



HYGIENIC DESIGN MOTORS

STOCK CATALOGUE

BeTech

CLEAN-GEARTECH

BETECH EXPERTS IN INDUSTRIAL DRIVES

The first thing you notice about Clean-Geartech is the eye-catching nature of their products. With a dedication to research and development activities, Clean-Geartech have designed a range specifically to meet the needs of demanding industries like food and beverage, meat and poultry processing, fish and seafood production and pharmaceuticals. The range is continually reviewed and improved to offer the customer the very best choice when they want to improve the hygiene of their application.

Clean-Geartech produce a range of hygienic design motors to suit the application, proximity to the processing product and budget. With smooth bodied aluminium to full AISI 316L stainless steel, the motors offer significant advantages in terms of reliability and hygiene over standard painted motors.

As always, if there is anything we can help with, please do not hesitate to contact our friendly team!





Cut out corrosion with hygienic design motors

CLEAN-GEARTECH

- IP69K Degree of protection
- Corrosion resistant and food safe
- IE4 Motor Efficiency
- CE, NSF, cURus
- Inverter Duty

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BETECH EXPERTS IN INDUSTRIAL DRIVES

Betech are a distributor of world class industrial drives, driven to provide our customers with amazing service and support.

Betech are an established nationwide distributor of electric motors, gearboxes and geared motors, variable speed drives, automation and electromagnetic clutches and brakes. We are a key partner of numerous leading manufacturers, who have a reputation for providing exceptional quality products trusted on the most demanding applications.

We focus on offering the best possible service to our customers. We provide the fast enquiry response, technical support and advice, huge stock availability and reliable logistics that our resale and OEM customers demand in order to collectively meet and exceed the expectations of end users.



WHY BETECH?

CLEAN-GEARTECH



CUSTOMER SERVICE AND SUPPORT

Our dedicated and friendly team are always on hand to provide a rapid response to your enquiries, providing the support you need to service your customer.



PRODUCT KNOWLEDGE AND EXPERIENCE

Industrial drives are our speciality, whether it's help making a selection for a new application or assistance replacing a failed unit. We invest in regular training to ensure our team know their product.



STOCK HOLDING AND FAST DELIVERY

When it comes to stock, we have you covered. We have a huge inventory of motors, gearboxes and variable speed drives available for fast same or next day delivery.



PRODUCT QUALITY AND WARRANTY

All Clean-GearTech products are inspected, before being packed with care to ensure quality. They are provided with a minimum 12 month manufacturers warranty.

OUR PARTNERS



BALDOR • RELIANCE



CLEAN-GEARTECH



SPRINT ELECTRIC



MOTORS OVERVIEW

SPM SERIES - STAINLESS STEEL MOTORS

The SPM motor series offers the best protection. Fully constructed in 316L stainless steel and being completely smooth, it is the best solution for strict hygiene processes such as food and beverage industries, in order to avoid bacterial contamination as well as downtime.

The food safe motors are easy to clean, resistant to rust and corrosion. They can be subjected to high pressure, hot water washdown, unlike standard aluminium based products which will fail much faster.

APPLICATIONS

Best suited for applications that come into direct contact with processing product and are subjected to regular sanitisation procedures, in areas such as such as meat and poultry, fish and seafood processing, fruit and vegetables, dairy production, beverages, bakery applications and marine.

FEATURES

- IEC Frame sizes 63-100
- IE4 Motor Efficiency & Inverter Rated
- 2, 4 or 6 Poles
- B14, B5 or B3 foot mounting
- Hygienic cable gland
- PTO Thermal Protection
- Options include PTC Thermistor, Motor Heaters, Encapsulated Windings, Radial position Cable Gland



Two Pole Motors							
Power	Frame	Rated Current	Speed	Torque	B14 Part Code	B5 Part Code	B3 Part Code
0.18 kW	63A	0.45 A	2890	0.6 Nm	SPMBKD2JTEN	-	SPMBKD2PTEN
0.25 kW	63B	0.58 A	2895	0.84 Nm	SPMBKE2JTEN	-	SPMBKE2PTEN
0.37 kW	71A	0.85 A	2930	1.23 Nm	SPMCKF2JTEN	SPMCKF2GTEN	SPMCKF2PTEN
0.55 kW	71B	1.24 A	2910	1.85 Nm	SPMCKG2JTEN	SPMCKG2GTEN	SPMCKG2PTEN
0.75 kW	80A	1.52 A	2900	2.45 Nm	SPMDKH2JTEN	SPMDKH2GTEN	SPMDKH2PTEN
1.1 kW	80B	2.10 A	2910	3.6 Nm	SPMDKI2JTEN	SPMDKI2GTEN	SPMDKI2PTEN
1.5 kW	90S	3.00 A	2930	4.9 Nm	SPMEKK2JTEN	SPMEKK2GTEN	SPMEKK2PTEN
2.2 kW	90S	4.20 A	2920	7.2 Nm	SPMEKL2JTEN	SPMEKL2GTEN	SPMEKL2PTEN
3 kW	100LA	5.50 A	2910	9.8 Nm	SPMFKM2JTEN	-	SPMFKM2PTEN

Four Pole Motors							
Power	Frame	Rated Current	Speed	Torque	B14 Part Code	B5 Part Code	B3 Part Code
0.12 kW	63A	0.40 A	1445	0.81 Nm	SPMBKC4JTEN	-	SPMBKC4PTEN
0.18 kW	63B	0.48 A	1445	1.21 Nm	SPMBKD4JTEN	-	SPMBKD4PTEN
0.25 kW	71A	0.64 A	1444	1.66 Nm	SPMCKE4JTEN	SPMCKE4GTEN	SPMCKE4PTEN
0.37 kW	71B	0.94 A	1440	2.45 Nm	SPMCKF4JTEN	SPMCKF4GTEN	SPMCKF4PTEN
0.55 kW	80A	1.34 A	1448	3.66 Nm	SPMDKG4JTEN	SPMDKG4GTEN	SPMDKG4PTEN
0.75 kW	80B	1.74 A	1456	4.95 Nm	SPMDKH4JTEN	SPMDKH4GTEN	SPMDKH4PTEN
1.1 kW	90S	2.50 A	1475	7.15 Nm	SPMEKI4JTEN	SPMEKI4GTEN	SPMEKI4PTEN
1.5 kW	90L	3.34 A	1475	9.75 Nm	SPMEKK4JTEN	SPMEKK4GTEN	SPMEKK4PTEN
2.2 kW	100	4.80 A	1445	14.5 Nm	SPMFKL4JTEN	-	SPMFKL4PTEN

Six Pole Motors							
Power	Frame	Rated Current	Speed	Torque	B14 Part Code	B5 Part Code	B3 Part Code
0.18 kW	71A	0.55 A	890	1.95 Nm	SPMCKD6JTEN	SPMCKD6GTEN	SPMCKD6PTEN
0.25 kW	71B	0.75 A	890	2.65 Nm	SPMCKE6JTEN	SPMCKE6GTEN	SPMCKE6PTEN
0.37 kW	80A	1.10 A	890	3.98 Nm	SPMDKF6JTEN	SPMDKF6GTEN	SPMDKF6PTEN
0.55 kW	80B	1.30 A	900	5.3 Nm	SPMDKG6JTEN	SPMDKG6GTEN	SPMDKG6PTEN
0.75 kW	90S	1.70 A	940	7.6 Nm	SPMEKH6JTEN	SPMEKH6GTEN	SPMEKH6PTEN
1.1 kW	90L	2.40 A	950	11.1 Nm	SPMEKI6JTEN	SPMEKI6GTEN	SPMEKI6PTEN



MOTORS OVERVIEW

APM SERIES - ALUMINIUM MOTORS

The APM series of hygienic electric motors from Clean-Geartech provide an upgrade to standard painted three phase motors. The complete smooth body with a protective, high resistance coating is suitable for applications where cold or hot water wash down is used.

This unique product offers a substantial cost saving on a full stainless steel body motor where not required.

FEATURES

- IEC Frame sizes 63-90
- IE4 Motor Efficiency & Inverter Rated
- 2, 4 or 6 Poles
- Hygienic cable gland
- PTO Thermal Protection
- Options include PTC Thermistor, Motor Heaters, Protective RAL7030 painting for salt spray

APPLICATIONS

Best suited for applications that come within the proximity of the processing product and are subjected to more basic sanitisation procedures in areas such as such as meat and poultry, fish and seafood processing, fruit and vegetables, dairy production, beverages, bakery applications and marine.



Two Pole Motors

Power	Frame	Rated Current	Speed	Torque	B14 Part Code
0.18 kW	63A	0.45 A	2890	0.6 Nm	APMBKD2JTEN
0.25 kW	63B	0.58 A	2895	0.84 Nm	APMBKE2JTEN
0.37 kW	71A	0.85 A	2930	1.23 Nm	APMCKF2JTEN
0.55 kW	71B	1.24 A	2910	1.85 Nm	APMCKG2JTEN
0.75 kW	80A	1.52 A	2900	2.45 Nm	APMDKH2JTEN
1.1 kW	80B	2.10 A	2910	3.6 Nm	APMDKI2JTEN
1.5 kW	90S	3.00 A	2930	4.9 Nm	APMEKK2JTEN
2.2 kW	90L	4.22 A	2920	7.2 Nm	APMEKL2JTEN

Four Pole Motors

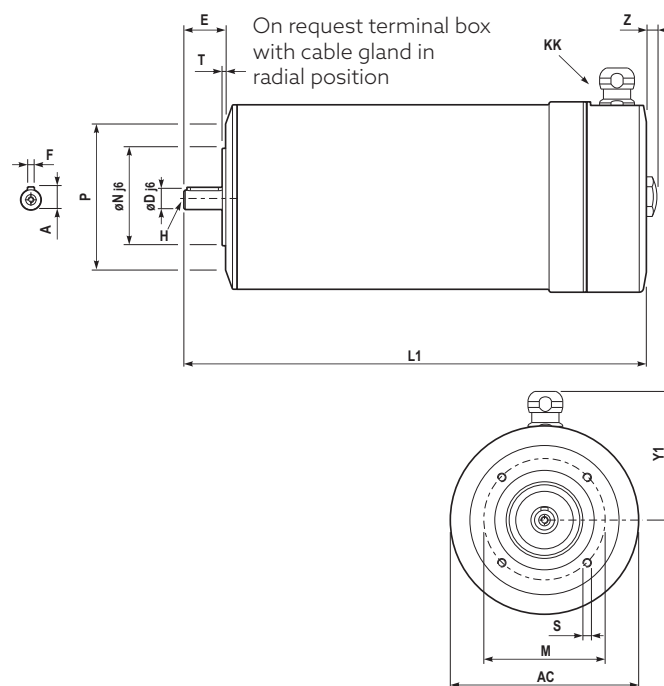
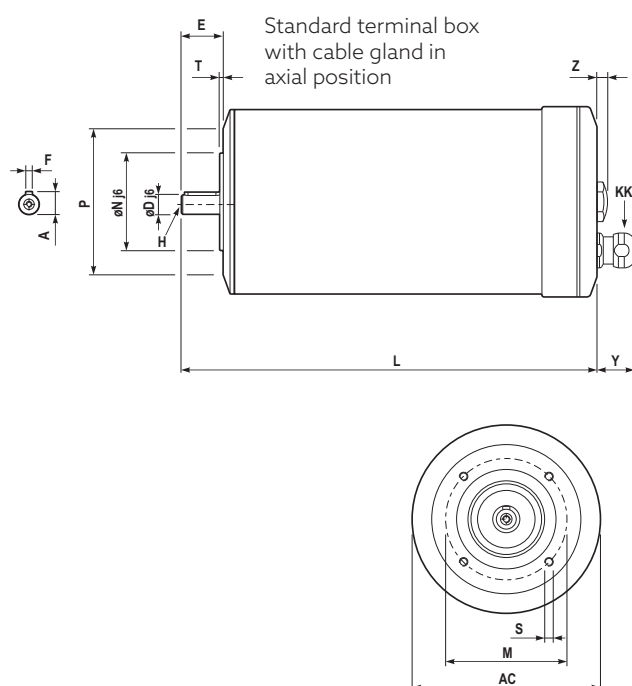
Power	Frame	Rated Current	Speed	Torque	B14 Part Code
0.12 kW	63A	0.40 A	1445	0.81 Nm	APMBKC4JTEN
0.18 kW	63B	0.48 A	1445	1.21 Nm	APMBKD4JTEN
0.25 kW	71A	0.64 A	1444	1.66 Nm	APMCKE4JTEN
0.37 kW	71B	0.94 A	1440	2.45 Nm	APMCKF4JTEN
0.55 kW	80A	1.34 A	1448	3.66 Nm	APMDKG4JTEN
0.75 kW	80B	1.74 A	1456	4.95 Nm	APMDKH4JTEN
1.1 kW	90S	2.50 A	1475	7.15 Nm	APMEKI4JTEN
1.5 kW	90L	3.34 A	1475	9.75 Nm	APMEKK4JTEN

Six Pole Motors

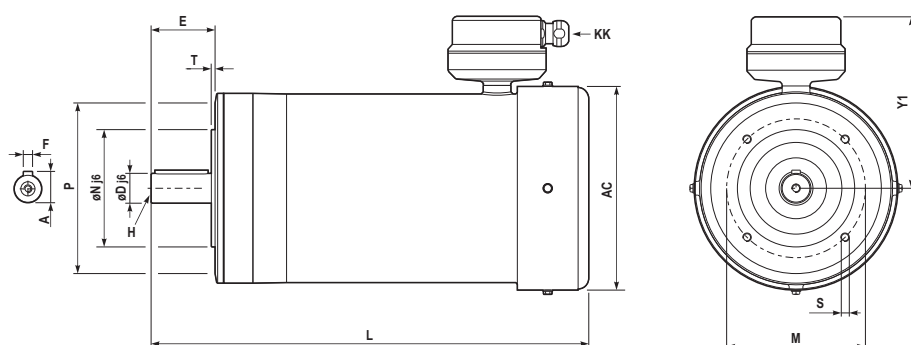
Power	Frame	Rated Current	Speed	Torque	B14 Part Code
0.18 kW	71A	0.55 A	890	1.95 Nm	APMCKD6JTEN
0.25 kW	71B	0.75 A	890	2.65 Nm	APMCKE6JTEN
0.37 kW	80A	1.10 A	890	3.98 Nm	APMDKF6JTEN
0.55 kW	80B	1.30 A	900	5.3 Nm	APMDKG6JTEN
0.75 kW	90S	1.70 A	940	7.6 Nm	APMEKH6JTEN
1.1 kW	90L	2.40 A	950	11.1 Nm	APMEKI6JTEN



B14 DIMENSIONS

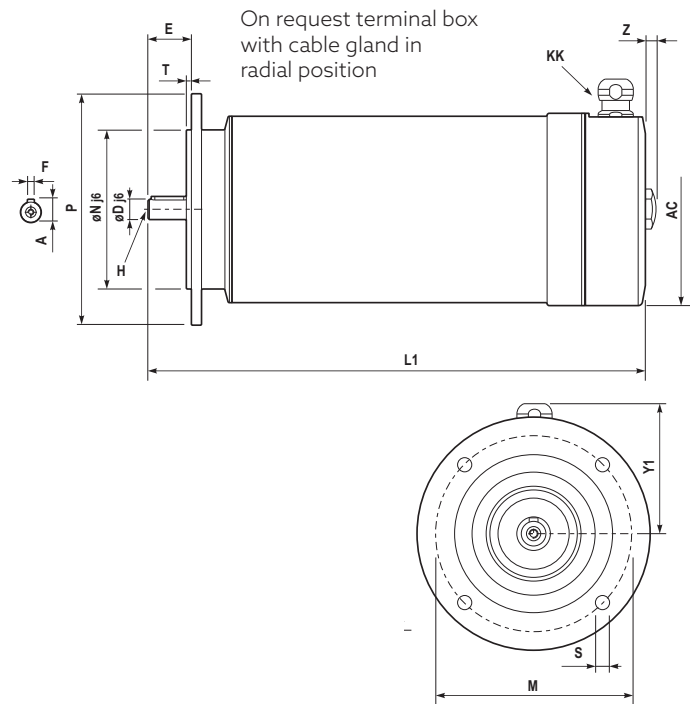
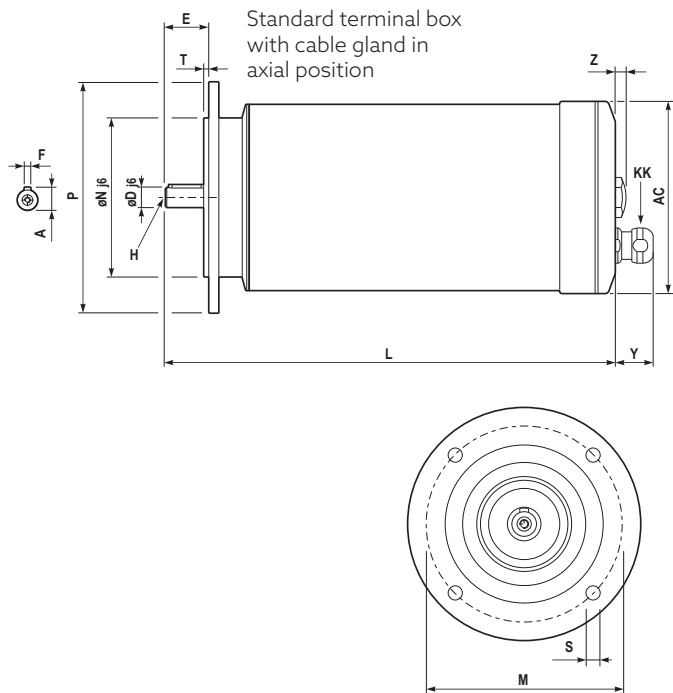


Motor	2 Poles	4 Poles	6 Poles	A	øD j6 H	E	F	L	L1	M	øN j6	P	S	T	AC	KK	Y	Y1	Z
63A 63B	0.18 kW 0.25 kW	0.12 kW 0.18 kW	- -	12.5	ø11 M4x11	23	4	247.5	277	75	60	90	M5x13	2.5	133	M20x1.5	27.5	91.5	7.4
71A 71B	0.37 kW 0.55 kW	0.25 kW 0.37 kW	0.18 kW 0.25 kW	16	ø14 M5x12	30	5	294.5	324	85	70	105	M6x13	2.5	133	M20x1.5	27.5	91.5	7.4
80A 80B	0.75 kW 1.1 kW	0.55 kW 0.75 kW	0.37 kW 0.55 kW	21.5	ø19 M6x16	40	6	340	368.5	100	80	120	M6x13	3	143	M20x1.5	27.5	96.5	7.4
90S 90L	1.5 kW 2.2 kW	1.1 kW 1.5 kW	0.75 kW 1.1 kW	27	ø24 M8x20	50	8	372	401.5	115	95	140	M8x16	3	181	M20x1.5	27.5	116	7.4



Motor	2 Poles	4 Poles	A	øD j6 H	E	F	L	M	øN j6	P	S	T	AC	KK	Y1
100LA	3.0	2.2	31	ø28 M8x20	60	8	410.5	130	110	160	M8x16	3.5	191	M20x1.5	163

B5 DIMENSIONS



Motor	2 Poles	4 Poles	6 Poles	A	ØD j6 H	E	F	L	L1	M	ØN j6	P	S	T	AC	KK	Y	Y1	Z
71A 71B	0.37 kW 0.55 kW	0.25 kW 0.37 kW	0.18 kW 0.25 kW	16	Ø14 M5x12	30	5	314.5	344	130	110	160	Ø10	3.5	133	M20x1.5	27.5	91.5	7.4
80A 80B	0.75 kW 1.1 kW	0.55 kW 0.75 kW	0.37 kW 0.55 kW	21.5	Ø19 M6x16	40	6	340	368.5	165	130	200	Ø12	3.5	143	M20x1.5	27.5	96.5	7.4
90S 90L	1.5 kW 2.2 kW	1.1 kW 1.5 kW	0.75 kW 1.1 kW	27	Ø24 M8x20	50	8	402	431.5	165	130	200	Ø12	3.5	181	M20x1.5	27.5	116	7.4

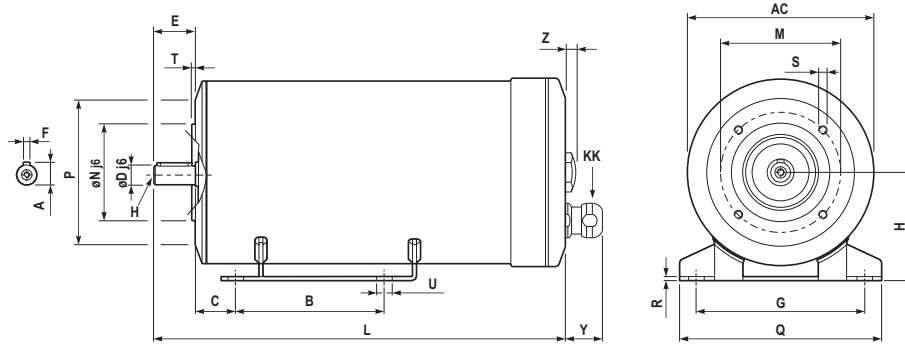
CLEAN GEARTECH ENQUIRY

Need assistance? Call 01924 411 921 or simply complete the relevant enquiry form www.betech.co.uk/contact

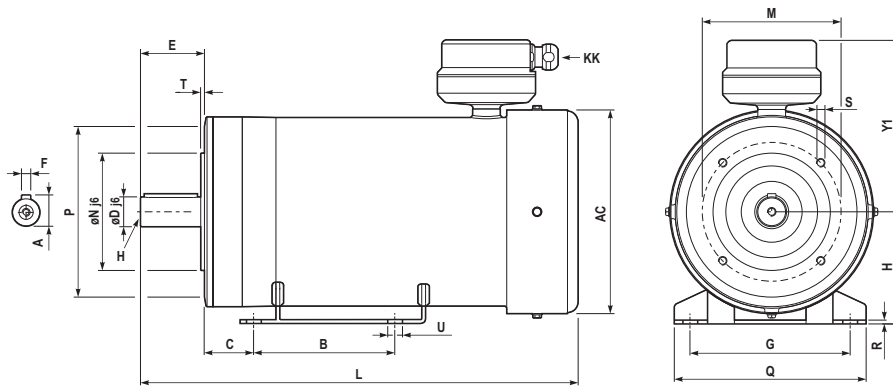
We pride ourselves on being your dedicated industrial drive system experts with decades of invaluable experience within our technical team. Using our extensive knowledge, we are committed to ensuring that your machinery designs and production systems meet and exceed your expectations.

CLEAN-GEARTECH

B3 DIMENSIONS

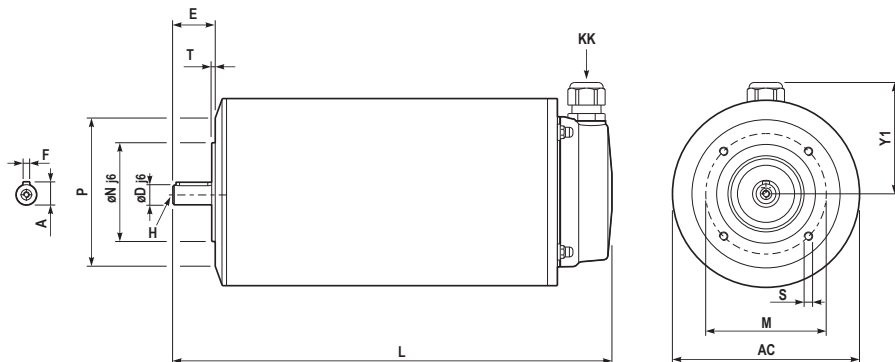


Motor	2 Poles	4 Poles	6 Poles	A	øD j6 H	E	F	L	M	øN j6	P	S	T	AC	KK	Y	Z
63A 63B	0.18 kW 0.25 kW	0.12 kW 0.18 kW	-	12.5	ø11 M4x11	23	4	247.5	75	60	90	M5x13	2.5	133	M20x1.5	27.5	7.4
71A 71B	0.37 kW 0.55 kW	0.25 kW 0.37 kW	0.18 kW 0.25 kW	16	ø14 M5x12	30	5	294.5	85	70	105	M6x13	2.5	133	M20x1.5	27.5	7.4
80A 80B	0.75 kW 1.1 kW	0.55 kW 0.75 kW	0.37 kW 0.55 kW	21.5	ø19 M6x16	40	6	340	100	80	120	M6x13	3	143	M20x1.5	27.5	7.4
90S 90L	1.5 kW 2.2 kW	1.1 kW 1.5 kW	0.75 kW 1.1 kW	27	ø24 M8x20	50	8	372	115	95	140	M8x16	3	181	M20x1.5	27.5	7.4

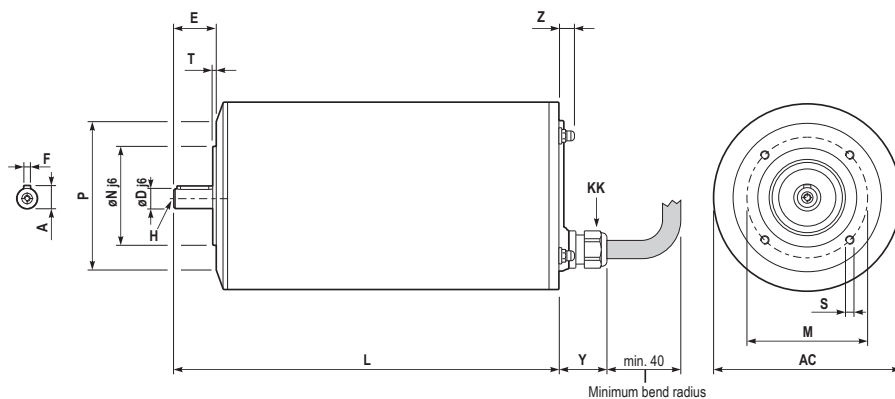


Motor	2 Poles	4 Poles	A	øD j6 H	E	F	L	M	øN j6	P	S	T	AC	KK	Y1
100LA	3.0	2.2	31	ø28 M8x20	60	8	410.5	130	110	160	M8x16	3.5	191	M20x1.5	163

B14 DIMENSIONS



Motor	2 Poles	4 Poles	6 Poles	A	øD j6 H	E	F	L	M	øN j6	P	S	T	AC	KK	Y1
63A 63B	0.18 kW 0.25 kW	0.12 kW 0.18 kW	- -	12.5	ø11 M4x11	23	4	264	75	60	90	M5x14	2.5	133	M20x1.5	78
71A 71B	0.37 kW 0.55 kW	0.25 kW 0.37 kW	0.18 kW 0.25 kW	16	ø14 M5x12	30	5	311	85	70	105	M6x14	2.5	133	M20x1.5	78
80A 80B	0.75 kW 1.1 kW	0.55 kW 0.75 kW	0.37 kW 0.55 kW	21.5	ø19 M6x16	40	6	350.5	100	80	120	M6x15	3	143	M20x1.5	78
90S 90L	1.5 kW 2.2 kW	1.1 kW 1.5 kW	0.75 kW 1.1 kW	27	ø24 M8x20	50	8	386	115	95	140	M8x20	3	181	M20x1.5	97



Motor	2 Poles	4 Poles	6 Poles	A	øD j6 H	E	F	L	M	øN j6	P	S	T	AC	KK	Y	Z
63A 63B	0.18 kW 0.25 kW	0.12 kW 0.18 kW	- -	12.5	ø11 M4x11	23	4	225.5	75	60	90	M5x14	2.5	133	M20x1.5	35	11
71A 71B	0.37 kW 0.55 kW	0.25 kW 0.37 kW	0.18 kW 0.25 kW	16	ø14 M5x12	30	5	272.5	85	70	105	M6x14	2.5	133	M20x1.5	35	11
80A 80B	0.75 kW 1.1 kW	0.55 kW 0.75 kW	0.37 kW 0.55 kW	21.5	ø19 M6x16	40	6	312	100	80	120	M6x15	3	143	M20x1.5	35	11
90S 90L	1.5 kW 2.2 kW	1.1 kW 1.5 kW	0.75 kW 1.1 kW	27	ø24 M8x20	50	8	347.5	115	95	140	M8x20	3	183	M20x1.5	35	11

The new standard for food production



VFN SERIES

VFN Stainless Steel worm gearboxes represent the best solution for resistance to corrosion. Produced entirely in a high-tech, smooth AISI 316L stainless steel casing, the design is optimised for easy cleaning.

As a full stainless gearbox solution they are suitable for the most hostile applications, including caustic sanitisation processes that may involve acidic or alkaline-based detergents.

APPLICATIONS

Best suited for applications that come into direct contact with processing product and are subjected to regular sanitisation procedures, in areas such as meat and poultry, fish and seafood processing, fruit and vegetables, dairy production, beverages, bakery applications and marine.

KEY FEATURES

- Special high tech full stainless steel housing, stainless steel hollow output shaft and hardware for ultimate corrosion resistance
- Add twin viton seals with stainless steel 316L shield for IP69K level protection.
- Dimensionally interchangeable with several leading brands of standard worm gearboxes. Wide range of output bores available to suit the existing shaft size.



VFD SERIES

VFD Standard Series worm gearboxes are Clean-Geartech's most economical solution for basic cleaning applications. With a completely smooth aluminium casing in a choice of finishes, it can be provided with a standard material or stainless steel output bore.

The perfect complement for this range is the new APM series of electric motors. With a circular, anodized body, it's the perfect upgrade to traditional painted aluminium motors on low power applications, with no cooling fins, ribs or terminal box.

AVAILABLE IN THREE FINISHES

- Standard version – completely smooth aluminium casing without paint, with a choice of standard or stainless steel output bore.
- NTT version – Gearbox casing has a protective coating to offer an enhanced level of corrosion resistance from water based washdown.
- Painted version – Protective white paint to further resist corrosion – ideal for marine environments.



APPLICATIONS

Best suited for applications that are in the proximity of the processing product and are subjected to more basic sanitisation procedures in areas such as meat and poultry, fish and seafood processing, fruit and vegetables, dairy production, beverages, bakery applications and marine.



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