Trommelmotoren / *Drummotors*

TM 100B25

KRAUTER®

ELEKTROMASCHINEN

0,05 bis 0,37 kW:

Trommeldurchmesser 100 mm

Standard-Trommelbreiten: 260 - 275 - 310 - 360 - 410 - 460 - 510 - 560 - 610 - 660 - 710 - 760 - 810 - 860 mm.

Bei elektromechanischer Bremse erhöht sich die minimale Stirnbreite um 75 mm. Das Gesamtgewicht eines Trommelmotors erhöht sich um ca. 1,6 kg pro 100 mm. Maximaler Riemenzug: 1300 N (Imax auf Anfrage oder auf dem Typenschild) Verfügbares Drehmoment: (Riemen N x Trommeldurchmesser m) / 2 Nm

Available standard facewidth's: 260 - 275 - 310 - 360 - 410 - 460 - 510 - 560 - 610 - 660 - 710 - 760 - 810 - 860 mm.

If electro-mechanical brake is fitted, the minimum facewidth increases by 75 mm. The total weight of a Drummotor grows approx. 1,6 kg per 100 mm. Maximum beltpull: 1300 N (Imax on request or on data plate) Available torque: (Beltpull N x drum diameter m) / 2 Nm

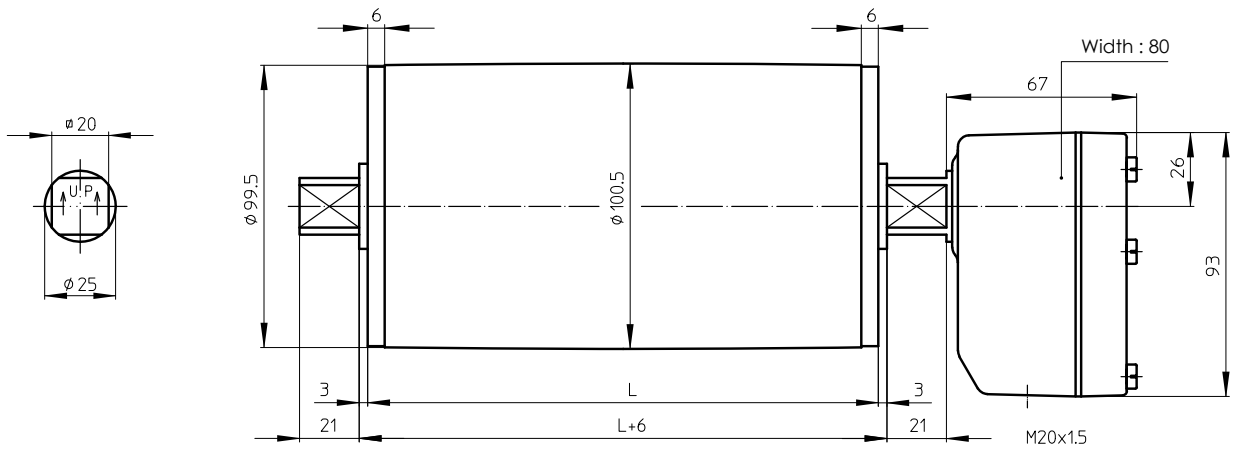
TYPE TM 100B25	Power kW	Beltspeed m/s at 50 Hz Beltpull N										Min. L mm Design B	Full load curr. 400 V - 50 Hz I = ... A	Weight kg L=350
205 Z	0,37	3,60 95	2,80 120	2,50 135	2,20 155	2,00 175	1,70 205					310	0,85	14
425 Z	0,18	1,80 95	1.40 120	1,25 135	1,10 155	1,00 170	0,85 200					310	0,60	14
425 PL2		0,75 220	0,70 235	0,65 250	0,55 300	0,50 330	0,40 415	0,36 460	0,30 550	0,24 690		310		
425 PL3		0,20 835	0,16 990	0,14 1130	0,12 1300							360		
416 Z	0,12	1,10 105	1,00 115	0,85 135								275	0,40	14
416 PL2		0,75 145	0,70 160	0,65 170	0,55 200	0,50 220	0,40 275	0,36 305	0,30 370	0,24 460		275		
416 PL3		0,20 530	0,16 660	0,14 755	0,12 880	0,10 1055	0,09 1175					310		
616 Z	0,12	1,25 90	1,10 105	0,90 125	0,80 145	0,70 165	0,60 190					310	0,50	14
616 PL2		0,50 220	0,40 275	0,36 305	0,30 370	0,26 425	0,19 580	0,15 735				310		
616 PL3		0,07 1300										360		
414 Z	0,10	1,10 85	1,00 95	0,85 110								260	0,40	14
414 PL2		0,75 125	0,70 130	0,65 140	0,55 165	0,50 185	0,40 230	0,36 255	0,30 305	0,24 385		260		
414 PL3		0,20 440	0,16 550	0,14 630	0,12 735	0,10 880	0,09 980	0,06 1300				310		
611 Z	0,08	0,80 95	0,70 110	0,60 125								260	0,40	14
611 PL2		0,50 145	0,40 185	0,36 205	0,30 245	0,26 285	0,19 385	0,15 490				260		
611 PL3		0,13 540	0,10 705	0,07 1005	0,06 1175							310		
811 PL2	0,08	0,22 335	0,17 435	0,14 525	0,11 670							310	0,55	14
811 PL3		0,09 780	0,05 1300									360		
807 PL3	0,05	0,07 630	0,06 735	0,05 880	0,04 1100	0,028 1300						360	0,40	14
807 PL4		0,022 1300	0,020 1300	0,019 1300	0,017 1300	0,014 1300	0,013 1300	0,012 1300	0,011 1300	0,009 1300	0,007 1300	410		

Stahl-Ausführung:

Abmessungen in Stahlausführung

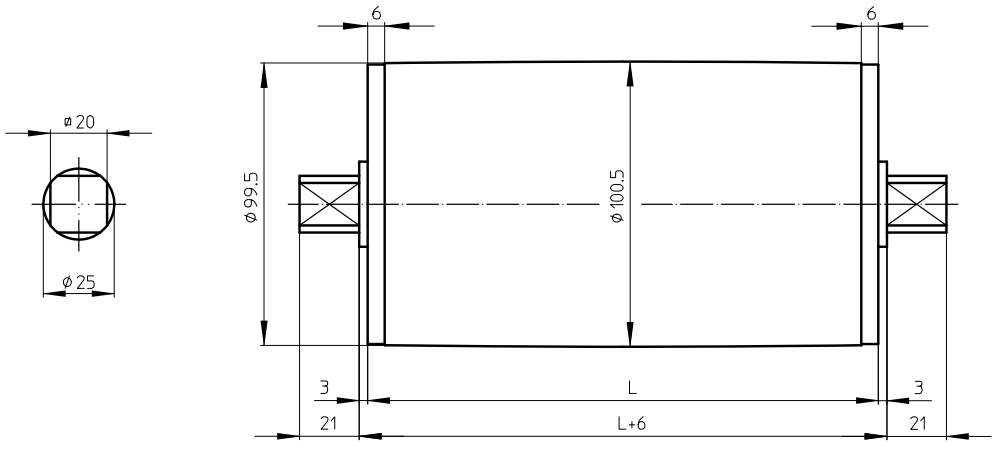
TM 100B25

TM 100B25, Trommelmotor aus Normal-Stahl mit Polyamid-Anschlussdose - *TM 100B25, mild steel Drummotor with polyamide junctionbox*



KT 100B25

KT 100B25, Taildrum aus Weichstahl - *KT 100B25, mild steel Taildrum*



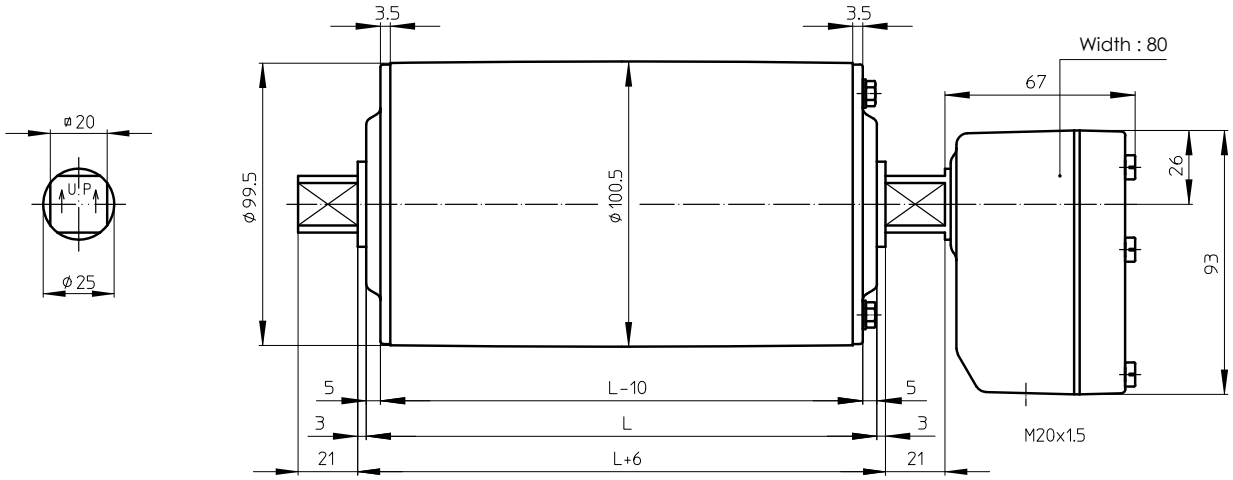
Edel-Stahl-Ausführung:

Abmessungen Edel-Stahl-Ausführung

TM 100B25 CR

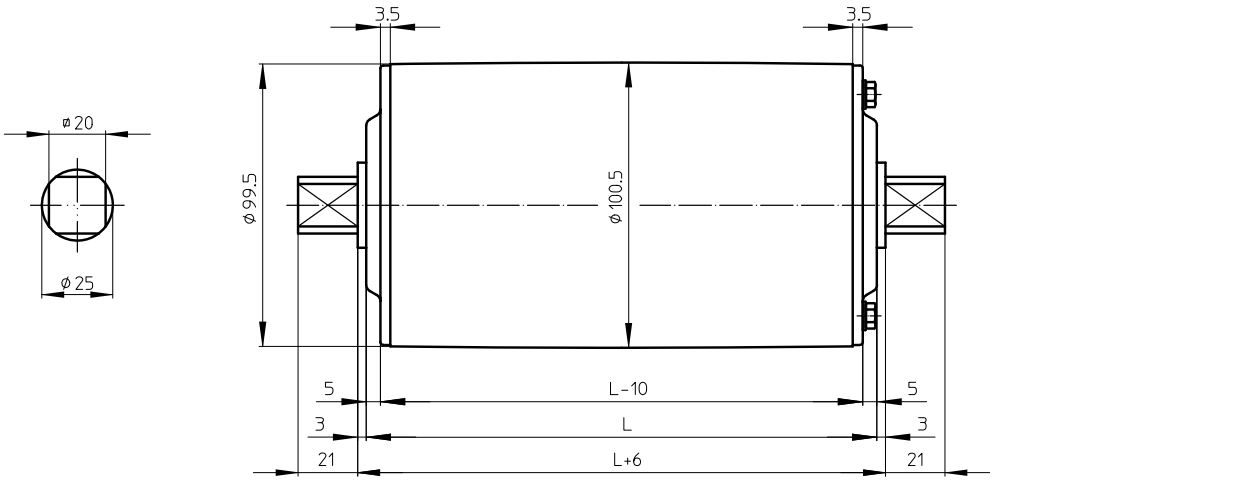
TM 100B25 CR, Trommelmotor aus Edelstahl mit Polyamid-Anschlussdose und CR-Dichtung

TM 100B25 CR, stainless steel Drummotor with polyamide junctionbox and CR sealing



KT 100B25 CR

KT 100B25 CR, Trommelmotor aus Edelstahl mit Polyamid-Anschlussdose und CR-Dichtung - *KT 100B25 CR, stainless steel Taildrum with CR sealing*

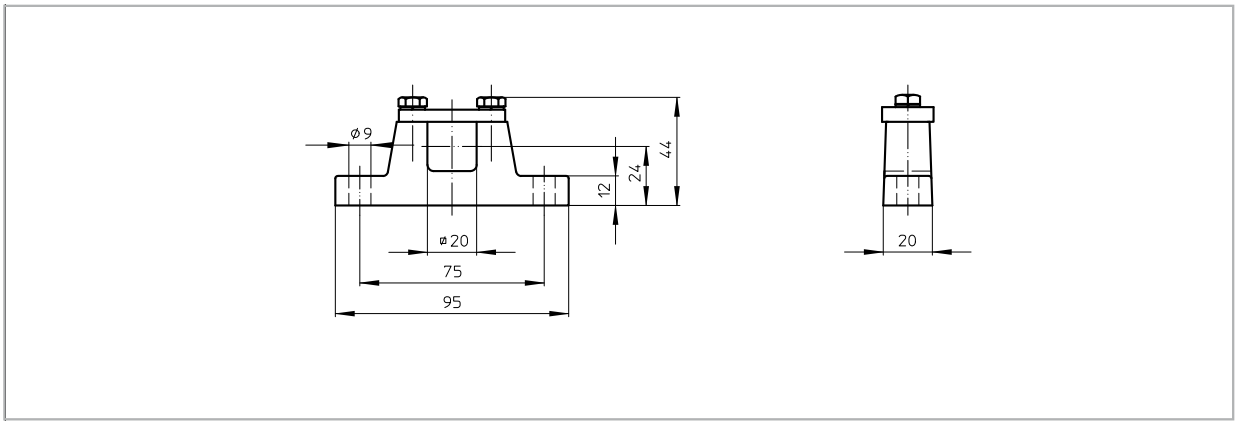


Details:

Abmessungen Halterung & Kabelausgang

AB 20

AB 20, Halterung aus Gusseisen oder Edelstahl Gewicht: 0,6 kg pro Paar - *AB 20, cast iron or stainless steel bracket Weight: 0,6 kg per pair*



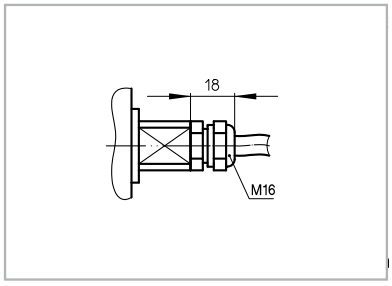
Das Standarddesign eines TM 100B25 besteht aus einer Polyamid-Anschlussdose. Bei der Konstruktion aus Edelstahl kann dies entweder eine Anschlussdose aus Polyamid oder Edelstahl sein.
Standard design of a TM 100B25 is with a polyamide junctionbox. For stainless steel design, this can be either a polyamide or stainless steel junctionbox.

Auf Wunsch kann ein Trommelmotor mit einem Kabel ausgestattet werden. In diesem Fall ist es wichtig, die verfügbare Spannung (vorzugsweise 1 Spannung), die Länge des Kabels, ob das Kabel abgeschirmt ist oder nicht, und die Art des Kabelausgangs zu kennen. Eine Übersicht der verfügbaren Kabelausgänge finden Sie unten.
On request a Drummotor can be fitted with a cable. In this case it is important to know the available voltage (preferably 1 voltage), the length of the cable, whether the cable is shielded or not and the type of cable exit. An overview of available cable exits is shown below.

Option 1

Gerader Kabelausgang mit Kabelverschraubung

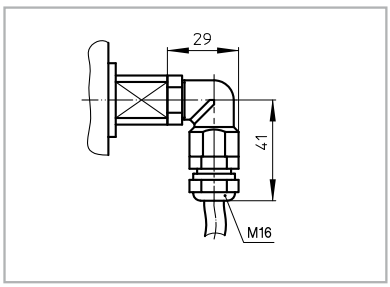
Straight cable exit with cable gland



Option 3

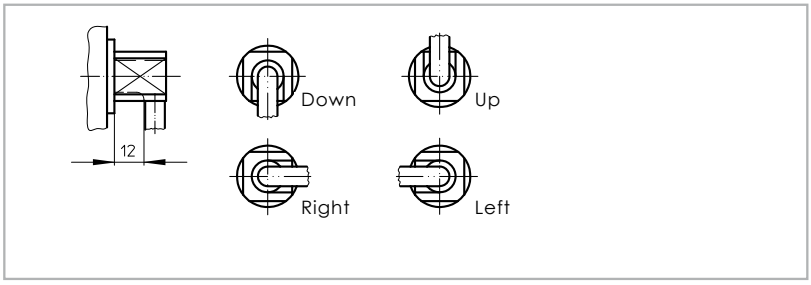
Winkelkabelausgang mit Kabelverschraubung (minimale Gesichtsbreite erhöht sich mit 25 mm)

Elbow cable exit with cable gland (minimum facewidth increases with 25 mm)



Option 4

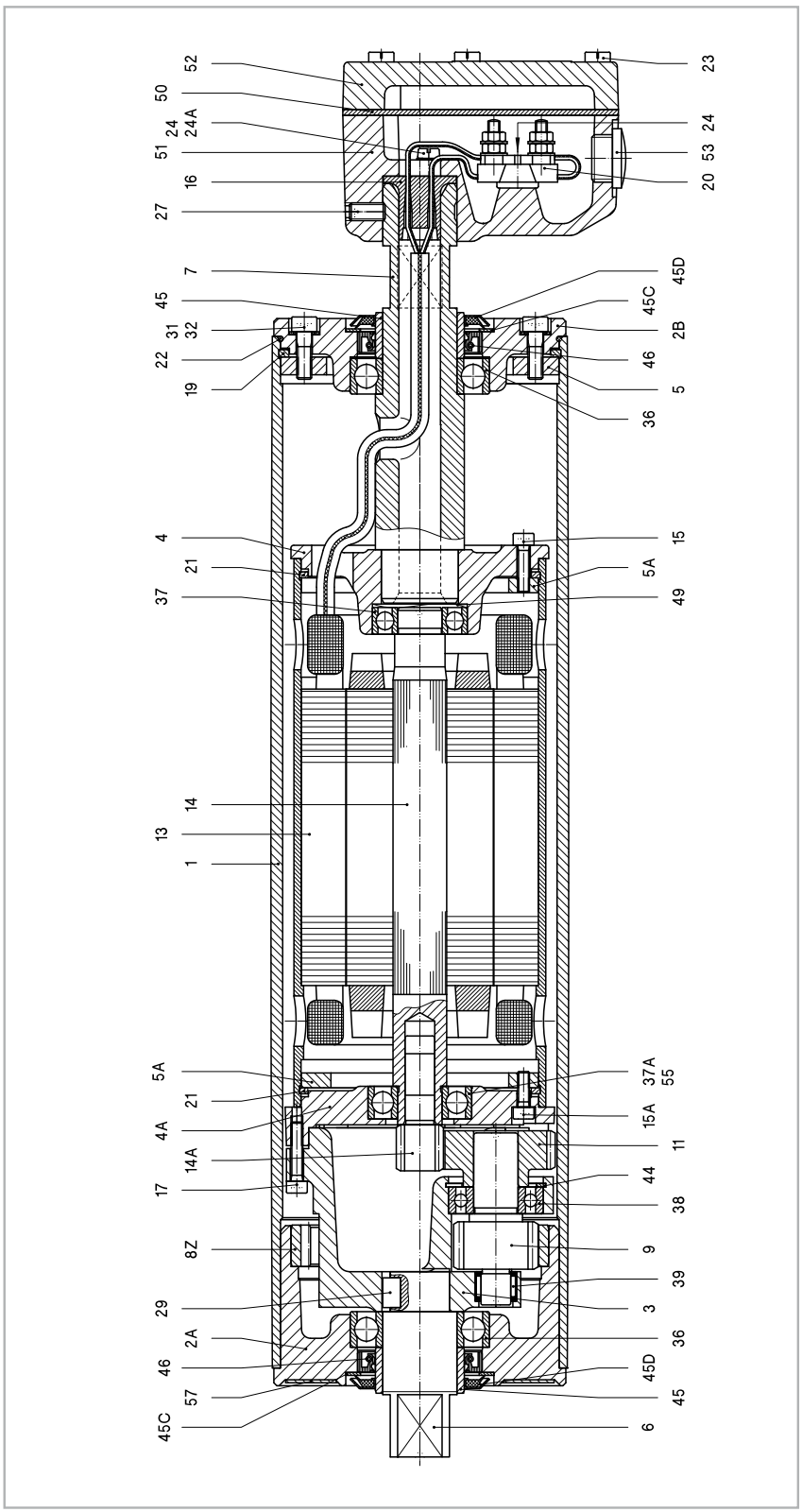
Offener Kabelausgang (minimale Gesichtsbreite erhöht sich mit 25 mm) *Open cable exit (minimum facewidth increases with 25 mm)*



Details:

Querschnitts- & Teilebeschreibung

TM 100B25 Z



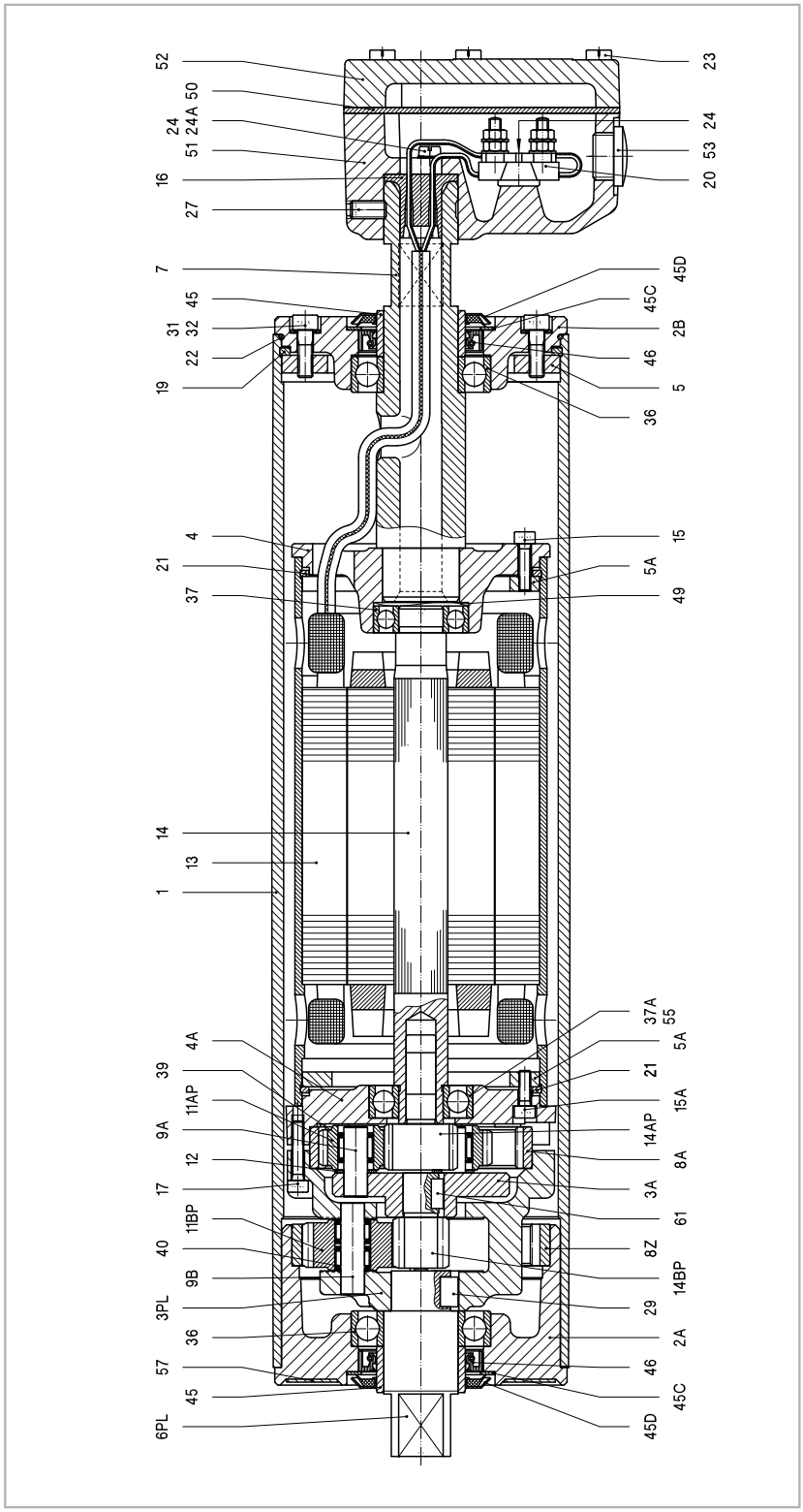
Legende

1	Shell	8Z	Internal gear	19	Springring	32	Washer	46	Oilseal
2A	Endflang	9	Pinion	20	Terminalboard	36	Ballbearing	49	Wave washer
2B	Endflang	11	Gear	21	Springring	37	Ballbearing	50	Seal
3	Gearhousing	13	Stator	22	O-ring	37A	Ballbearing	51	Junctionbox
4	Motorflang	14	Rotor	23	Cyl. head screw	38	Ballbearing	52	Junctionbox cover
4A	Motorflang	14A	Insert pinion	24	Cyl. head screw	39	Needlebearing	53	Stopping plug
5	Mountingring	15	Int. hex screw	24A	Toothed lock washer	44	Circlip	55	Ballbearing incl. backstop
5A	Mountingring	15A	Int. hex screw	27	Setscrew	45	Bearing race		
6	Shaftend	16	Cable passage	29	Key	45C	Shim plated	57	Dataplate
7	Hollow shaft	17	Int. hex screw	31	Int. hex screw	45D	Gammaring		

Details:

Querschnitts- & Teilebeschreibung

TM 100B25 PL2



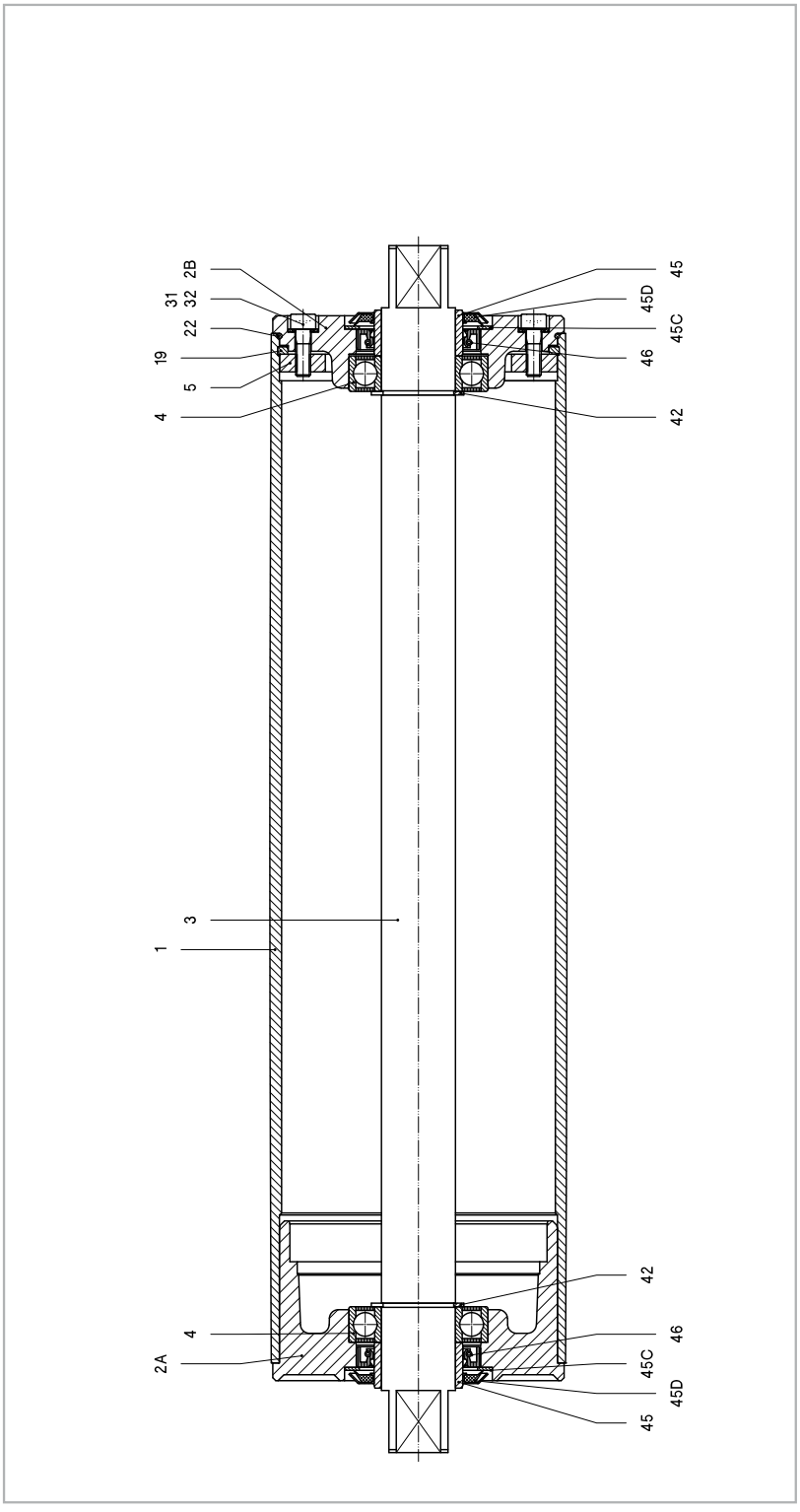
Legende

1	Shell	8Z	Internal gear	15	Int. hex screw	27	Setscrew	45D	Gammaring
2A	Endflang	8A	Internal gear	15A	Int. hex screw	29	Key	46	Oilseal
2B	Endflang	9A	Cylindrical pin	16	Cable passage	31	Int. hex screw	49	Wave washer
3A	Planetary carrier	9B	Cylindrical pin	17	Int. hex screw	32	Washer	50	Seal
3PL	Planetary housing	11AP	Planetary gear	19	Springring	36	Ballbearing	51	Junctionbox
4	Motorflang	11BP	Planetary gear	20	Terminalboard	37	Ballbearing	52	Junctionbox cover
4A	Motorflang	12	Shim	21	Springring	37A	Ballbearing	53	Stopping plug
5	Mountingring	13	Stator	22	O-ring	39	Needlebearing	55	Ballbearing incl. backstop
5A	Mountingring	14	Rotor	23	Cyl. head screw	40	Needlebearing		
6PL	Shaftend	14AP	Insert pinion	24	Cyl. head screw	45	Bearing race	57	Dataplate
7	Hollow shaft	14BP	Sunwheel	24A	Toothed lock washer	45C	Shim plated	61	Key

Details:

Querschnitts- & Teilebeschreibung

KT 100B25



Legende

1	Shell	31	Int. hex screw
2A	Endflang	32	Washer
2B	Endflang	42	Circlip
3	Shaft	45	Bearing race
4	Ballbearing	45C	Shim plated
5	Mountingring	45D	Gammaring
19	Springring	46	Oilseal
22	O-ring		

Optionen:

Programm

Material

The external parts of the Drummotor are made from mild steel and cast iron. Depending on the application it is also possible to manufacture in stainless steel (complete or part). You can choose between stainless steel 304 (general food industry) and stainless steel 316 (salt water applications).

Backstop - Brake

If an inclined belt conveyor is stopped fully loaded, it could run backwards.

To prevent this we can install a backstop. One of the bearings in the Drummotor is replaced by a one way bearing. The way this bearing is installed determines the direction of rotation of the drum. TBRH indicates a cw rotation and TBLH ccw.

In situations where a Drummotor needs to be able to drive in both directions it is not possible to use a backstop. In this case we use a brake. When an declined belt or a horizontal belt needs to be stopped quickly to pick or place items a brake is the best solution.

Inclined position

Sometimes a Drummotor needs to be installed on an inclined or even vertical position. This is possible, but we need to make adjustments to the oil level in the drum as the oil will flow to th lower side of the Drummotor causing the top bearing to run without lubrication. To prevent problems we will need to know the installation angle so we can fill the drum with extra oil and fit double sealed bearing on the upper side.

Thermal protection

The Drummotor can be fitted with thermal protection. This consists of either a thermistor (PTC) or bi-metal (klixon). We install these on each phase of the electric motor.

Encoder - Sensor bearing

In certain applications it is required to measure the speed or position of a conveyor belt. For this type of application we can install an encoder or sensor bearing to accurately measure rotational speed of the Drummotor.

The accuracy needed will determine the type of encoder or sensor used.

Lagging

The power produced by the Drummotor has to be transferred to the belt and lagging is used to give more friction between the Drummotor and the conveyor belt. We can fit your Drummotor with different kinds of lagging.

There is a difference between cold and hot vulcanised lagging. Cold vulcanised means the lagging is glued to the Drummotor usually in sheet form and the join ‘welded’ together. Hot vulcanising is a process where the shell is wrapped around with thin layers of rubber. The shell with the rubber is then baked in an autoclave fusing the layers together creating a seamless finish

It is possible to cut grooves (e.g chevron or diamond) in the lagging.

Sprockets

Do you wish to use a Drummotor to drive modular belts? We can help you! Fitting sprockets suitable for various types of modular belts is a simple solution. The Drummotor is manufactured with a cylindrical shell and machined with a patented ‘keying’ system. The sprockets are simply ‘slid’ on and locked securely into position.

Optionen:

Dichtungen

Sealings for mild steel Drummotors and Taildrums

RB sealing - IP 66

This is our standard sealing. This type of sealing will work in most conditions.

RBS sealing - IP 66

This sealing is specifically designed for those applications where high water pressure is used for cleaning.

HD sealing - IP 66

This sealing is designed for abrasive applications, like sand, gravel and soil.

Sealings for stainless steel Drummotors and Taildrums

CR sealing - IP 66

This is our standard sealing for stainless steel Drummotors, a very effective, multi labyrinth sealing.

UW sealing - IP 68

This sealing is suitable for under water applications. The maximum depth is approx 2,5 m.

Optionen:

Übersicht der wählbaren Optionen

Specification	Standard	Optional
Construction		
Shafts and bolts	Mild steel	Stainless steel
Endflange	Cast iron	Stainless steel
Shell	Mild steel	Stainless steel
Junctionbox	Polyamide	Cast iron or stainless steel
Cable		Shielded or non-shielded
Sealing mild steel	RB	RBS, HD
Sealing stainless steel	CR	UW
Shell		
Crowned	•	
Cylindrical		•
Balanced		•
Lagging, cold vulcanised		•
Lagging, hot vulcanised		•
Lagging, FDA approved		•
Fitted with grooves, patterns		•
Sprockets		•
Electro motor		
Three-phase asynchronous	•	
Power supply	230/400 V - 50 Hz	Other voltages and frequencies on request
Single phase (230 V - 50 Hz)		•
Insulation class	F	H
Thermal protection		Bi-metal or thermistor
Run by frequency inverter	•	
Other options		
Food grade oil		•
Backstop, mechanical		•
Brake, electro mechanical		•
Clutch brake, electro mechanical		•
Inclined or vertical position		•
Other facewidth's		•
Different shaft designs		•
Encoder or sensor bearing in Drummotor		Sensor bearing
Encoder or sensor bearing in Taildrum		•
Certificates		
CE	•	
UL		•
CSA		•
ATEX zone 22, dust		•
UW Under water application (IP68)		•

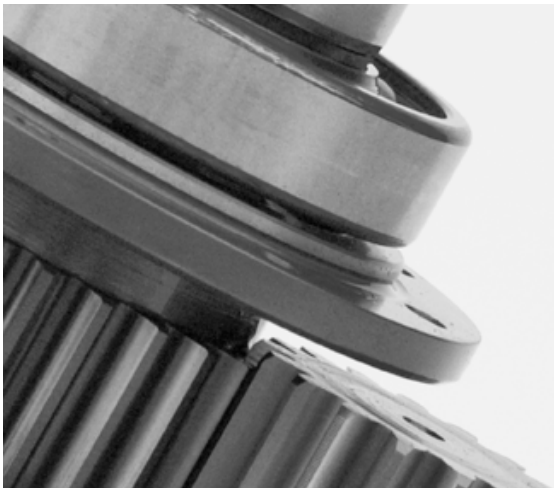
Lieferprogramm

Möglichkeiten

Drummotor type	TM 100B25	TM 113B25	TM 127.25	TM 138.25	TM 160.25	TM 160.30	TM 215.30	TM 215.40
Drum diameter (mm)	100	113	127	138	160	160	215	215
Shaft diameter (mm)	25	25	25	25	25	30	30	40
Power (kW)	0.05-0.37	0.04-0.55	0.10-1.1	0.10-1.1	0.10-0.75	0.10-2.2	0.10-2.2	0.37-5.5
Speed (m/s)	0.007-3.60	0.008-4.40	0.008-2.60	0.009-2.80	0.13-3.30	0.06-4.00	0.08-5.30	0.12-4.70

Drummotor type	TM 215B50	TM 273.40	TM 315.40	TM 315.50	TM 400A50	TM 400.60	TM 500A60	TM 500A75
Drum diameter (mm)	215	273	315	315	400	400	500	500
Shaft diameter (mm)	50	40	40	50	50	60	60	75
Power (kW)	1.5-4.0	0.37-5.5	0.37-5.5	1.1-11	1.1-11	1.5-22	1.5-22	11-30
Speed (m/s)	0.18-0.31	0.17-5.00	0.18-5.20	0.16-4.40	0.20-4.80	0.20-4.60	0.25-4.70	0.80-3.20

Drummotor type	TM 620A75	TM 630A100	TM 800A100	TM 800A130
Drum diameter (mm)	620	630	800	800
Shaft diameter (mm)	75	100	100	130
Power (kW)	11-30	22-55	22-55	55-132
Speed (m/s)	1.00-3.90	1.00-4.00	1.25-5.10	1.60-4.50



Konstruktive Vorteile / *Design benefits*

- **Robuste Industrieausführung / *Robust, industrial design***
- **Komplett gekapselt / *Fully enclosed***
- **Ölbefüllung / *Oil filled***
- **Well-sized gears and bearings**

Installations-Vorteile *Installation advantages*

- **Einfach zu installieren / *Easy to install***
- **Kompakt & Zuverlässig / *Compact and reliable***
- **Einfach zu reinigen / *Easy to clean***
- **Praktisch wartungsfrei / *Virtually maintenance free***
- **Geringe Lebenszeitkosten / *Low Life Cycle Costs***

Trommelmotoren / *Drummotors*

TM 113B25

KRAUTER®

ELEKTROMASCHINEN

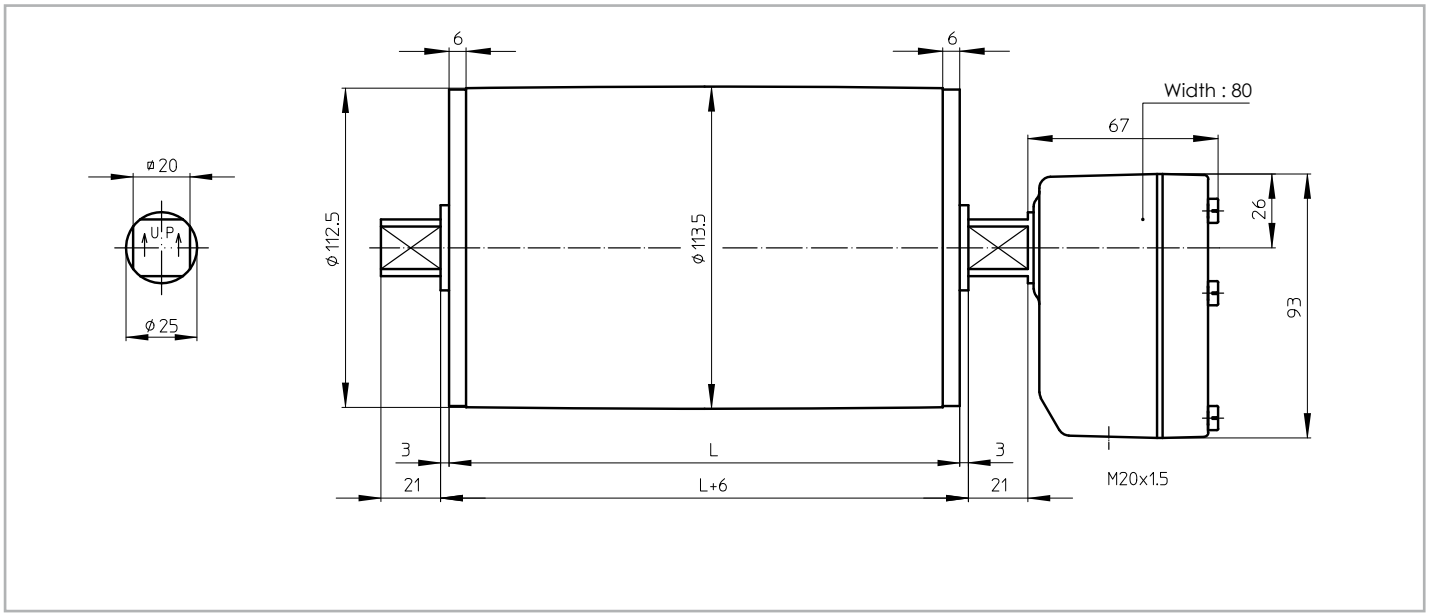
TYPE TM 113B25	Power kW	Beltspeed m/s at 50 Hz Beltpull N										Min. L mm Design B	Full load curr. 400 V - 50 Hz I = ... A	Weight kg L=350
275 Z	**0,55**	**4,40** 120	**4,00** 130	**3,20** 165	**2,80** 185	**2,50** 210	**2,20** 240	**1,90** 270				310	1,20	16
205 Z	**0,37**	**4,40** 80	**4.00** 90	**3,20** 110	**2,80** 125	**2,50** 140						310	0,80	16
405 Z **405 PL2**	**0,37**	**2,20** 160 **0,85** 400	**2,00** 175 **0,70** 485	**1,60** 220 **0,65** 525	**1,40** 250 **0,55** 620	**1,25** 280 **0,50** 680	**1,10** 320 **0,45** 755	**0,95** 370 **0,40** 850	**0,75** 470 **0,34** 1000	**0,60** 585 **0,27** **1150**		360	1,35	16
234 Z	**0,25**	**4,40** 55	**4,00** 60	**3,20** 75	**2,80** 85	**2,50** 95						260	0,65	16
434 Z **434 PL2**	**0,25**	**2,20** 110 **0,85** 270	**2,00** 120 **0,75** 305	**1,60** 150 **0,70** 330	**1,40** 170 **0,65** 355	**1,25** 190 **0,55** 420	**1,10** 215 **0,50** 460	**0,95** 250 **0,45** 510	**0,40** 575	**0,34** 675	**0,27** 850	310	0,70	16
634 Z **634 PL2**	**0,25**	**1,00** 240 **0,29** 795	**0,90** 265 **0,25** 920	**0,80** 295 **0,21** 1095	**0,70** 340 **0,17** **1150**	**0,60** 395	**0,50** 475	**0,40** 595				360	0,95	16
425 Z **425 PL2** **425 PL3**	**0,18**	**1,60** 105 **0,85** 195 **0,20** 790	**1,40** 120 **0,75** 220 **0,18** 880	**1,25** 135 **0,70** 235 **0,16** 990	**1,10** 155 **0,65** 255 **0,13** **1150**	**0,95** 180 **0,55** 300 **0,11** **1150**	**0,50** 330	**0,45** 370	**0,40** 415	**0,34** 485	**0,27** 615	275 275 310	0,55	16
625 Z **625 PL2**	**0,18**	**0,90** 190 **0,25** 660	**0,80** 214 **0,21** 790	**0,70** 244 **0,17** 975	**0,60** 285							310	0,65	16
416 Z **416 PL2** **416 PL3**	**0,12**	**1,10** 105 **0,85** 130 **0,18** 585	**0,95** 120 **0,75** 145 **0,11** 960	**0,70** 160 **0,07** **1150**	**0,65** 170	**0,55** 200	**0,50** 220	**0,45** 245	**0,40** 275	**0,34** 325	**0,27** 410	260 260 310	0,40	16
816 PL2 **816 PL3**	**0,12**	**0,31** 355 **0,10** **1055**	**0,22** 500 **0,08** **1150**	**0,20** 550	**0,16** 690	**0,13** 850						310 360	0,65	16
811 PL2 **811 PL3**	**0,08**	**0,31** 235 **0,10** **705**	**0,26** 285 **0,08** 880	**0,22** 335 **0,07** 1005	**0,20** 370 **0,06** **1150**	**0,16** 460 **0,05** **1150**	**0,13** 565					260 310	0,45	16
807 PL3 **807 PL4**	**0,05**	**0,06** 735 **0,025** **1150**	**0,05** 880 **0,023** **1150**	**0,033** **1150** **0,021** **1150**	**0,019** **1150**	**0,016** **1150**	**0,015** **1150**	**0,013** **1150**	**0,012** **1150**	**0,010** **1150**	**0,008** **1150**	310 360	0,30	16
805 PL3	**0,04**	**0,10** 350	**0,08** 440	**0,07** 505	**0,06** 585	**0,05** 705	**0,033** 1065					285	0,25	16

Available standard facewidth's: 260 - 275 - 310 - 360 - 410 - 460 - 510 - 560 - 610 - 660 - 710 - 760 - 810 - 860 mm
When an electro-mechanical brake is fitted, the minimum facewidth is increased b 75 mm
The total weight of a Drummotor grows approx. 1,8 kg per 100 mm
Maximum beltpull: 1150 N (Imax on request or on data plate)
Available torque: (Beltpull N x drum diameter m) / 2 Nm

Dimensions mild steel

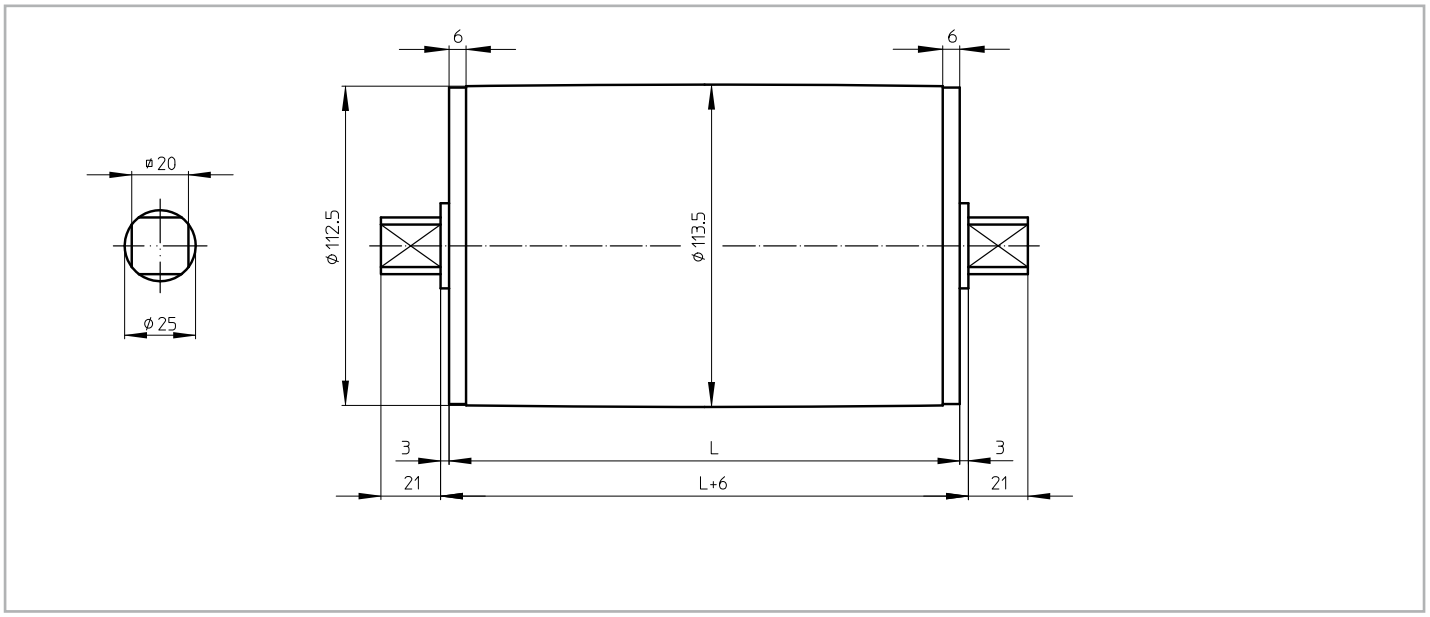
TM 113B25

TM 113B25, mild steel Drummotor with polyamide junctionbox



KT 113B25

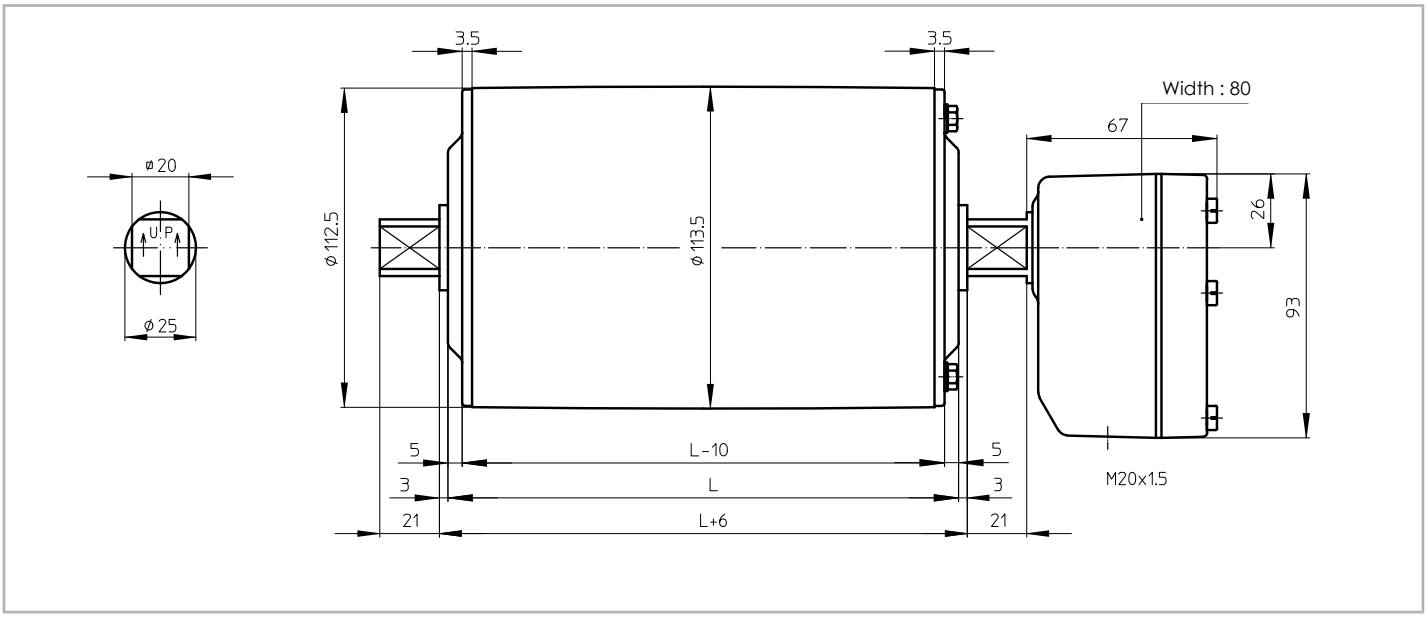
KT 113B25, mild steel Taildrum



Dimensions stainless steel

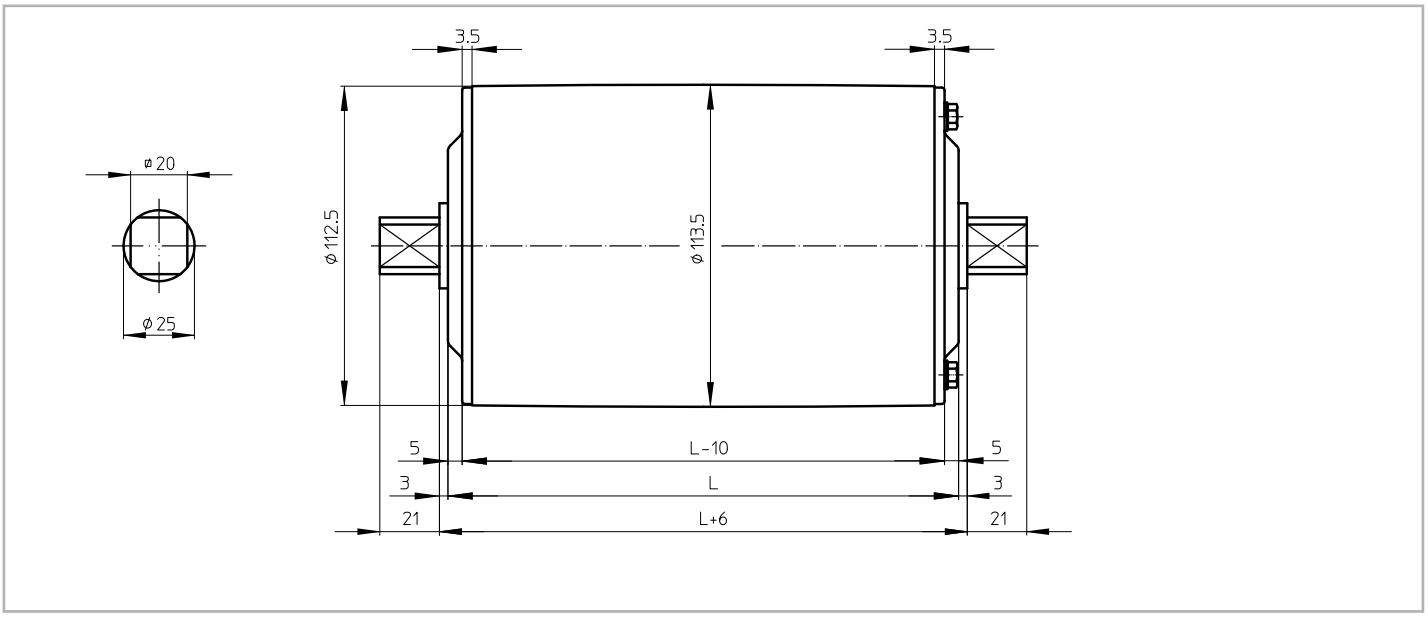
TM 113B25 CR

TM 113B25 CR, stainless steel Drummotor with polyamide junctionbox and CR sealing



KT 113B25 CR

KT 113B25 CR, stainless steel Taildrum with CR sealing

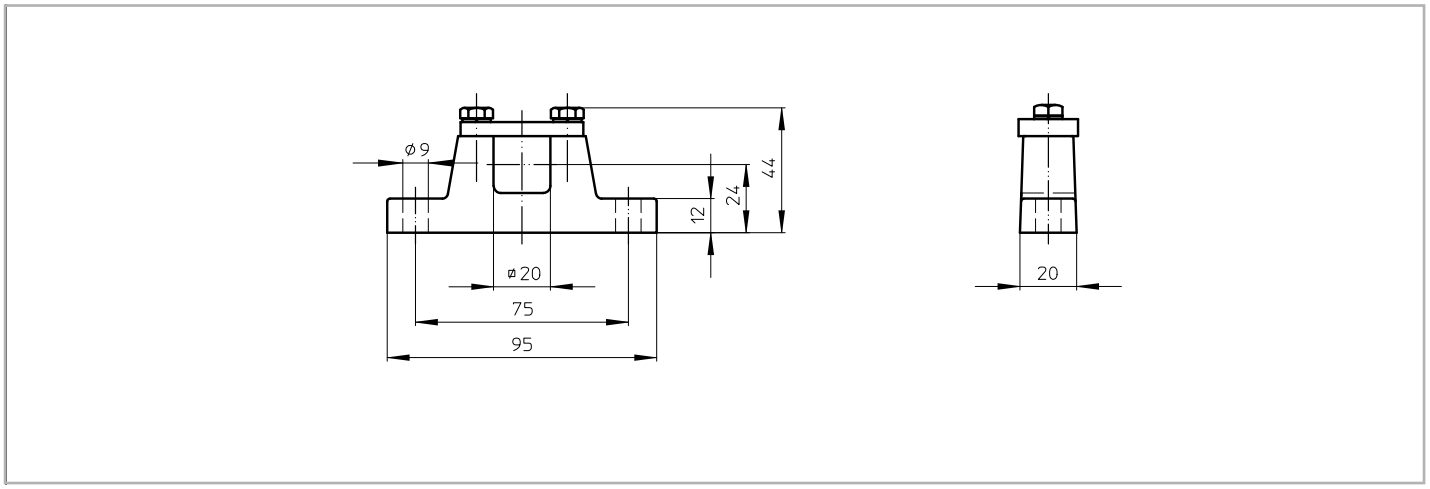


Dimensions bracket / cable exit

AB 20

AB 20, cast iron or stainless steel bracket

Weight: 0,6 kg per pair

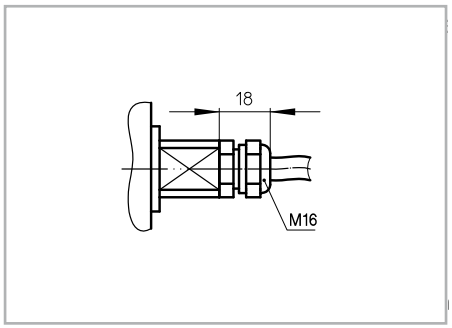


Standard design of a TM 113B25 is with a polyamide junctionbox. For stainless steel design, this can be either a polyamide or stainless steel junctionbox.

On request a Drummotor can be fitted with a cable. In this case it is important to know the available voltage (preferably 1 voltage), the length of the cable, whether the cable is shielded or not and the type of cable exit. An overview of available cable exits is shown below.

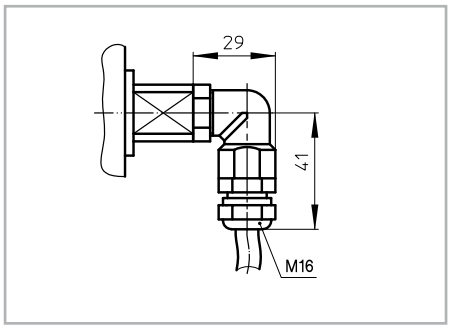
Option 1

Straight cable exit with cable gland



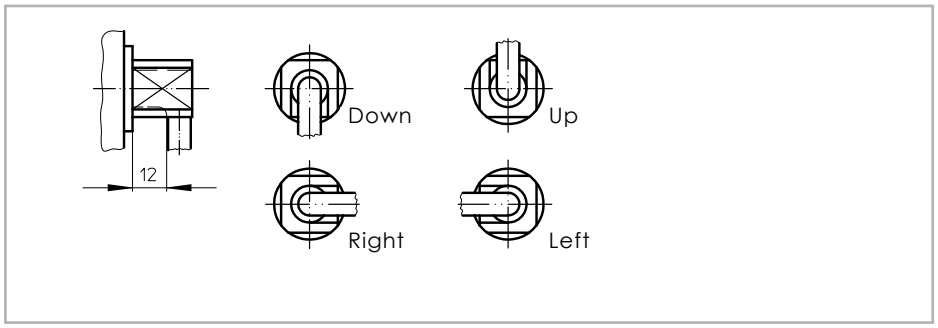
Option 3

Elbow cable exit with cable gland
(minimum facewidth increases with 25 mm)

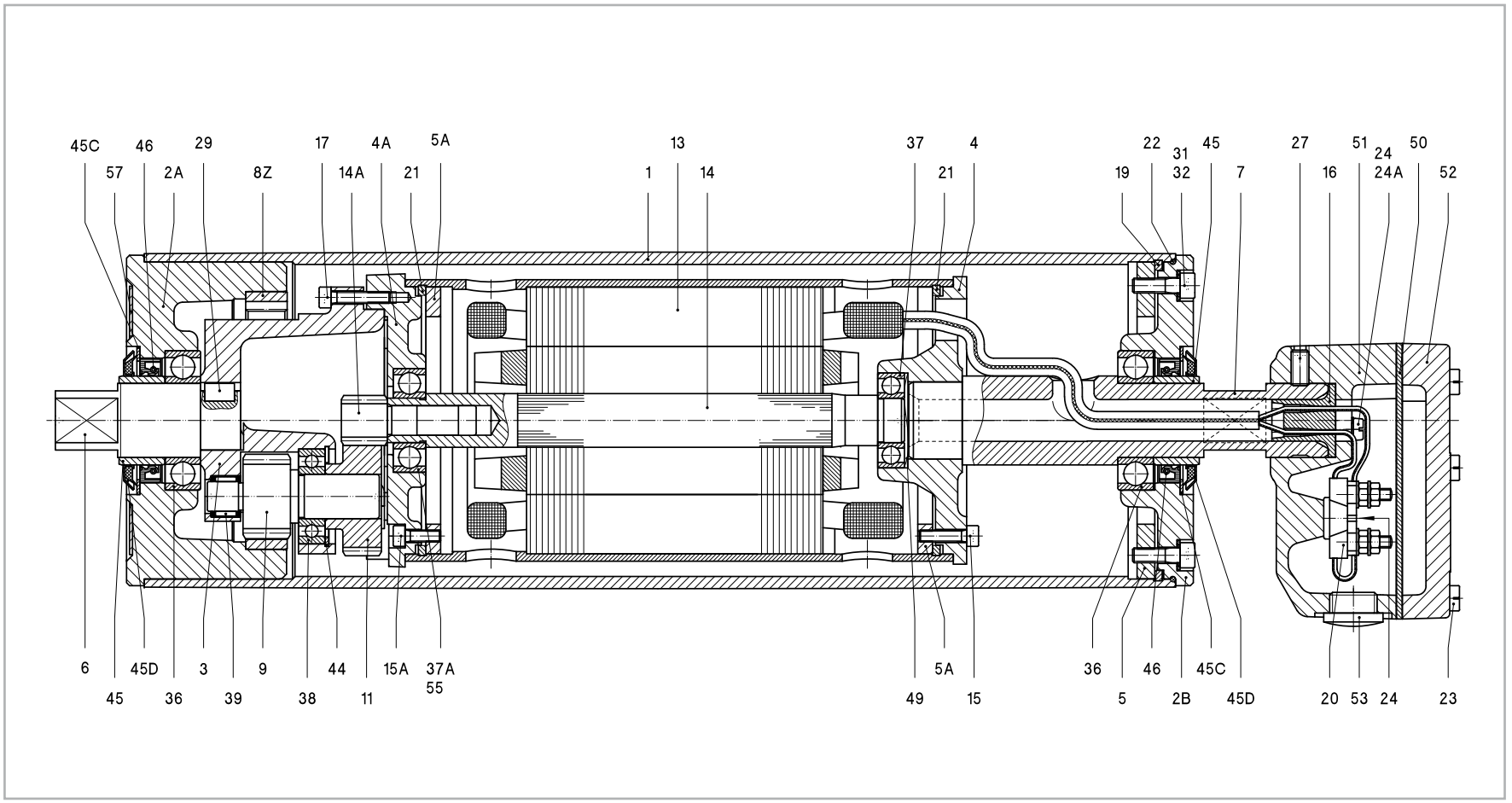


Option 4

Open cable exit (minimum facewidth increases with 25 mm)



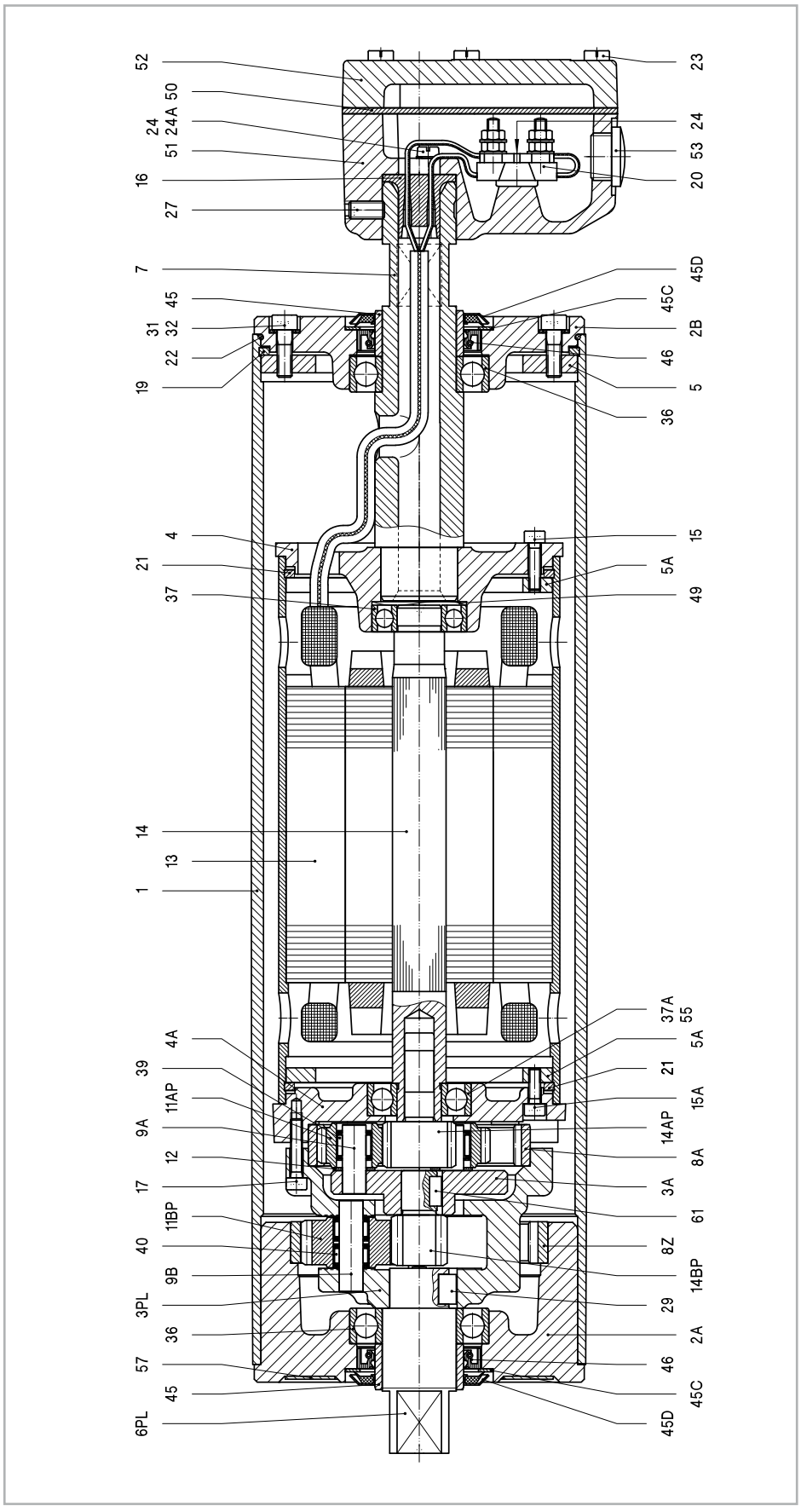
TM 113B25 Z



Legende

1	Shell	8Z	Internal gear	19	Springring	32	Washer	46	Oilseal
2A	Endflang	9	Pinion	20	Terminalboard	36	Ballbearing	49	Wave washer
2B	Endflang	11	Gear	21	Springring	37	Ballbearing	50	Seal
3	Gearhousing	13	Stator	22	O-ring	37A	Ballbearing	51	Junctionbox
4	Motorflang	14	Rotor	23	Cyl. head screw	38	Ballbearing	52	Junctionbox cover
4A	Motorflang	14A	Insert pinion	24	Cyl. head screw	39	Needlebearing	53	Stopping plug
5	Mountingring	15	Int. hex screw	24A	Toothed lock washer	44	Circlip	55	Ballbearing incl. backstop
5A	Mountingring	15A	Int. hex screw	27	Setscrew	45	Bearing race		
6	Shaftend	16	Cable passage	29	Key	45C	Shim plated	57	Dataplate
7	Hollow shaft	17	Int. hex screw	31	Int. hex screw	45D	Gammaring		

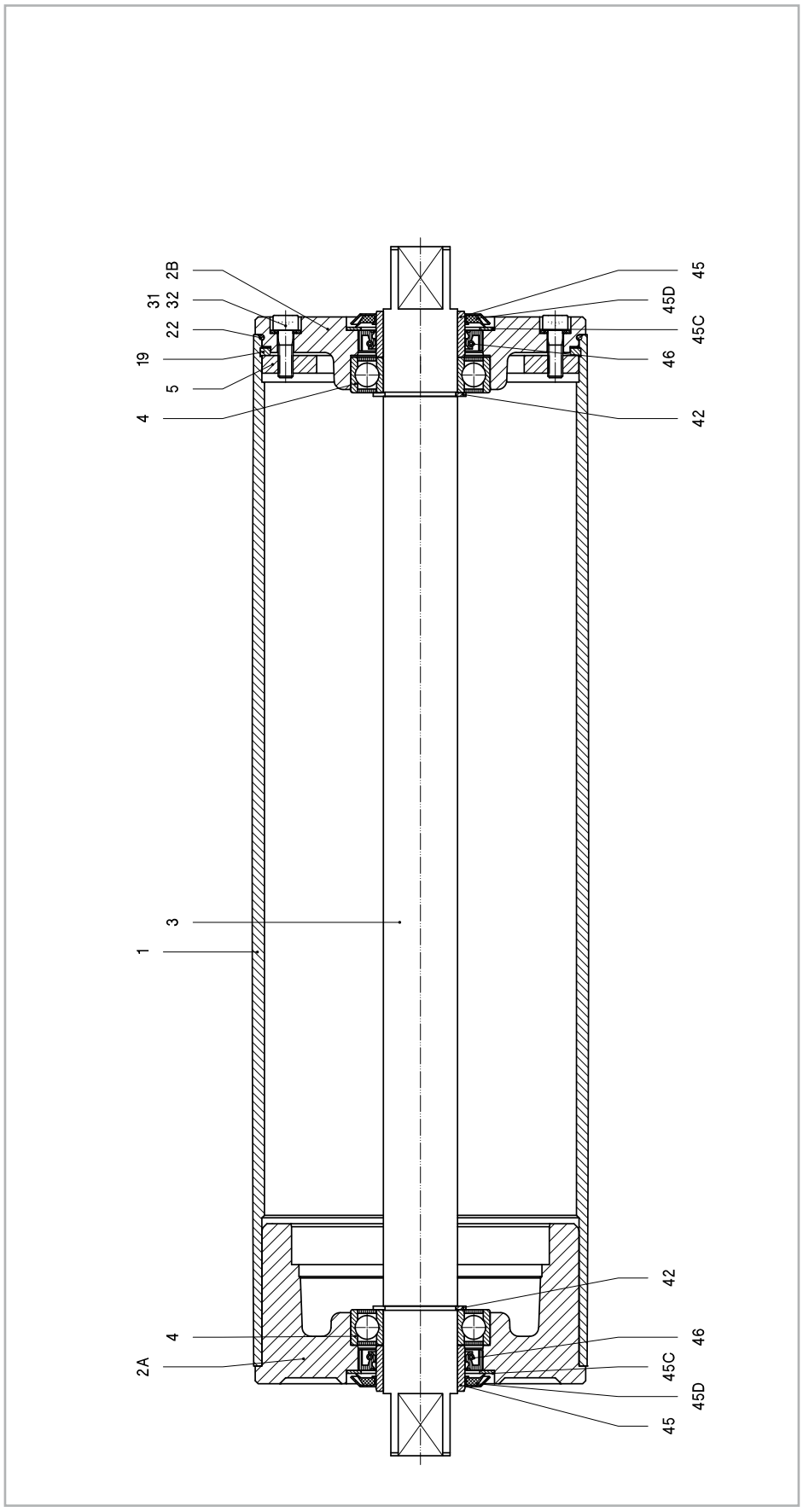
TM 113B25 PL2



Legende

1	Shell	8Z	Internal gear	15	Int. hex screw	27	Setscrew	45D	Gammaring
2A	Endflang	8A	Internal gear	15A	Int. hex screw	29	Key	46	Oilseal
2B	Endflang	9A	Cylindrical pin	16	Cable passage	31	Int. hex screw	49	Wave washer
3A	Planetary carrier	9B	Cylindrical pin	17	Int. hex screw	32	Washer	50	Seal
3PL	Planetary housing	11AP	Planetary gear	19	Springring	36	Ballbearing	51	Junctionbox
4	Motorflang	11BP	Planetary gear	20	Terminalboard	37	Ballbearing	52	Junctionbox cover
4A	Motorflang	12	Shim	21	Springring	37A	Ballbearing	53	Stopping plug
5	Mountingring	13	Stator	22	O-ring	39	Neadlebearing	55	Ballbearing incl. backstop
5A	Mountingring	14	Rotor	23	Cyl. head screw	40	Neadlebearing		
6PL	Shaftend	14AP	Insert pinion	24	Cyl. head screw	45	Bearing race	57	Dataplate
7	Hollow shaft	14BP	Sunwheel	24A	Toothed lock washer	45C	Shim plated	61	Key

KT 113B25



Legende

1	Shell	31	Int. hex screw
2A	Endflang	32	Washer
2B	Endflang	42	Circlip
3	Shaft	45	Bearing race
4	Ballbearing	45C	Shim plated
5	Mountingring	45D	Gammaring
19	Springring	46	Oilseal
22	O-ring		

Trommelmotoren / *Drummotors*

TM 127-25

KRAUTER®

ELEKTROMASCHINEN

TYPE TM 127.25	Power kW	Beltspeed m/s at 50 Hz Beltpull N							Min. L mm Design A	Min. L mm Design B	Full load curr. 400 V - 50 Hz I = ... A	Weight kg L=350
415 Z	**1,10**	**1,30** 805	**1,00** 1045	**0,85** 1230	**0,50** 2090				350	350	2,8	21
210 Z	**0,75**	**2,60** 275	**2.00** 355	**1,70** 420					300	325	1,4	20
410 Z	**0,75**	**1,30** 550	**1,00** 715	**0,85** 840	**0,65** 1095	**0,50** 1425			300	325	1,9	20
410 PL2		**0,30** 2300	**0,24** 2875	**0,20** 3450	**0,16** **4100**				350	375		
275 Z	**0,55**	**2,60** 200	**2,00** 260	**1,70** 305					275	300	1,1	18
475 Z	**0,55**	**1,30** 400	**1,00** 525	**0,85** 615	**0,65** 805	**0,50** 1045	**0,40** 1305		275	300	1,3	18
475 PL2		**0,30** 1685	**0,24** 2110	**0,20** 2530	**0,16** 3165				325	350		
405 Z	**0,37**	**1,30** 270	**1,00** 350	**0,85** 415	**0,65** 540	**0,50** 705	**0,40** 880	**0,32** 1100	275	300	1,0	17
405 PL2		**0,20** 1700	**0,16** 2130						325	350		
405 PL3		**0,046** **4100**	**0,036** **4100**	**0,031** **4100**	**0,024** **4100**				375	400		
605 Z	**0,37**	**0,25** 1405							275	300	1,1	18
605 PL2		**0,14** 2430	**0,11** 3095						325	350		
434 Z	**0,25**	**1,30** 185	**1,00** 240	**0,85** 280	**0,65** 365	**0,50** 475	**0,40** 595	**0,32** 740	250	275	0,7	16
834 Z	**0,25**	**0,25** 950	**0,20** 1190	**0,16** 1485					275	300	1,0	18
834 PL2		**0,12** 1915	**0,10** 2300	**0,08** 2875					325	350		
834 PL3		**0,023** **4100**	**0,018** **4100**	**0,015** **4100**	**0,012** **4100**				375	400		
825 Z	**0,18**	**0,25** 685	**0,20** 855	**0,16** 1070					275	300	0,8	17
818 Z	**0,13**	**0,25** 495	**0,20** 620	**0,16** 770					250	275	0,6	16
1218 Z	**0,13**	**0,12** 1030	**0,10** 1235						300	325	0,9	20
1218 PL2		**0,08** 1495	**0,07** 1710	**0,05** 2390					350	375		
1218 PL3		**0,015** **4100**	**0,012** **4100**	**0,010** **4100**	**0,008** **4100**				400	450		
1213 Z	**0,10**	**0,12** 790	**0,10** 950						275	300	0,6	18

Available standard facewidth's: 250 - 275 - 300 - 325 - 350 - 375 - 400 - 450 - 500 - 550 - 600 - 650 - 700 - 750 - 800 - 850 - 900 - 950 - 1000 mm
When an electro-mechanical brake is fitted, the minimum facewidth is increased b 75 mm
The total weight of a Drummotor grows approx. 1,5 kg per 100 mm
Maximum beltpull: 4100 N (Imax on request or on data plate)
Available torque: (Beltpull N x drum diameter m) / 2 Nm

Selection table Dahlander motors

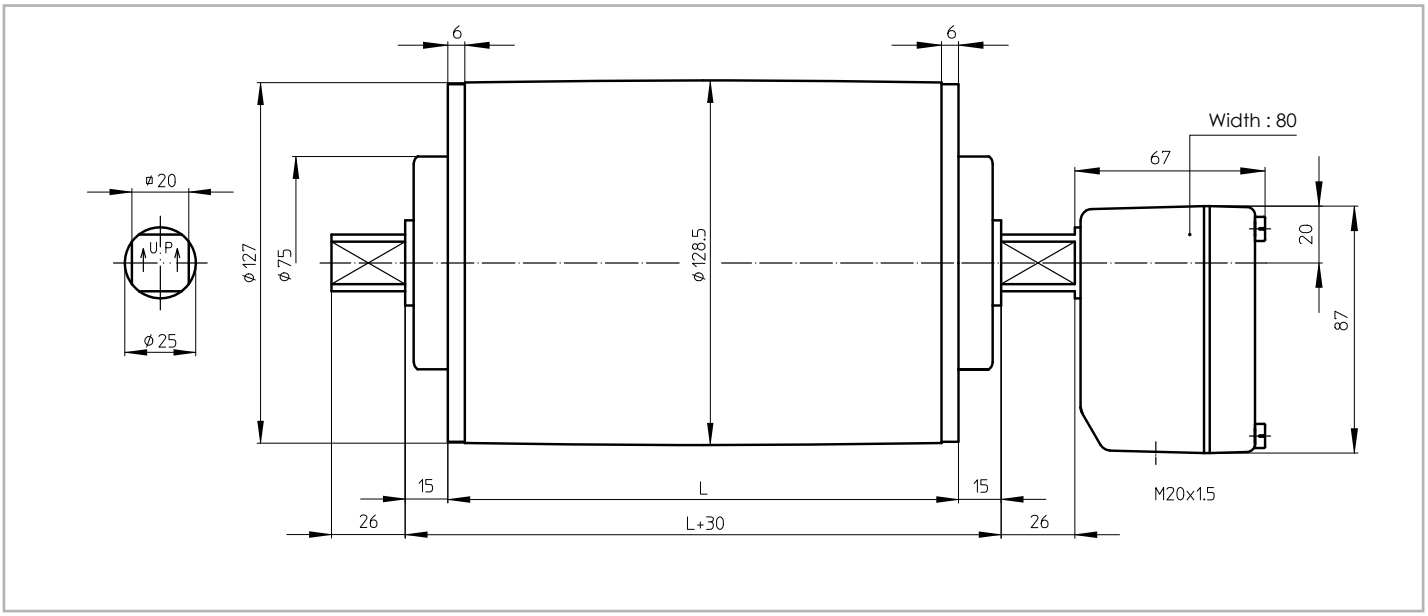
TYPE TM 127.25	Power kW	Beltspeed m/s at 50 Hz Beltpull N							Min. L mm Design A	Min. L mm Design B	Full load curr. 400 V - 50 Hz I = ... A	Weight kg L=350
475/210 Z	**0,55/0,75**	**1,30/2,60** 400/275	**1,00/2,00** 525/355	**0,85/1,70** 615/420	**0,65/1,30** 805/550	**0,50/1,00** 1045/715	**0,40/0,80** 1305/890		300	325	1,4/1,7	20
437/275 Z	**0,27/0,55**	**1,30/2,60** 200	**1,00/2,00** 260	**0,85/1,70** 305	**0,65/1,30** 400	**0,50/1,00** 525	**0,40/0,80** 655	**0,32/0,64** 815	275	300	0,9/1,3	18
825/405 Z	**0,18/0,37**	**0,32/0,64** 550	**0,25/0,50** 705	**0,20/0,40** 880	**0,16/0,32** 1100				275	300	1,0/0,9	18
825/405 PL2		**0,12/0,24** 1420	**0,10/0,20** 1700	**0,08/0,16** 2130					325	350		
825/405 PL3		**0,023/0,046** **4100**	**0,018/0,036** **4100**	**0,015/0,030** **4100**	**0,012/0,024** **4100**				375	400		

Available standard facewidth's: 275 - 300 - 325 - 350 - 375 - 400 - 450 - 500 - 550 - 600 - 650 - 700 - 750 - 800 - 850 - 900 - 950 - 1000 mm
When an electro-mechanical brake is fitted, the minimum facewidth is increased b 75 mm
The total weight of a Drummotor grows approx. 1,5 kg per 100 mm
Maximum beltpull: 4100 N (Imax on request or on data plate)
Available torque: (Beltpull N x drum diameter m) / 2 Nm

Dimensions Drummotors mild steel

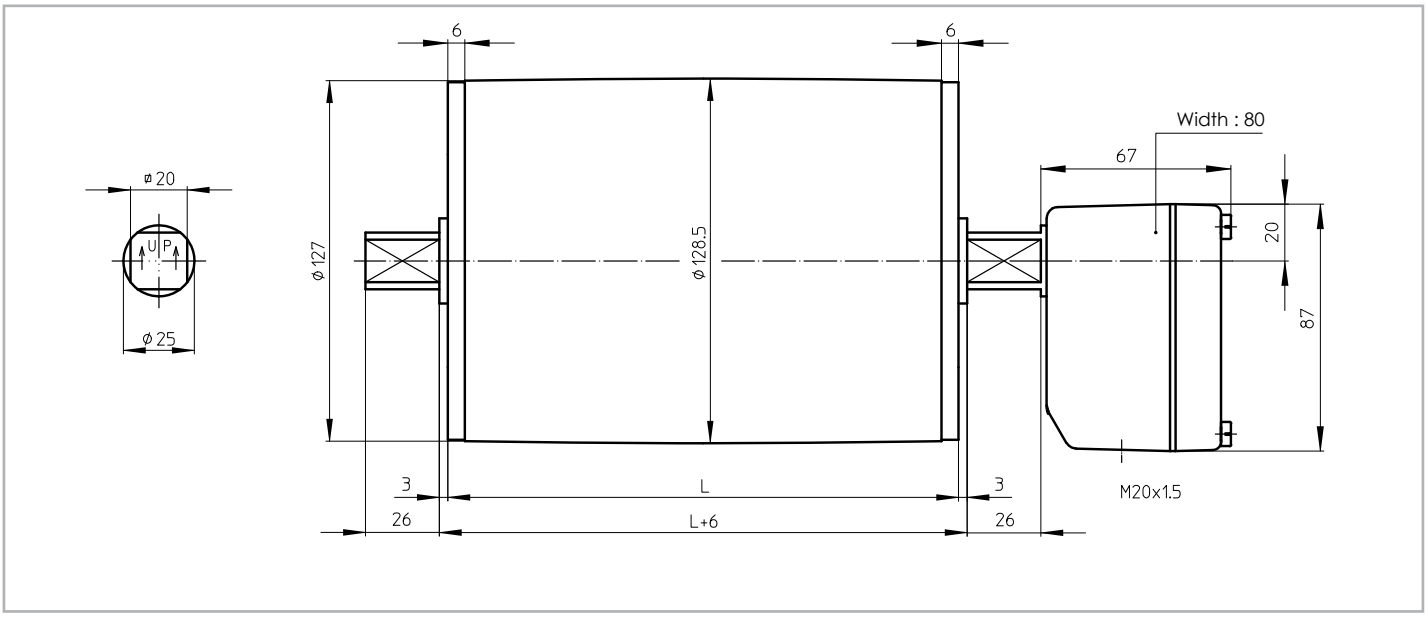
TM 127A25

TM 127A25, mild steel Drummotor with cast iron junctionbox



TM 127B25

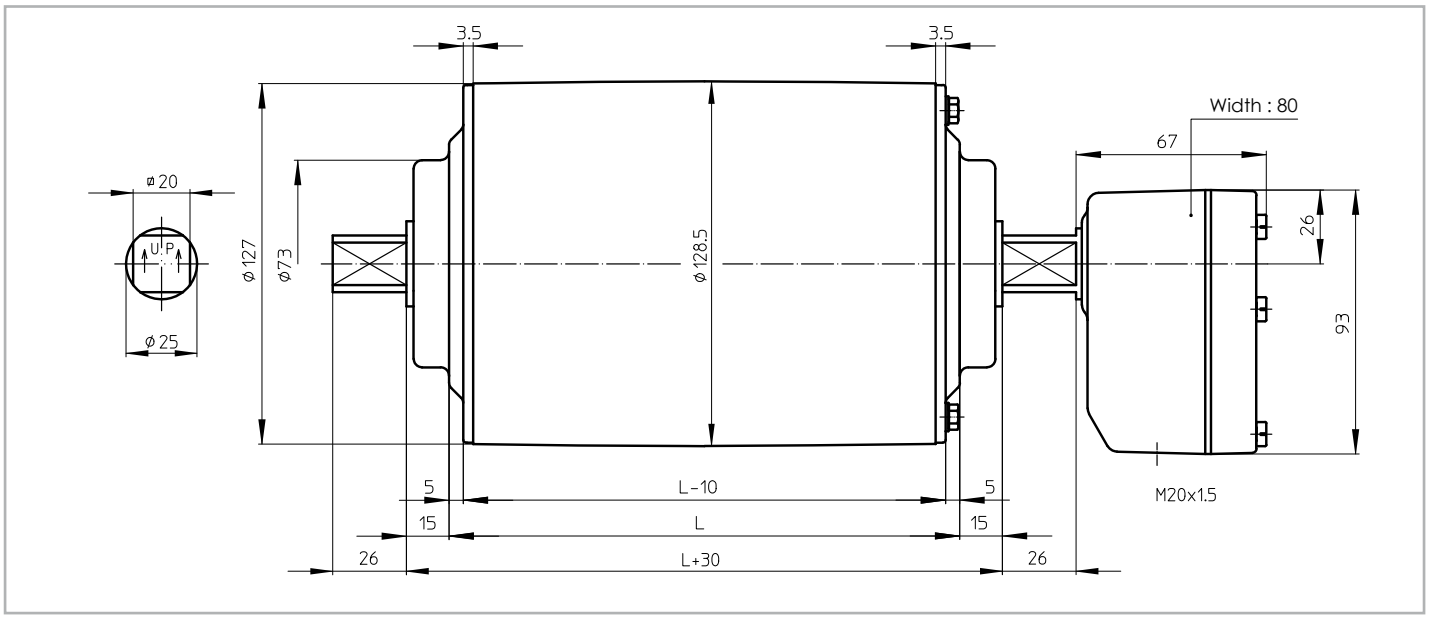
TM 127B25, mild steel Drummotor with cast iron junctionbox



Dimensions Drummotors stainless steel

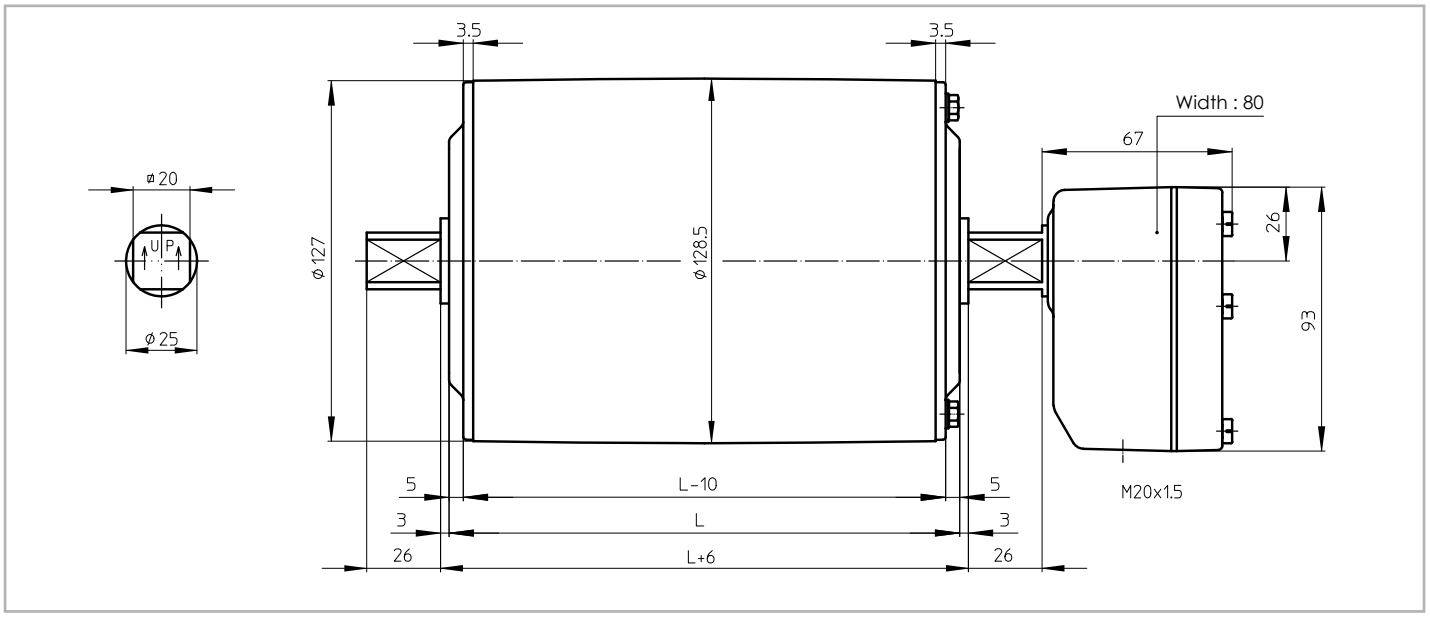
TM 127A25 CR

TM 127A25 CR, stainless steel Drummotor with polyamide junctionbox and CR sealing



TM 127B25 CR

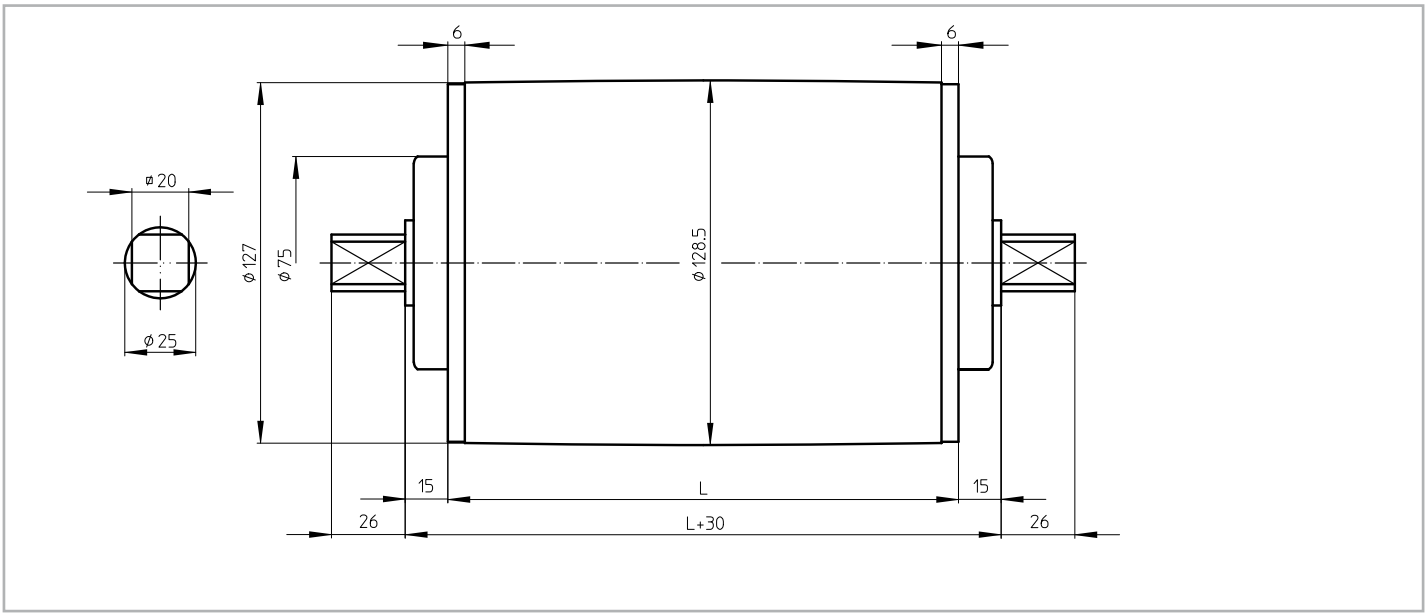
TM 127B25 CR, stainless steel Drummotor with polyamide junctionbox and CR sealing



Dimensions Taildrums mild steel

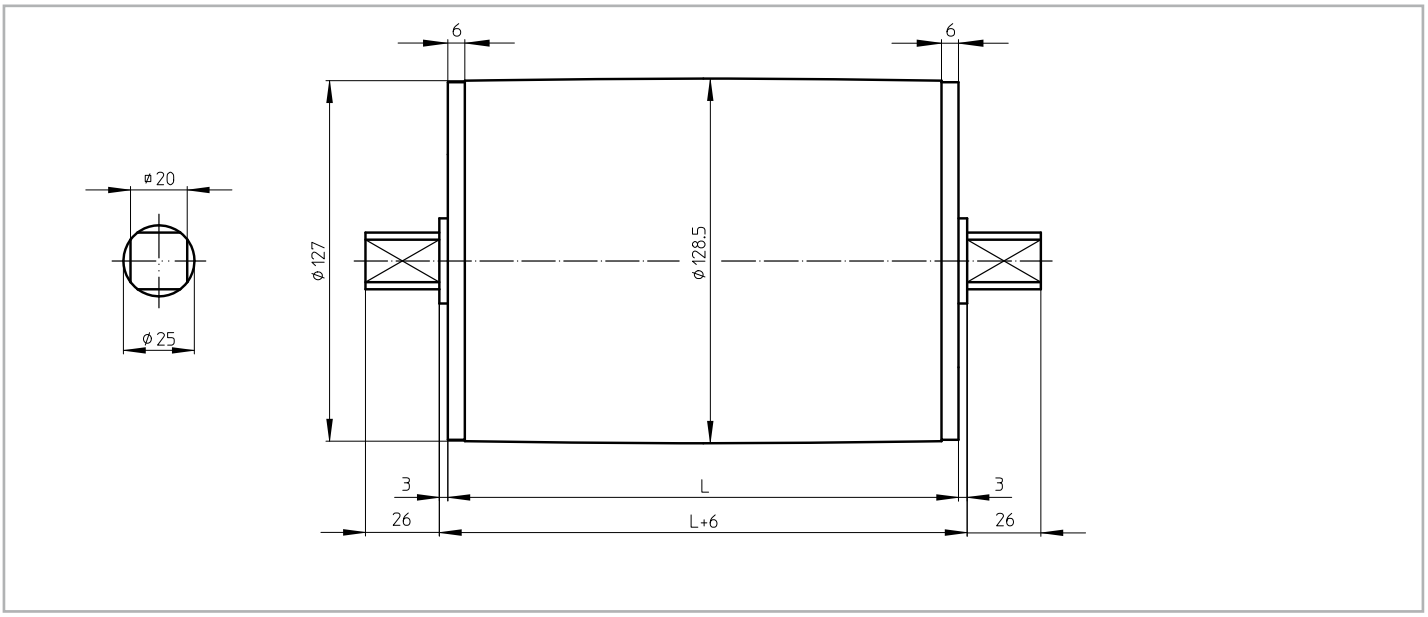
KT 127A25

KT 127A25, mild steel Taildrum



KT 127B25

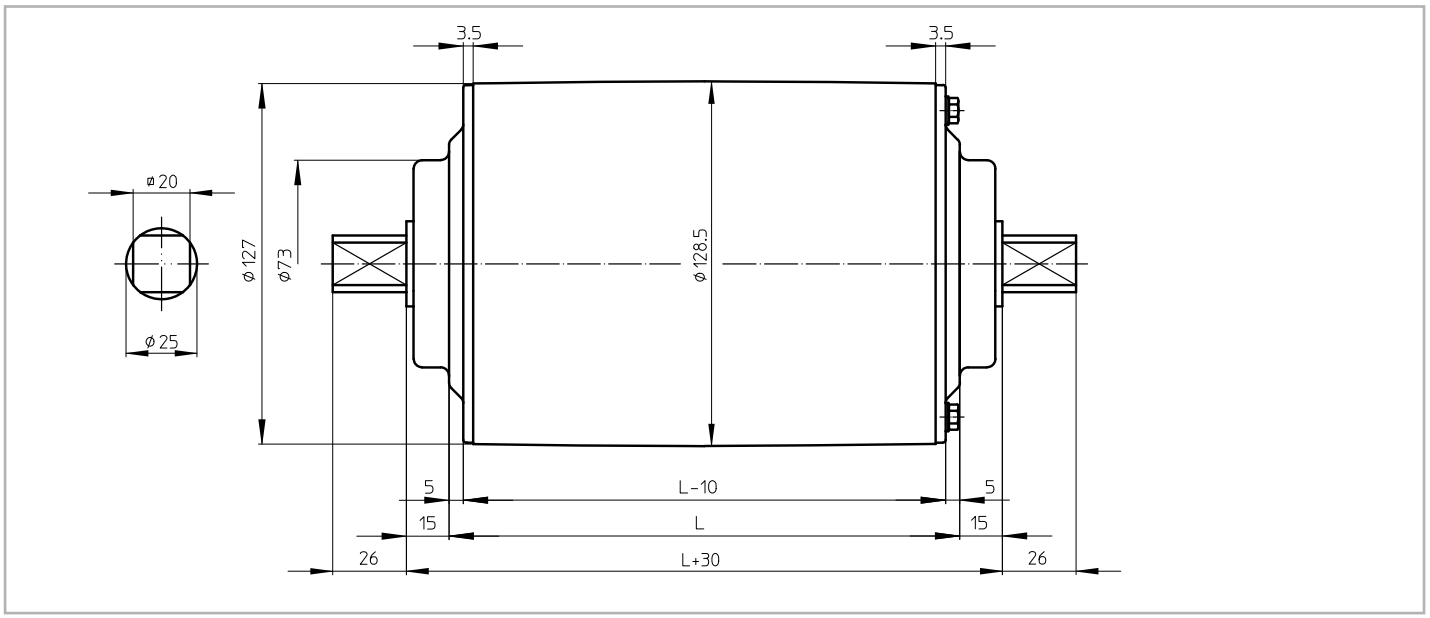
KT 127B25, mild steel Taildrum



Dimensions Taildrums stainless steel

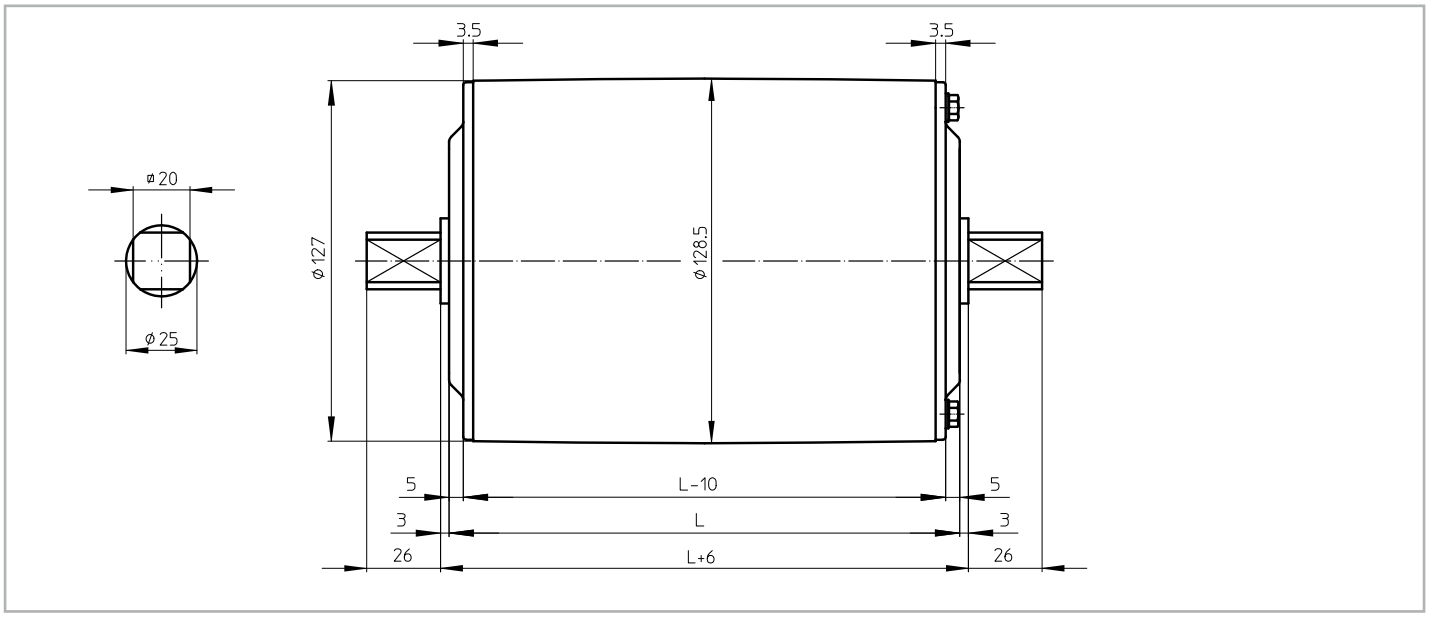
KT 127A25 CR

KT 127A25 CR, stainless steel Taildrum with CR sealing



KT 127B25 CR

KT 127B25 CR, stainless steel Taildrum with CR sealing

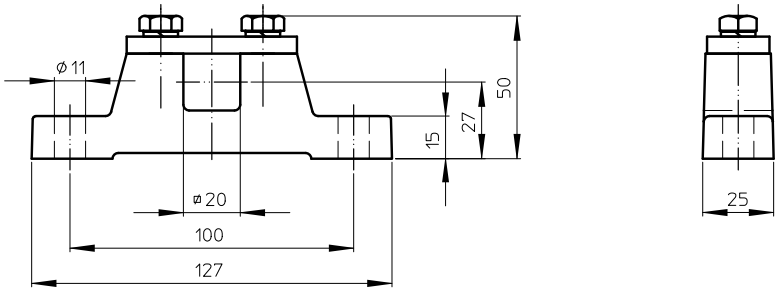


Dimensions bracket

AB 25

AB 25, cast iron or stainless steel bracket

Weight: 1,2 kg per pair



Cable exit

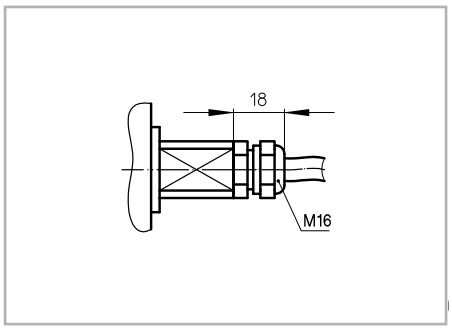
Standard design of a TM 127-25 is with a cast iron junctionbox. For stainless steel design, this can be either a polyamide or stainless steel junctionbox.

On request a Drummotor can be fitted with a cable. In this case it is important to know the available voltage (preferably 1 voltage), the length of the cable, whether the cable is shielded or not and the type of cable exit.

An overview of available cable exits is shown below.

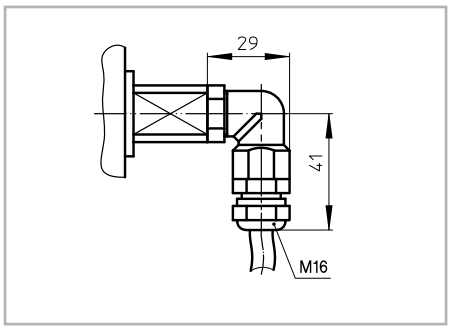
Option 1

Straight cable exit with cable gland



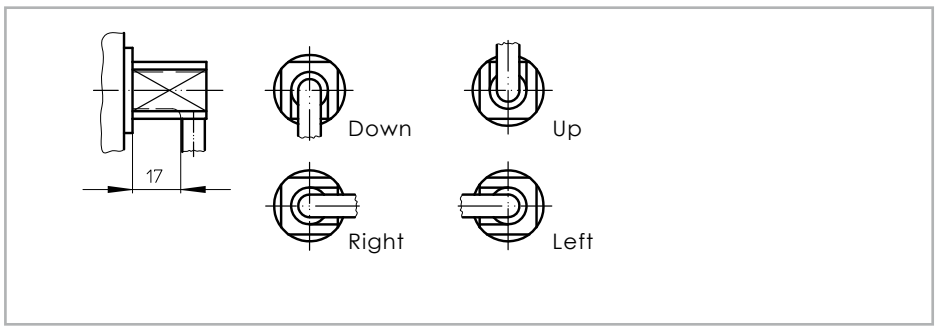
Option 3

Elbow cable exit with cable gland
(minimum facewidth increases with 25 mm)

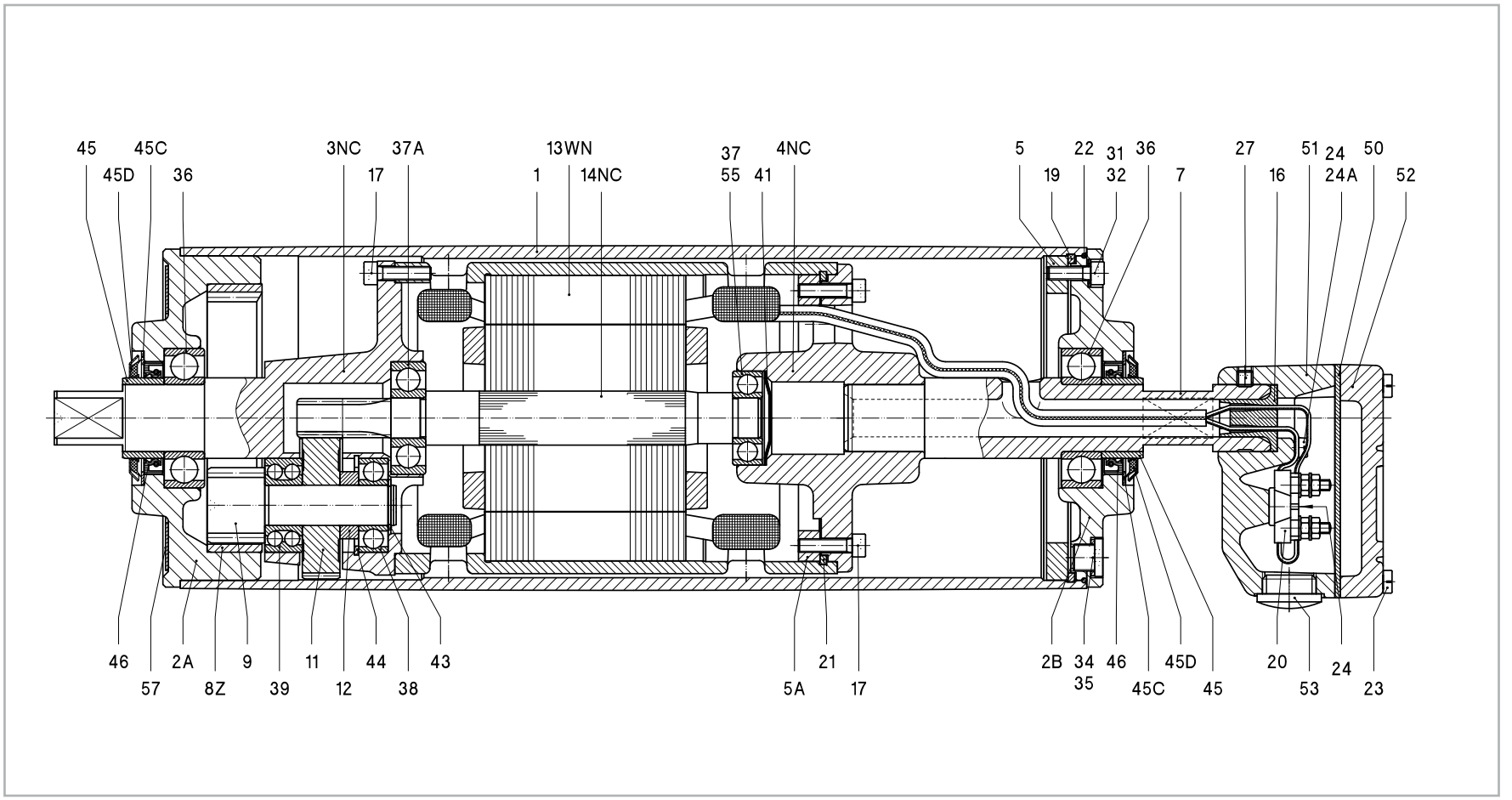


Option 4

Open cable exit (minimum facewidth increases with 25 mm)



TM 127A25 Z

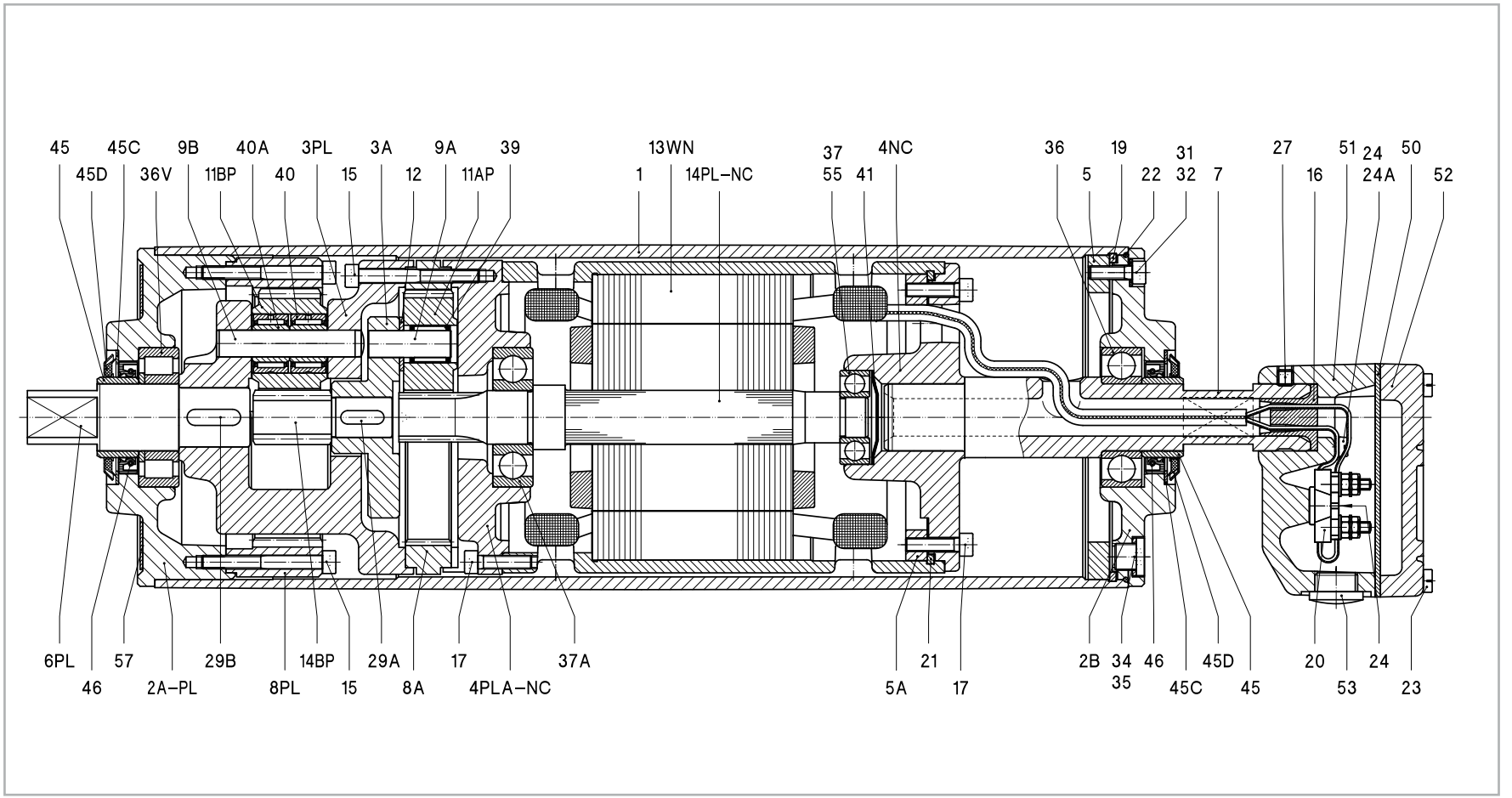


Remark: Drummotor also available in B-design (TM127B25 Z)

Legende

1	Shell	11	Gear	23	Cyl. head screw	37A	Ballbearing	50	Seal
2A	Endflang	12	Distance ring	24	Cyl. head screw	38	Ballbearing	51	Junctionbox
2B	Endflang	13WN	Stator	24A	Toothed lock washer	39	Double-row ballbearing	52	Junctionbox cover
3NC	Gearhousing	14NC	Rotor	27	Setscrew	41	Locking disc	53	Stopping plug
4NC	Motorflang	16	Cable passage	31	Int. hex screw	43	Circlip	55	Ballbearing incl.
5	Mountingring	17	Int. hex screw	32	Washer	44	Circlip		backstop
5A	Mountingring	19	Springring	34	Fillerplug	45	Bearing race	57	Dataplate
7	Hollow shaft	20	Terminalboard	35	Washer	45C	Shim plated		
8Z	Internal gear	21	Springring	36	Ballbearing	45D	Gammaring		
9	Pinion	22	O-ring	37	Ballbearing	46	Oilseal		

TM 127A25 PL2

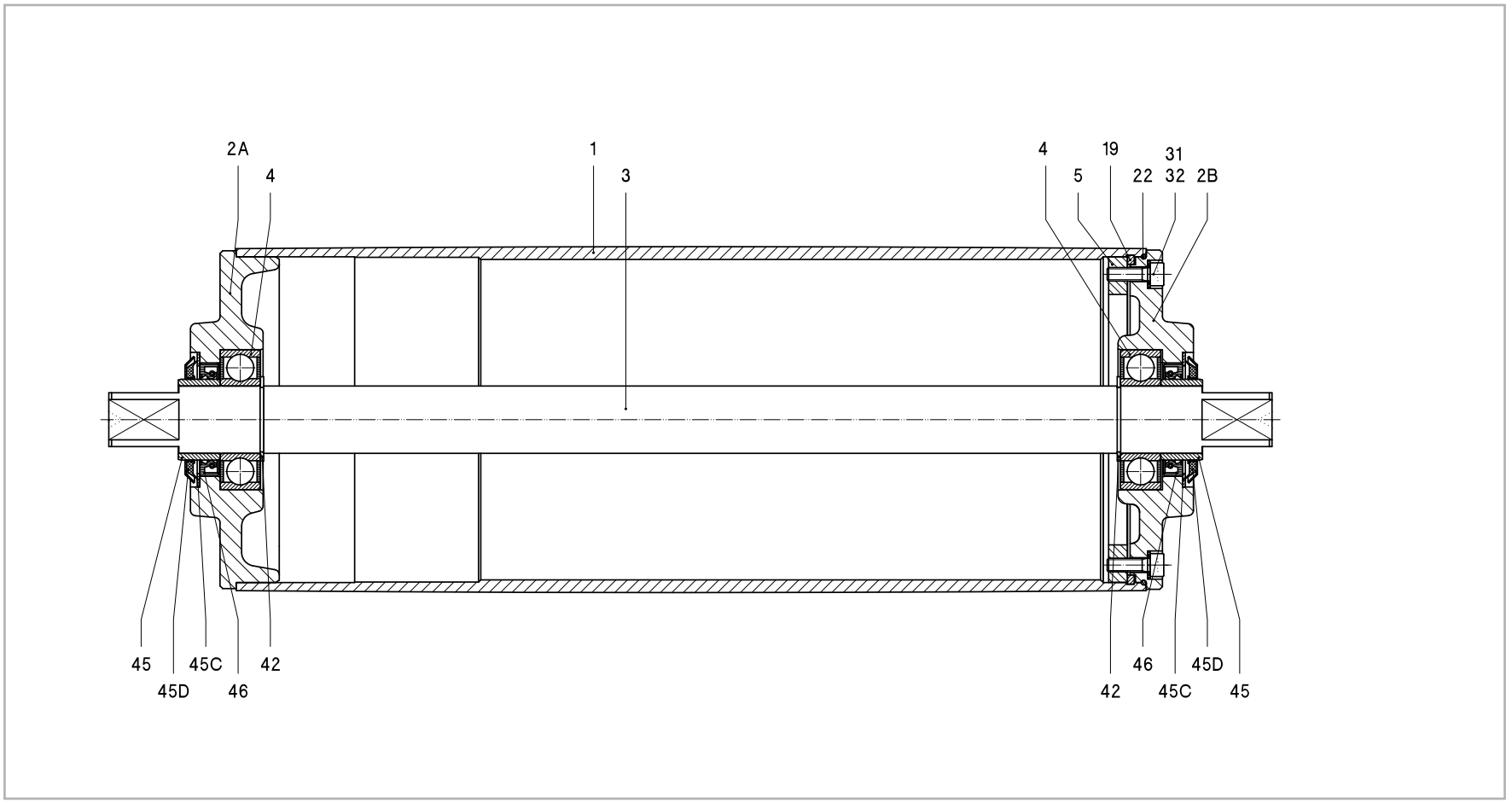


Remark: Drummotor also available in B-design (TM127B25 PL2)

Legende

1	Shell	8PL	Internal gear	19	Springring	34	Fillerplug	45D	Gammaring
2A-PL	Endflang	9A	Cylindrical pin	20	Terminalboard	35	Washer	46	Oilseal
2B	Endflang	9B	Cylindrical pin	21	Springring	36	Ballbearing	50	Seal
3A	Planetary carrier	11AP	Planetary gear	22	O-ring	36V	Cyl. roller bearing	51	Junctionbox
3PL	Planetary housing	11BP	Planetary gear	23	Cyl. head screw	37	Ballbearing	52	Junctionbox cover
4NC	Motorflang	12	Shim	24	Cyl. head screw	37A	Ballbearing	53	Stopping plug
4PLA-NC	Motorflang	13WN	Stator	24A	Toothed lock washer	39	Neadlebearing	55	Ballbearing incl. backstop
5	Mountingring	14PL-NC	Rotor	27	Setscrew	40	Neadlebearing		
5A	Mountingring	14BP	Sunwheeln	29A	Key	40A	Innerring	57	Dataplate
6PL	Shaftend	15	Int. hex screw	29B	Key	41	Locking disc		
7	Hollow shaft	16	Cable passage	31	Int. hex screw	45	Bearing race		
8A	Internal gear	17	Int. hex screw	32	Washer	45C	Shim plated		

KT 127A25



Remark: Taildrum also available in B-design (KT127B25)

Legende

1	Shell	5	Mountingring	42	Circlip
2A	Endflang	19	Springring	45	Bearing race
2B	Endflang	22	O-ring	45C	Shim plated
3	Shaft	31	Int. hex screw	45D	Gammaring
4	Ballbearing	32	Washer	46	Oilseal

Trommelmotoren / *Drummotors*

TM 138-25

KRAUTER®

ELEKTROMASCHINEN

TYPE TM 138.25	Power kW	Beltspeed m/s at 50 Hz Beltpull N							Min. L mm Design A	Min. L mm Design B	Full load curr. 400 V - 50 Hz I = ... A	Weight kg L=350
415 Z	**1,10**	**1,40** 745	**1,10** 950	**0,90** 1160	**0,55** 1925				350	350	2,8	23
210 Z	**0,75**	**2,80** 255	**2.20** 325	**1,80** 395					300	325	1,4	22
410 Z	**0,75**	**1,40** 510	**1,10** 650	**0,90** 790	**0,70** 1015	**0,55** 1295			300	325	1,9	22
410 PL2		**0,32** 2155	**0,26** 2655	**0,22** 3135	**0,17** **3800**				350	375		
275 Z	**0,55**	**2,80** 185	**2,20** 240	**1,80** 290					275	300	1,1	20
475 Z	**0,55**	**1,40** 375	**1,10** 475	**0,90** 580	**0,70** 745	**0,55** 950	**0,45** 1160		275	300	1,3	20
475 PL2		**0,32** 1580	**0,26** 1945	**0,22** 2300	**0,17** 2975				325	350		
405 Z	**0,37**	**1,40** 250	**1,10** 320	**0,90** 390	**0,70** 500	**0,55** 640	**0,45** 780	**0,35** 1005	275	300	1,0	19
405 PL2		**0,22** 1545	**0,17** 2000						325	350		
405 PL3		**0,050** **3800**	**0,039** **3800**	**0,033** **3800**	**0,026** **3800**				375	400		
605 Z	**0,37**	**0,27** 1300							275	300	1,1	20
605 PL2		**0,15** 2270	**0,12** 2835						325	350		
434 Z	**0,25**	**1,40** 170	**1,10** 215	**0,90** 265	**0,70** 340	**0,55** 430	**0,45** 530	**0,35** 680	250	275	0,7	18
834 Z	**0,25**	**0,27** 880	**0,22** 1080	**0,17** 1395					275	300	1,0	20
834 PL2		**0,13** 1770	**0,11** 2090	**0,09** 2555					325	350		
834 PL3		**0,025** **3800**	**0,019** **3800**	**0,016** **3800**	**0,013** **3800**				375	400		
825 Z	**0,18**	**0,27** 635	**0,22** 775	**0,17** 1005					275	300	0,8	19
818 Z	**0,13**	**0,27** 455	**0,22** 560	**0,17** 725					250	275	0,6	18
1218 Z	**0,13**	**0,13** 950	**0,11** 1125						300	325	0,9	22
1218 PL2		**0,09** 1330	**0,08** 1495	**0,06** 1995					350	375		
1218 PL3		**0,016** **3800**	**0,013** **3800**	**0,011** **3800**	**0,009** **3800**				400	450		
1213 Z	**0,10**	**0,13** 730	**0,11** 865						275	300	0,6	20

Available standard facewidth's: 250 - 275 - 300 - 325 - 350 - 375 - 400 - 450 - 500 - 550 - 600 - 650 - 700 - 750 - 800 - 850 - 900 - 950 - 1000 mm
When an electro-mechanical brake is fitted, the minimum facewidth is increased b 75 mm
The total weight of a Drummotor grows approx. 2,0 kg per 100 mm
Maximum beltpull: 3800 N (Imax on request or on data plate)
Available torque: (Beltpull N x drum diameter m) / 2 Nm

Selection table Dahlander motors

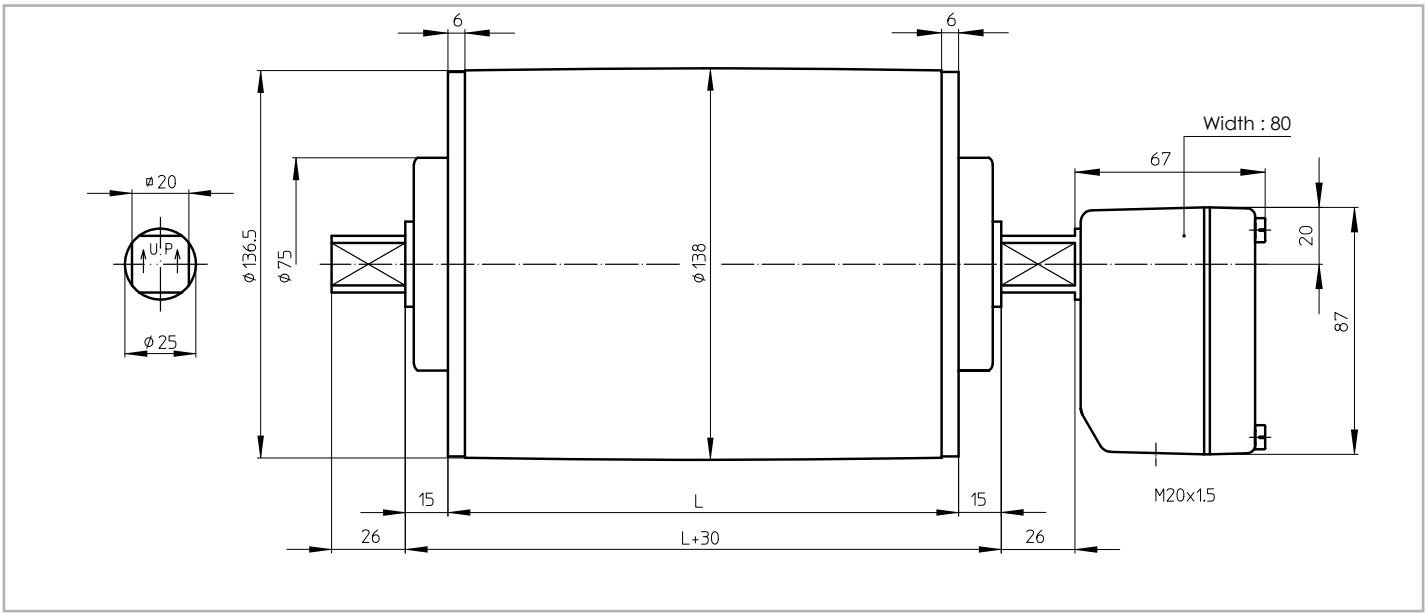
TYPE TM 127.25	Power kW	Beltspeed m/s at 50 Hz Beltpull N							Min. L mm Design A	Min. L mm Design B	Full load curr. 400 V - 50 Hz I = ... A	Weight kg L=350
475/210 Z	**0,55/0,75**	**1,40/2,80** 375/255	**1,10/2,20** 475/325	**0,90/1,80** 580/395	**0,70/1,40** 745/510	**0,55/1,10** 950/650	**0,45/0,90** 1160/790		300	325	1,4/1,7	22
437/275 Z	**0,27/0,55**	**1,40/2,80** 185	**1,10/2,20** 240	**0,90/1,80** 290	**0,70/1,40** 375	**0,55/1,10** 475	**0,45/0,90** 580	**0,35/0,70** 745	275	300	0,9/1,3	20
825/405 Z	**0,18/0,37**	**0,35/0,70** 500	**0,27/0,54** 650	**0,22/0,44** 800	**0,17/0,34** 1035				275	300	1,0/0,9	20
825/405 PL2		**0,13/0,26** 1310	**0,11/0,22** 1545	**0,09/0,18** 1890					325	350		
825/405 PL3		**0,025/0,050** **3800**	**0,020/0,040** **3800**	**0,017/0,034** **3800**	**0,013/0,026** **3800**				375	400		

Available standard facewidth's: 275 - 300 - 325 - 350 - 375 - 400 - 450 - 500 - 550 - 600 - 650 - 700 - 750 - 800 - 850 - 900 - 950 - 1000 mm
When an electro-mechanical brake is fitted, the minimum facewidth is increased b 75 mm
The total weight of a Drummotor grows approx. 1,5 kg per 100 mm
Maximum beltpull: 3800 N (Imax on request or on data plate)
Available torque: (Beltpull N x drum diameter m) / 2 Nm

Dimensions Drummotors mild steel

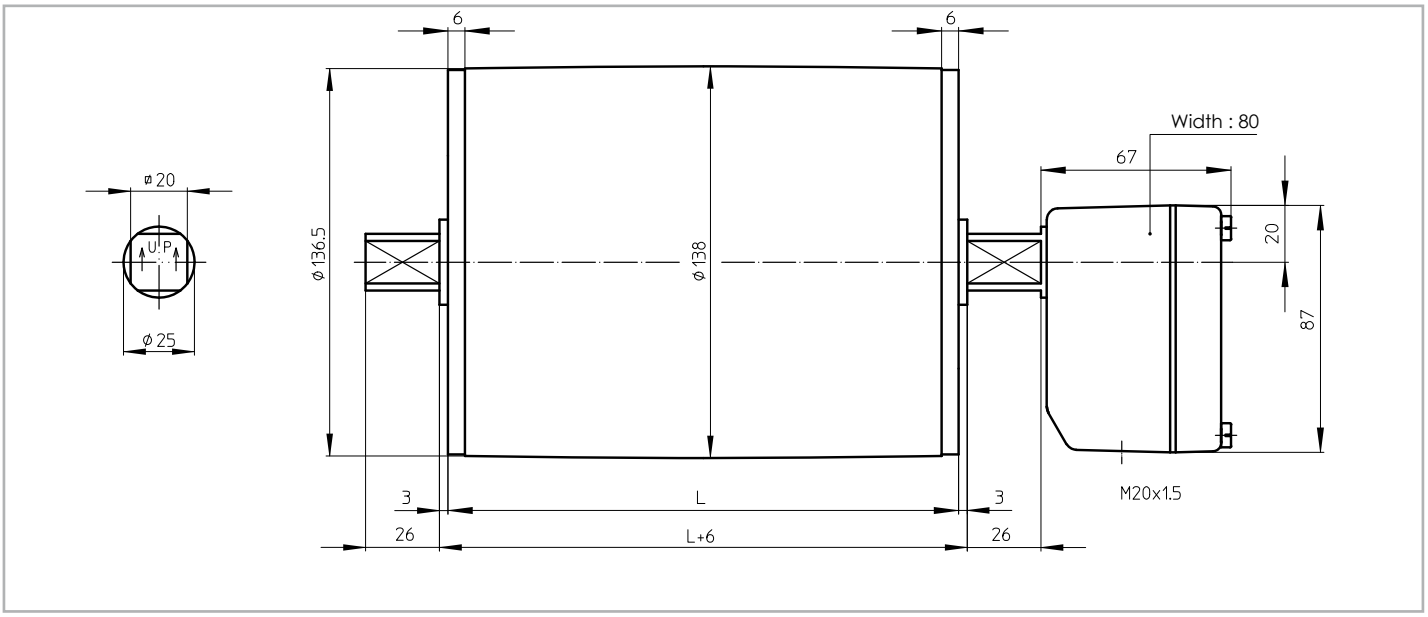
TM 138A25

TM 138A25, mild steel Drummotor with cast iron junctionbox



TM 138B25

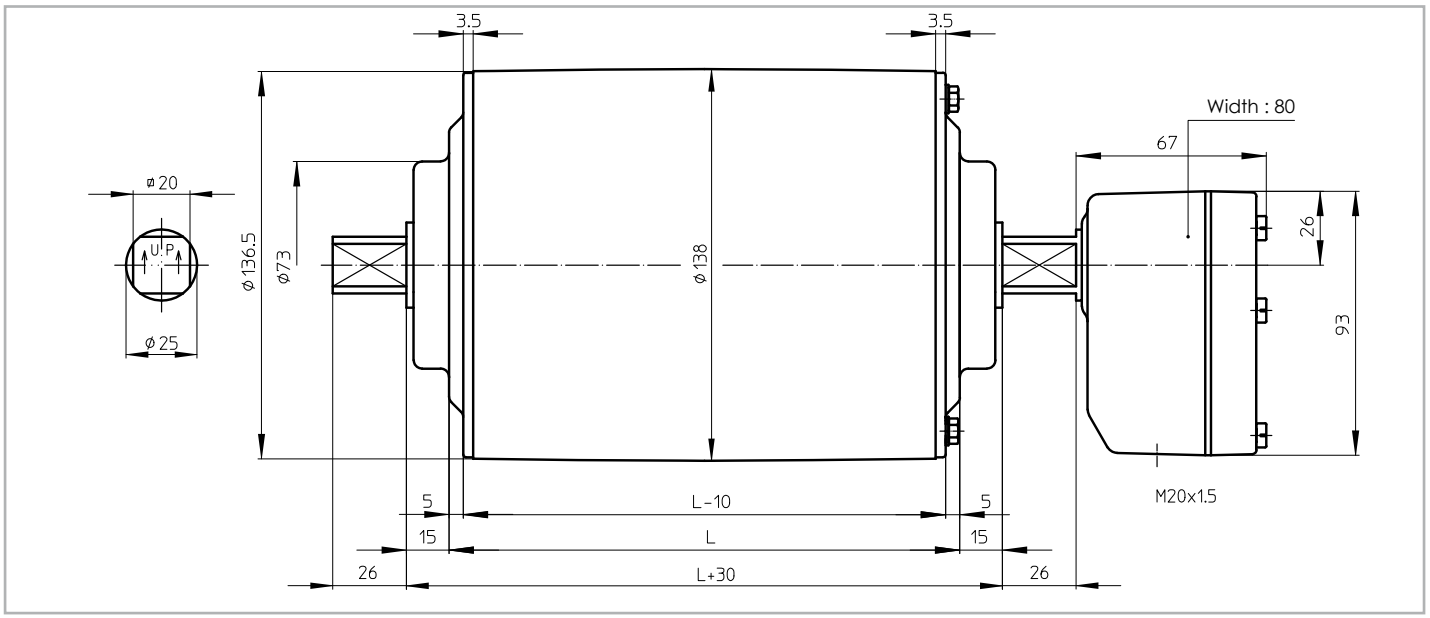
TM 138B25, mild steel Drummotor with cast iron junctionbox



Dimensions Drummotors stainless steel

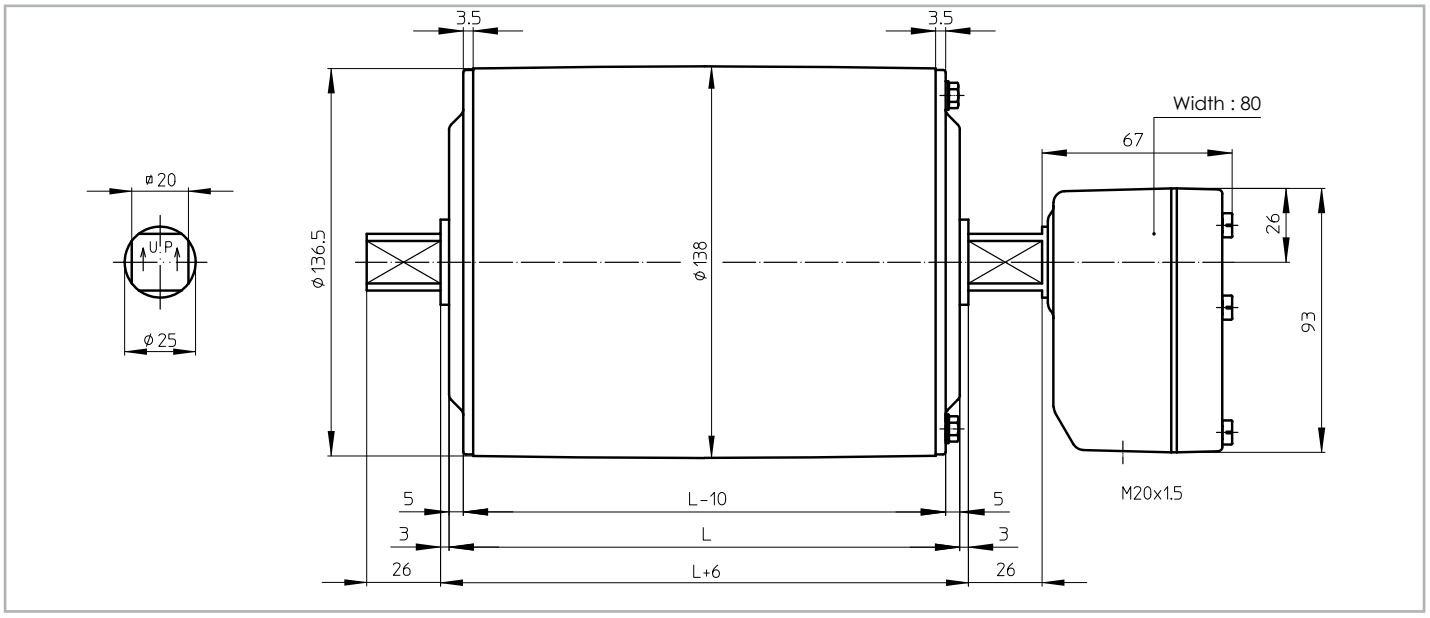
TM 138A25 CR

TM 138A25 CR, stainless steel Drummotor with polyamide junctionbox and CR sealing



TM 138B25 CR

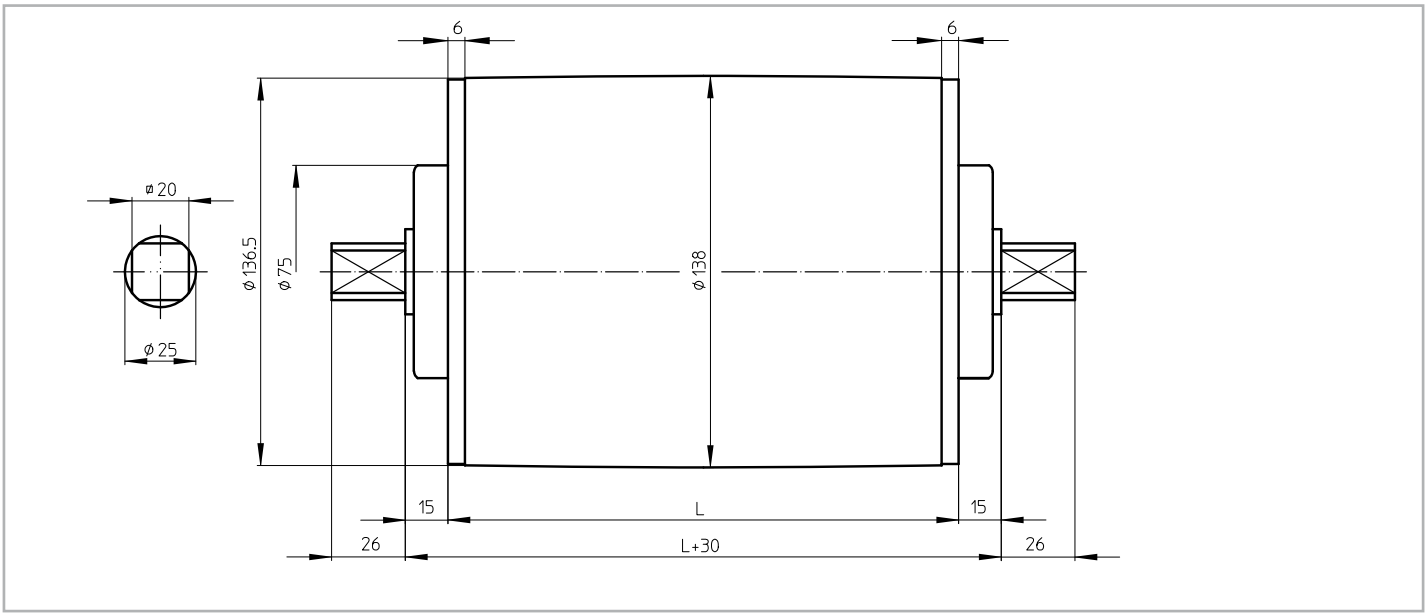
TM 138B25 CR, stainless steel Drummotor with polyamide junctionbox and CR sealing



Dimensions Taildrums mild steel

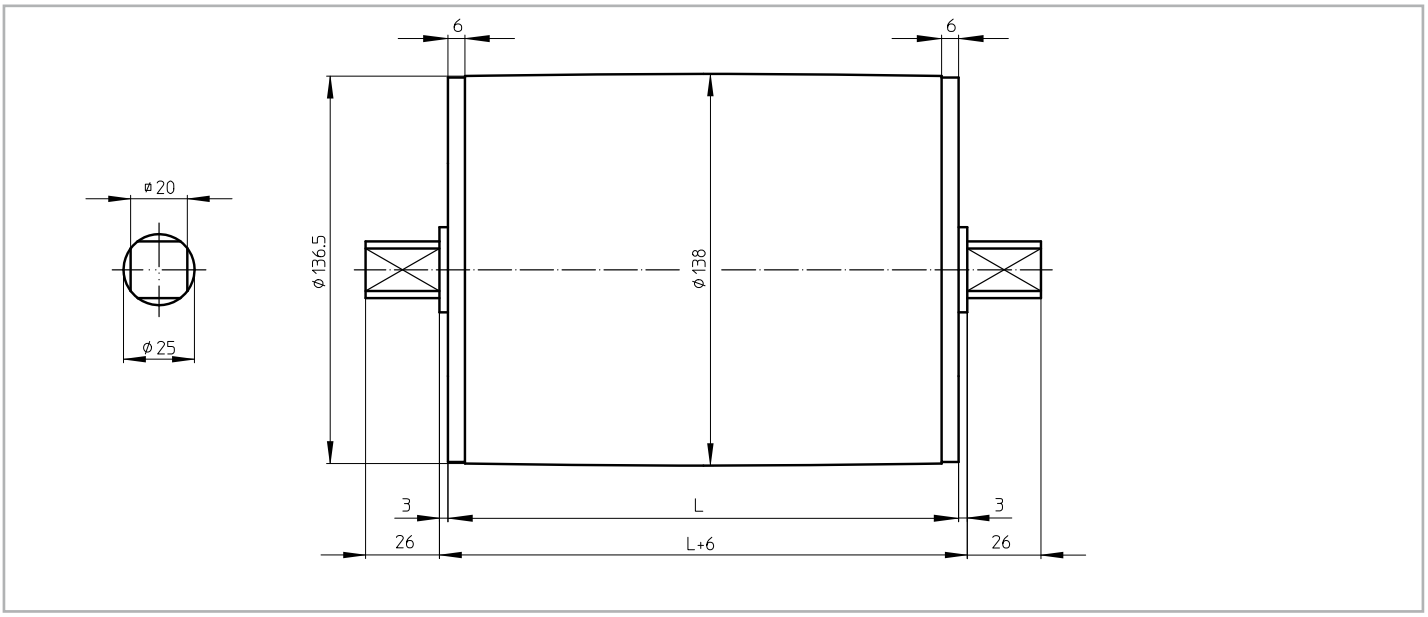
KT 138A25

KT 138A25, mild steel Taildrum



KT 138B25

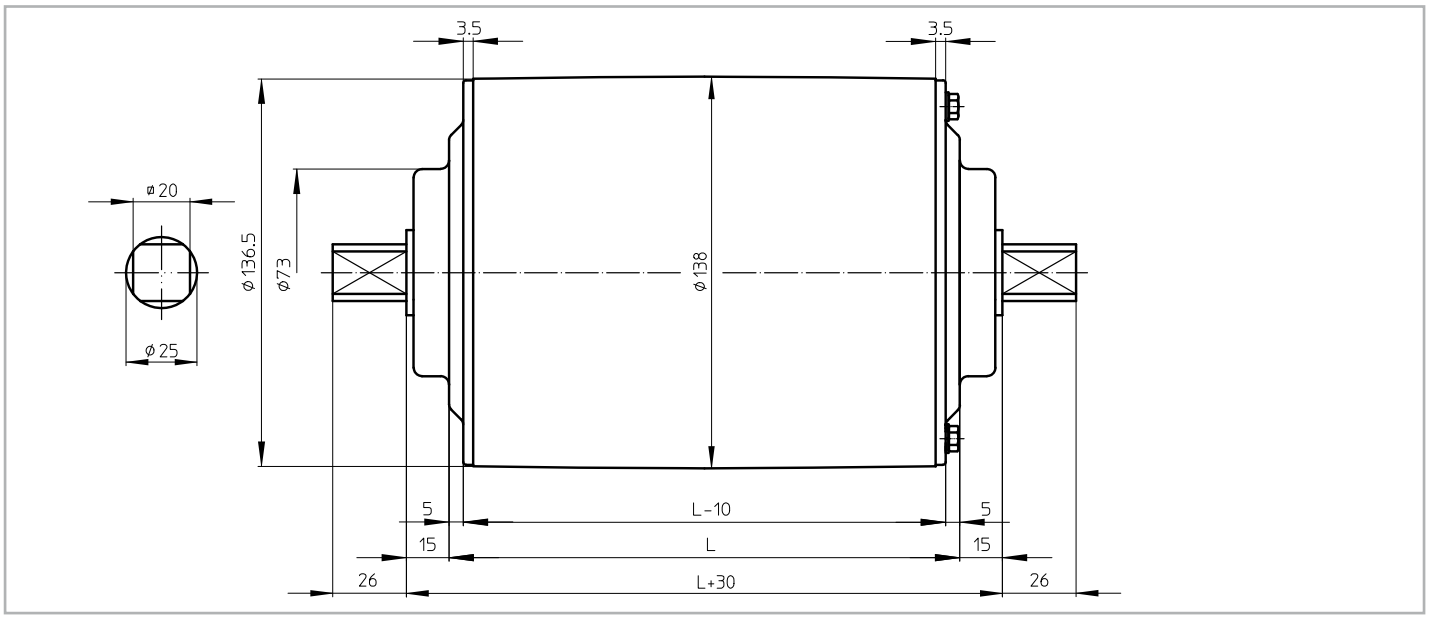
KT 138B25, mild steel Taildrum



Dimensions Taildrums stainless steel

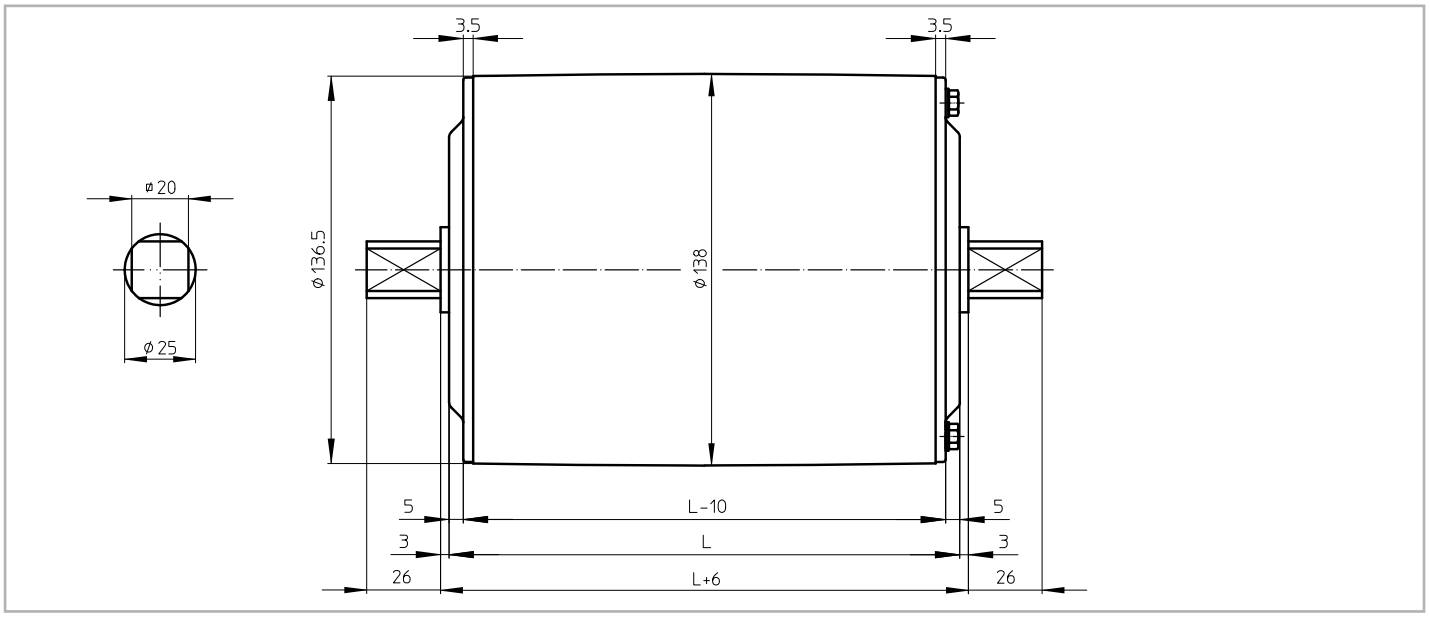
KT 138A25 CR

KT 138A25 CR, stainless steel Taildrum with CR sealing



KT 138B25 CR

KT 138B25 CR, stainless steel Taildrum with CR sealing

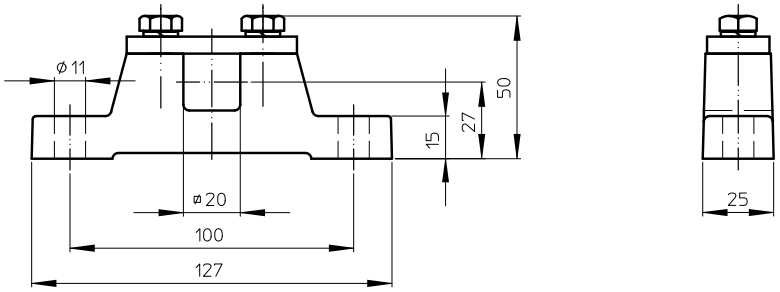


Dimensions bracket

AB 25

AB 25, cast iron or stainless steel bracket

Weight: 1,2 kg per pair



Cable exit

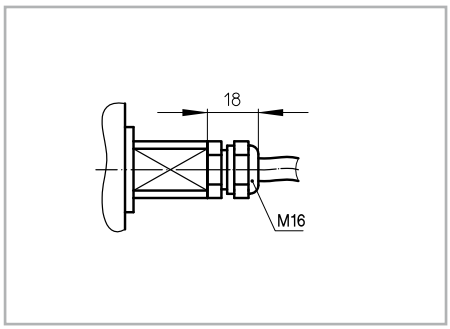
Standard design of a TM 138-25 is with a cast iron junctionbox. For stainless steel design, this can be either a polyamide or stainless steel junctionbox.

On request a Drummotor can be fitted with a cable. In this case it is important to know the available voltage (preferably 1 voltage), the length of the cable, whether the cable is shielded or not and the type of cable exit.

An overview of available cable exits is shown below.

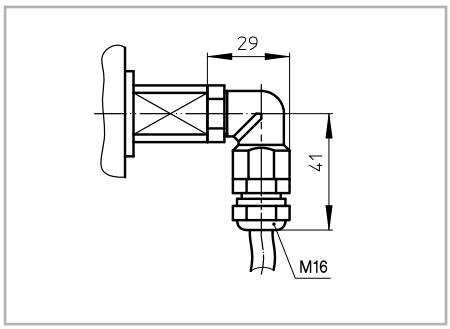
Option 1

Straight cable exit with cable gland



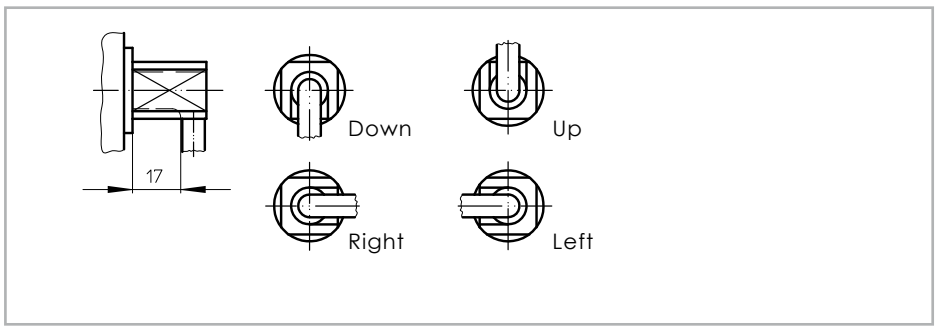
Option 3

Elbow cable exit with cable gland
(minimum facewidth increases with 25 mm)

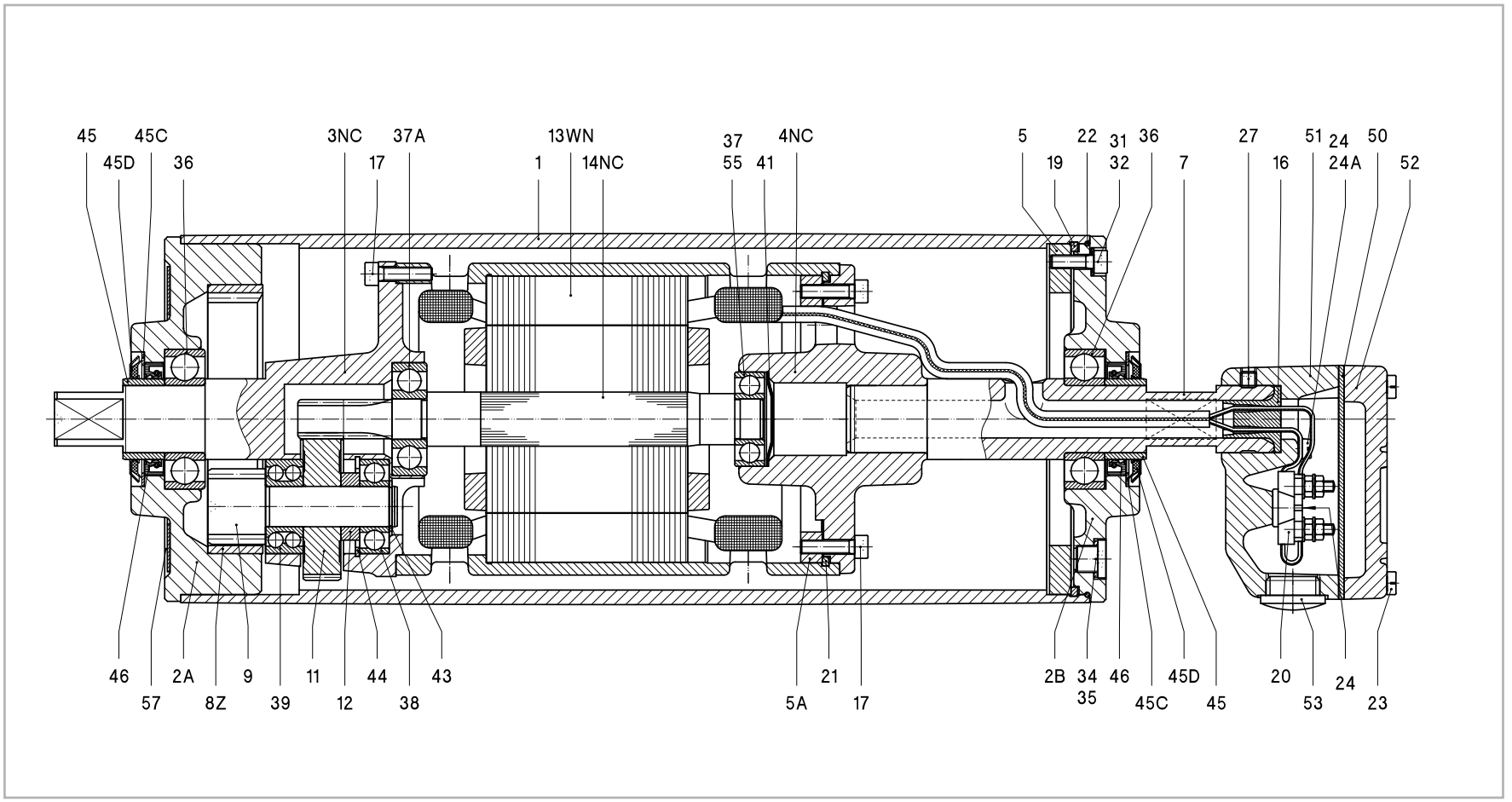


Option 4

Open cable exit (minimum facewidth increases with 25 mm)



TM 138A25 Z

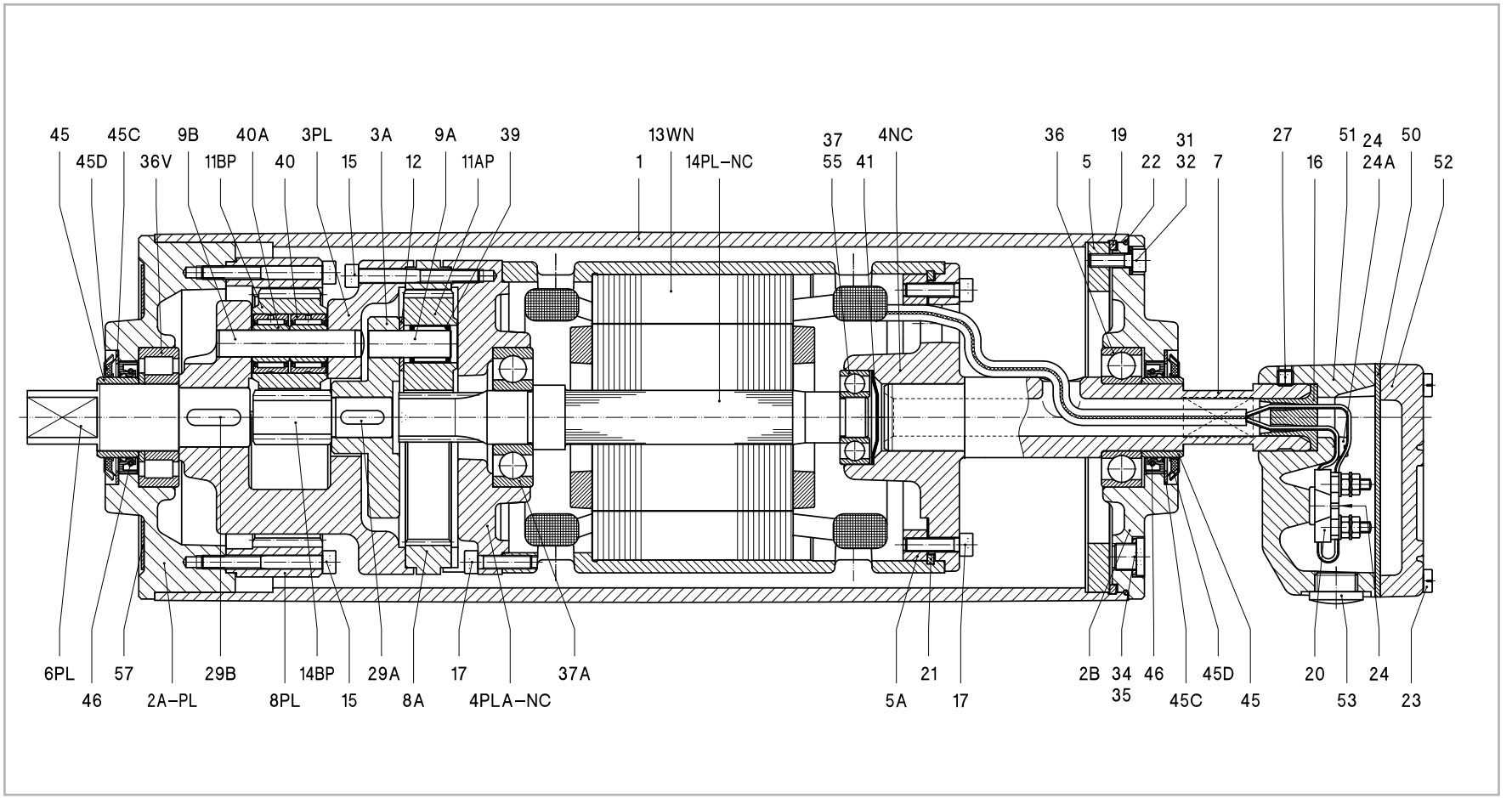


Remark: Drummotor also available in B-design (TM138B25 Z)

Legenda

1	Shell	11	Gear	23	Cyl. head screw	37A	Ballbearing	50	Seal
2A	Endflang	12	Distance ring	24	Cyl. head screw	38	Ballbearing	51	Junctionbox
2B	Endflang	13WN	Stator	24A	Toothed lock washer	39	Double-row ballbearing	52	Junctionbox cover
3NC	Gearhousing	14NC	Rotor	27	Setscrew	41	Locking disc	53	Stopping plug
4NC	Motorflang	16	Cable passage	31	Int. hex screw	43	Circlip	55	Ballbearing incl.
5	Mountingring	17	Int. hex screw	32	Washer	44	Circlip		backstop
5A	Mountingring	19	Springring	34	Fillerplug	45	Bearing race	57	Dataplate
7	Hollow shaft	20	Terminalboard	35	Washer	45C	Shim plated		
8Z	Internal gear	21	Springring	36	Ballbearing	45D	Gammaring		
9	Pinion	22	O-ring	37	Ballbearing	46	Oilseal		

TM 138A25 PL2

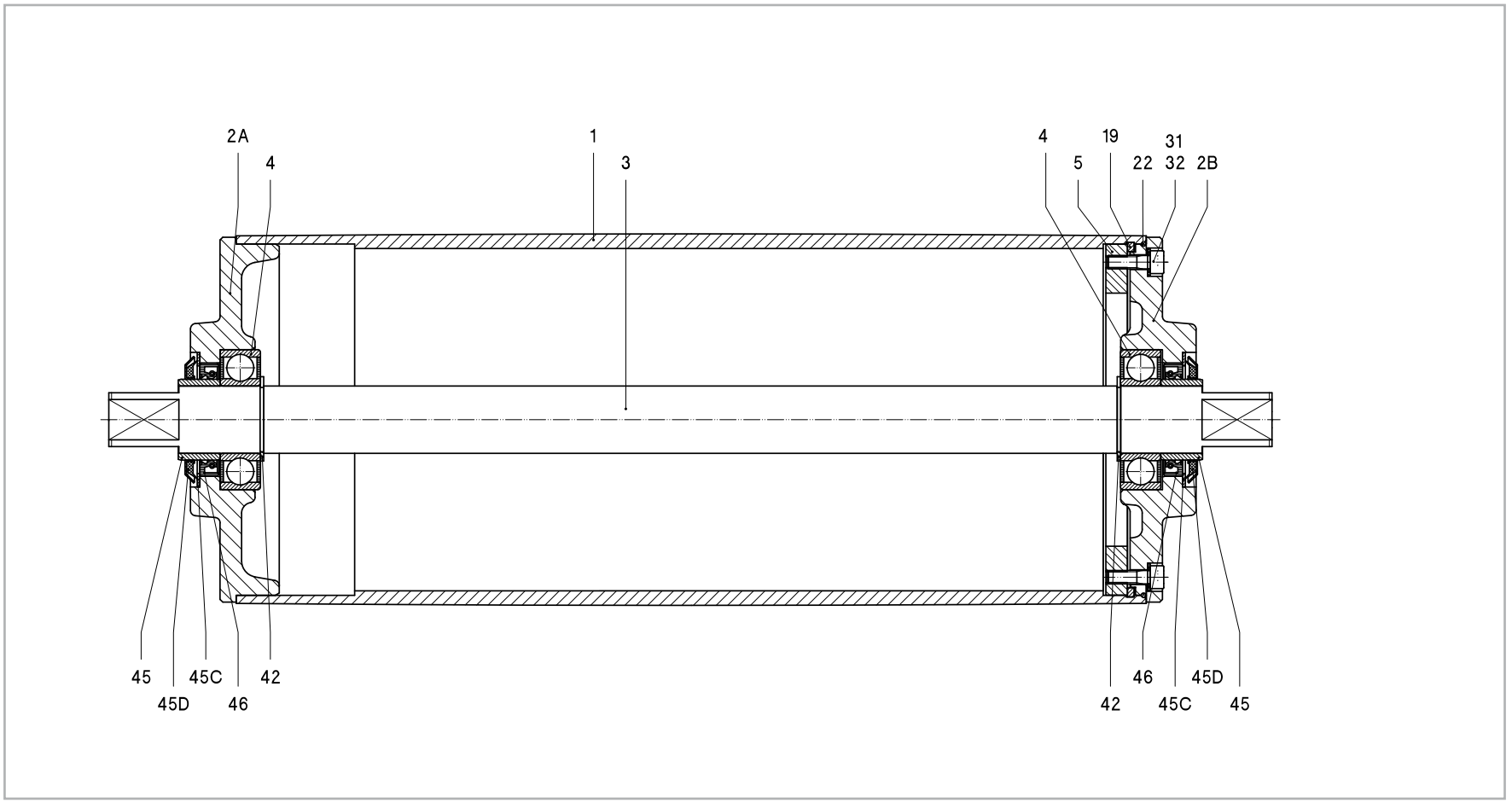


Remark: Drummotor also available in B-design (TM138B25 PL2)

Legende

1	Shell	8PL	Internal gear	19	Springring	34	Fillerplug	45D	Gammaring
2A-PL	Endflang	9A	Cylindrical pin	20	Terminalboard	35	Washer	46	Oilseal
2B	Endflang	9B	Cylindrical pin	21	Springring	36	Ballbearing	50	Seal
3A	Planetary carrier	11AP	Planetary gear	22	O-ring	36V	Cyl. roller bearing	51	Junctionbox
3PL	Planetary housing	11BP	Planetary gear	23	Cyl. head screw	37	Ballbearing	52	Junctionbox cover
4NC	Motorflang	12	Shim	24	Cyl. head screw	37A	Ballbearing	53	Stopping plug
4PLA-NC	Motorflang	13WN	Stator	24A	Toothed lock washer	39	Neadlebearing	55	Ballbearing incl.
5	Mountingring	14PL-NC	Rotor	27	Setscrew	40	Neadlebearing		backstop
5A	Mountingring	14BP	Sunwheel	29A	Key	40A	Innerring	57	Dataplate
6PL	Shaftend	15	Int. hex screw	29B	Key	41	Locking disc		
7	Hollow shaft	16	Cable passage	31	Int. hex screw	45	Bearing race		
8A	Internal gear	17	Int. hex screw	32	Washer	45C	Shim plated		

KT 138A25



Remark: Taildrum also available in B-design (KT138B25)

Legende

1	Shell	5	Mountingring	42	Circlip
2A	Endflang	19	Springring	45	Bearing race
2B	Endflang	22	O-ring	45C	Shim plated
3	Shaft	31	Int. hex screw	45D	Gammaring
4	Ballbearing	32	Washer	46	Oilseal