	9614313101	96143131	Aluminium 6061 Alloy
88	4	Screw	2601000641	None	A2
89	1	Screw	2601000563	None	A2
90	1	Screw	2601000389	None	A2
91	1	Screw	2601000564	None	A2

How to contact Alfa Laval
Contact details for all countries are
continually updated on our website.
Please visit www.alfalaval.com to access the information directly.

© Alfa Laval Corporate AB
This document and its contents is owned by Alfa Laval Corporate AB and protected by laws governing intellectual property and thereto related rights. It is the responsibility of the user of this document to comply with all applicable intellectual property laws. Without limiting any rights related to this document, no part of this document may be copied, reproduced or transmitted in any form or by any means (electronic, mechanical, photocopying, recording, or otherwise), or for any purpose, without the expressed permission of Alfa Laval Corporate AB. Alfa Laval Corporate AB will enforce its rights related to this document to the fullest extent of the law, including the seeking of criminal prosecution.