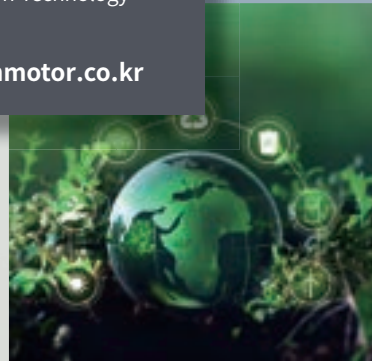
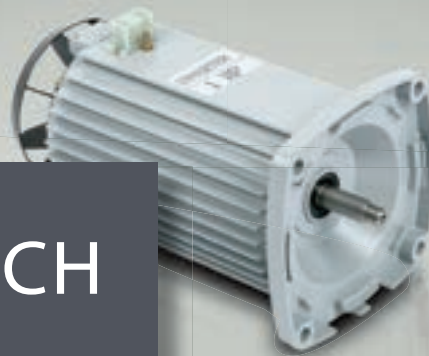




GNTECH

Specialized company for
manufacturing Electric Motors
and Application Technology

www.gntechmotor.co.kr



LET'S SAVE THE ENERGY & EARTH WITH GNTECH



We, GNTECH Co.Ltd., will lead the way in
saving electrical energy through enhancing efficiency,
and commit to bringing a better future.

Saving electrical energy through technology of enhancing efficiency is
the rapidest way for the reduction of carbon emissions.

This technology needs not only for protecting the Earth
but also for safeguarding myself and my family.

GNTECH's motor products known for their high efficiency,
excel in conserving electrical energy.

We commit to leading in the conservation of
electrical energy through high energy efficiency as a final goal
that sustains and enriches our lives and environment

GNTECH Co.,Ltd. is dedicated to this idea.



A leading enterprise in
setting the standard for manufacturing
Electric Motors and Application Technology.

To be the best in the world,
we exert every effort by accumulated
Experience and Technology!

CEO Message



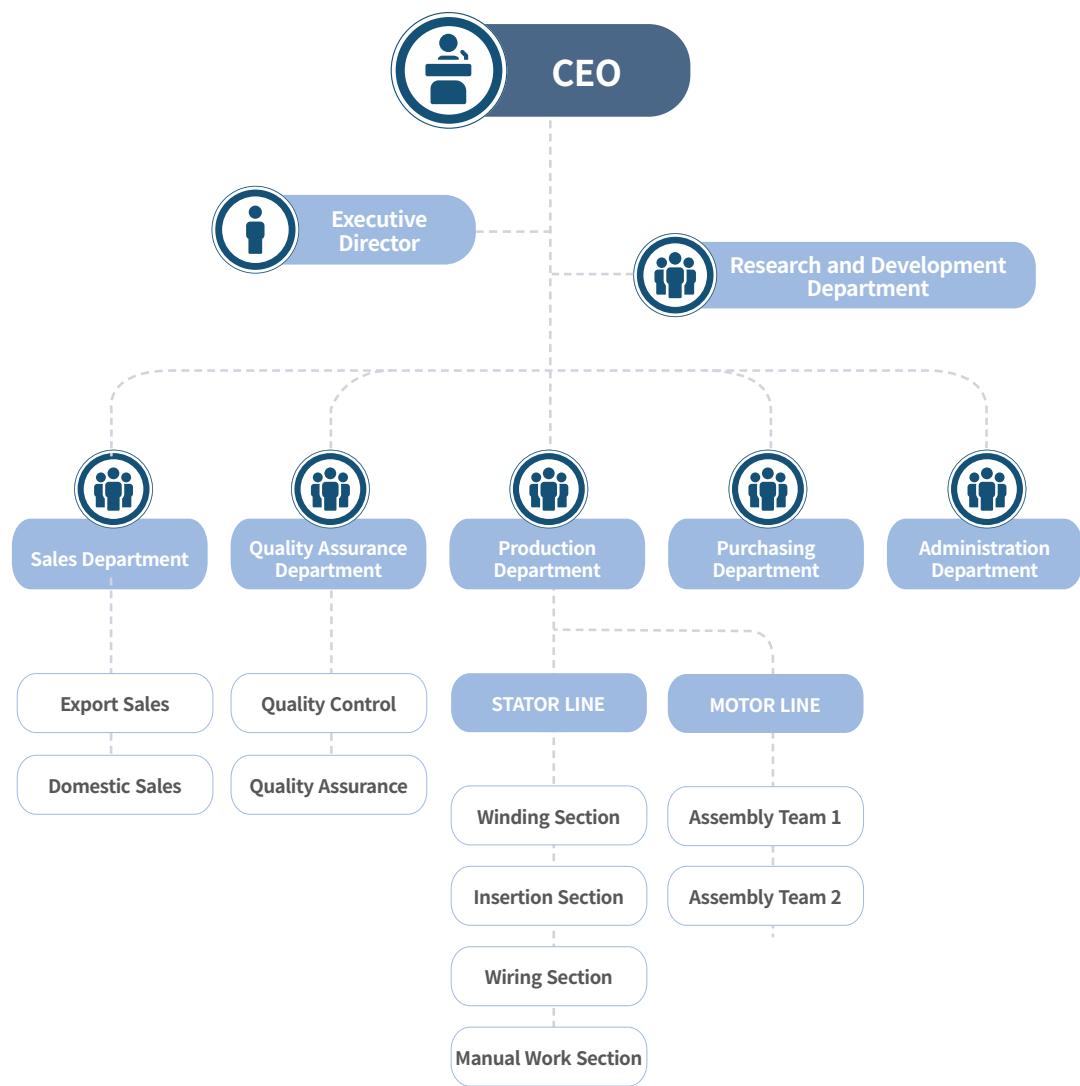
GNTECH supplies high quality motors and
its customized Application Technology through
many years of expertise in Electric Motors Industry.

Through continuous research and development, we aim to meet customer needs and pursue endless perfection through quality improvement. Additionally, for prioritizing customer satisfaction as our core value, we commit to being a trustworthy and reliable company based on our customers' trust. We aspire to always be a dependable and progressive source of high quality products. We, GNTECH Co.,Ltd. wish endless growth, happiness and health to all customers who visit us. Thank you.

CEO of GNTECH Co.,Ltd. **Young-chul, Yoo**



Organization Chart



History

- 1988. 05** Establishment of Geumseong Special Electric
- 2000 ~ 2010** Changed Name to **GNTECH**
ISO 9001 : Quality Management System Certification
- 2011 ~ 2020**
 - Certification as a Management Innovation Small and Medium Enterprise (Main-BIZ)
 - Recognized as a Dedicated R&D Institution (Korea Industrial Technology Association)
 - Certification as a Technology Innovation Small and Medium Enterprise (INNO-BIZ)
 - Venture Company Certification
 - **Incorporation of GNTECH Co., Ltd.**
 - Establishment of a dedicated Research and Development Department
 - Certification as a specialized company in materials and components
 - Export to ASTRAL POOL in Australia/Export to the USA with MOTOR CSA certification
 - ISO 9001 and 14001 certifications, INNO-BIZ, Venture Company Certification
 - Three-phase MOTOR premium efficiency certification
 - Selected as Promising Small and Medium Enterprise by Gyeonggi Province
 - Selected as a Promising Small and Medium Enterprise for export
 - Selected as a Special Military Service Company
- 2021~** Factory site expansion and relocation



Quality Policy

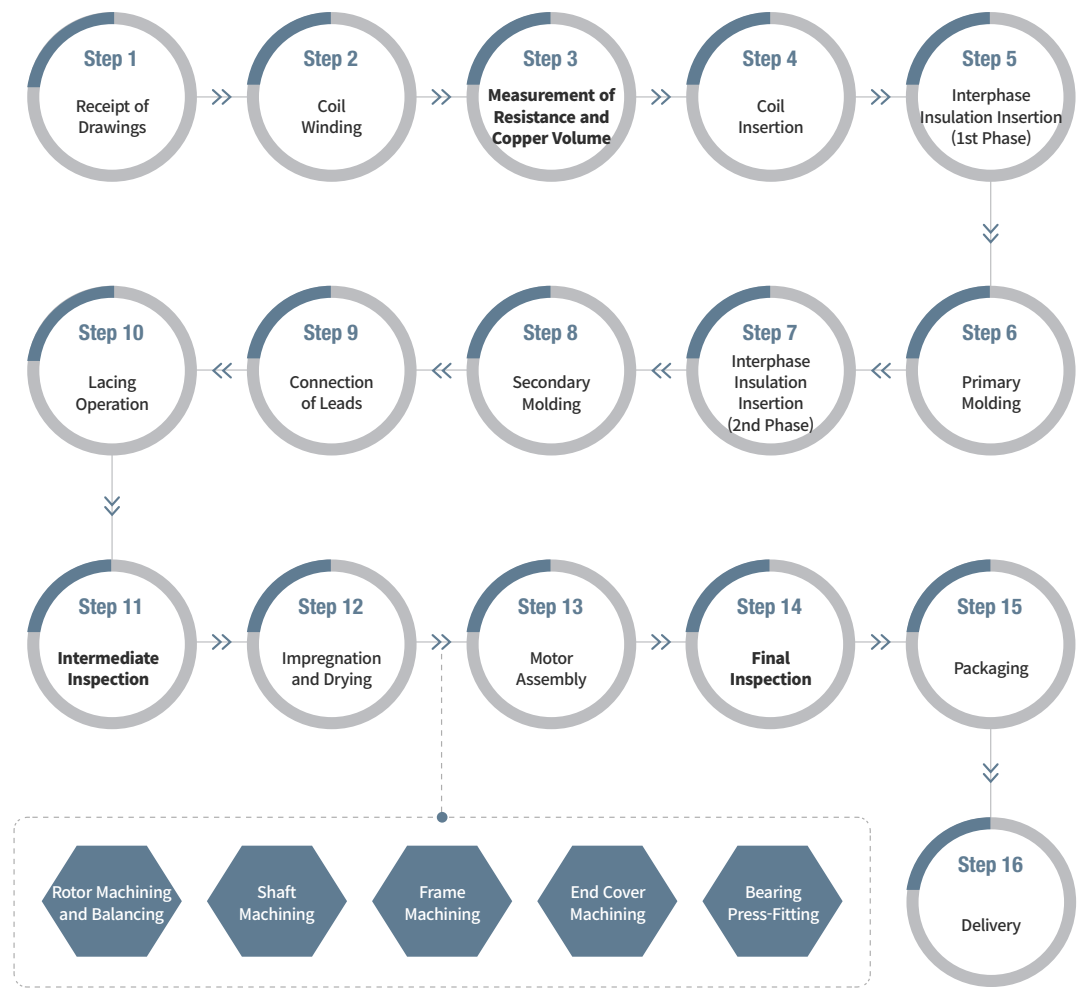


Certification Status





Manufacturing Process (Motor)

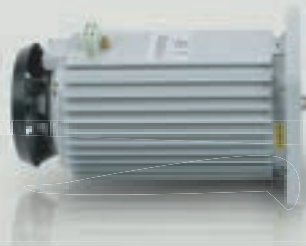


PUMP MOTOR

Inverters or drivers are utilized to enable the adjustment of motor speed. By enabling the alteration of the motor's pole number, these systems are employed not only for pumping in swimming pools and drainage but also for circulating water, filtering out foreign substances, and purifying the water quality to prevent contamination.



OTHER SIDE_



SPEC_

Product Types	
BLDC MOTOR	1 HP, 2 HP
INVERTER MOTOR	1 HP, 2 HP
2 SPEED MOTOR	200 W, 1200 W POLE CHANGE
AC MOTOR	3/4 HP, 1 HP, 1.5 HP

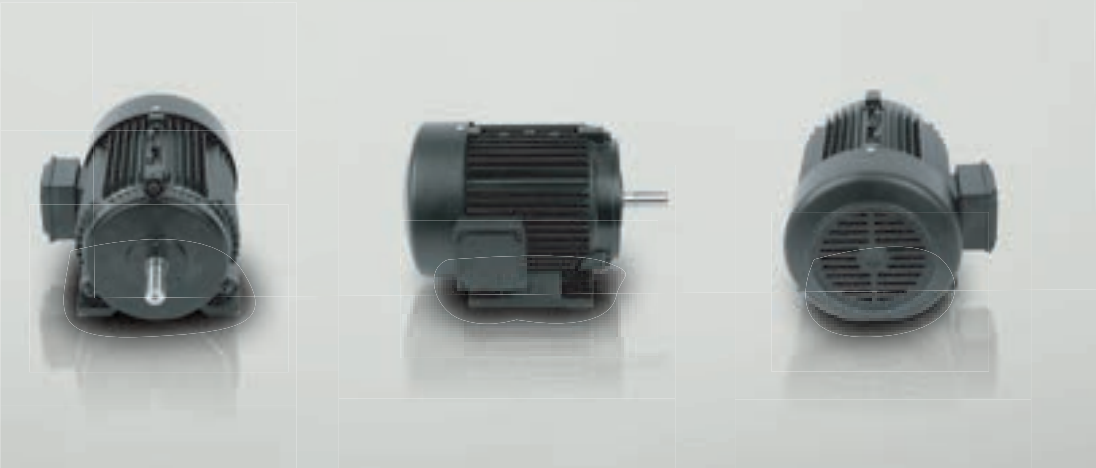
※ In addition to standard products, special specifications and custom production/supply are available.

IEC MOTOR

These motors can be connected to any application requiring movement, and are categorized by cooling methods and the material and structural shape of the frame. Depending on the assembly method, they are used in either horizontal or vertical orientations in relation to the connected object.



OTHER SIDE_



SPEC_

Classification	Product Types	
Steel Plate FRAME TYPE	B3 (Horizontal)	1/4 HP ~ 3 HP
	B5 (Vertical)	1/4 HP ~ 3 HP
AL D/C	B3 (Horizontal)	1/4 HP ~ 5 HP
	B5 (Vertical)	1/4 HP ~ 5 HP

※ In addition to standard products, special specifications and custom production/supply are available.

GEARED MOTOR

Motors that are used in applications requiring both deceleration and acceleration are commonly found in scenarios needing low speed and high torque, such as conveyor belts. The speed is adjusted by varying the gear ratio to meet specific requirements.



OTHER SIDE_



SPEC_

Classification	Product Types	
Steel Plate FRAME TYPE	B3 (Horizontal)	1 HP ~ 5 HP
	B5 (Vertical)	1 HP ~ 5 HP
AL D/C	B3 (Horizontal)	1/4 HP ~ 5 HP
	B5 (Vertical)	1/4 HP ~ 5 HP

※ In addition to standard products, special specifications and custom production/supply are available.

HOIST MOTOR

For the movement of cranes and the lifting and lowering of objects, motors are used in conjunction with gear reducers to adjust the gear ratio. Equipped with electronic brakes, these motors facilitate precise control over the position of moving objects, allowing for the stopping and resuming of lifting operations, thereby enhancing work efficiency.



OTHER SIDE_



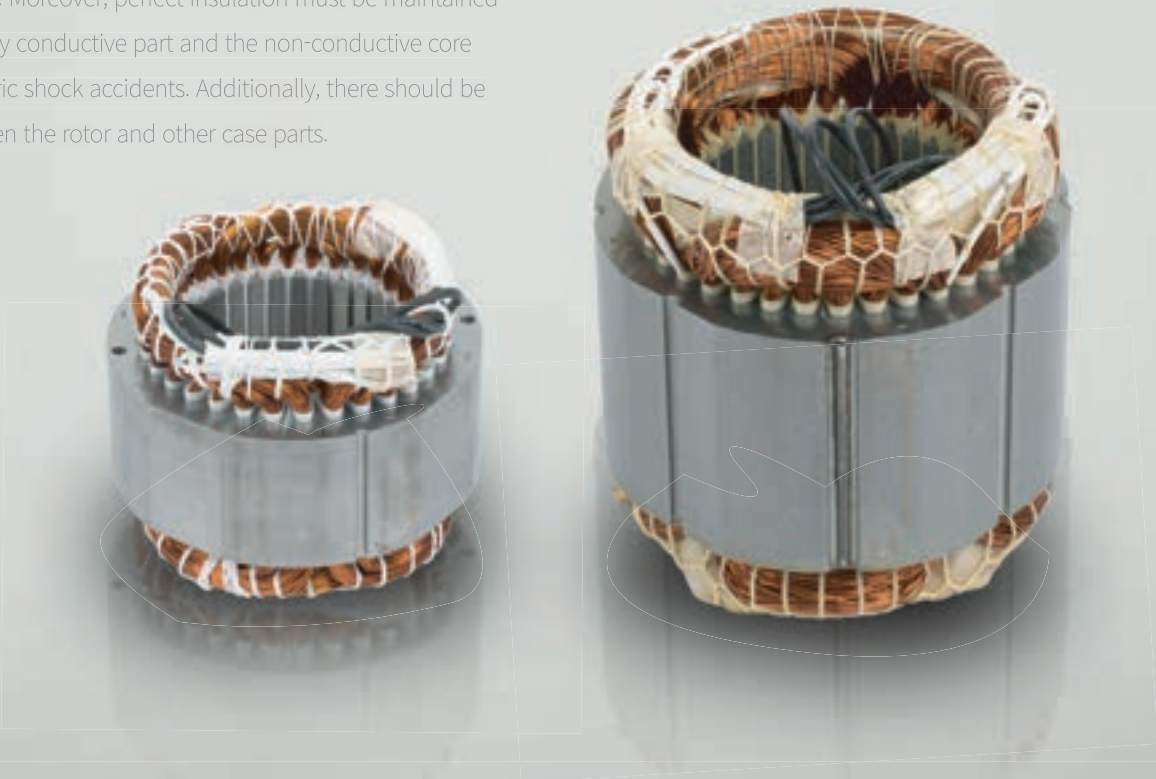
SPEC_

Product Types	
Propulsion Motor (High-Speed) 4P	0.75 Kw, 1.5 Kw, 2.2 Kw, 3.7 Kw
Propulsion Motor (Low-Speed) 6P	0.5 Kw, 1.0 Kw, 1.5 Kw, 2.2 Kw
Hoisting Motor (High-Speed)	0.5 ton ~ 5 ton
Hoisting Motor (Low-Speed)	0.5 ton ~ 5 ton
Creep Motor	For 3.5 Ton Applications

※ In addition to standard products, special specifications and custom production/supply are available.

STATOR ASS'Y

The core (iron core), which generates magnetism, is the most critical component of an electric motor. It is wired by inserting copper wires supplied with electricity into this core. For the product to be of high quality, it is essential that the copper wire is inserted without any damage to its enamel coating (approximately 0.02mm thick). Damage to this coating can lead to various defects. Moreover, perfect insulation must be maintained between the electrically conductive part and the non-conductive core frame to prevent electric shock accidents. Additionally, there should be no interference between the rotor and other case parts.



SPEC_

Classification	Product Types (Based on Core Size)
Semi-Automatic INSERT	Outer Diameter : 115 Ø~160 Ø
	Inner Diameter : 58 Ø / 68 Ø / 70 Ø / 74 Ø / 80 Ø / 83 Ø / 85 Ø / 93 Ø
Manual INSERT	In addition to the above semi-automatic products, production/supply of all models is available.

※ In addition to standard products, special specifications and custom production/supply are available.

PRODUCT LINE-UP

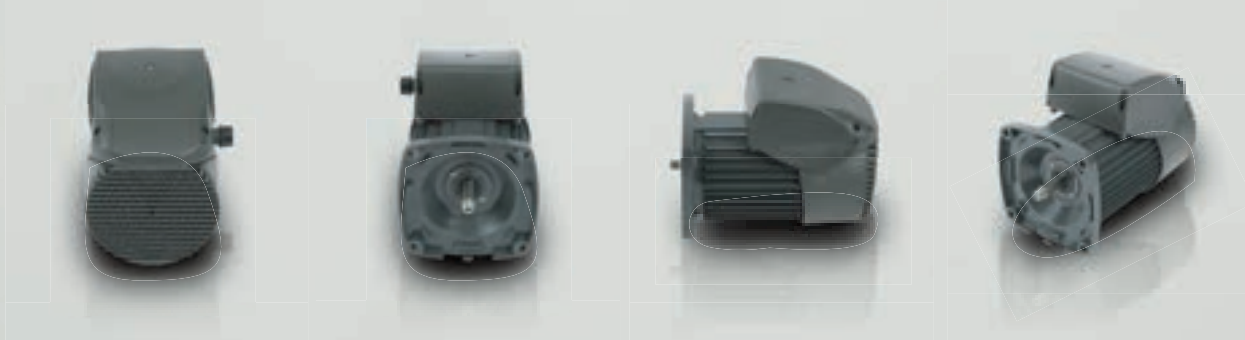
AC 3Ø B3 MOTOR D/C TYPE (1/4HP ~ 5HP) - FOR PUMPS



2SPEED MOTOR / EXTRUDED FRAME TYPE (200W / 1200W POLE CHANGE) - FOR PUMPS



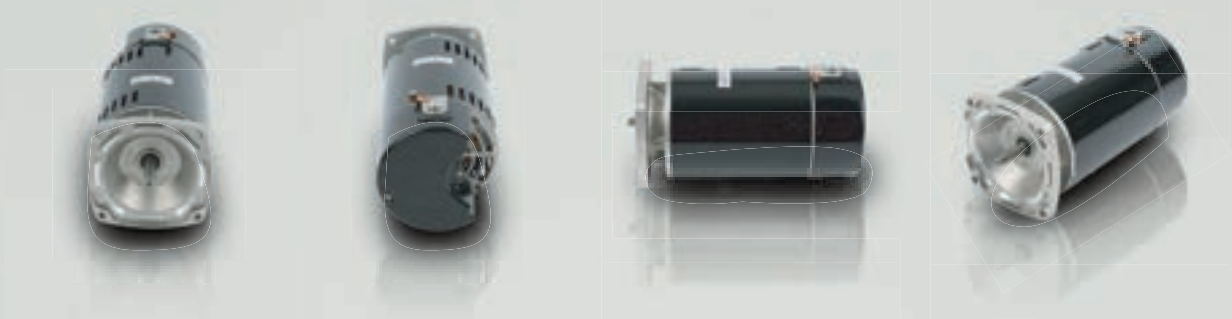
AC 1Ø MOTOR / EXTRUDED FRAME TYPE (3/4HP ~ 2HP) - FOR PUMPS



AC 3Ø MOTOR / EXTRUDED FRAME TYPE (1100W ~ 3000W) - FOR PUMPS



1Ø MOTOR / STEEL PLATE FRAME TYPE(3/4HP ~ 2HP)
- FOR PUMPS (CSA APPROVED PRODUCTS)



BLDC MOTOR / EXTRUDED FRAME TYPE (1HP ~ 2HP) - FOR PUMPS



INVERTER MOTOR / EXTRUDED FRAME TYPE (1HP ~ 2HP) - FOR PUMPS

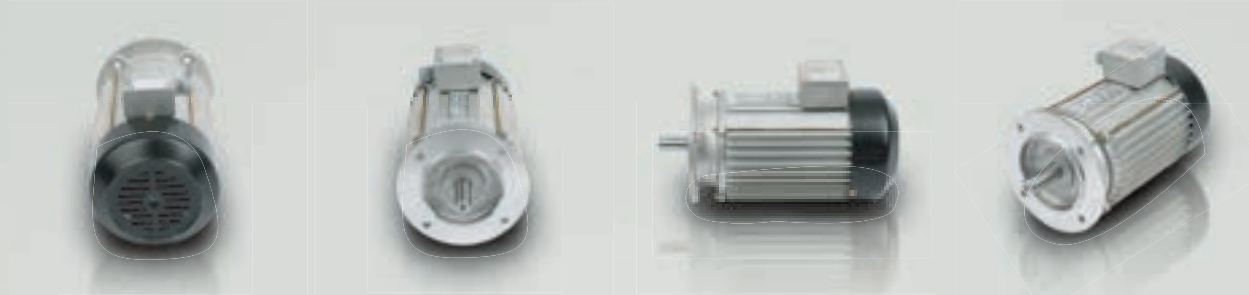


IEC 1Ø, 3Ø MOTOR -B3 / STEEL PLATE FRAME TYPEOPEN TYPE (1HP ~ 2HP)

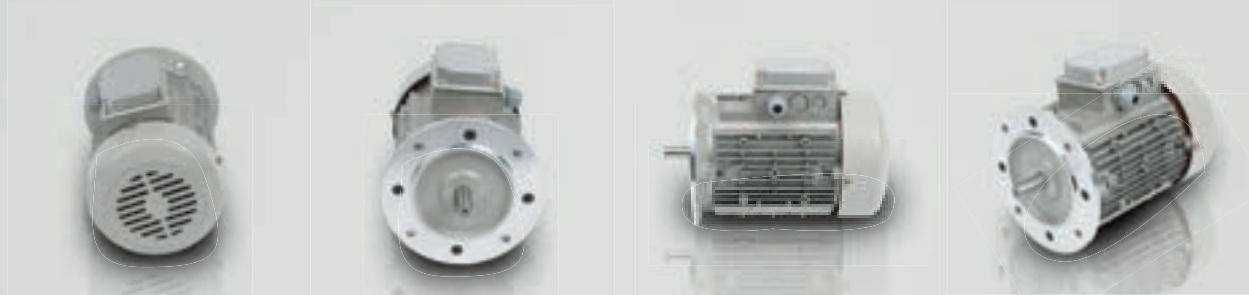


PRODUCT LINE-UP

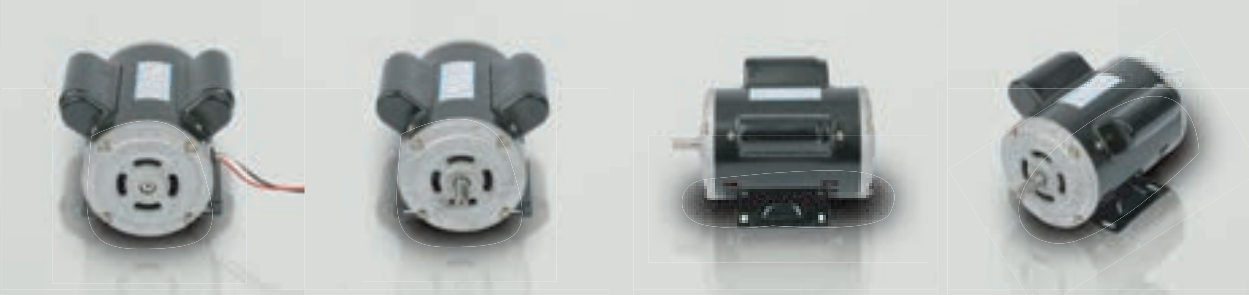
IEC MOTOR- B5 / EXTRUDED FRAME TYPE (1HP ~ 3HP)



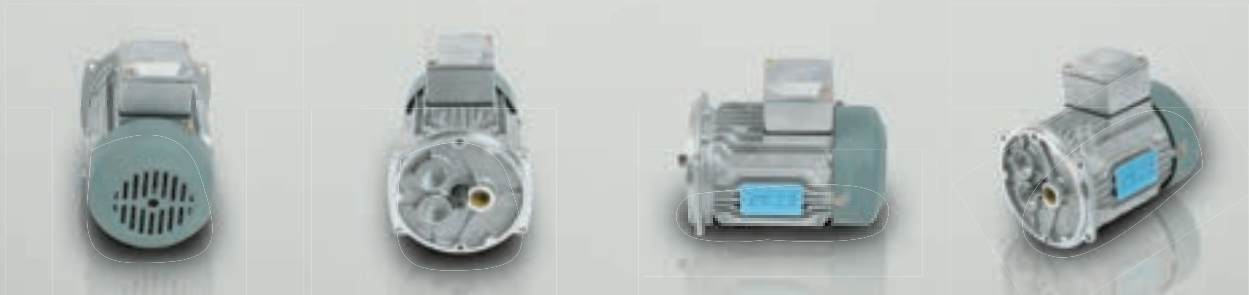
IEC MOTOR- B5 / D/C TYPE (1HP ~ 5HP)



IEC 1Ø MOTOR-B3 / STEEL PLATE FRAME TYPE OPEN TYPE (1/4HP ~ 1HP)



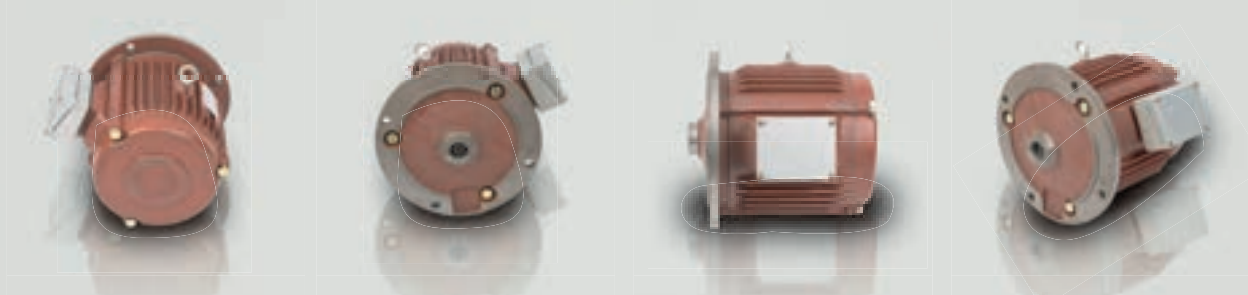
GEARED 3Ø MOTOR / D/C TYPE (1/4HP ~ 1HP)



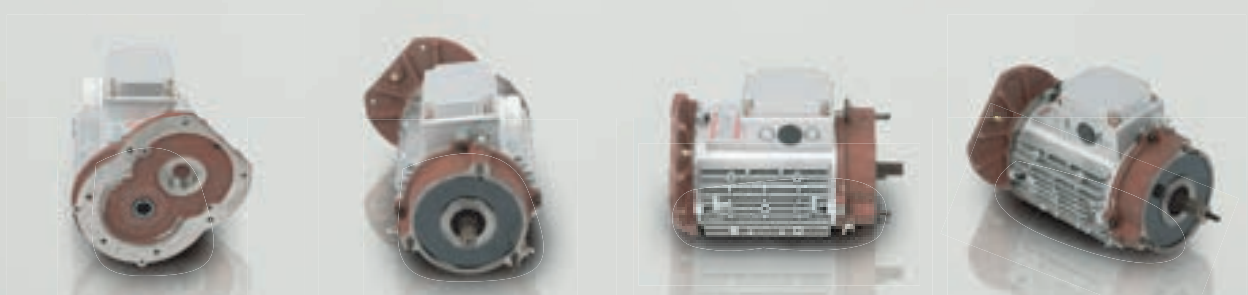
GEARED 3Ø MOTOR / D/C FRAME TYPE (1/2HP ~ 2HP)



HOIST MOTOR / CAST FRAME TYPE (1TON ~ 3TON, HIGH-SPEED, LOW-SPEED)
- FOR HOISTING



HOIST 3Ø MOTOR / D/C FRAME TYPE (1/2HP ~ 2HP) - FOR PROPULSION



Facility Photos



Winding Machine



Dynamometer



Lacing Machine



Rotor Balancer



Stator Tester



Heat Staking Machine
(Frame Pressing)



Hydraulic Press
(Rotor Pressing)



Hydraulic Press
(Frame Pressing)



Insulation Paper Insertion
Machine



Frequency Converter,
Motor Tester



Coil Insertion
Machine



Coil Insertion Machine
(Vertical)



Bench Drilling
Machine



Forming
Machine



Impregnation Dryer



CNC Machine

Equipment/Facility Status

Process Name	Equipment Name	Quantity
Insulation Paper Insertion	Insulation Paper Insertion Machine	2
Winding	winding(4-Axis Winding Machine)	6
Coil Insertion	Inserting(Automatic Inserter)	10
	Automatic Vertical	4
Connection	Lacing double	5
	Primary and Secondary Forming	4
	Tertiary Forming	3
	Stripping Machine	3
	Inspection Equipment (Resistance, Near, Dielectric Strength, Rotation)	3
Impregnation	Impregnation Dip Machine	1
	Impregnation Dryer	2
Machining/ Assembly	Inspection Equipment (Resistance, Near, Dielectric Strength, Rotation)	2
	Hydraulic Press	4
	Universal Lathe	1
	CNC Machining Center	2
	ROTOR Shaft Balancer	2
	Desktop Tapping Machine	3
	Label Printer, Dot Peen Marker, Laser Engraver	3
Inspection/Test	Dynamometer	3

Table of Enclosed Electric Motors, Base Sizes, and Frame Numbers (KS C 4202)

Rated output KW				Electric motor						
				Frame number	H	A/2	B/2	C	R	PR
2 poles	4 poles	6 poles	8 poles							
0.2	0.2	-	-	63M	63	63	40	40	103	80
0.4	0.4	-	-	71M	71	56	45	45	120	90
0.75	0.75	0.4	0.2	80M	80	62.5	50	50	140	100
1.5	1.5	0.75	0.4	90L	90	70	62.5	56	168.5	118.5
2.2										
-	2.2	1.5	0.75	100L	100	80	70	63	193	133
3.7	3.7	2.2	1.5	112M	112	95	70	70	200	140
5.5	5.5	3.7	2.2	132S	132	108	70	89	239	159
7.5										
-	7.5	5.5	3.7	132M	132	108	89	89	258	178
11	-	-	-	160M	160	127	105	108	323	-
15										213
-	11	7.5	5.5	160L	160	127	127	108	345	-
18.5	-	-	-							213
-	15	11	7.5	180M	180	139.5	120.5	121	351.5	-
22	-	-	-							241.5
-	18.5	15	11	180L	180	139.5	139.5	121	370.5	-
30	22									260.5
-	30	18.5	15	200L	200	159	152.5	133	395.5	-
37	-	-	-							285.5
45	37	30	18.5	225S	225	178	143	149	402	-
-	45	37	22							292
55	-	-	-	250S	250	203	155.5	168	433.5	-
-	55	45	30							323.5
75	-	-	-	250M	250	203	174.5	168	452.5	-
-	75	55	37							342.5
90	-	-	-	280S	280	228.5	184	190	484	-
-	90	75	45							374
110	-	-	-	280M	280	228.5	209.5	190	509.5	-
-	110	90	55							399.5
132	-	-	-	315S	315	254	203	216	529	-
-	132	110	75							419
160	-	-	-	315M	315	254	228.5	216	554.5	-
-	160	132	90							444.5
200	-	-	-							
-	200	160	110							

Attachment hole K	Electric motor									
	Axis					Base				
	D	D Tolerance	E	F	GE	BE	BF	BH	BZ	X
7	11	h6	23	-	1	50	80	30	13	40
7	14	j6	30	5	3	55	85	30	13	40
10	19	j6	40	6	3.5	65	90	30	13	40
10	24	j6	50	8	4	70	105	30	13	40
12	28	j6	60	8	4	80	115	40	13	50
12	28	j6	60	8	4	95	115	40	13	50
12	38	k6	80	10	5	110	120	45	13	60
12	38	k6	80	10	5	110	140	45	13	60
15	42	k6	110	12	5	-	-	-	-	-
						125	165	50	15	70
15	42	k6	110	12	5	-	-	-	-	-
						125	185	50	15	70
15	48	k6	110	14	5.5	-	-	-	-	-
						140	185	55	15	80
15	55	m6	110	16	6	-	-	-	-	-
						140	205	55	15	80
19	55	m6	110	16	6	-	-	-	-	-
	60		140	18	7	160	230	60	20	100
19	55	m6	110	16	6	-	-	-	-	-
	65		140	18	7	229	232	64	19	-
24	55	m6	110	16	6	-	-	-	-	-
	75		140	20	7.5	254	251	77	23	-
24	55	m6	110	16	6	-	-	-	-	-
	75		140	20	7.5	254	270	77	23	-
24	55	m6	110	16	6	-	-	-	-	-
	85		170	22	9	280	280	77	29	-
24	55	m6	110	16	6	-	-	-	-	-
	85		170	22	9	280	305	77	29	-
28	75	m6	110	20	7.5	-	-	-	-	-
	95		140	25	9	-	-	-	-	-
28	75	m6	140	20	7.5	-	-	-	-	-
	95		170	25	9	-	-	-	-	-



GNTECH



GNTECH

www.gntechmotor.co.kr

GNTECH Co., Ltd. T. 82-31-480-3849 F. 82-31-402-0640

43, Sandan-ro 20beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do (Wonsi-dong 833-10)