



ENERGY EFFICIENT GEARED MOTORS

AC LINE OPERATED/NORTH
AMERICA/QUICK GUIDE

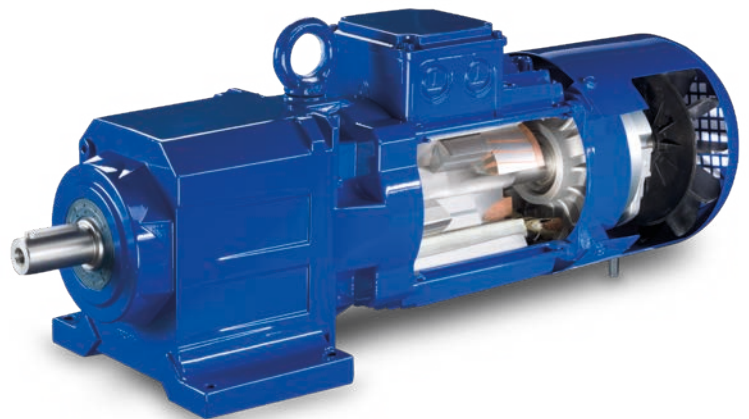


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Bauer BG



Bauer BF



Bauer BK

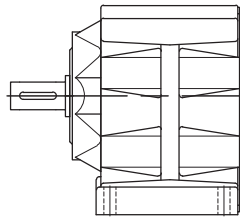


Bauer BS

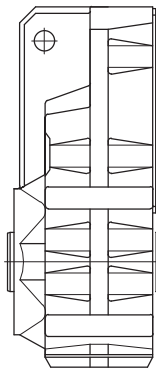
Modular system overview Gear Motors

Gear design

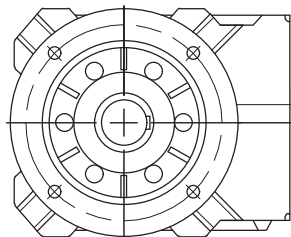
BG
Helical gear



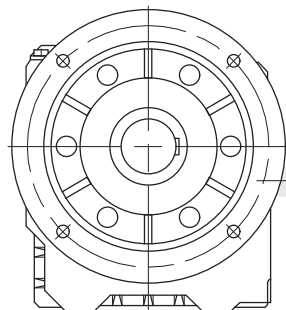
BF
Shaft-mounted gear



BK
Bevel gear



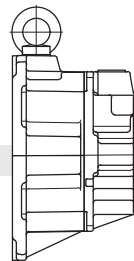
BS
Worm gear



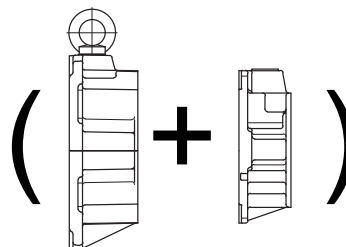
NEMA C-Face



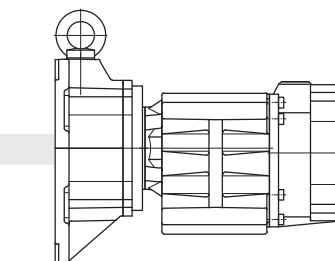
System cover



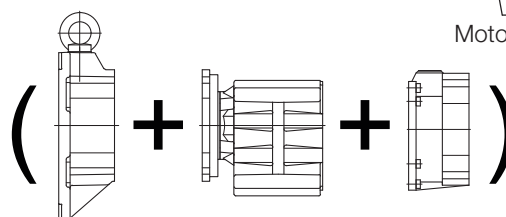
Pre-stage



Pre-stage + System cover

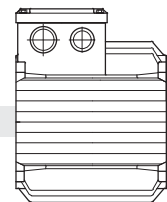


Intermediate gear

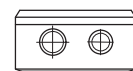


(System cover + Intermediate gear + System cover)

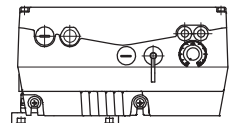
Motor terminal box design



Motor with cast-on terminal box (KAG)



Motor with screwed-on terminal box (TB)



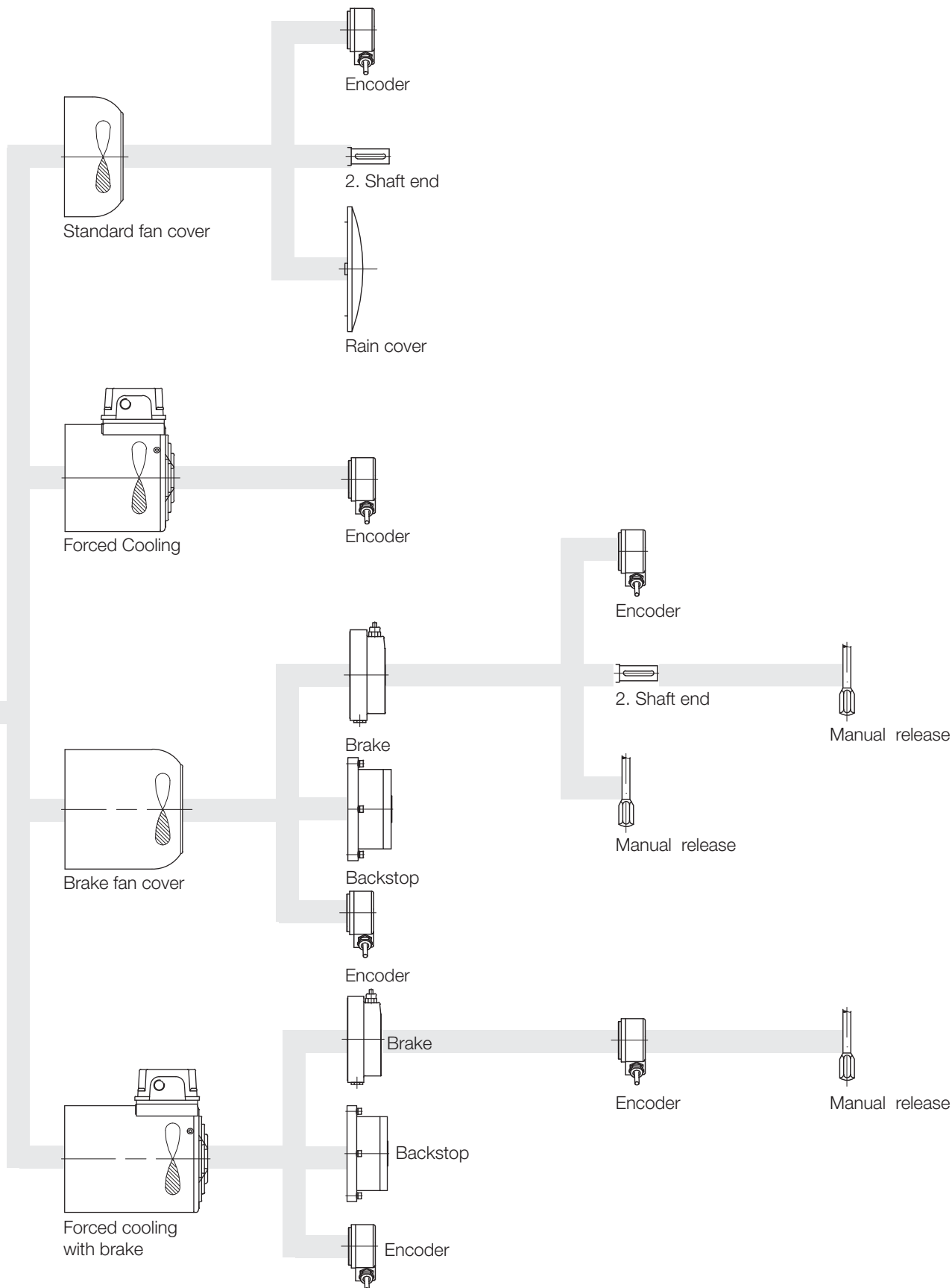
Motor with ETA-K-Converter

Modular system overview **Gear Motors**

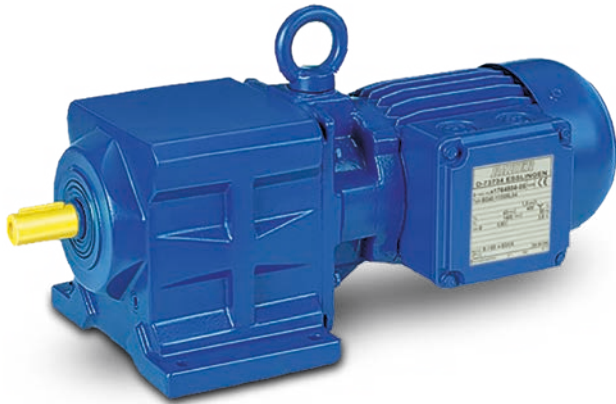
Covers B-Side

Extensions Standard Motor

Extensions Motor with Brake



Any products not shown in this Quick Guide can be found in Bauer full catalog P-7133-BGM.



Helical Geared Motor Series BG

Three phase helical geared motors for driving machines and equipment of all types

Powerful and long-lasting!

Drive solutions from 0.04 HP to 50 HP



Gearbox

- Torque: 177 lbf-in ... 164,000 lbf-in
- Ratios:
 - two-stage: 2.46 - 73.13
 - three-stage: 12.45 - 259.00
- Versatile installation possibilities
- Completely enclosed, sealed against dust and water spray
- Lubrication change first
 - after 15,000 hrs (mineral oil)
 - after 25,000 hrs (synthetic oil)
- Low noise gearing

Motors

- Power: 0.04 HP ... 100 HP
- Mains supply: 110 V ... 690 V, 50/60 Hz
- Enclosure: IP 54 (standard only for D..04 and D..05)
IP 65 (standard)
IP 66 - IP 68 (optional)
- Connection: Terminal Board with optional CAGE CLAMP®

Motor Options

- NEMA C-Face up to 405TC
- Connecting with plug connectors
- With integrated inverter up to 10 HP
- IE3 up to 50 HP with ASM
- IE4 up to 15 HP with PMSM

Brakes

- Enclosure IP 65 (Standard)
IP 66 and IP 68 (optional)
- Performance and application optimized brake range
- Maintenance friendly design

Standards

- ATEX
- CCC
- CE marking
- CSA
- EAC
- INMETRO
- ISO14001
- ISO9001
- OHSAS18001
- UL

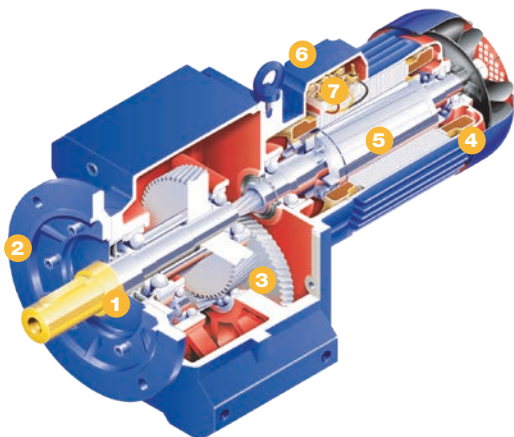
General

- Corrosion protection: C1 ... C5, IM2 based on DIN EN ISO 12944-5
- C1 is mild protection
- C5 is extreme protection



7 CAGE CLAMP®

- Standard with conventional terminal board
- Optional CAGE CLAMP® technology



Helical Geared Motor Series BG

Powerful and long-lasting!

Bauer Gear Motor supplies modern drive solutions for all industry sectors in which material must be moved.

1 Design

- As standard in 2-stage design, as from BG100 3-stage.
- Generously dimensioned working shaft and bearings.
- Higher ratios available through attachment of a purpose built pre-stage or pre-connected gearbox.
- Universal housing with completely new, low height installation possibilities.

2 Housing

- State-of-the-art gearbox housing designed for operation under harsh conditions.
- Compact closed housing is ideal for preventing lubricant loss and dirt build-up.
- High tensile cast housing.
- Vibration-free housings, noise absorbent and resistant against chemical effects.
- The single crimping process provides a level of higher accuracy lower noise and reduce chances of leakage due to core shifts.
- Stator housings with casing and cooling fins are manufactured in one casting and ensure efficient heat dissipation.
- Motor housings, bearing covers and terminal boxes made of corrosion resistant aluminium die casting.

3 Gear wheels

- Gear wheels made of high tensile and case hardened steel.
- Highly wear resistant through flank hardness of 60-62 HRC.
- Impervious to shock.
- Tooth flanks shaved, hobbled or ground.
- Strong, non-flexible pinion shafts and bearings guarantee exact tooth meshing

4 Stator winding

- The stator winding is manufactured from high quality enamelled copper wire with state-of-the-art three layer insulation in the stator slot and end coils.
- The stator winding is impregnated with a moisture resistant and tropical safe resin.
- The electrical design of the motor is adapted to the gearbox.

5 Rotor

- Aluminium die cast cage rotor ensures a high reliability at high starting torques and low starting currents.
- Torque troughs are avoided on startup and acceleration to provide reliable performance in high demand applications.

6 Terminal box

- Spacious terminal box also completely sealed against dust and water spray.
- A large measure on safety through CAGE CLAMP® connection technology on the winding ends and motor connection.
- Handy terminals allow easy connection.

Ordering Information BG

Gearing Options						Motor Options		Other Options							
BG	10	(blank)	-	1	1	/	DPE08XB4	-	TF	/	(blank)	/	AV	/	(blank)
Type	Size	Gear Stages	Housing Style		Shaft Style	Type (see Chart 1)	Feature		Brake		Shaft Options		Other		
BG - Helical Inline	05	Blank - standard	1 - Cast Feet		1 - Solid	D08MA4	Blank-none		Blank-none		AV - Inch		Blank-none		
	06	Z - Add'l stage	3 - Flange (Standard)		7 - Solid (Flange option)	DPE08XB4	TF - thermistors		see Page 44-45 for Brake options		AM - Metric				
	10		8 - Fully Machined (Add'l Tapped Holes) (BG10-BG90 only)			DPE09XB4									
	20					DPE11LB4									
	30					DPE13XA4									
	40					DPE16LB4									
	50					DPE16XB4									
	60														
	70														
	80														
90															
100															

Customer must provide the following at time of order:

- 1) Selected HP from Chart 1
- 2) Selected OUTPUT RPM from Selection Table on pages 11-12
- 3) SUPPLY VOLTAGE to power motor
- 4) MOUNTING POSITION from Chart 2 on page 9

Chart 1

Motor Type	HP	Available Frame Sizes											
		BG05	BG06	BG10	BG20	BG30	BG40	BG50	BG60	BG70	BG80	BG90	BG100
D08MA4	0.5	X	X	X	X	X	X	-	-	-	-	-	-
D08MA4	0.75	X	X	X	X	X	X	-	-	-	-	-	-
DPE08XB4	1	-	-	X	X	X	X	X	X	-	-	-	-
DPE09XB4	1.5	-	-	X	X	X	X	X	X	-	-	-	-
DPE09XB4	2	-	-	X	X	X	X	X	X	X	-	-	-
DPE11LB4	3	-	-	-	-	X	X	X	X	X	-	-	-
DPE11LB4	5	-	-	-	-	X	X	X	X	X	X	-	-
DPE13XA4	7.5	-	-	-	-	-	-	X	X	X	X	X	-
DPE13XA4	10	-	-	-	-	-	-	X	X	X	X	X	-
DPE16LB4	15	-	-	-	-	-	-	X	X	X	X	X	X
DPE16XB4	20	-	-	-	-	-	-	X	X	X	X	X	X

Gearbox Specifications

Model	Torque Rating (lbf-in)	Solid Shaft Sizes (BGxx-x1)	
		Inch (in) AV Option	Metric (mm) AM Option
BG05	265	0.50	14
BG06	398	0.625	17
BG10	1062	0.75	20
BG20	1770	1.00	25
BG30	2655	1.25	30
BG40	3761	1.25	30
BG50	5575	1.625	40
BG60	10620	2.125	50
BG70	20356	2.375	60
BG80	37172	2.875	70
BG90	74345	4.00	100
BG100	163737	4.375	110

Motor Specifications

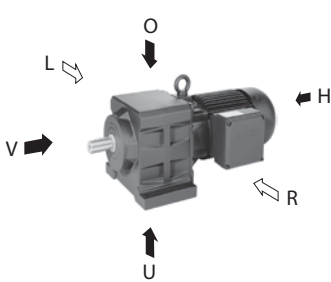
Type	Voltage	Nominal Motor Speed	Frequency	Enclosure	Turndown****
ASM Asynchronous	230 V or 460 V**	1800 rpm	60 Hz	TEFC - fan-cooled	10:1 (continuous)
** Contact factory for voltages not shown					
**** Gearmotors sized in this catalog will be reliable for a 10X turn-down under (S1) continuous operation. Gearmotors can be provided for up to 1000X turn-down after consultation with the factory.					

Important Ordering Comments:

- Additional Output Shaft options are also available (contact factory for more info)
- Additional Motor Options (contact factory for more info): Brakes; encoders; special voltages; Non-std cable exits; variable cable lengths
- Supplied with CLP 220 VG oil. Other oil options available upon request

Standard Mounting Positions BG

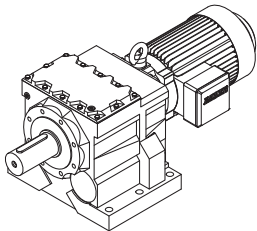
BG series: image shows mounting position H4



V =	Front The side of the gear unit facing away from the motor or the source of motive power
H =	Rear The side of the gear unit facing toward the motor or the source of motive power
L =	Left The left side of the gear unit as viewed from the output shaft side of mounting position B3
R =	Right The right side of the gear unit as viewed from the output shaft side of mounting position B3

Chart 2

BG Series						
Gear side	(U)	(R)	(L)	(O)	(V)	(H)
Mounting position	H4	H1	H2	H3	V1	V2



Performance and Selection Tables BG

Bauer BG Series - Helical Inline Gear Motors

		Motor Power Rating (HP)														
		0.5			0.75			1			1.5			2		
		Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor
Nominal Output Speed (RPM)	500	BG05-../D06LA4			BG06-../D08MA4			BG06-../DPE08XB4			BG10-../DPE09XB4			BG10-../DPE09XB4		
		480	65	1.35	445	104	1.7	460	137	1.3	520	177	3.1	520	243	2.3
	400	BG05-../D06LA4			BG06-../D08MA4			BG06-../DPE08XB4			BG10-../DPE09XB4			BG10-../DPE09XB4		
		355	88	1.2	375	124	1.55	385	165	1.2	405	226	2.7	405	310	1.95
	320	BG05-../D06LA4			BG06-../D08MA4			BG06-../DPE08XB4			BG10-../DPE09XB4			BG10-../DPE09XB4		
		300	104	1.2	285	163	1.3	295	212	1	330	279	2.4	330	381	1.75
	250	BG05-../D06LA4			BG06-../D08MA4			BG10-../DPE08XB4			BG10-../DPE09XB4			BG10-../DPE09XB4		
		245	127	1.2	240	190	1.2	255	248	3.1	255	363	2.1	255	496	1.55
	200	BG05-../D06LA4			BG06-../D08MA4			BG10-../DPE08XB4			BG10-../DPE09XB4			BG10-../DPE09XB4		
		199	157	1	205	226	1.1	186	341	2.5	189	487	1.75	188	673	1.3
	175	BG05-../D06LA4			BG06-../D08MA4			BG10-../DPE08XB4			BG10-../DPE09XB4			BG10-../DPE09XB4		
		191	164	1.05	180	257	1.05	168	376	2.3	170	540	1.6	169	743	1.2
	150	BG06-../D06LA4			BG06-../D08MA4			BG10-../DPE08XB4			BG10-../DPE09XB4			BG10-../DPE09XB4		
		144	217	1.3	165	279	0.98	146	434	2.1	148	620	1.5	147	859	1.1
	130	BG06-../D06LA4			BG10-../D08MA4			BG10-../DPE08XB4			BG10-../DPE09XB4			BG10-../DPE09XB4		
		132	235	1.25	128	363	2.7	132	478	2	133	690	1.4	133	947	1.05
	110	BG06-../D06LA4			BG10-../D08MA4			BG10-../DPE08XB4			BG10-../DPE09XB4			BG20-../DPE09XB4		
		110	283	1.05	105	443	2.3	108	584	1.75	109	850	1.2	113	1115	1.4
	100	BG06-../D06LA4			BG10-../D08MA4			BG10-../DPE08XB4			BG10-../DPE09XB4			BG20-../DPE09XB4		
		101	305	1	105	443	2.3	94	673	1.6	95	974	1.1	101	1248	1.3
	90	BG06-../D06LA4			BG10-../D08MA4			BG10-../DPE08XB4			BG10-../DPE09XB4			BG20-../DPE09XB4		
		86	363	0.98	91	504	2.1	94	673	1.6	86	1080	0.98	88	1434	1.2
	80	BG06-../D06LA4			BG10-../D08MA4			BG10-../DPE08XB4			BG10-../DPE09XB4			BG20-../DPE09XB4		
		86	363	0.98	82	566	1.9	79	797	1.35	86	1080	0.98	79	1602	1.1
	72	BG10-../D06LA4			BG10-../D08MA4			BG10-../DPE08XB4			BG20-../DPE09XB4			BG20-../DPE09XB4		
		74	420	2.5	69	673	1.6	79	797	1.35	69	1345	1.3	76	1664	1.05
	65	BG10-../D06LA4			BG10-../D08MA4			BG10-../DPE08XB4			BG20-../DPE09XB4			BG30-../DPE09XB4		
		67	460	2.3	64	726	1.45	67	938	1.15	64	1452	1.2	62	2036	1.3
	60	BG10-../D06LA4			BG10-../D08MA4			BG10-../DPE08XB4			BG20-../DPE09XB4			BG30-../DPE09XB4		
		62	496	2.1	58	797	1.35	67	938	1.15	57	1629	1.1	59	2124	1.25
	55	BG10-../D06LA4			BG10-../D08MA4			BG10-../DPE08XB4			BG20-../DPE09XB4			BG30-../DPE09XB4		
		56	558	1.9	54	859	1.25	60	1053	1	53	1752	1	53	2390	1.1
	50	BG10-../D06LA4			BG10-../D08MA4			BG15-../DPE08XB4			BG20-../DPE09XB4			BG30-../DPE09XB4		
		52	593	1.8	48.5	956	1.1	51	1239	1.05	53	1752	1	53	2390	1.1
	45	BG10-../D06LA4			BG10-../D08MA4			BG15-../DPE08XB4			BG30-../DPE09XB4			BG30-../DPE09XB4		
		47	664	1.6	42.5	1089	0.98	51	1239	1.05	50	1859	1.45	50	2522	1.05
	40	BG10-../D06LA4			BG10-../D08MA4			BG20-../DPE08XB4			BG30-../DPE09XB4			BG40-../DPE09XB4		
		41	761	1.4	42.5	1089	0.98	42	1505	1.2	41.5	2213	1.2	39.5	3186	1.2
	35	BG10-../D06LA4			BG20-../D08MA4			BG20-../DPE08XB4			BG30-../DPE09XB4			BG40-../DPE09XB4		
		37	841	1.25	35.5	1301	1.35	36.5	1735	1	37.5	2478	1.05	36.5	3452	1.1
	30	BG10-../D06LA4			BG20-../D08MA4			BG30-../DPE08XB4			BG40-../DPE09XB4			BG40-../DPE09XB4		
		29	1089	0.98	28.5	1629	1.1	33.5	1859	1.45	29.5	3142	1.2	33	3806	0.99
	26	BG10-../D06LA4			BG20-../D08MA4			BG30Z-../DPE08XB4			BG40Z-../DPE09XB4			BG50-../DPE09XB4		
		29	1089	0.98	28.5	1629	1.1	24	2611	1	26	3540	1.05	26.5	4779	1.15
	22	BG20Z-../D06LA4			BG30Z-../D08MA4			BG30Z-../DPE08XB4			BG50Z-../DPE09XB4			BG50Z-../DPE09XB4		
		24	1301	1.35	21	2213	1.2	24	2611	1	24.5	3762	1.5	24.5	5133	1.1
	20	BG20Z-../D06LA4			BG30Z-../D08MA4			BG40Z-../DPE08XB4			BG50Z-../DPE09XB4			BG60Z-../DPE09XB4		
		19	1637	1.1	21	2213	1.2	19.5	3231	1.15	18.5	4956	1.15	19.5	6461	1.65
	18	BG20Z-../D06LA4			BG30Z-../D08MA4			BG40Z-../DPE08XB4			BG50Z-../DPE09XB4			BG60Z-../DPE09XB4		
		18	1770	1	20	2301	1.15	19.5	3231	1.15	18.5	4956	1.15	17.5	7169	1.5
	16	BG20Z-../D06LA4			BG30Z-../D08MA4			BG40Z-../DPE08XB4			BG50Z-../DPE09XB4			BG60Z-../DPE09XB4		
		18	1770	1	18	2567	1.05	16.5	3806	0.99	17	5399	1.05	15	8408	1.25
	14	BG30Z-../D06LA4			BG40Z-../D08MA4			BG50Z-../DPE08XB4			BG60Z-../DPE09XB4			BG60Z-../DPE09XB4		
		13	2390	1.1	14	3319	1.15	13.5	4691	1.2	13.5	6815	1.55	13.5	9382	1.15
	12	BG30Z-../D06LA4			BG40Z-../D08MA4			BG50Z-../DPE08XB4			BG60Z-../DPE09XB4			BG60Z-../DPE09XB4		
		12	2699	0.98	12.5	3717	1	12.5	5045	1.1	11.5	8054	1.3	13.5	9382	1.15
	10	BG40Z-../D06LA4			BG50Z-../D08MA4			BG60Z-../DPE08XB4			BG60Z-../DPE09XB4			BG70Z-../DPE09XB4		
		9.8	3186	1.2	10.5	4425	1.25	11	5753	1.85	10.5	8851	1.2	9	14073	1.45

Match the appropriate GREEN Output Speed with the required BLUE/WHITE Motor Power for your application to identify the part number and performance.

Ratings shown reflect maximum gear capacity based on AGMA standards (minimum service factor = 1.0) with lubricant meeting ISO VG 220.

Ratings are based on operating at 60Hz and continuous duty cycle usage (16 hours per day).

Part numbers in BOLD text include an external gear stage (denoted by "Z").

For output speeds, output torque levels or motor HPs not shown, please contact the factory for selection assistance 1-800-387-0130.

Performance and Selection Tables BG

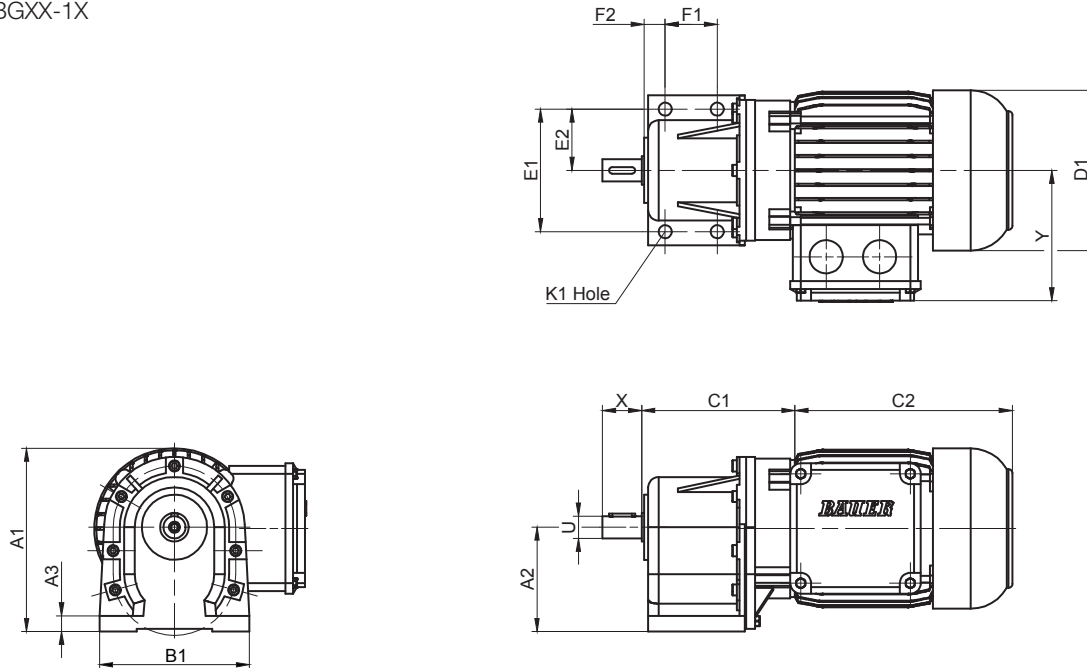
Bauer BG Series - Helical Inline Gear Motors																			
		Motor Power Rating (HP)																	
		3			5			7.5			10			15			20		
		Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor
Nominal Output Speed (RPM)	500	BG30-../DPE11LB4			BG30-../DPE11LB4			BG50-../DPE13XA4			BG50-../DPE13XA4			BG50-../DPE16LB4			BG50-../DPE16XB4		
	400	520	354	3.5	520	646	1.9	500	929	3.3	500	1266	2.4	510	1814	1.7	510	2478	1.25
		BG30-../DPE11LB4			BG30-../DPE11LB4			BG50-../DPE13XA4			BG50-../DPE13XA4			BG50-../DPE16LB4			BG50-../DPE16XB4		
	320	420	443	3.4	420	797	1.9	365	1266	2.8	360	1752	2	365	2522	1.4	365	3452	1
		BG30-../DPE11LB4			BG30-../DPE11LB4			BG50-../DPE13XA4			BG50-../DPE13XA4			BG50-../DPE16LB4			BG60-../DPE16XB4		
	250	325	566	3.1	325	1036	1.7	295	1575	2.5	295	2124	1.85	295	3142	1.25	290	4337	1.6
		BG30-../DPE11LB4			BG30-../DPE11LB4			BG50-../DPE13XA4			BG50-../DPE13XA4			BG50-../DPE16LB4			BG60-../DPE16XB4		
	200	235	788	2.6	235	1434	1.45	265	1752	2.3	265	2390	1.65	265	3496	1.15	260	4868	1.4
		BG30-../DPE11LB4			BG30-../DPE11LB4			BG50-../DPE13XA4			BG50-../DPE13XA4			BG50-../DPE16LB4			BG60-../DPE16XB4		
	175	205	903	2.4	205	1646	1.3	205	2257	2	205	3054	1.45	205	4514	1	195	6461	1.2
		BG30-../DPE11LB4			BG30-../DPE11LB4			BG50-../DPE13XA4			BG50-../DPE13XA4			BG60-../DPE16LB4			BG60-../DPE16XB4		
	150	166	1115	2.1	166	2036	1.15	184	2522	1.85	183	3452	1.35	176	5222	1.55	176	7169	1.15
		BG30-../DPE11LB4			BG30-../DPE11LB4			BG50-../DPE13XA4			BG50-../DPE13XA4			BG60-../DPE16LB4			BG60-../DPE16XB4		
	130	149	1248	1.95	149	2257	1.05	147	3142	1.6	147	4293	1.2	147	6284	1.4	147	8585	1
		BG30-../DPE11LB4			BG30-../DPE11LB4			BG50-../DPE13XA4			BG50-../DPE13XA4			BG60-../DPE16LB4			BG60-../DPE16XB4		
	110	128	1452	1.8	128	2611	1	133	3452	1.5	133	4691	1.1	133	6904	1.3	147	8585	1
		BG30-../DPE11LB4			BG40-../DPE11LB4			BG50-../DPE13XA4			BG60-../DPE13XA4			BG60-../DPE16LB4			BG70-../DPE16XB4		
	100	104	1770	1.5	108	3098	1.2	108	4293	1.3	106	5930	1.65	106	8762	1.1	115	10975	1.85
		BG30-../DPE11LB4			BG40-../DPE11LB4			BG50-../DPE13XA4			BG60-../DPE13XA4			BG60-../DPE16LB4			BG70-../DPE16XB4		
	90	104	1770	1.5	97	3452	1.1	97	4779	1.15	95	6638	1.55	96	9647	1.05	101	12480	1.65
		BG30-../DPE11LB4			BG40-../DPE11LB4			BG50-../DPE13XA4			BG60-../DPE13XA4			BG60-../DPE16LB4			BG70-../DPE16XB4		
	80	89	2080	1.3	89	3762	1	97	4779	1.15	95	6638	1.55	96	9647	1.05	85	14869	1.35
		BG30-../DPE11LB4			BG40-../DPE11LB4			BG50-../DPE13XA4			BG60-../DPE13XA4			BG70-../DPE16LB4			BG70-../DPE16XB4		
	72	89	2080	1.3	89	3762	1	81	5664	0.98	79	7966	1.35	78	11860	1.7	78	16197	1.25
		BG30-../DPE11LB4			BG50-../DPE11LB4			BG50-../DPE13XA4			BG60-../DPE13XA4			BG70-../DPE16LB4			BG70-../DPE16XB4		
	65	80	2301	1.15	73	4602	1.2	81	5664	0.98	79	7966	1.35	66	14073	1.45	66	19029	1.05
		BG40-../DPE11LB4			BG50-../DPE11LB4			BG60-../DPE13XA4			BG60-../DPE13XA4			BG70-../DPE16LB4			BG70-../DPE16XB4		
	60	68	2699	1.4	60	5576	1	61	7612	1.4	61	10355	1.05	66	14073	1.45	66	19029	1.05
		BG40-../DPE11LB4			BG50-../DPE11LB4			BG60-../DPE13XA4			BG60-../DPE13XA4			BG70-../DPE16LB4			BG70-../DPE16XB4		
	55	68	2699	1.4	60	5576	1	61	7612	1.4	61	10355	1.05	66	14073	1.45	66	19029	1.05
		BG50-../DPE11LB4			BG50-../DPE11LB4			BG60-../DPE13XA4			BG60-../DPE13XA4			BG70-../DPE16LB4			BG70-../DPE16XB4		
	50	54	3408	1.65	60	5576	1	61	7612	1.4	61	10355	1.05	51	18144	1.1	60	20799	0.98
		BG50-../DPE11LB4			BG60-../DPE11LB4			BG60-../DPE13XA4			BG70-../DPE13XA4			BG70-../DPE16LB4			BG80-../DPE16XB4		
	45	46.5	3983	1.4	45.5	7346	1.45	46	10090	1.05	51	12391	1.65	51	18144	1.1	47	26552	1.4
		BG50-../DPE11LB4			BG60-../DPE11LB4			BG60-../DPE13XA4			BG70-../DPE13XA4			BG70-../DPE16LB4			BG80-../DPE16XB4		
	40	46.5	3983	1.4	45.5	7346	1.45	46	10090	1.05	45.5	13896	1.45	45.5	20357	1	47	26552	1.4
		BG50-../DPE11LB4			BG60-../DPE11LB4			BG70-../DPE13XA4			BG70-../DPE13XA4			BG80-../DPE16LB4			BG80-../DPE16XB4		
	35	42	4425	1.25	41	8231	1.3	38.5	12037	1.7	38	16639	1.2	41	22569	1.65	41	30535	1.2
		BG50-../DPE11LB4			BG60-../DPE11LB4			BG70-../DPE13XA4			BG70-../DPE13XA4			BG80-../DPE16LB4			BG80-../DPE16XB4		
	30	34	5399	1.05	35	9647	1.1	35.5	13011	1.55	35.5	17701	1.15	36.5	25225	1.45	36.5	34518	1.1
		BG50-../DPE11LB4			BG60-../DPE11LB4			BG70Z-../DPE13XA4			BG70-../DPE13XA4			BG80-../DPE16LB4			BG100-../DPE16XB4		
	26	34	5399	1.05	32	10532	1	27.5	16905	1.2	30	20799	0.98	28.5	32305	1.15	28.5	44254	3.1
		BG60Z-../DPE11LB4			BG70Z-../DPE11LB4			BG70Z-../DPE13XA4			BG80Z-../DPE13XA4			BG80Z-../DPE16LB4			BG100-../DPE16XB4		
	22	26	7081	1.5	27.5	12214	1.65	27.5	16905	1.2	27	23454	1.6	27	34075	1.1	25.5	49564	2.8
		BG60Z-../DPE11LB4			BG70Z-../DPE11LB4			BG70Z-../DPE13XA4			BG80Z-../DPE13XA4			BG100-../DPE16LB4			BG100-../DPE16XB4		
	20	23.5	7877	1.35	20.5	16462	1.25	24	19029	1.05	21	30093	1.25	20	46024	3.2	22.5	55760	2.6
		BG60Z-../DPE11LB4			BG70Z-../DPE11LB4			BG80Z-../DPE13XA4			BG80Z-../DPE13XA4			BG100-../DPE16LB4			BG100-../DPE16XB4		
	18	19.5	9470	1.1	20.5	16462	1.25	19	24340	1.55	19	33190	1.1	20	46024	3.2	22.5	55760	2.6
		BG60Z-../DPE11LB4			BG70Z-../DPE11LB4			BG80Z-../DPE13XA4			BG80Z-../DPE13XA4			BG100-../DPE16LB4			BG100-../DPE16XB4		
	16	17.5	10621	1	18.5	18144	1.1	19	24340	1.55	19	33190	1.1	17	53990	2.8	17	74346	2
		BG60Z-../DPE11LB4			BG80Z-../DPE11LB4			BG80Z-../DPE13XA4			BG90Z-../DPE13XA4			BG100-../DPE16LB4			BG100-../DPE16XB4		
14	17.5	10621	1	16	20799	1.8	16	28765	1.3	17	37173	2	15	61955	2.4	15	84082	1.75	
	BG70Z-../DPE11LB4			BG80Z-../DPE11LB4			BG80Z-../DPE13XA4			BG100-../DPE13XA4			BG100-../DPE16LB4			BG100-../DPE16XB4			
12	14.5	12745	1.6	14.5	23012	1.6	14.5	31863	1.15	13	48679	3.1	13	70806	2.1	13	97358	1.55	
	BG70Z-../DPE11LB4			BG80Z-../DPE11LB4			BG80Z-../DPE13XA4			BG100-../DPE13XA4			BG100-../DPE16LB4			BG100-../DPE16XB4			
10	12	15489	1.3	12.5	26995	1.4	12.5	37173	1	11.5	54875	2.7	11.5	80542	1.85	11.5	109749	1.35	
	BG90Z-../DPE11LB4			BG80Z-../DPE11LB4			BG100-../DPE13XA4			BG100-../DPE13XA4			BG100-../DPE16LB4			BG100-../DPE16XB4			
	9.1	20357	1	9.5	35403	1.05	10	46024	3.2	9.9	63725	2.3	10	92933	1.6	10	126566	1.15	

Dimensions BG

BG05-BG06

Drawings represent Housing Style 1

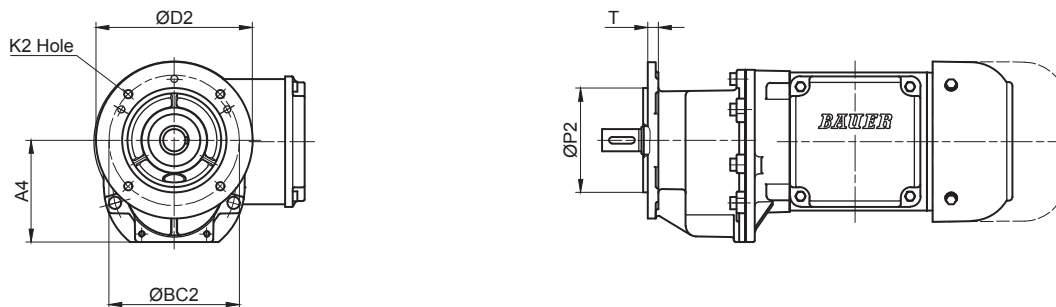
BGXX-1X



Output Flange Option

Drawings represent Housing Style 3

BGXX-3X



Dimensions in inches

Gearbox	A1	A2	A3	A4	B1	BC2	D2	E1	E2	F1	F2	K1	K2	P2	T	U	X
BG05	4.31	2.56	0.39	2.52	4.13	3.150	3.94	3.58	1.79	1.57	0.43	0.28	0.26	2.362	0.31	0.5	1.00
BG06	5.28	3.15	0.47	3.07	4.53	3.937	4.72	3.70	1.85	1.57	0.71	0.39	0.26	3.150	0.31	0.625	1.18

Fixing hardware for Output Shaft (ie Key) is supplied with Gearmotor

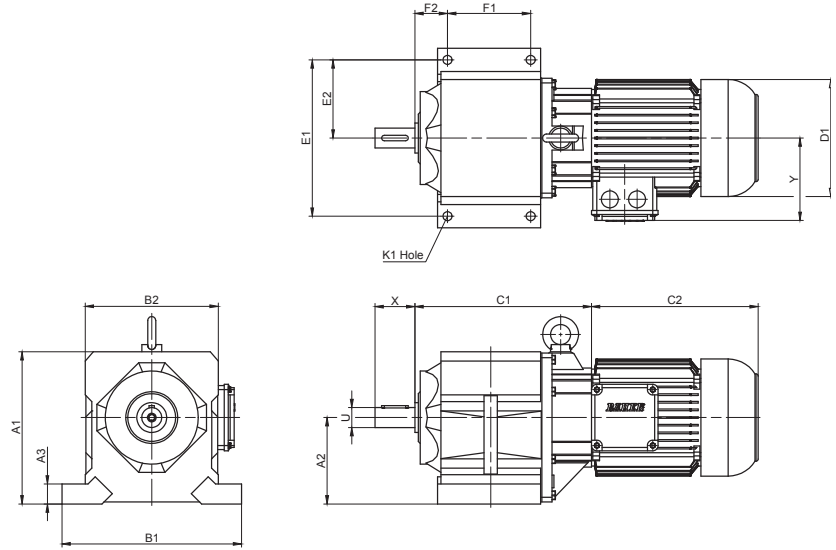
Dimensions in inches

Motor	C2	D1	Y	C1	
				BG05	BG06
D..08	7.85	6.14	5.37	4.17	4.49

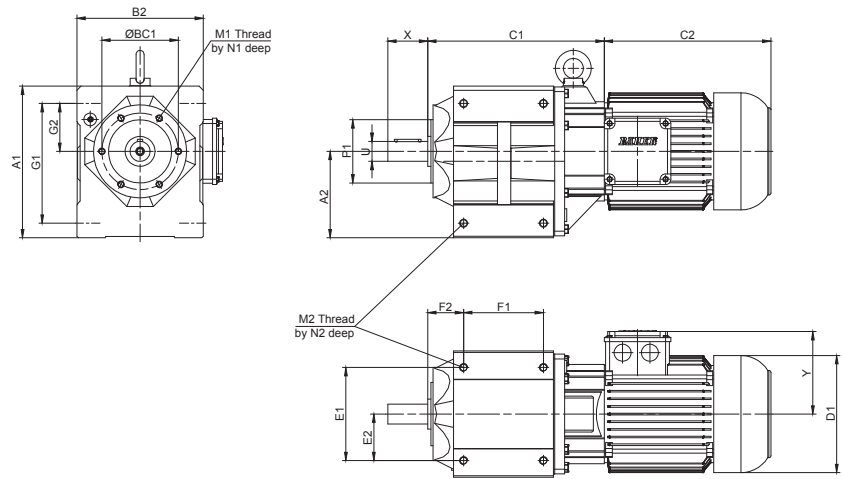
Dimensions BG

BG10-BG90

Drawings represent Housing Style 1
BGXX-1X

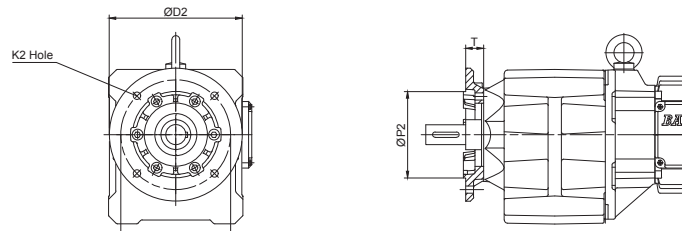


Drawings represent Housing Style 8
BGXX-8X



Output Flange Option

Drawings represent Housing Style 3
BGXX-3X



Dimensions in inches

Gearbox	A1	A2	A3	B1	B2	BC1	BC2	D2	E1	E2	F1	F2	G1	G2	K1	K2	M1	M2	N1	N2	P1	P2	T	U	X
BG10	5.87	3.54	0.59	7.09	4.96	2.95	4.528	5.35	6.30	3.15	3.54	1.52	4.72	1.69	0.35	0.35	M6	M8	0.47	0.63	2.360	3.740	0.39	0.75	1.57
BG20	7.03	3.94	0.79	7.87	5.51	3.94	5.118	5.75	6.89	3.45	3.94	1.56	5.70	2.36	0.35	0.35	M8	M8	0.63	0.63	3.150	4.331	0.39	1.00	1.97
BG30	8.03	4.53	0.83	8.91	6.30	3.94	6.496	6.71	7.87	3.94	4.53	1.69	6.42	2.60	0.43	0.43	M8	M10	0.63	0.71	3.150	5.118	0.47	1.25	2.36
BG40	9.02	5.12	1.18	10.63	7.48	4.53	6.496	7.95	9.25	4.63	4.92	1.93	7.09	2.83	0.53	0.43	M10	M12	0.78	0.94	3.740	5.118	0.47	1.25	2.36
BG50	10.86	6.10	1.38	11.81	9.06	5.12	8.465	9.45	10.43	5.22	5.51	2.26	8.27	3.33	0.69	0.60	M10	M14	0.79	1.10	4.330	7.087	0.63	1.62	3.15
BG60	13.58	7.87	1.65	13.78	11.02	6.50	10.433	11.41	12.20	6.10	7.09	2.42	10.24	4.00	0.68	0.60	M12	M16	0.95	1.26	5.120	9.055	0.78	2.12	3.94
BG70	15.20	9.06	1.85	15.75	11.57	7.09	11.811	13.78	13.78	6.89	7.09	2.89	N/A	N/A	0.87	0.69	M12	N/A	0.94	N/A	5.900	9.843	0.78	2.37	4.72
BG80	18.50	11.42	2.24	18.90	13.70	8.46	13.780	15.75	16.54	8.27	8.27	3.03	N/A	N/A	1.02	0.69	M16	N/A	1.26	N/A	7.080	11.811	0.78	2.87	5.51
BG90	21.77	13.78	2.68	21.26	16.14	10.43	15.748	17.72	18.90	9.45	10.63	3.39	N/A	N/A	1.02	0.69	M20	N/A	1.57	N/A	9.060	13.780	0.86	4.00	8.27

Fixing hardware for Output Shaft (ie Key) is supplied with Gearmotor

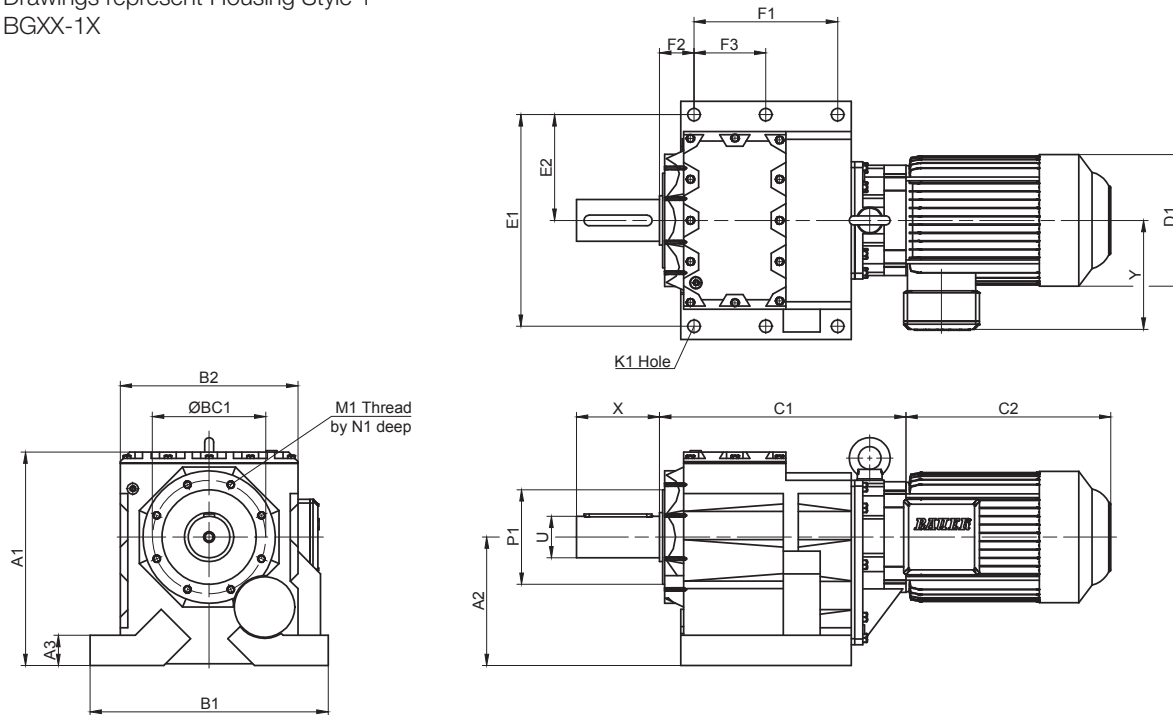
Dimensions in inches

Motor	C2	D1	Y	C1																			
				BG10	BG10Z	BG20	BG20Z	BG30	BG30Z	BG40	BG40Z	BG50	BG50Z	BG60	BG60Z	BG70	BG70Z	BG80	BG80Z	BG90	BG90Z		
D..08	7.85	6.14	5.37	8.27	10.87	8.60	11.83	9.33	12.30	11.04	14.29	11.55	14.94	-	17.58	-	19.11	-	-	-	-		
D..09	9.86	6.93	6.18	8.84	-	9.17	-	9.90	12.87	11.61	14.86	12.12	15.51	-	13.82	18.15	14.45	19.68	-	22.58	-	26.10	
D..11	12.56	8.58	6.93	-	-	-	-	10.16	-	11.87	-	12.38	-	14.07	18.40	14.70	19.94	16.07	22.84	-	26.87		
D..13	15.47	10.16	8.54	-	-	-	-	-	-	-	-	12.89	-	14.58	-	15.22	20.45	16.58	23.35	19.53	26.87		
D..16	17.89	12.20	9.57	-	-	-	-	-	-	-	-	13.44	-	15.14	-	15.77	21.00	17.13	23.9	20.08	27.42		

Dimensions BG

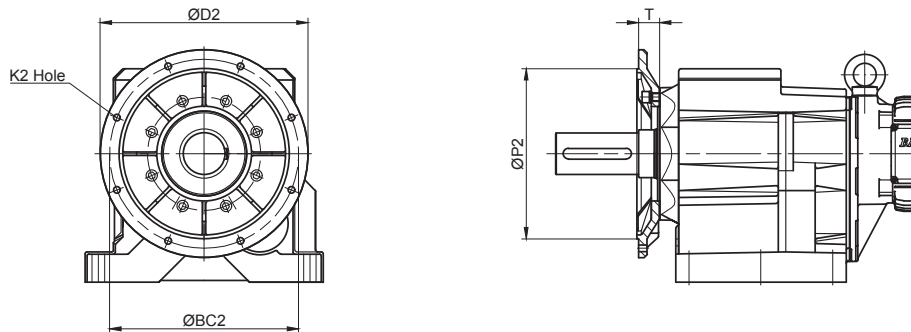
BG100

Drawings represent Housing Style 1
BGXX-1X



Output Flange Option

Drawings represent Housing Style 3
BGXX-1X



Dimensions in inches

Gearbox	A1	A2	A3	B1	B2	BC1	BC2	D2	E1	E2	F1	F2	F3	K1	K2	M1	N1	P1	P2	T	U	X
BG100	22.24	13.39	3.15	24.80	18.90	11.81	19.685	21.65	22.05	11.61	14.96	3.58	7.48	1.30	0.689	M20	1.57	9.840	17.717	0.86	4.37	8.27

Fixing hardware for Output Shaft (ie Key) is supplied with Gearmotor

Dimensions in inches

Motor	C2	D1	Y	C1	
				BG100	BG100Z
D..09	9.86	6.93	6.18	-	30.25
D..11	12.15	8.58	6.93	23.74	30.51
D..13	15.47	10.16	8.54	24.25	31.02
D..16	17.89	12.2	9.57	24.8	31.57

Lined area for technical drawing or notes.



Shaft Mounted Geared Motor Series BF

Three phase shaft mounted geared motors for driving machines and equipment of all types



Easy-to-install!

Drive solutions from 0.04 HP to 50 HP

Gearbox

- Torque: 797 lbf-in ... 163,739 lbf-in
- Ratios:
 - two-stage: 5.22 - 141.80
 - three-stage: 11.42 - 269.10
- Versatile installation possibilities
- Completely enclosed, sealed against dust and water spray
- Lubrication change first
 - after 15,000 hrs (mineral oil)
 - after 25,000 hrs (synthetic oil)
- Low noise gearing

Motors

- Power: 0.04 HP ... 100 HP
- Mains supply: 110 V ... 690 V, 50/60 Hz
- Enclosure: IP 54 (standard only for D..04 and D..05)
IP 65 (standard)
IP 66 - IP 68 (optional)
- Connection: Terminal Board with optional CAGE CLAMP®

Motor Options

- NEMA C-Face up to 405TC
- Connecting with plug connectors
- With integrated inverter up to 10 HP
- IE3 up to 50 HP with ASM
- IE4 up to 15 HP with PMSM

Brakes

- Enclosure IP 65 (Standard)
IP 66 and IP 68 (optional)
- Performance and application optimized brake range
- Maintenance friendly design

Standards

- ATEX
- CCC
- CE marking
- CSA
- EAC
- INMETRO
- ISO14001
- ISO9001
- OHSAS18001
- UL

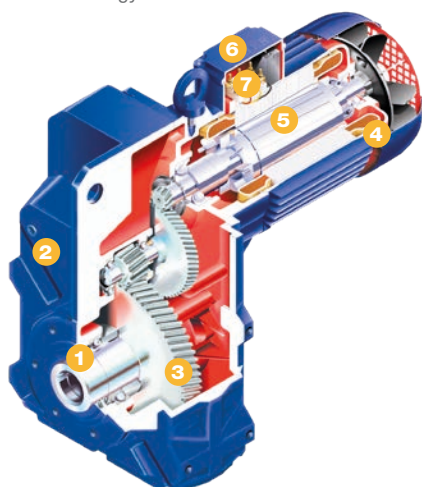
General

- Corrosion protection: C1 ... C5, IM2 based on DIN EN ISO 12944-5
- C1 is mild protection
- C5 is extreme protection



7 CAGE CLAMP®

- Standard with conventional terminal board
- Optional CAGE CLAMP® technology



Shaft Mounted Geared Motor Series BF

Easy-to-install!

Bauer Gear Motor supplies modern drive solutions for all industry sectors in which material must be moved.

1 Design

- As standard in 2-stage design, as from BF80 3-stage.
- Attachment by means of hollow shaft, solid shaft, torque arm, flange or foot.
- Higher ratios available through attachment of a purpose built pre-stage or pre-connected gearbox.
- Reduced axial space requirement using hollow shaft design with torque arm. Coupling no longer necessary.
- No expensive leveling, as neither foundation nor foot plate or flange is required.

2 Housing

- State-of-the-art gearbox housing designed for operation under harsh conditions.
- Compact closed housing is ideal for preventing lubricant loss and dirt build-up.
- High tensile cast housing.
- Vibration-free housing, noise absorbent and resistant against chemical effects.
- The single crimping process provides a level of higher accuracy lower noise and reduce chances of leakage due to core shifts.
- Stator housings with casing and cooling fins are manufactured in one casting and ensure efficient heat dissipation.
- Motor housings, bearing covers and terminal boxes made of corrosion resistant aluminium die casting.

3 Gear wheels

- Gear wheels made of high tensile and case hardened steel.
- Highly wear resistant through flank hardness of 60-62 HRC.
- Impervious to shock.
- Tooth flanks shaved, hobbled or ground.
- Strong, non-flexible pinion shafts and bearings guarantee exact tooth meshing.

4 Stator winding

- The stator winding is manufactured from high quality enamelled copper wire with state-of-the-art three layer insulation in the stator slot and end coils.
- The stator winding is impregnated with a moisture resistant and tropical safe resin.
- The electrical design of the motor is adapted to the gearbox.

5 Rotor

- Aluminium die cast cage rotor ensures a high reliability at high starting torques and low starting currents.
- Torque troughs are avoided on startup and acceleration to provide reliable performance in high demand applications

6 Terminal box

- Spacious terminal box also completely sealed against dust and water spray.
- A large measure on safety through CAGE CLAMP® connection technology on the winding ends and motor connection.
- Handy terminals allow easy connection.

Ordering Information BF

Gearing Options					Motor Options			Other Options		
BF	10	(blank)	-	1	1	/ DPE08XB4	- TF	/ (blank)	/ AV	/ (blank)
Type	Size	Gear Stages	Housing Style		Shaft Style	Type	Feature	Brake	Shaft Options	Other
BF - Helical Parallel Shaft	06	Blank - standard	1 - Cast Feet, Thru Holes (BF80-BF90 only)		1 - Solid	D08MA4	Blank-none	Blank-none	AV - Inch	Blank-none
	10	Z - Add'l stage			4 - Hollow	DPE08XB4	TF - thermistors	see Page 44-45 for Brake options	AM - Metric	
	20		3 - Flange (Standard) (BF10-BF90 only)			DPE09XB4				
	30					DPE11LB4				
	40		8 - Feet / Tapped Holes (BF06-BF70 only)			DPE13XA4				
	50					DPE16LB4				
	60					DPE16XB4				
	70									
	80									
90										

Customer must provide the following at time of order:

- 1) Selected HP from Chart 1
- 2) Selected OUTPUT RPM from Selection Table on pages 20-21
- 3 SUPPLY VOLTAGE to power motor
- 4) MOUNTING POSITION from Chart 2 on page 19

Chart 1

Motor Type	HP	Available Frame Sizes									
		BF06	BF10	BF20	BF30	BF40	BF50	BF60	BF70	BF80	BF90
D08MA4	0.5	X	X	X	X	X	-	-	-	-	-
D08MA4	0.75	X	X	X	X	X	-	-	-	-	-
DPE08XB4	1	-	X	X	X	X	X	-	-	-	-
DPE09XB4	1.5	-	X	X	X	X	X	X	-	-	-
DPE09XB4	2	-	X	X	X	X	X	X	-	-	-
DPE11LB4	3	-	-	-	X	X	X	X	X	-	-
DPE11LB4	5	-	-	-	X	X	X	X	X	X	-
DPE13XA4	7.5	-	-	-	-	-	X	X	X	X	-
DPE13XA4	10	-	-	-	-	-	X	X	X	X	X
DPE16LB4	15	-	-	-	-	-	X	X	X	X	X
DPE16XB4	20	-	-	-	-	-	X	X	X	X	X

Gearbox Specifications

Model	Torque Rating (lbf-in)	Solid Shaft Sizes (BFxx-x1)		Hollow Shaft Sizes (BFxx-x4)	
		Inch (in) AV Option	Metric (mm) AM Option	Inch (in) AV Option	Metric (mm) AM Option
BF06	840	1.00	25	1.00	25
BF10	2124	1.25	30	1.00	25
BF20	3717	1.375	35	1.25	30
BF30	5044	1.625	40	1.375	35
BF40	7965	2.125	50	1.50	40
BF50	11505	2.375	60	2.00	50
BF60	20356	2.875	70	2.375	60
BF70	46023	3.625	90	3.00	80
BF80	84081	4.375	110	3.875	100
BF90	148691	5.00	130	4.50	120

Motor Specifications

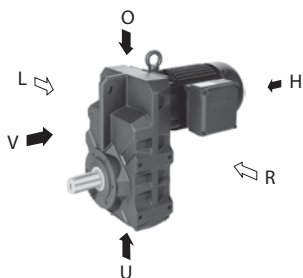
Type	Voltage	Nominal Motor Speed	Frequency	Enclosure	Turndown****
ASM Asynchronous	230 V or 460 V**	1800 rpm	60 Hz	TEFC - fan-cooled	10:1 (continuous)
** Contact factory for voltages not shown					
**** Gearmotors sized in this catalog will be reliable for a 10X turn-down under (S1) continuous operation. Gearmotors can be provided for up to 1000X turn-down after consultation with the factory.					

Important Ordering Comments:

- Additional Output Shaft options are also available (contact factory for more info)
- Additional Motor Options (contact factory for more info): Brakes; encoders; special voltages; Non-std cable exits; variable cable lengths
- Supplied with CLP 220 VG oil. Other oil options available upon request.

Standard Mounting Positions BF

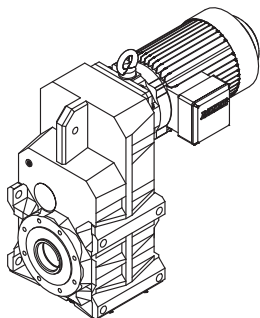
BF series: image shows mounting position H4



V =	Front The side of the gear unit facing away from the motor or the source of motive power
H =	Rear The side of the gear unit facing toward the motor or the source of motive power
L =	Left The left side of the gear unit as viewed from the output shaft side of mounting position H4
R =	Right The right side of the gear unit as viewed from the output shaft side of mounting position H4

Chart 2

BF Series						
Gear side	(R)	(L)	(O)	(U)	(V)	(H)
Mounting position	H1	H2	H3	H4	V1	V2



Performance and Selection Tables BF

Bauer BF Series - Helical Parallel Shaft Gear Motors																
		Motor Power Rating (HP)														
		0.5			0.75			1			1.5			2		
		Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor
Nominal Output Speed (RPM)	300	-			BF06-../D08MA4			BF06-../DPE08XB4			BF10-../DPE09XB4			BF10-../DPE09XB4		
					295	158	3.5	305	204	2.7	315	292	4.2	315	398	3.1
	225	BF06-../D06LA4			BF06-../D08MA4			BF06-../DPE08XB4			BF10-../DPE09XB4			BF10-../DPE09XB4		
		215	145	4.1	220	208	2.9	230	274	2.2	235	394	3.4	235	531	2.6
	175	BF06-../D06LA4			BF06-../D08MA4			BF06-../DPE08XB4			BF10-../DPE09XB4			BF10-../DPE09XB4		
		176	177	3.5	183	252	2.5	189	332	1.85	182	504	3.1	181	699	2.2
	140	BF06-../D06LA4			BF06-../D08MA4			BF06-../DPE08XB4			BF10-../DPE09XB4			BF10-../DPE09XB4		
		135	230	2.9	140	332	2	144	438	1.5	149	620	2.6	148	850	1.9
	120	BF06-../D06LA4			BF06-../D08MA4			BF06-../DPE08XB4			BF10-../DPE09XB4			BF10-../DPE09XB4		
		115	270	2.8	119	389	1.95	123	513	1.45	117	788	2.1	117	1080	1.5
	100	BF06-../D06LA4			BF06-../D08MA4			BF06-../DPE08XB4			BF10-../DPE09XB4			BF10-../DPE09XB4		
		96	323	2.6	99	469	1.8	103	611	1.4	97	956	2.2	96	1319	1.6
	90	BF06-../D06LA4			BF06-../D08MA4			BF06-../DPE08XB4			BF10-../DPE09XB4			BF10-../DPE09XB4		
		96	323	2.6	83	558	1.5	85	743	1.15	88	1053	2	88	1434	1.5
	80	BF06-../D06LA4			BF06-../D08MA4			BF06-../DPE08XB4			BF10-../DPE09XB4			BF10-../DPE09XB4		
		80	389	2.2	83	558	1.5	85	743	1.15	76	1221	1.75	75	1690	1.25
	70	-			BF06-../D08MA4			BF10-../DPE08XB4			BF10-../DPE09XB4			BF10-../DPE09XB4		
					63	735	1.15	68	929	2.3	69	1345	1.6	69	1814	1.15
	62	BF06-../D06LA4			BF06-../D08MA4			BF10-../DPE08XB4			BF10-../DPE09XB4			BF10-../DPE09XB4		
		61	504	1.65	63	735	1.15	61	1036	2.1	69	1345	1.6	69	1814	1.15
	56	BF06-../D06LA4			BF06-../D08MA4			BF10-../DPE08XB4			BF10-../DPE09XB4			BF10-../DPE09XB4		
		52	593	1.4	54	859	0.98	61	1036	2.1	57	1629	1.3	62	2036	1.05
	50	BF06-../D06LA4			BF06-../D08MA4			BF10-../DPE08XB4			BF10-../DPE09XB4			BF20-../DPE09XB4		
		52	593	1.4	54	859	0.98	48	1319	1.6	49	1859	1.15	49	2567	1.45
	45	BF06-../D06LA4			BF10-../D08MA4			BF10-../DPE08XB4			BF10-../DPE09XB4			BF20-../DPE09XB4		
		43	726	1.15	46.5	991	2.1	44	1434	1.5	44.5	2080	1	42	3009	1.25
	40	BF06-../D06LA4			BF10-../D08MA4			BF10-../DPE08XB4			BF10-../DPE09XB4			BF20-../DPE09XB4		
		43	726	1.15	39.5	1168	1.8	40.5	1558	1.35	44.5	2080	1	38.5	3275	1.15
	35	BF10-../D06LA4			BF10-../D08MA4			BF10-../DPE08XB4			BF20-../DPE09XB4			BF20-../DPE09XB4		
		35	903	2.4	35.5	1301	1.65	34	1859	1.15	36.5	2522	1.45	36	3496	1.05
	30	BF10-../D06LA4			BF10-../D08MA4			BF10-../DPE08XB4			BF20-../DPE09XB4			BF20-../DPE09XB4		
		29	1071	2	33	1407	1.5	31	2036	1.05	30.5	3009	1.25	33	3806	0.98
	26	BF10-../D06LA4			BF10-../D08MA4			BF20-../DPE08XB4			BF20-../DPE09XB4			BF30-../DPE09XB4		
		27	1177	1.8	25	1859	1.15	25	2522	1.45	25.5	3629	1	29	4337	1.15
	22	BF10-../D06LA4			BF10-../D08MA4			BF20-../DPE08XB4			BF30-../DPE09XB4			BF30-../DPE09XB4		
		21	1487	1.45	22	2080	1	23	2744	1.35	22.5	4116	1.25	24.5	5133	0.99
20	BF10-../D06LA4			BF10-../D08MA4			BF20-../DPE08XB4			BF30-../DPE09XB4			BF40-../DPE09XB4			
	19	1637	1.3	22	2080	1	20	3142	1.2	20.5	4514	1.15	19	6638	1.2	
18	BF10-../D06LA4			BF20-../D08MA4			BF20-../DPE08XB4			BF30-../DPE09XB4			BF40-../DPE09XB4			
	19	1637	1.3	17	2699	1.4	17.5	3585	1.05	18.5	4956	1.05	17.5	7169	1.1	
16	BF10-../D06LA4			BF20-../D08MA4			BF20-../DPE08XB4			BF40-../DPE09XB4			BF40-../DPE09XB4			
	17	1859	1.15	15.5	2965	1.25	17.5	3585	1.05	17.5	5310	1.5	17.5	7169	1.1	
14	BF10-../D06LA4			BF20-../D08MA4			BF30-../DPE08XB4			BF40-../DPE09XB4			BF50Z-../DPE09XB4			
	15	2124	1	15.5	2965	1.25	15	4204	1.2	14.5	6373	1.25	13	9736	1.2	
12	BF20Z-../D06LA4			BF20-../D08MA4			BF30-../DPE08XB4			BF40Z-../DPE09XB4			BF50Z-../DPE09XB4			
	12	2699	1.4	12.5	3717	1	13	4868	1.05	11.5	8054	0.99	11.5	10975	1.05	
10	BF20Z-../D06LA4			BF30Z-../D08MA4			BF40Z-../DPE08XB4			BF50Z-../DPE09XB4			BF60Z-../DPE09XB4			
	10	3142	1.2	9.6	4779	1.05	10.5	6019	1.3	9.6	9647	1.2	10.5	12037	1.7	
9	BF20Z-../D06LA4			BF30Z-../D08MA4			BF40Z-../DPE08XB4			BF50Z-../DPE09XB4			BF60Z-../DPE09XB4			
	9.9	3142	1.2	9.6	4779	1.05	9.3	6815	1.15	8.6	10798	1.05	9.3	13630	1.5	
8	BF20Z-../D06LA4			BF40Z-../D08MA4			BF40Z-../DPE08XB4			BF50Z-../DPE09XB4			BF60Z-../DPE09XB4			
	8.3	3762	0.99	7.6	6107	1.3	7.9	7966	1	8.6	10798	1.05	7.9	16020	1.25	
7	BF30Z-../D06LA4			BF40Z-../D08MA4			BF40Z-../DPE08XB4			BF60Z-../DPE09XB4			BF60Z-../DPE09XB4			
	7.3	4248	1.2	6.7	6904	1.15	7.9	7966	1	7.2	12834	1.6	7.2	17524	1.15	
6	BF30Z-../D06LA4			BF40Z-../D08MA4			BF50Z-../DPE08XB4			BF60Z-../DPE09XB4			BF60Z-../DPE09XB4			
	6.2	4956	1.05	6.1	7612	1.05	6.3	10001	1.15	6	15489	1.3	6	20799	0.98	

Match the appropriate GREEN Output Speed with the required BLUE/WHITE Motor Power for your application to identify the part number and performance.

Ratings shown reflect maximum gear capacity based on AGMA standards (minimum service factor = 1.0) with lubricant meeting ISO VG 220.

Ratings are based on operating at 60Hz and continuous duty cycle usage (16 hours per day).

Part numbers in BOLD text include an external gear stage (denoted by "Z").

For output speeds, output torque levels or motor HPs not shown, please contact the factory for selection assistance 1-800-387-0130.

BF Series - Parallel Helical Gear Motor

B

Performance and Selection Tables BF

Bauer BF Series - Helical Parallel Shaft Gear Motors

		Motor Power Rating (HP)																	
		3			5			7.5			10			15			20		
		Actual Output Speed (rpm)"	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor
Nominal Output Speed (RPM)	300	BF30-../DPE11LB4			BF30-../DPE11LB4			BF50-../DPE13XA4			BF50-../DPE13XA4			BF50-../DPE16LB4			BF50-../DPE16XB4		
	280	664	3.5	280	1204	1.95	330	1407	3.1	330	1903	2.3	335	2744	1.6	335	3762	1.15	
	225	BF30-../DPE11LB4			BF30-../DPE11LB4			BF50-../DPE13XA4			BF50-../DPE13XA4			BF50-../DPE16LB4			BF60-../DPE16XB4		
	220	841	3	220	1531	1.65	230	1991	2.5	230	2744	1.8	235	3939	1.25	230	5487	1.4	
	175	BF30-../DPE11LB4			BF30-../DPE11LB4			BF50-../DPE13XA4			BF50-../DPE13XA4			BF50-../DPE16LB4			BF60-../DPE16XB4		
	177	1044	2.7	177	1903	1.5	166	2788	2.1	166	3806	1.55	167	5487	1.1	173	7258	1.25	
	140	BF30-../DPE11LB4			BF30-../DPE11LB4			BF60-../DPE13XA4			BF60-../DPE13XA4			BF60-../DPE16LB4			BF60-../DPE16XB4		
	137	1354	2.4	137	2434	1.35	125	3717	2.8	124	5045	2.1	125	7435	1.4	125	10090	1.05	
	120	BF30-../DPE11LB4			BF30-../DPE11LB4			BF50-../DPE13XA4			BF50-../DPE13XA4			BF60-../DPE16LB4			BF60-../DPE16XB4		
	110	1690	2.1	110	3054	1.2	121	3806	1.85	121	5222	1.35	125	7435	1.4	125	10090	1.05	
	100	BF30-../DPE11LB4			BF30-../DPE11LB4			BF50-../DPE13XA4			BF50-../DPE13XA4			BF60-../DPE16LB4			BF60-../DPE16XB4		
	100	1859	2.3	100	3363	1.25	95	4868	1.8	95	6638	1.35	95	9736	1.4	95	13276	1	
	90	BF30-../DPE11LB4			BF30-../DPE11LB4			BF50-../DPE13XA4			BF50-../DPE13XA4			BF60-../DPE16LB4			BF60-../DPE16XB4		
	91	2036	2.2	91	3673	1.2	95	4868	1.8	95	6638	1.35	95	9736	1.4	95	13276	1	
	80	BF30-../DPE11LB4			BF30-../DPE11LB4			BF50-../DPE13XA4			BF50-../DPE13XA4			BF60-../DPE16LB4			BF70-../DPE16XB4		
	81	2257	2.1	81	4160	1.15	77	6019	1.65	77	8231	1.2	79	11683	1.25	85	14869	2.7	
	70	BF30-../DPE11LB4			BF30-../DPE11LB4			BF50-../DPE13XA4			BF50-../DPE13XA4			BF60-../DPE16LB4			BF70-../DPE16XB4		
	74	2478	2	74	4514	1.1	69	6727	1.55	69	9116	1.15	72	12834	1.2	73	17347	2.6	
	62	BF30-../DPE11LB4			BF40-../DPE11LB4			BF50-../DPE13XA4			BF50-../DPE13XA4			BF60-../DPE16LB4			BF70-../DPE16XB4		
	63	2921	1.75	60	5576	1.3	56	8231	1.35	56	11240	1	58	16020	1.05	66	19029	2.4	
	56	BF30-../DPE11LB4			BF40-../DPE11LB4			BF50-../DPE13XA4			BF50-../DPE13XA4			BF60-../DPE16LB4			BF70-../DPE16XB4		
	57	3231	1.6	52	6461	1.15	56	8231	1.35	56	11240	1	58	16020	1.05	56	22569	2	
50	BF30-../DPE11LB4			BF40-../DPE11LB4			BF50-../DPE13XA4			BF50-../DPE13XA4			BF60-../DPE16LB4			BF70-../DPE16XB4			
51	3629	1.4	52	6461	1.15	56	8231	1.35	56	11240	1	52	17701	0.99	48.5	26110	1.75		
45	BF30-../DPE11LB4			BF40-../DPE11LB4			BF50-../DPE13XA4			BF60-../DPE13XA4			BF70-../DPE16LB4			BF70-../DPE16XB4			
46	4027	1.25	47	7169	1.1	42	11063	1.05	42.5	14869	1.25	41.5	22127	2.1	41.5	30535	1.5		
40	BF30-../DPE11LB4			BF40-../DPE11LB4			BF50-../DPE13XA4			BF60-../DPE13XA4			BF70-../DPE16LB4			BF70-../DPE16XB4			
39.5	4691	1.1	42.5	7877	1	42	11063	1.05	38.5	16462	1.2	41.5	22127	2.1	41.5	30535	1.5		
35	BF30-../DPE11LB4			BF50-../DPE11LB4			BF60-../DPE13XA4			BF60-../DPE13XA4			BF70-../DPE16LB4			BF70-../DPE16XB4			
39.5	4691	1.1	37.5	8939	1.3	33	14073	1.45	32.5	19472	1.05	37.5	24782	1.85	37.5	33633	1.35		
30	BF40-../DPE11LB4			BF50-../DPE11LB4			BF60-../DPE13XA4			BF60-../DPE13XA4			BF70-../DPE16LB4			BF70-../DPE16XB4			
33	5576	1.45	31	10886	1.05	29.5	15754	1.3	32.5	19472	1.05	29	31863	1.45	29	43369	1.05		
26	BF50-../DPE11LB4			BF60-../DPE11LB4			BF60-../DPE13XA4			BF70-../DPE13XA4			BF70-../DPE16LB4			BF70-../DPE16XB4			
24.5	7523	1.55	24.5	13719	1.5	25	18587	1.1	24.5	25667	1.8	25	37173	1.25	29	43369	1.05		
22	BF50-../DPE11LB4			BF60-../DPE11LB4			BF60-../DPE13XA4			BF70-../DPE13XA4			BF70-../DPE16LB4			BF80-../DPE16XB4			
24.5	7523	1.55	24.5	13719	1.5	22.5	20357	1	24.5	25667	1.8	22	42041	1.1	21.5	58415	1.45		
20	BF50-../DPE11LB4			BF60-../DPE11LB4			BF60-../DPE13XA4			BF70-../DPE13XA4			BF70-../DPE16LB4			BF80-../DPE16XB4			
22	8408	1.35	19	17701	1.15	22.5	20357	1	18.5	34075	1.35	22	42041	1.1	19	66381	1.25		
18	BF50-../DPE11LB4			BF60-../DPE11LB4			BF70-../DPE13XA4			BF70-../DPE13XA4			BF80-../DPE16LB4			BF80-../DPE16XB4			
17.5	10621	1.1	17	19472	1.05	17	26995	1.7	18.5	34075	1.35	19	48679	1.75	19	66381	1.25		
16	BF50-../DPE11LB4			BF60-../DPE11LB4			BF70-../DPE13XA4			BF70-../DPE13XA4			BF80-../DPE16LB4			BF80-../DPE16XB4			
17.5	10621	1.1	17	19472	1.05	17	26995	1.7	17	37173	1.25	16.5	55760	1.5	16.5	76116	1.1		
14	BF60-../DPE11LB4			BF70-../DPE11LB4			BF70-../DPE13XA4			BF70-../DPE13XA4			BF80-../DPE16LB4			BF80-../DPE16XB4			
14.5	12745	1.6	14.5	23012	2	14.5	31863	1.45	14.5	43369	1.05	13	70806	1.2	15	84082	1		
12	BF60Z-../DPE11LB4			BF70Z-../DPE11LB4			BF70Z-../DPE13XA4			BF70Z-../DPE13XA4			BF80-../DPE16LB4			BF90-../DPE16XB4			
12.5	14869	1.35	11.5	29207	1.6	11.5	40271	1.15	13.5	46909	0.98	11.5	80542	1.05	11.5	109749	1.35		
10	BF60Z-../DPE11LB4			BF70Z-../DPE11LB4			BF70Z-../DPE13XA4			BF80-../DPE13XA4			BF90-../DPE16LB4			BF90-../DPE16XB4			
10.5	17701	1.15	9.8	34075	1.35	9.9	46909	0.98	9.6	65496	1.3	10	92933	1.6	10	126566	1.15		
9	BF60Z-../DPE11LB4			BF70Z-../DPE11LB4			BF70Z-../DPE13XA4			BF80-../DPE13XA4			BF90-../DPE16LB4			BF90-../DPE16XB4			
9.4	19472	1.05	8.9	37616	1.2	9.9	46909	0.98	8.5	74346	1.15	10	92933	1.6	10	126566	1.15		
8	BF70Z-../DPE11LB4			BF70Z-../DPE11LB4			BF80-../DPE13XA4			BF80-../DPE13XA4			BF90-../DPE16LB4			BF90-../DPE16XB4			
7.6	24340	1.9	7.6	44254	1.05	7.5	61955	1.35	7.5	84082	1	7.7	120370	1.25	9	140727	1.05		
7	BF70Z-../DPE11LB4			BF70Z-../DPE11LB4			BF80-../DPE13XA4			BF80-../DPE13XA4			BF90-../DPE16LB4			-			
6.9	26552	1.75	7.6	44254	1.05	6.6	69921	1.2	7.5	84082	1	6.9	134531	1.1					
6	BF70Z-../DPE11LB4			BF80Z-../DPE11LB4			BF80Z-../DPE13XA4			BF90Z-../DPE13XA4			BF90Z-../DPE16LB4			-			
5.9	31420	1.45	6.1	54875	1.7	6.1	76116	1.2	5.9	107094	1.55	6.6	140727	1.15					

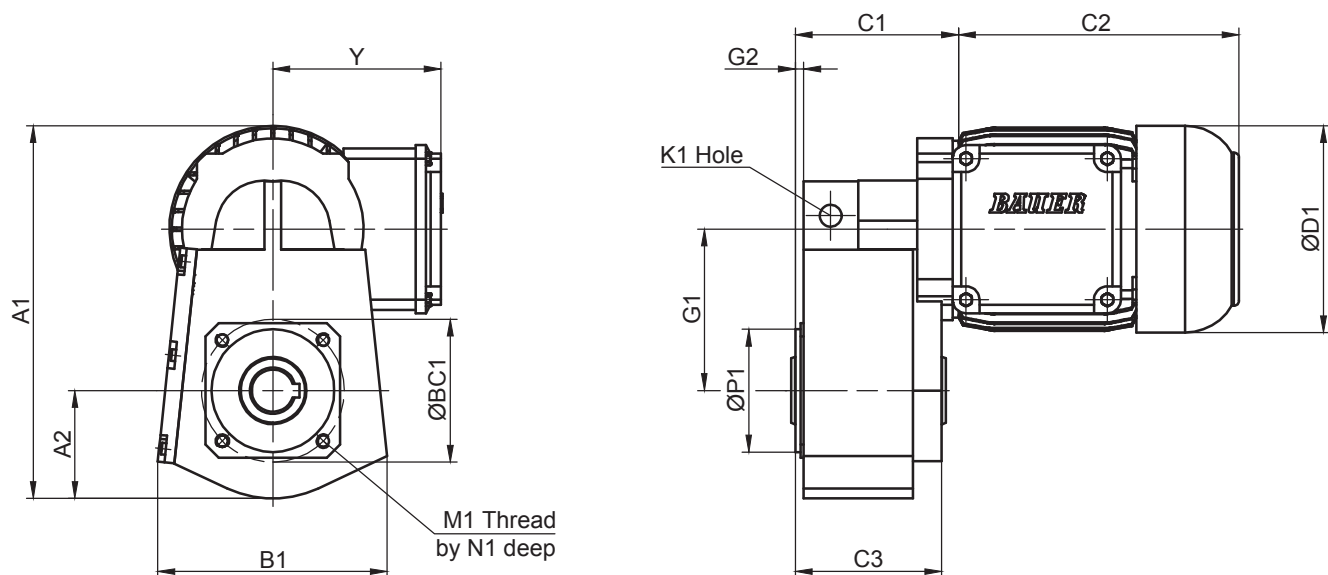
Dimensions BF

BF06

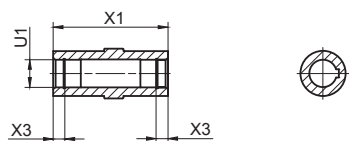
Drawings represent Housing Style 8

BFXX-8X

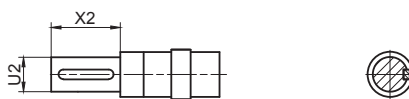
Hollow Shaft Details



Hollow Shaft Details



Solid Shaft Details



Dimensions in inches																
Gearbox	A1	A2	B1	BC1	C3	G1	G2	K1	M1	N1	P1	U1	U2	X1	X2	X3
BF06	6.30	2.52	5.35	3.346	3.62	4.09	0.20	.43/.51	M8	0.63	2.874	1.00	1.00	3.62	1.97	0.59

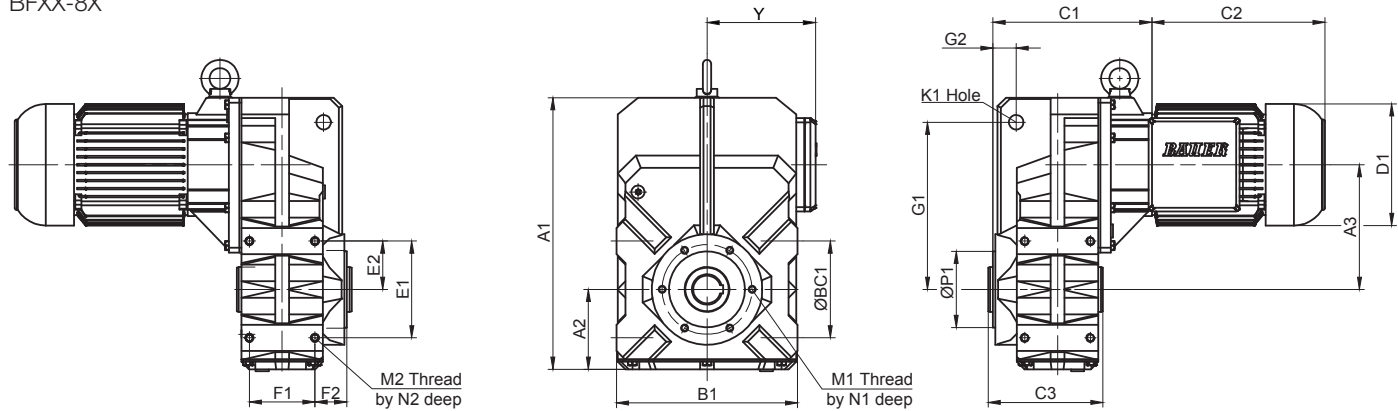
Fixing hardware for Output Shaft (ie Key) is supplied with Gearmotor

Dimensions in inches				
Motor	C2	D1	Y	C1
D..08	7.85	6.14	5.37	5.57

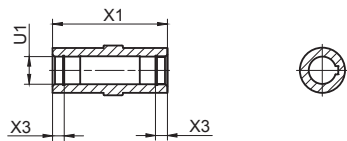
Dimensions BF

BF10-BF70

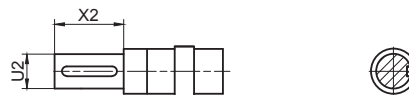
Drawings represent Housing Style 8
BFXX-8X



Hollow Shaft Details

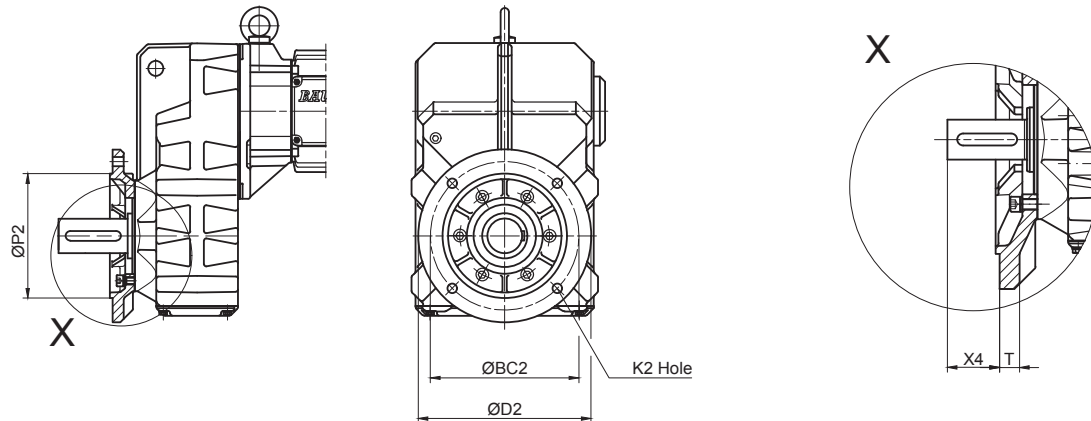


Solid Shaft Details



Output Flange Option

Drawings represent Housing Style 3
BFXX-3X



Dimensions in inches

Gearbox	A1	A2	A3	B1	BC1	BC2	C3	D2	E1	E2	F1	F2	G1	G2	K1	K2	M1	M2	N1	N2	P1	P2	T	U1	U2	X1	X2	X3	X4
BF10	10.35	3.15	4.65	7.69	3.937	6.496	4.90	7.87	3.94	1.97	2.76	1.59	6.10	1.22	.59/.67	0.43	M8	M8	0.63	0.63	3.150	5.118	0.47	1.00	1.25	4.90	2.36	0.59	1.53
BF20	12.04	3.50	5.39	8.58	4.528	8.465	5.12	9.84	4.13	2.07	2.76	1.71	7.48	1.65	.59/.67	0.53	M10	M10	0.78	0.78	3.740	7.087	0.63	1.25	1.38	5.12	2.76	0.59	1.66
BF30	13.77	4.04	6.17	9.69	4.528	8.465	5.57	9.84	5.12	2.56	2.95	1.95	8.27	1.73	.59/.67	0.53	M10	M10	0.78	0.78	3.740	7.087	0.63	1.38	1.63	5.57	3.15	0.63	2.15
BF40	15.54	4.55	7.11	10.63	5.118	8.465	6.54	9.84	5.51	2.76	3.74	2.09	9.53	1.59	.83/.91	0.53	M10	M12	0.78	0.94	4.331	7.087	0.63	1.50	2.13	6.54	3.94	0.67	3.09
BF50	18.27	5.20	8.15	12.05	6.496	10.433	6.93	11.81	6.30	3.15	3.94	2.19	10.63	1.97	.98/1.06	0.53	M12	M14	0.94	1.10	5.118	9.055	0.79	2.00	2.38	6.93	4.72	0.79	3.80
BF60	22.41	6.34	10.06	14.82	7.087	11.811	7.95	13.78	7.87	3.94	4.33	2.66	13.39	2.36	.98/1.06	0.69	M12	M16	0.94	1.26	5.906	9.843	0.79	2.38	2.88	7.95	5.51	0.83	4.35
BF70	25.27	7.79	12.45	17.68	8.465	13.780	9.49	15.75	9.45	4.72	5.51	2.89	14.84	3.27	1.14/1.26	0.69	M16	M20	1.26	1.57	7.087	11.811	0.79	3.00	3.63	9.49	6.69	1.02	5.71

Fixing hardware for Output Shaft (ie Key) is supplied with Gearmotor

Dimensions in inches

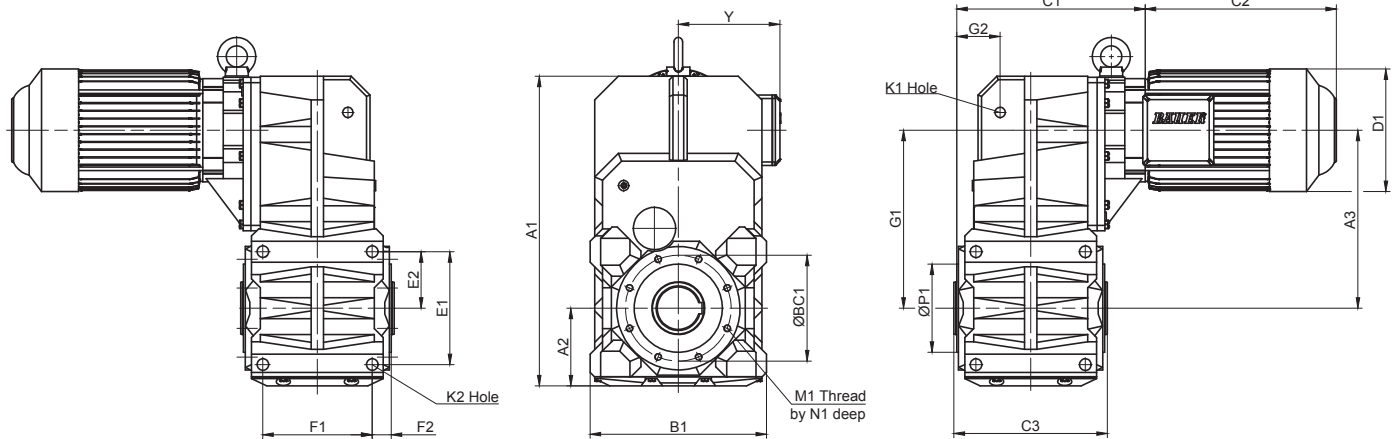
Motor	C2	D1	Y	C1												
				BF10	BF10Z	BF20	BF20Z	BF30	BF30Z	BF40	BF40Z	BF50	BF50Z	BF60	BF60Z	BF70Z
D..08	7.85	6.14	5.37	7.17	9.77	7.48	10.71	7.81	10.78	8.48	11.73	9.62	13.01	-	14.93	17.40
D..09	9.86	6.93	6.18	7.74	-	8.05	-	8.38	11.35	9.05	12.3	10.19	13.58	11.17	15.50	17.97
D..11	12.56	8.58	6.93	-	-	-	-	8.64	-	9.31	-	10.45	-	11.42	15.75	18.23
D..13	15.47	10.16	8.54	-	-	-	-	-	-	-	-	10.96	-	11.93	-	18.74
D..16	17.89	12.20	9.54	-	-	-	-	-	-	-	-	11.51	-	12.49	-	19.29

BF Series - Parallel Helical Gear Motor

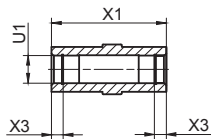
Dimensions BF

BF80-BF90

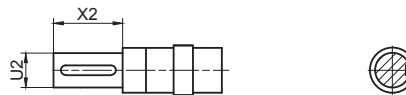
Drawings represent Housing Style 1
BFXX-1X



Hollow Shaft Details

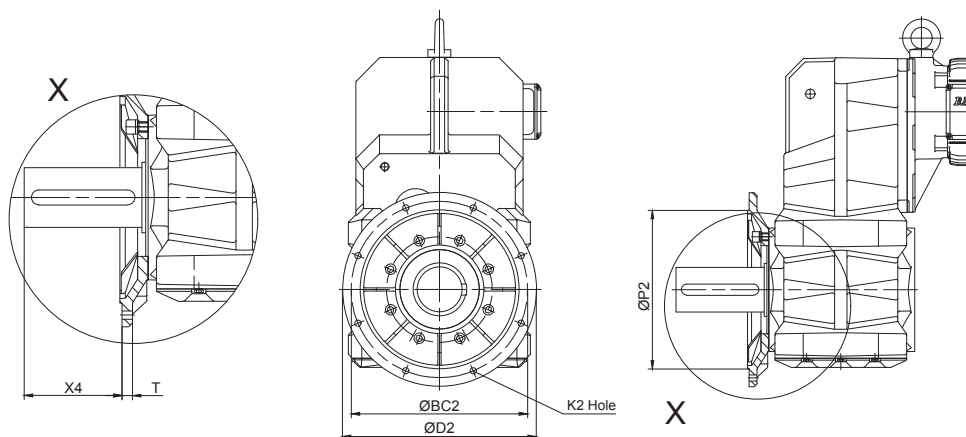


Solid Shaft Details



Output Flange Option

Drawings represent Housing Style 3
BFXX-3X



Dimensions in inches																											
Gearbox	A1	A2	A3	B1	BC1	BC2	C3	D2	E1	E2	F1	F2	G1	G2	K1	K2	M1	N1	P1	P2	T	U1	U2	X1	X2	X3	X4
BF80	28.47	7.48	15.75	16.93	10.433	15.748	14.21	17.717	10.24	5.12	9.45	2.38	17.52	4.55	1.14/1.26	0.69	M20	1.57	9.055	13.780	0.866	3.875	4.375	14.21	8.27	1.26	6.969
BF90	34.58	8.68	19.86	20.32	11.811	19.685	17.13	21.654	12.60	6.30	12.20	2.46	21.85	5.16	1.14/1.26	0.69	M20	1.57	9.843	17.717	0.866	4.50	5.00	17.13	9.84	1.57	8.583
Fixing hardware for Output Shaft (ie Key) is supplied with Gearmotor																											

Dimensions in inches							
Motor	C2	D1	Y	C1			
				BF80	BF80Z	BF90	BF90Z
D...09	9.86	6.93	6.18	16.38	21.61	-	25.61
D...11	12.56	8.58	6.93	16.63	21.87	19.10	25.87
D...13	15.47	10.16	8.54	17.15	22.38	19.61	26.38
D...16	17.89	12.2	9.57	17.70	22.93	20.16	26.93

[illegible]



Bevel Geared Geared Motor Series BK

Three phase bevel mounted geared motors for driving machines and equipment of all types



High efficiency!

Drive solutions from 0.04 HP to 50 HP

Gearbox

- Torque: 708 lbf-in ... 163,739 lbf-in
- Ratios:
 - two-stage: 3.67 - 108.60
 - three-stage: 7.29 - 175.70
- Versatile installation possibilities
- Completely enclosed, sealed against dust and water spray
- Lubrication change first
 - after 15,000 hrs (mineral oil)
 - after 25,000 hrs (synthetic oil)
- Low noise gearing

Motors

- Power: 0.04 HP ... 100 HP
- Mains supply: 110 V ... 690 V, 50/60 Hz
- Enclosure: IP 54 (standard only for D..04 and D..05)
IP 65 (standard)
IP 66 - IP 68 (optional)
- Connection: Terminal Board with optional CAGE CLAMP®

Motor Options

- NEMA C-Face up to 405TC
- Connecting with plug connectors
- With integrated inverter up to 10 HP
- IE3 up to 50 HP with ASM
- IE4 up to 15 HP with PMSM

Brakes

- Enclosure IP 65 (Standard)
IP 66 and IP 68 (optional)
- Performance and application optimized brake range
- Maintenance friendly design

Standards

- ATEX
- CCC
- CE marking
- CSA
- EAC
- INMETRO
- ISO14001
- ISO9001
- OHSAS18001
- UL

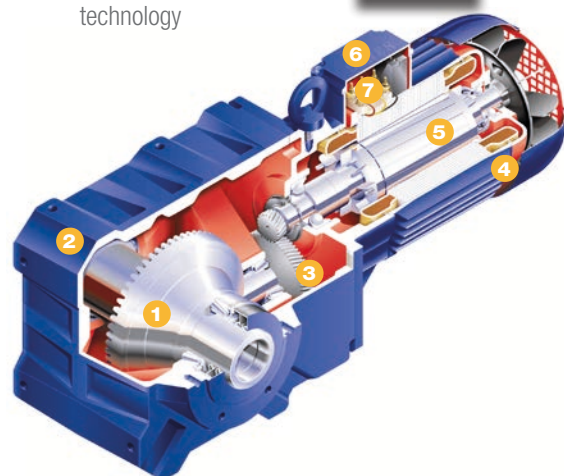
General

- Corrosion protection: C1 ... C5, IM2 based on DIN EN ISO 12944-5
- C1 is mild protection
- C5 is extreme protection



7 CAGE CLAMP®

- Standard with conventional terminal board
- Optional CAGE CLAMP® technology



Bevel Geared Geared Motor Series BK

High efficiency!

Bauer Gear Motor supplies modern drive solutions for all industry sectors in which material must be moved.

1 Design

- As standard in 2-stage design, as from BK60 3-stage.
- Higher ratios available through attachment of a purpose built pre-stage or pre-connected gearbox.
- Many installation possibilities - foot or flange with single or double shaft end, hollow shaft with key or shrink disc design with torque arm - make these angular gear boxes an ideal space saving drive element.
- Symetric housing design of the 2-stage gearboxes gives the user many further installation possibilities.

2 Housing

- State-of-the-art gearbox housing designed for operation under harsh conditions.
- Compact closed housing is ideal for preventing lubricant loss and dirt build-up.
- High tensile cast housing.
- Vibration-free housing, noise absorbent and resistant against chemical effects.
- The single crimping process provides a level of higher accuracy lower noise and reduce chances of leakage due to core shifts.
- Stator housings with casing and cooling fins are manufactured in one casting and ensure efficient heat dissipation.
- Motor housings, bearing covers and terminal boxes made of corrosion resistant aluminium die casting.

3 Gear wheels

- Gear wheels made of high tensile and case hardened steel.
- Highly wear resistant through flank hardness of 60-62 HRC.
- Impervious to shock.
- Tooth flanks shaved, hobbled or ground.
- Strong, non-flexible pinion shafts and bearings guarantee exact tooth meshing.

4 Stator winding

- The stator winding is manufactured from high quality enamelled copper wire with state-of-the-art three layer insulation in the stator slot and end coils.
- The stator winding is impregnated with a moisture resistant and tropical safe resin.
- The electrical design of the motor is adapted to the gearbox.

5 Rotor

- Aluminium die cast cage rotor ensures a high reliability at high starting torques and low starting currents.
- Torque troughs are avoided on startup and acceleration to provide reliable performance in high demand applications.

6 Terminal box

- Spacious terminal box also completely sealed against dust and water spray.
- A large measure on safety through CAGE CLAMP® connection technology on the winding ends and motor connection.
- Handy terminals allow easy connection.

Ordering Information BK

Gearing Options					Motor Options		Other Options			
BK	10	(blank)	-	1	1	/ DPE08XB4	- TF	/ (blank)	/ AV	/ (blank)
Type	Size	Gear Stages	Housing Style		Shaft Style	Type	Feature	Brake	Shaft Options	Other
BK - Helical Bevel	06	Blank - standard	3 - Flange (BK10-BK90 only)		1 - Solid	D08MA4	Blank-none	Blank-none	AV - Inch	Blank-none
	10	Z - Add'l stage			4 - Hollow	DPE08XB4	TF - thermistors	see Page 44-45 for Brake options	AM - Metric	
	20		8 - Base (Standard)							
	30									
	40									
	50									
	60									
	70									
	80									
90										

Customer must provide the following at time of order:

- 1) Selected HP from Chart 1
- 2) Selected OUTPUT RPM from Selection Table on pages 30-31
- 3) SUPPLY VOLTAGE to power motor
- 4) MOUNTING POSITION from Chart 2 on page 29

Chart 1

Motor Type	HP	Available Frame Sizes									
		BK06	BK10	BK20	BK30	BK40	BK50	BK60	BK70	BK80	BK90
D08MA4	0.5	X	X	X	X	X	X	-	-	-	-
D08MA4	0.75	X	X	X	X	X	X	-	-	-	-
DPE08XB4	1	-	X	X	X	X	X	X	-	-	-
DPE09XB4	1.5	-	X	X	X	X	X	X	-	-	-
DPE09XB4	2	-	X	X	X	X	X	X	-	-	-
DPE11LB4	3	-	-	-	X	X	X	X	X	-	-
DPE11LB4	5	-	-	-	X	X	X	X	X	X	-
DPE13XA4	7.5	-	-	-	-	-	X	X	X	X	-
DPE13XA4	10	-	-	-	-	-	X	X	X	X	X
DPE16LB4	15	-	-	-	-	-	X	X	X	X	X
DPE16XB4	20	-	-	-	-	-	X	X	X	X	X

Gearbox Specifications

Model	Torque Rating (lbf-in)	Solid Shaft Sizes (BKxx-x1)		Hollow Shaft Sizes (BKxx-x4)	
		Inch (in)	Metric (mm)	Inch (in)	Metric (mm)
		AV Option	AM Option	AV Option	AM Option
BK06	840	1.00	25	0.75	20
BK10	2124	1.25	30	1.00	25
BK20	3717	1.375	35	1.25	30
BK30	5044	1.625	40	1.375	35
BK40	7965	2.125	50	1.50	40
BK50	11505	2.375	60	2.00	50
BK60	20356	2.875	70	2.375	60
BK70	46023	3.625	90	3.00	80
BK80	84081	3.375	110	3.875	100
BK90	148691	5.00	130	4.50	120

Motor Specifications

Type	Voltage	Nominal Motor Speed	Frequency	Enclosure	Turndown****
ASM Asynchronous	230 V or 460 V**	1800 rpm	60 Hz	TEFC - fan-cooled	10:1 (continuous)
** Contact factory for voltages not shown					
**** Gearmotors sized in this catalog will be reliable for a 10X turn-down under (S1) continuous operation. Gearmotors can be provided for up to 1000X turn-down after consultation with the factory.					

Important Ordering Comments:

- Additional Output Shaft options are also available (contact factory for more info)
- Additional Motor Options (contact factory for more info): Brakes; encoders; special voltages; Non-std cable exits; variable cable lengths
- Unless advised, Right-Angle Gearmotors are specified for standard H1 mounting position (see table below)

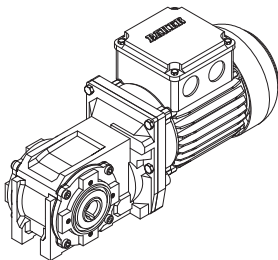
Standard Mounting Positions BK

BK series: image shows mounting position H1

V =	Front The side of the gear unit facing toward the viewer looking toward the unit - mounting position H1
H =	Rear The side of the gear unit facing away from the viewer looking toward the unit - mounting position H1
L =	Left The side of the gear unit facing away from the viewer looking toward the unit - mounting position H1
R =	Right The left side of the gear unit as viewed from the output shaft side of mounting position H1, or the torque arm oriented to the left

Chart 2

BK Series						
Gear side	(U)	(O)	(R)	(L)	(V)	(H)
Mounting position	H1	H2	H3	H4	V1	V2



Performance and Selection Tables BK

Bauer BK Series - Helical Bevel Gear Motors

		Motor Power Rating (HP)														
		0.5			0.75			1			1.5			2		
		Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor
Nominal Output Speed (RPM)	300	-			-			-			BK10-../DPE09XB4			BK10-../DPE09XB4		
	225	-			BK06-../D08MA4			BK06-../DPE08XB4			BK10-../DPE09XB4			BK10-../DPE09XB4		
					235	181	3.6	240	239	2.7	230	372	2.7	230	504	2
	175	BK06-../D06LA4			BK06-../D08MA4			BK06-../DPE08XB4			BK10-../DPE09XB4			BK10-../DPE09XB4		
		167	172	4.1	174	243	2.9	179	323	2.2	165	504	3.2	186	620	1.65
	140	BK06-../D06LA4			BK06-../D08MA4			BK06-../DPE08XB4			BK10-../DPE09XB4			BK10-../DPE09XB4		
		139	204	3.5	144	296	2.4	149	389	1.8	148	575	1.75	147	788	1.3
	120	-			BK06-../D08MA4			BK06-../DPE08XB4			BK10-../DPE09XB4			BK10-../DPE09XB4		
					110	381	1.85	114	504	1.4	122	682	2.6	121	938	1.9
	100	BK06-../D06LA4			BK06-../D08MA4			BK06-../DPE08XB4			BK10-../DPE09XB4			BK10-../DPE09XB4		
		106	266	2.7	94	443	1.6	97	584	1.2	104	797	1.5	104	1089	1.1
	90	BK06-../D06LA4			BK06-../D08MA4			BK06-../DPE08XB4			BK10-../DPE09XB4			BK10-../DPE09XB4		
		90	310	2.3	94	443	1.6	97	584	1.2	95	876	2	95	1195	1.5
	80	BK06-../D06LA4			BK06-../D08MA4			BK06-../DPE08XB4			BK10-../DPE09XB4			BK10-../DPE09XB4		
		76	367	1.95	78	531	1.35	81	699	1	78	1071	1.65	78	1460	1.2
	70	BK06-../D06LA4			BK06-../D08MA4			BK10-../DPE08XB4			BK10-../DPE09XB4			BK10-../DPE09XB4		
		76	367	1.95	64	646	1.1	77	735	2.4	62	1345	1.3	78	1460	1.2
	62	BK06-../D06LA4			BK06-../D08MA4			BK10-../DPE08XB4			BK10-../DPE09XB4			BK20-../DPE09XB4		
		62	451	1.55	64	646	1.1	61	929	1.9	62	1345	1.3	61	1859	1.55
	56	BK06-../D06LA4			BK10-../D08MA4			BK10-../DPE08XB4			BK10-../DPE09XB4			BK20-../DPE09XB4		
		62	451	1.55	59	708	2.5	51	1115	1.6	52	1602	1.1	61	1859	1.55
	50	BK06-../D06LA4			BK10-../D08MA4			BK10-../DPE08XB4			BK10-../DPE09XB4			BK20-../DPE09XB4		
		49	566	1.25	49.5	841	2.1	51	1115	1.6	52	1602	1.1	48	2345	1.25
	45	BK06-../D06LA4			BK10-../D08MA4			BK10-../DPE08XB4			BK20-../DPE09XB4			BK20-../DPE09XB4		
		43	655	1.1	41.5	1000	1.75	43	1319	1.35	48	1735	1.7	48	2345	1.25
	40	BK06-../D06LA4			BK10-../D08MA4			BK10-../DPE08XB4			BK20-../DPE09XB4			BK20-../DPE09XB4		
		43	655	1.1	41.5	1000	1.75	43	1319	1.35	41.5	1991	1.45	41	2744	1.05
	35	BK10-../D06LA4			BK10-../D08MA4			BK10-../DPE08XB4			BK20-../DPE09XB4			BK30-../DPE09XB4		
		34	823	2.2	34.5	1195	1.5	35.5	1584	1.1	34.5	2390	1.2	35	3186	1.25
	30	BK10-../D06LA4			BK10-../D08MA4			BK20-../DPE08XB4			BK20-../DPE09XB4			BK30-../DPE09XB4		
		34	823	2.2	27.5	1496	1.2	28.5	1947	1.5	29	2832	1.05	29.5	3762	1.05
	26	BK10-../D06LA4			BK10-../D08MA4			BK20-../DPE08XB4			BK20-../DPE09XB4			BK30-../DPE09XB4		
		27	1044	1.7	27.5	1496	1.2	28.5	1947	1.5	29	2832	1.05	29.5	3762	1.05
	22	BK10-../D06LA4			BK10-../D08MA4			BK20-../DPE08XB4			BK30-../DPE09XB4			BK40-../DPE09XB4		
		23	1221	1.45	23.5	1735	1	23	2390	1.2	20	3983	1	21	5222	1.3
	20	BK10-../D06LA4			BK20-../D08MA4			BK20-../DPE08XB4			BK30-../DPE09XB4			BK40-../DPE09XB4		
		19	1469	1.05	19.5	2036	1.45	20	2744	1.05	20	3983	1	21	5222	1.3
	18	BK10-../D06LA4			BK20-../D08MA4			BK20-../DPE08XB4			BK30-../DPE09XB4			BK40-../DPE09XB4		
		19	1469	1.05	19.5	2036	1.45	20	2744	1.05	20	3983	1	17	6284	1.1
	16	BK20-../D06LA4			BK20-../D08MA4			BK30-../DPE08XB4			BK40-../DPE09XB4			BK40-../DPE09XB4		
		15	1770	1.6	15.5	2567	1.1	17	3142	1.25	17	4602	1.5	17	6284	1.1
	14	BK20Z-../D06LA4			BK20Z-../D08MA4			BK30Z-../DPE08XB4			BK40Z-../DPE09XB4			BK50Z-../DPE09XB4		
		14	1947	1.5	14	2788	1.05	14.5	3673	1.1	15	5222	1.3	15.5	6904	1.35
	12	BK20Z-../D06LA4			BK30Z-../D08MA4			BK40Z-../DPE08XB4			BK40Z-../DPE09XB4			BK50Z-../DPE09XB4		
		12	2257	1.3	12	3231	1.25	12.5	4248	1.65	12.5	6196	1.1	11.5	9116	1
	10	BK20Z-../D06LA4			BK40Z-../D08MA4			BK40Z-../DPE08XB4			BK60Z-../DPE09XB4			BK60Z-../DPE09XB4		
		9	2744	1.05	10	3850	1.8	10.5	4956	1.4	9.6	9647	2.1	9.6	13188	1.55
	9	BK20Z-../D06LA4			BK40Z-../D08MA4			BK40Z-../DPE08XB4			BK50Z-../DPE09XB4			BK60Z-../DPE09XB4		
		9.4	2744	1.05	8	4691	1.45	8.3	6196	1.1	8.5	8939	1.05	8.6	14692	1.4
	8	BK30Z-../D06LA4			BK40Z-../D08MA4			BK40Z-../DPE08XB4			BK50Z-../DPE09XB4			BK60Z-../DPE09XB4		
		7.5	3408	1.15	8	4691	1.45	8.3	6196	1.1	8.5	8939	1.05	8.6	14692	1.4
	7	BK30Z-../D06LA4			BK40Z-../D08MA4			BK50Z-../DPE08XB4			BK60Z-../DPE09XB4			BK60Z-../DPE09XB4		
		7.5	3408	1.15	6.9	5399	1.3	6.6	7700	1.2	6.6	14073	1.45	7.3	17347	1.15
	6	BK30Z-../D06LA4			BK50Z-../D08MA4			BK50Z-../DPE08XB4			BK60Z-../DPE09XB4			BK60Z-../DPE09XB4		
		6.4	3983	1	6.4	5841	1.6	6.6	7700	1.2	5.6	16551	1.25	6.6	19029	1.05

Match the appropriate GREEN Output Speed with the required BLUE/WHITE Motor Power for your application to identify the part number and performance.

Ratings shown reflect maximum gear capacity based on AGMA standards (minimum service factor = 1.0).

Ratings are based on operating at 60Hz and continuous duty cycle usage (16 hours per day).

Part numbers in BOLD text include an external gear stage (denoted by "Z").

For output speeds, output torque levels or motor HPs not shown, please contact the factory for selection assistance 1-800-387-0130.

Performance and Selection Tables BK

Bauer BK Series - Helical Bevel Gear Motors																			
	Motor Power Rating (HP)																		
	3			5			7.5			10			15			20			
	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	
Nominal Output Speed (RPM)	300	BK30-../DPE11LB4			BK30-../DPE11LB4			BK50-../DPE13XA4			BK50-../DPE13XA4			BK50-../DPE16LB4			BK50-../DPE16XB4		
	295	575	3.3	295	1053	1.8	340	1257	5.7	340	1708	4.2	340	2478	2.9	340	3408	2.1	
	225	BK30-../DPE11LB4			BK30-../DPE11LB4			BK50-../DPE13XA4			BK50-../DPE13XA4			BK50-../DPE16LB4			BK50-../DPE16XB4		
	240	708	3.4	240	1292	1.85	245	1744	4.1	245	2345	3.1	245	3452	2.1	245	4691	1.55	
	175	BK30-../DPE11LB4			BK30-../DPE11LB4			BK50-../DPE13XA4			BK50-../DPE13XA4			BK50-../DPE16LB4			BK50-../DPE16XB4		
	183	929	3	183	1699	1.65	177	2390	3	177	3275	2.2	178	4779	1.5	178	6550	1.1	
	140	BK30-../DPE11LB4			BK30-../DPE11LB4			BK50-../DPE13XA4			BK50-../DPE13XA4			BK50-../DPE16LB4			BK50-../DPE16XB4		
	148	1151	2.5	148	2080	1.35	127	3275	2.8	127	4425	2.1	128	6461	1.45	128	8851	1.05	
	120	BK30-../DPE11LB4			BK30-../DPE11LB4			BK50-../DPE13XA4			BK50-../DPE13XA4			BK50-../DPE16LB4			BK50-../DPE16XB4		
	122	1363	2.9	122	2478	1.6	117	3540	2.6	117	4868	1.9	118	7081	1.3	128	8851	1.05	
	100	BK30-../DPE11LB4			BK30-../DPE11LB4			BK50-../DPE13XA4			BK50-../DPE13XA4			BK50-../DPE16LB4			BK60-../DPE16XB4		
	99	1690	2.4	99	3054	1.3	99	4248	1.5	99	5753	1.1	93	8939	1.05	97	13011	1.5	
	90	BK30-../DPE11LB4			BK30-../DPE11LB4			BK50-../DPE13XA4			BK50-../DPE13XA4			BK50-../DPE16LB4			BK60-../DPE16XB4		
	99	1690	2.4	99	3054	1.3	92	4514	2.1	92	6196	1.5	93	8939	1.05	87	14515	1.35	
	80	BK30-../DPE11LB4			BK30-../DPE11LB4			BK60-../DPE13XA4			BK60-../DPE13XA4			BK60-../DPE16LB4			BK60-../DPE16XB4		
	76	2168	1.85	76	3983	1	73	6284	3.2	86	7346	2.7	73	12657	1.6	73	17347	1.15	
	70	BK30-../DPE11LB4			BK30-../DPE11LB4			BK50-../DPE13XA4			BK50-../DPE13XA4			BK60-../DPE16LB4			BK60-../DPE16XB4		
	76	2168	1.85	76	3983	1	67	6196	1.5	67	8497	1.1	73	12657	1.6	73	17347	1.15	
	62	BK30-../DPE11LB4			BK40-../DPE11LB4			BK50-../DPE13XA4			BK50-../DPE13XA4			BK60-../DPE16LB4			BK60-../DPE16XB4		
	62	2655	1.5	62	4868	1.4	67	6196	1.5	67	8497	1.1	66	14073	1.45	66	19029	1.05	
	56	BK30-../DPE11LB4			BK40-../DPE11LB4			BK50-../DPE13XA4			BK60-../DPE13XA4			BK60-../DPE16LB4			BK70-../DPE16XB4		
	53	3142	1.25	51	5930	1.15	51	8143	1.15	53	11949	1.7	53	17524	1.15	58	21684	1.85	
	50	BK30-../DPE11LB4			BK40-../DPE11LB4			BK50-../DPE13XA4			BK60-../DPE13XA4			BK60-../DPE16LB4			BK70-../DPE16XB4		
	53	3142	1.25	51	5930	1.15	51	8143	1.15	47	13453	1.5	47.5	19472	1.05	51	24782	1.7	
	45	BK40-../DPE11LB4			BK40-../DPE11LB4			BK50-../DPE13XA4			BK60-../DPE13XA4			BK60-../DPE16LB4			BK70-../DPE16XB4		
	43.5	3806	1.8	43.5	6992	0.99	51	8143	1.15	47	13453	1.5	47.5	19472	1.05	44.5	28322	1.5	
	40	BK40-../DPE11LB4			BK40-../DPE11LB4			BK60-../DPE13XA4			BK60-../DPE13XA4			BK70-../DPE16LB4			BK70-../DPE16XB4		
	43.5	3806	1.8	43.5	6992	0.99	39.5	11683	1.75	39.5	16020	1.25	39.5	23454	1.95	39.5	31863	1.4	
	35	BK50-../DPE11LB4			BK50-../DPE11LB4			BK60-../DPE13XA4			BK60-../DPE13XA4			BK70-../DPE16LB4			BK70-../DPE16XB4		
	37.5	4381	2.1	37.5	7966	1.15	35.5	13011	1.55	35.5	17701	1.15	33	27880	1.65	33	38058	1.2	
	30	BK50-../DPE11LB4			BK60-../DPE11LB4			BK60-../DPE13XA4			BK60-../DPE13XA4			BK70-../DPE16LB4			BK70-../DPE16XB4		
	29	5576	1.65	30	11240	1.8	30.5	15223	1.35	30	20799	0.98	29	31863	1.45	29	43369	1.05	
	26	BK50-../DPE11LB4			BK60-../DPE11LB4			BK60-../DPE13XA4			BK70-../DPE13XA4			BK70-../DPE16LB4			BK70-../DPE16XB4		
	23.5	6815	1.35	27	12480	1.65	27	17170	1.2	25.5	24782	1.85	25.5	36288	1.25	29	43369	1.05	
	22	BK50-../DPE11LB4			BK60-../DPE11LB4			BK60-../DPE13XA4			BK70-../DPE13XA4			BK70-../DPE16LB4			BK80-../DPE16XB4		
	23.5	6815	1.35	23	14692	1.4	23	19914	1	22.5	27880	1.65	22.5	41156	1.1	22.5	55760	1.6	
20	BK60-../DPE11LB4			BK60-../DPE11LB4			BK70-../DPE13XA4			BK70-../DPE13XA4			BK70-../DPE16LB4			BK80-../DPE16XB4			
20.5	9028	2.3	20.5	16462	1.25	19.5	23454	1.95	19.5	32305	1.4	22.5	41156	1.1	19.5	64610	1.4		
18	BK60-../DPE11LB4			BK60-../DPE11LB4			BK70-../DPE13XA4			BK70-../DPE13XA4			BK70-../DPE16LB4			BK80-../DPE16XB4			
17.5	10621	1.9	17.5	19029	1.05	17.5	26552	1.75	17.5	35846	1.3	20	46024	1	17.5	71691	1.3		
16	BK60-../DPE11LB4			BK60-../DPE11LB4			BK70-../DPE13XA4			BK70-../DPE13XA4			BK80-../DPE16LB4			BK80-../DPE16XB4			
17.5	10621	1.9	17.5	19029	1.05	15	30978	1.5	15	42041	1.1	15.5	59300	1.55	15.5	81427	1.15		
14	BK60-../DPE11LB4			BK70-../DPE11LB4			BK70-../DPE13XA4			BK70-../DPE13XA4			BK80-../DPE16LB4			BK80-../DPE16XB4			
14.5	12745	1.6	13	25667	1.8	13	35403	1.3	15	42041	1.1	15.5	59300	1.55	15.5	81427	1.15		
12	BK60Z-../DPE11LB4			BK70-../DPE11LB4			BK70-../DPE13XA4			BK80-../DPE13XA4			BK80-../DPE16LB4			BK90-../DPE16XB4			
11.5	16108	1.25	11.5	29207	1.6	11.5	40271	1.15	13.5	46909	2	12	77001	1.2	12	105324	1.4		
10	BK60Z-../DPE11LB4			BK70-../DPE11LB4			BK70-../DPE13XA4			BK80Z-../DPE13XA4			BK80-../DPE16LB4			BK90Z-../DPE16XB4			
9.7	19029	1.05	10.5	31863	1.45	10.5	44254	1.05	10	62840	1.6	10.5	88507	1.05	10.5	120370	1.35		
9	BK60Z-../DPE11LB4			BK70Z-../DPE11LB4			BK80Z-../DPE13XA4			BK80Z-../DPE13XA4			BK80Z-../DPE16LB4			BK90Z-../DPE16XB4			
9.7	19029	1.05	9.3	36288	1.25	8.9	52219	1.95	8.9	70806	1.45	9	102669	0.99	9.2	137187	1.2		
8	BK70Z-../DPE11LB4			BK70Z-../DPE11LB4			BK80Z-../DPE13XA4			BK80Z-../DPE13XA4			BK80Z-../DPE16LB4			BK90Z-../DPE16XB4			
7.8	23454	1.95	7.8	42926	1.05	7.9	58415	1.75	7.9	79657	1.3	9	102669	0.99	7.6	166394	0.98		
7	BK70Z-../DPE11LB4			BK70Z-../DPE11LB4			BK80Z-../DPE13XA4			BK80Z-../DPE13XA4			BK90Z-../DPE16LB4			BK90Z-../DPE16XB4			
6.9	26552	1.75	7.8	42926	1.05	7.9	58415	1.75	7.9	79657	1.3	6.8	136301	1.2	7.6	166394	0.98		
6	BK70Z-../DPE11LB4			BK80Z-../DPE11LB4			BK80Z-../DPE13XA4			BK90Z-../DPE13XA4			BK90Z-../DPE16LB4			-			
6.1	30093	1.55	5.9	56645	1.8	5.9	78772	1.3	6.8	92933	1.75	6.1	152233	1.1					

Match the appropriate GREEN Output Speed with the required BLUE/WHITE Motor Power for your application to identify the part number and performance.

Ratings shown reflect maximum gear capacity based on AGMA standards (minimum service factor = 1.0) with lubricant meeting ISO VG 220.

Ratings are based on operating at 60Hz and continuous duty cycle usage (16 hours per day) .

Part numbers in BOLD text include an external gear stage (denoted by "Z").

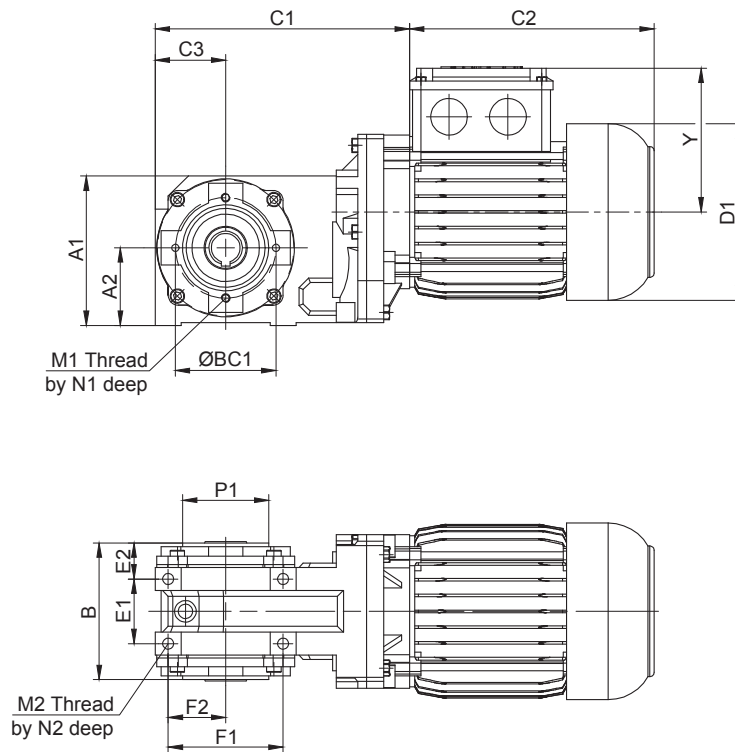
For output speeds, output torque levels or motor HPs not shown, please contact the factory for selection assistance 1-800-387-0130.

Dimensions BK

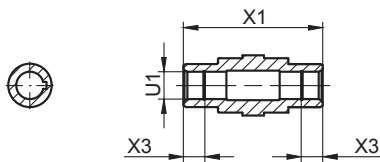
BK06

Drawings represent Housing Style 8

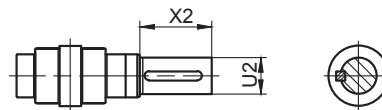
BKXX-8X



Hollow Shaft Details



Solid Shaft Details



Dimensions in inches

Gearbox	A1	A2	B	BC1	C3	E1	E2	F1	F2	M1	M2	N1	N2	P1	U1	U2	X1	X2	X3
BK06	4.09	2.13	4.21	2.756	1.93	1.77	1.03	2.36	1.18	M6	M8	0.59	0.63	2362	0.75	1.00	3.82	1.97	0.59

Fixing hardware for Output Shaft (ie Key) is supplied with Gearmotor

Dimensions in inches

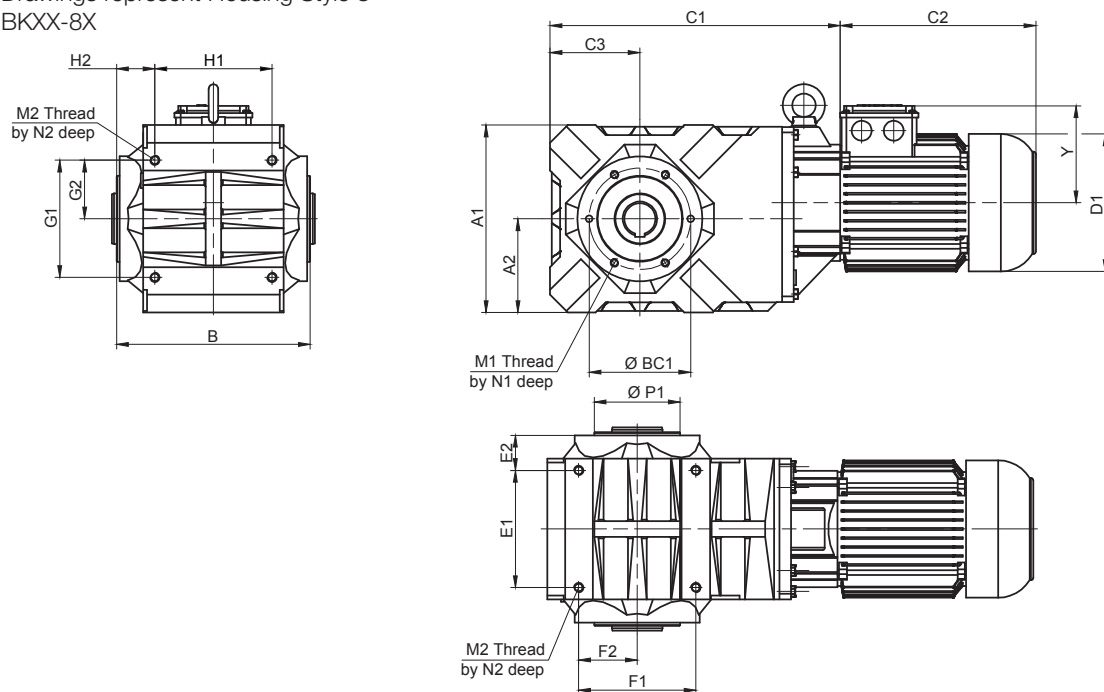
Motor	C2	D1	Y	C1 BK06
D..08	7.85	6.14	5.37	5.79

Dimensions BK

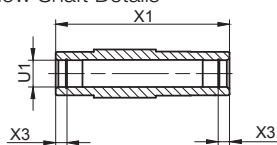
BK10-BK50

Drawings represent Housing Style 8

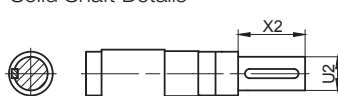
BKXX-8X



Hollow Shaft Details



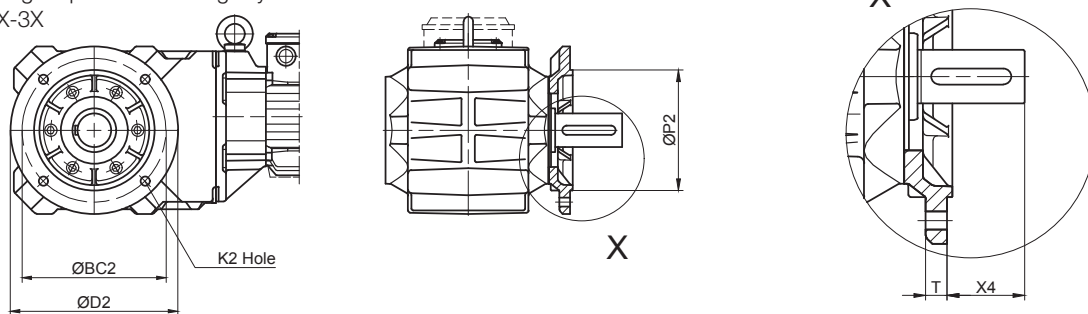
Solid Shaft Details



Output Flange Option

Drawings represent Housing Style 3

BKXX-3X



Dimensions in inches																													
Gearbox	A1	A2	B	BC1	BC2	C3	D2	E1	E2	F1	F2	G1	G2	H1	H2	K2	M1	M2	N1	N2	P1	P2	T	U1	U2	X1	X2	X3	X4
BK10	6.61	3.31	6.05	3.937	6.496	3.19	7.87	3.74	1.48	3.54	1.77	3.54	1.77	5.71	1.16	0.43	M8	M8	0.63	0.63	3.150	5.118	0.47	1.00	1.25	6.69	2.36	0.59	1.533
BK20	8.19	4.09	6.92	4.528	8.465	3.90	9.84	4.13	1.71	4.33	2.17	4.33	2.17	6.5	1.40	0.53	M10	M10	0.78	0.79	3.740	7.087	0.63	1.25	1.38	7.56	2.76	0.59	1.677
BK30	8.98	4.49	8.10	5.118	8.465	4.29	9.84	4.72	2.05	4.92	2.46	4.92	2.46	7.48	1.69	0.53	M10	M12	0.78	0.94	4.331	7.087	0.63	1.37	1.63	8.82	3.15	0.63	2.244
BK40	9.84	4.92	9.44	5.118	8.465	4.72	9.84	5.91	2.17	5.91	2.95	5.91	2.95	8.66	1.77	0.53	M10	M12	0.78	0.94	4.331	7.087	0.63	1.50	2.13	10.24	3.94	0.67	3.074
BK50	12.20	6.10	10.30	6.496	10.433	5.91	11.81	6.30	2.40	7.87	3.94	7.87	3.94	9.45	2.00	0.53	M12	M14	0.94	1.1	5.118	9.055	0.79	2.00	2.38	11.10	4.72	0.79	3.814
Fixing hardware for Output Shaft (ie Key) is supplied with Gearmotor																													

Fixing hardware for Output Shaft (ie Key) is supplied with Gearmotor

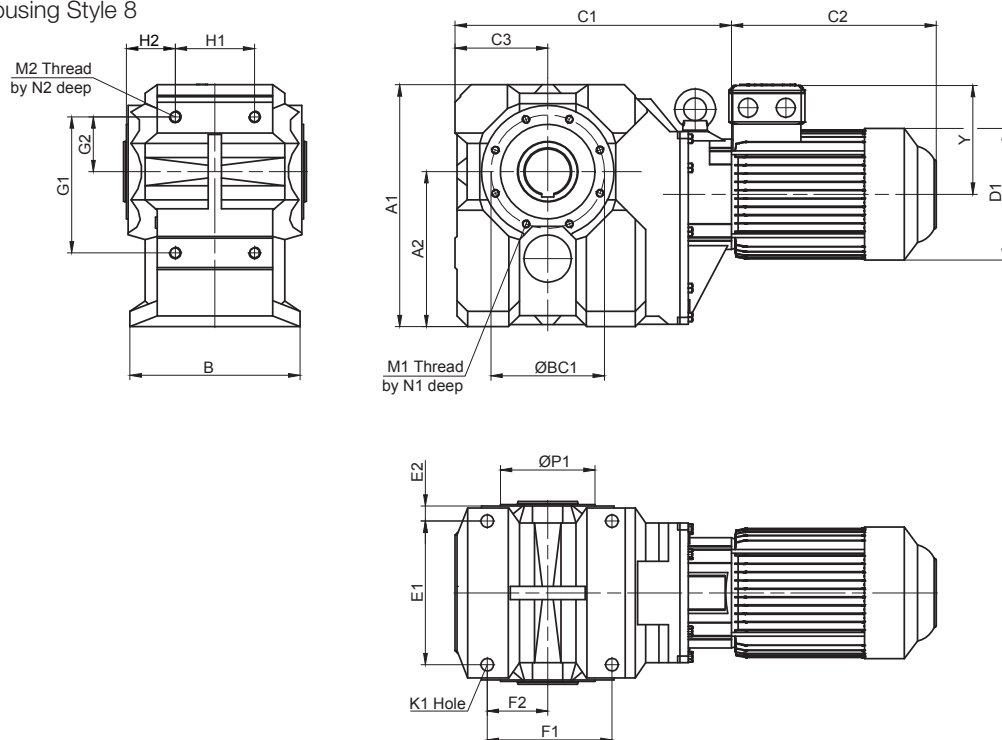
Dimensions in inches													
Motor	C2	D1	Y	C1									
				BK10	BK10Z	BK20	BK20Z	BK30	BK30Z	BK40	BK40Z	BK50	BK50Z
D..08	7.85	6.14	5.37	10.55	13.15	12.05	15.28	12.91	15.88	14.06	17.31	16.89	20.28
D..09	9.86	6.93	6.18	11.12	-	12.62	-	13.48	16.45	14.63	17.88	17.46	20.85
D..11	12.56	8.58	6.93	-	-	-	-	13.74	-	14.89	-	17.72	-
D..13	15.47	10.16	8.54	-	-	-	-	-	-	-	-	18.23	-
D..16	17.89	12.2	9.57	-	-	-	-	-	-	-	-	18.78	-

Dimensions BK

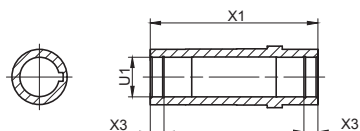
BK60-BK90

Drawings represent Housing Style 8

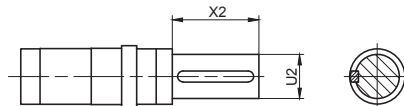
BKXX-8X



Hollow Shaft Details



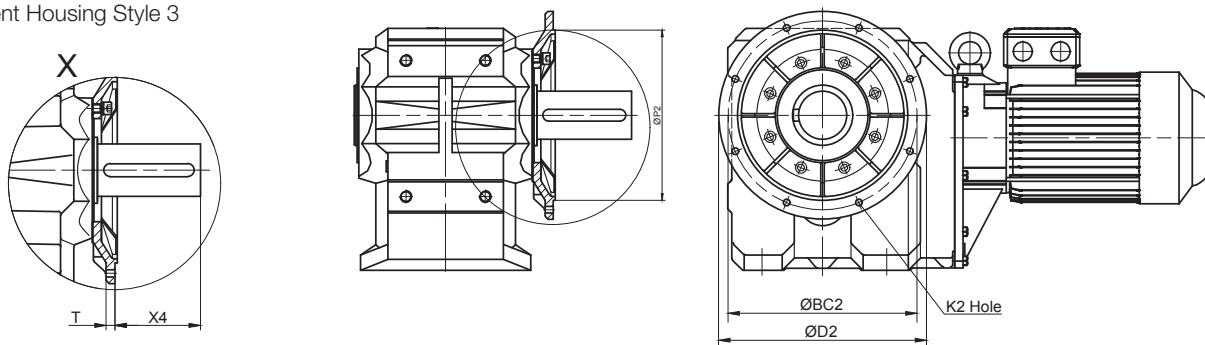
Solid Shaft Details



Output Flange Option

Drawings represent Housing Style 3

BKXX-3X



Dimensions in inches

Gearbox	A1	A2	B	BC1	BC2	C3	D2	E1	E2	F1	F2	G1	G2	H1	H2	K1	K2	M1	M2	N1	N2	P1	P2	T	U1	U2	X1	X2	X3	X4
BK60	13.62	8.35	11.01	7.087	11.811	5.31	13.78	9.45	1.22	7.09	3.35	9.06	3.35	6.30	2.36	0.69	0.69	M12	M20	0.94	1.57	5.906	9.843	0.79	2.375	2.875	11.89	5.51	0.83	4.37
BK70	16.69	10.63	12.98	8.465	13.780	6.69	15.75	10.63	1.61	9.06	4.33	9.06	3.94	6.30	3.34	0.87	0.69	M16	M20	1.26	1.57	7.087	11.811	0.79	3.00	3.625	13.86	6.69	1.02	6.142
BK80	20.63	13.19	16.75	10.433	15.748	8.11	17.72	12.60	1.65	10.63	5.12	14.17	4.72	8.27	4.24	1.02	0.69	M20	M30	1.57	2.36	9.055	13.780	0.87	3.875	4.375	15.91	8.27	1.26	6.969
BK90	25.20	16.14	18.12	11.811	19.685	9.88	21.65	14.96	2.05	12.99	6.30	14.17	5.71	8.27	4.93	1.30	0.69	M20	M30	1.57	2.36	9.843	17.717	0.87	4.50	5.00	19.06	9.84	1.57	8.543

Fixing hardware for Output Shaft (ie Key) is supplied with Gearmotor

Dimensions in inches

Motor	C2	D1	Y	C1					
				BK60	BK60Z	BK70	BK70Z	BK80	BK90Z
D..08	7.85	6.14	5.37	-	20.01	-	23.51	-	-
D..09	9.86	6.93	6.18	16.25	20.58	18.85	24.08	-	28.72
D..11	12.56	8.58	6.93	16.50	20.83	19.10	24.34	22.21	28.98
D..13	15.47	10.16	8.54	17.01	-	19.62	24.85	22.72	29.49
D..16	17.89	12.20	9.57	17.57	-	20.17	25.40	23.27	30.04



Worm Geared Motor Series BS

Three phase worm geared motors for driving machines and equipment of all types

Space-saving!

Drive solutions from 0.04 HP to 7.5 HP

Gearbox

- Torque: 221 lbf-in ... 8,857 lbf-in
- Ratios:
 - one-stage: 4.6 - 75.0
 - two-stage: 6.13 - 418.0
- Versatile installation possibilities
- Completely enclosed, sealed against dust and water spray
- Lubrication change first after 25,000 hrs
- Low noise gearing

Motors

- Power: 0.04 HP ... 7.5 HP
- Mains supply: 110 V ... 690 V, 50/60 Hz
- Enclosure:
 - IP 54 (standard only for D04 and D..05)
 - IP 65 (standard)
 - IP 66 - IP 68 (optional)
- Connection: Terminal Board with optional CAGE CLAMP®

Motor Options

- NEMA C-Face up to 405TC
- Connecting with plug connectors
- With integrated inverter up to 7.5 HP
- IE3 up to 7.5 HP with ASM
- IE4 up to 15 HP with PMSM

Brakes

- Enclosure
 - IP 65 (Standard)
 - IP 66 and IP 68 (optional)
- Performance and application optimized brake range
- Maintenance friendly design

Standards

- ATEX
- INMETRO
- CCC
- CE marking
- CSA
- EAC
- ISO14001
- ISO9001
- OHSAS18001
- UL

General

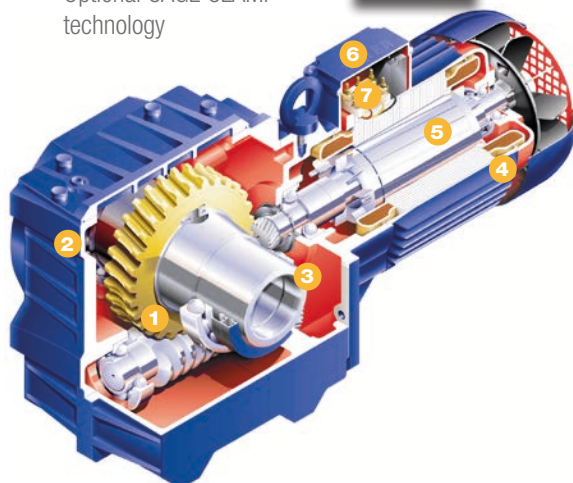
- Corrosion protection: C1 ... C5, IM2 based on DIN EN ISO 12944-5
- C1 is mild protection
- C5 is extreme protection





7 CAGE CLAMP®

- Standard with conventional terminal board
- Optional CAGE CLAMP® technology



Worm Geared Motor Series BS

Space-saving!

Bauer Gear Motor supplies modern drive solutions for all industry sectors in which material must be moved.

1 Design

- As standard in 2-stage design, sizes BS02 and BS03 are 1-stage.
- Higher ratios available through attachment of a purpose built pre-stage or pre-connected gearbox.
- Many installation possibilities - foot or flange with single or double shaft end, hollow shaft with key or shrink disc design with torque arm - make these angular gear boxes an ideal space saving drive element.
- An economic solution for low torques and very low speeds.

2 Housing

- State-of-the-art gearbox housing designed for operation under harsh conditions.
- Compact closed housing is ideal for preventing lubricant loss and dirt build-up.
- High tensile cast housing.
- Vibration-free housing, noise absorbent and resistant against chemical effects.
- The single crimping process provides a level of higher accuracy lower noise and reduce chances of leakage due to core shifts.
- Stator housings with casing and cooling fins are manufactured in one casting and ensure efficient heat dissipation.
- Motor housings, bearing covers and terminal boxes made of corrosion resistant aluminium die casting.

3 Gear wheels

- Gear wheels made of high tensile and case hardened steel.
- Highly wear resistant through flank hardness of 60-62 HRC.

- Impervious to shock.
- Tooth flanks shaved, hobbled or ground.
- Strong, non-flexible pinion shafts and bearings guarantee exact tooth meshing.
- Worm wheels made of high quality, wear resistant bronze.

4 Stator winding

- The stator winding is manufactured from high quality enamelled copper wire with state-of-the-art three layer insulation in the stator slot and end coils.
- The stator winding is impregnated with a moisture resistant and tropical safe resin.
- The electrical design of the motor is adapted to the gearbox.

5 Rotor

- Aluminium die cast cage rotor ensures a high reliability at high starting torques and low starting currents.
- Torque troughs are avoided on startup and acceleration to provide reliable performance in high demand applications.

6 Terminal box

- Spacious terminal box also completely sealed against dust and water spray.
- A large measure on safety through CAGE CLAMP® connection technology on the winding ends and motor connection.
- Handy terminals allow easy connection.

Ordering Information BS

Gearing Options					Motor Options			Other Options							
BS	10	(blank)	-	1	1	/	DPE08XB4	-	TF	/	(blank)	/	AV	/	(blank)
Type	Size	Gear Stages	Housing Style		Shaft Style	Type	Feature	Brake	Shaft Options	Other					
BS - Helical Worm	02	Blank - standard	3 - Flange	1 - Solid	D08MA4	Blank-none	Blank-none	AV - Inch	Blank-none						
	03	Z - Add'l stage	8 - Base (Standard)	4 - Hollow	D08MA4	TF - thermistors	see Page 44-45 for Brake options	AM - Metric							
	06				DPE08XB4										
	10				DPE09XB4										
	20														
	30														
40															

Customer must provide the following at time of order:

- 1) Selected HP from Chart 1
- 2) Selected OUTPUT RPM from Selection Table on pages 40-41
- 3) SUPPLY VOLTAGE to power motor
- 4) MOUNTING POSITION from Chart 2 one page 39

Chart 1								
Motor Type	HP	Available Frame Sizes						
		BS02	BS03	BS06	BS10	BS20	BS30	BS40
D06LA4	0.5	X	X	-	-	-	-	-
D08MA4	0.5	-	-	X	X	X	X	X
D08MA4	0.75	-	X	X	X	X	X	X
DPE08XB4	1	-	-	-	X	X	X	X
DPE09XB4	1.5	-	-	-	X	X	X	X
DPE09XB4	2	-	-	-	X	X	X	X

Gearbox Specifications					
Model	Torque Rating (lbf-in)	Solid Shaft Sizes (BSxx-x1)		Hollow Shaft Sizes (BSxx-x4)	
		Inch (in) AV Option	Metric (mm) AM Option	Inch (in) AV Option	Metric (mm) AM Option
BS02	221	0.50	14	0.50	14
BS03	486	0.75	20	0.75	20
BS06	973	1.00	25	1.00	25
BS10	1681	1.25	30	1.25	30
BS20	3230	1.375	35	1.375	35
BS30	4779	1.625	40	1.50	40
BS40	9735	2.375	60	2.375	60

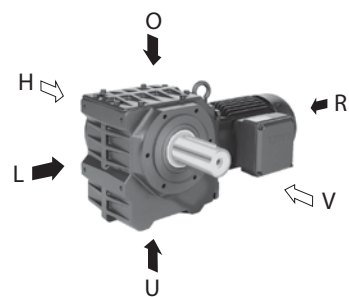
Motor Specifications					
Type	Voltage	Nominal Motor Speed	Frequency	Enclosure	Turndown****
ASM Asynchronous	230 V or 460 V**	1800 rpm	60 Hz	TEFC - fan-cooled	10:1 (continuous)
** Contact factory for voltages not shown					
**** Gearmotors sized in this catalog will be reliable for a 10X turn-down under (S1) continuous operation. Gearmotors can be provided for up to 1000X turn-down after consultation with the factory.					

Important Ordering Comments:

- Additional Output Shaft options are also available (contact factory for more info)
- Additional Motor Options (contact factory for more info): Brakes; encoders; special voltages; Non-std cable exits; variable cable lengths
- Unless advised, Right-Angle Gearmotors are specified for standard H1 mounting position (see table below)

Standard Mounting Positions BS

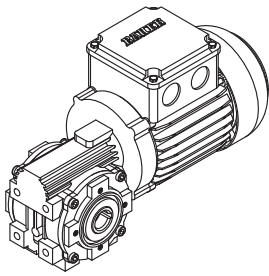
BS series: image shows mounting position H1



V =	Front The side of the gear unit facing toward the viewer looking toward the unit - mounting position H1
H =	Rear The side of the gear unit facing away from the viewer looking toward the unit - mounting position H1
L =	Left The side of the gear unit facing away from the viewer looking toward the unit - mounting position H1
R =	Right The left side of the gear unit as viewed from the output shaft side of mounting position H1, or the torque arm oriented to the left

Chart 2

BS Series						
Gear side	(U)	(O)	(R)	(L)	(V)	(H)
Mounting position	H1	H2	H3	H4	V1	V2



Performance and Selection Tables BS

Bauer BS Series - Worm Gear Motors																
	Motor Power Rating (HP)															
	0.5			0.75			1			1.5			2			
	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	Actual Output Speed (rpm)	Output Torque (lbf-in)	Service Factor	
Nominal Output Speed (RPM)	150	BS02-../D06LA4			BS03-../D08MA4			BS06-../DPE08XB4			BS10-../DPE09XB4			BS10-../DPE09XB4		
		152	168	1.3	168	230	2	162	314	1.85	141	522	1.85	140	717	1.35
	100	BS04-../D06LA4			BS03-../D08MA4			BS06-../DPE08XB4			BS10-../DPE09XB4			BS10-../DPE09XB4		
		100	239	1.3	89	394	1.25	105	478	1.35	104	708	1.5	104	974	1.1
	80	BS03-../D06LA4			BS03-../D08MA4			BS06-../DPE08XB4			BS10-../DPE09XB4			BS20-../DPE09XB4		
		86	274	1.75	89	394	1.25	88	575	1.15	82	903	1.25	79	1292	1.6
	70	BS03-../D06LA4			BS03-../D08MA4			BS06-../DPE08XB4			BS10-../DPE09XB4			BS20-../DPE09XB4		
		65	332	1.45	68	469	1.05	67	690	0.99	67	1080	1.05	76	1195	1.7
	62	BS03-../D06LA4			BS03-../D08MA4			BS06-../DPE08XB4			BS10-../DPE09XB4			BS20-../DPE09XB4		
		65	332	1.45	68	469	1.05	67	690	0.99	58	1097	1.05	63	1567	1.4
	56	BS06-../D06LA4			BS06-../D08MA4			BS10-../DPE08XB4			BS10-../DPE09XB4			BS20-../DPE09XB4		
		52	438	1.6	54	628	1.15	57	761	1.5	58	1097	1.05	57	1593	1.4
	50	BS03-../D06LA4			BS06-../D08MA4			BS10-../DPE08XB4			BS20-../DPE09XB4			BS20-../DPE09XB4		
		50	385	1.25	54	628	1.15	52	920	1.3	54	1319	1.8	54	1770	1.35
	45	BS03-../D06LA4			BS10-../D08MA4			BS10-../DPE08XB4			BS20-../DPE09XB4			BS20-../DPE09XB4		
		42	469	1.05	42.5	814	1.5	43.5	1089	1.15	44	1513	1.5	43.5	2080	1.1
	40	BS03-../D06LA4			BS10-../D08MA4			BS10-../DPE08XB4			BS20-../DPE09XB4			BS20-../DPE09XB4		
		42	469	1.05	42.5	814	1.5	36.5	1301	0.99	42	1682	1.4	41.5	2301	1.05
	35	BS06-../D06LA4			BS10-../D08MA4			BS10-../DPE08XB4			BS20-../DPE09XB4			BS20-../DPE09XB4		
		34	664	1.15	35.5	974	1.3	36.5	1301	0.99	35	1770	1.35	35	2390	1
	30	BS06-../D06LA4			BS10-../D08MA4			BS20-../DPE08XB4			BS20-../DPE09XB4			BS30-../DPE09XB4		
		28	788	1	29.5	1159	1.15	30	1584	1.55	30	2301	1.1	30	3231	1.25
	26	BS06-../D06LA4			BS10-../D08MA4			BS20-../DPE08XB4			BS30-../DPE09XB4			BS30-../DPE09XB4		
		28	788	1	28	1106	1.2	25	1859	1.45	25	2567	1.65	25	3540	1.2
	22	BS10-../D06LA4			BS20-../D08MA4			BS20-../DPE08XB4			BS30-../DPE09XB4			BS30-../DPE09XB4		
		23	1000	1.4	22.5	1363	1.75	23	1814	1.3	21.5	3319	1.1	19.5	4425	0.98
	20	BS10-../D06LA4			BS20-../D08MA4			BS20-../DPE08XB4			BS30-../DPE09XB4			BS30-../DPE09XB4		
		20	1186	1.1	19	1611	1.5	20	2080	1.15	19.5	3275	1.3	19.5	4425	0.98
	18	BS10-../D06LA4			BS20-../D08MA4			BS20-../DPE08XB4			BS30-../DPE09XB4			BS30-../DPE09XB4		
		20	1186	1.1	17	1991	1.1	20	2080	1.15	17	3717	1.2	19.5	4425	0.98
	16	BS10-../D06LA4			BS20-../D08MA4			BS30-../DPE08XB4			BS30-../DPE09XB4			BS40-../DPE09XB4		
		16	1248	1.15	16	1903	1.25	16.5	2611	1.75	17	3717	1.2	16.5	5133	1.65
	14	BS20-../D06LA4			BS20-../D08MA4			BS30-../DPE08XB4			BS30-../DPE09XB4			BS40-../DPE09XB4		
		13	1584	1.5	13.5	2257	1.05	14	3054	1.5	14.5	4337	1.05	14	6019	1.45
	12	BS20-../D06LA4			BS20-../D08MA4			BS30-../DPE08XB4			BS40-../DPE09XB4			BS40-../DPE09XB4		
		13	1584	1.5	13.5	2257	1.05	11.5	3673	1.3	12	4956	1.75	12	6815	1.25
	10	BS20-../D06LA4			BS30-../D08MA4			BS30-../DPE08XB4			BS40-../DPE09XB4			-		
		11	1947	1.25	9	3408	1.4	9.3	4425	1.1	9.9	6019	1.2			
	9	BS20-../D06LA4			BS30-../D08MA4			BS30-../DPE08XB4			BS40-../DPE09XB4			-		
		8.9	2301	1.1	9	3408	1.4	9.3	4425	1.1	9.9	6019	1.2			
	8	BS20-../D06LA4			BS30-../D08MA4			BS40-../DPE08XB4			-			-		
		8.9	2301	1.1	7.8	3894	1.2	7.9	5045	1.4						
	7	BS30-../D06LA4			BS30Z-../D08MA4			BS40Z-../DPE08XB4			-			-		
		7.5	2744	1.7	6.5	4691	1.05	7	5664	1.4						
	6	BS30Z-../D06LA4			BS30Z-../D08MA4			BS40Z-../DPE08XB4			-			-		
		6.2	3319	1.5	6.5	4691	1.05	5.8	6815	1.4						
	5	BS30Z-../D06LA4			BS40Z-../D08MA4			BS40Z-../DPE08XB4			-			-		
		5.3	3806	1.35	4.8	6019	1.6	4.9	8143	1.15						

Match the appropriate GREEN Output Speed with the required BLUE/WHITE Motor Power for your application to identify the part number and performance.

Ratings shown reflect maximum gear capacity based on AGMA standards (minimum service factor = 1.0).

Ratings are based on operating at 60Hz and continuous duty cycle usage (16 hours per day).

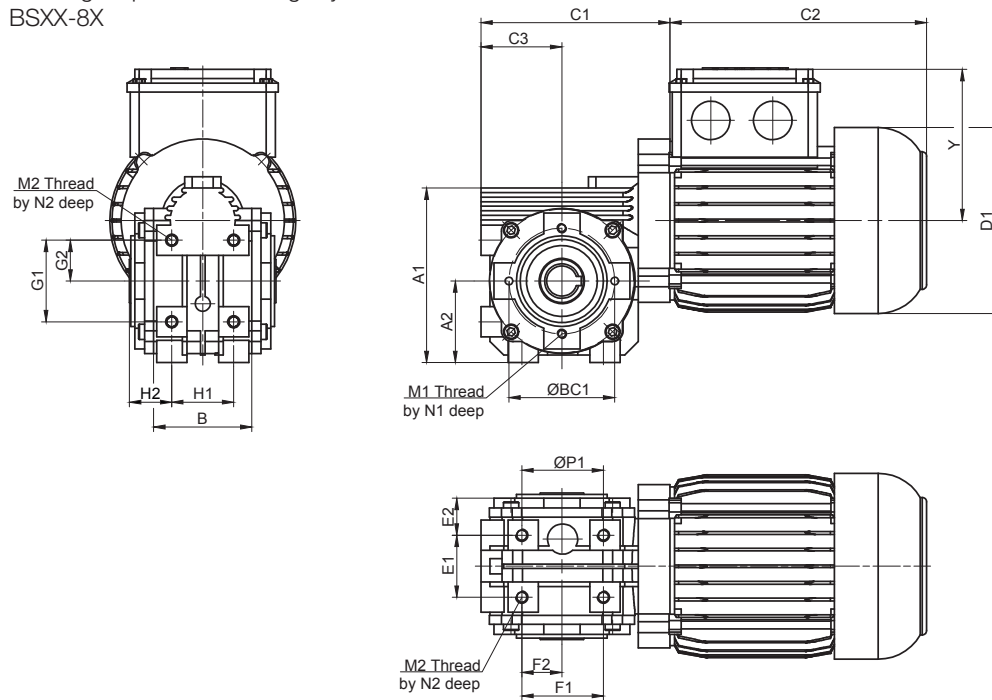
Part numbers in BOLD text include an external gear stage (denoted by "Z").

For output speeds, output torque levels or motor HPs not shown, please contact the factory for selection assistance 1-800-387-0130.

Dimensions BS

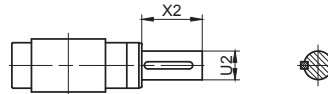
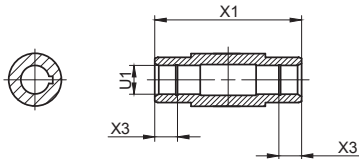
BS02-BS03

Drawings represent Housing Style 8
BSXX-8X



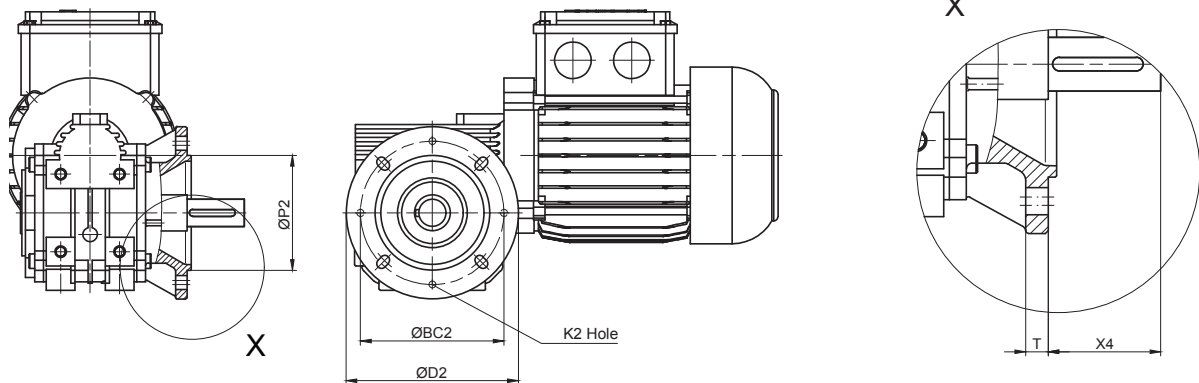
Hollow Shaft Details

Solid Shaft Details



Output Flange Option

Drawings represent Housing Style 3
BSXX-3X



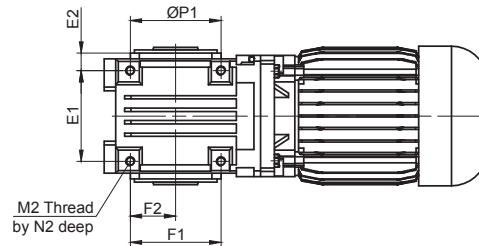
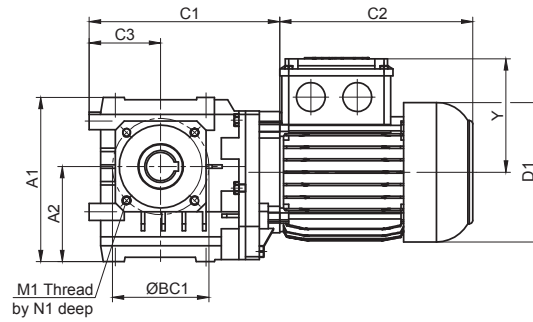
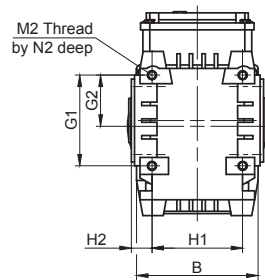
Dimensions in inches																													
Gearbox	A1	A2	B	BC1	BC2	C3	D2	E1	E2	F1	F2	G1	G2	H1	H2	K2	M1	N1	M2	N2	P1	P2	T	U1	U2	X1	X2	X3	X4
BS02	3.46	1.57	2.58	2.559	2.559	1.57	3.15	1.26	0.86	1.42	0.71	1.42	0.71	1.26	0.86	0.22	M5	0.39	M6	0.39	1.969	1.969	0.28	0.50	0.50	3.19	0.91	0.59	1.10
BS03	4.55	2.13	3.17	2.756	3.937	2.13	4.72	1.61	0.97	2.13	1.06	2.13	1.06	1.61	0.97	0.26	M6	0.59	M8	0.55	2.362	3.150	0.32	0.75	0.75	3.82	1.57	0.59	1.57
Fixing hardware for Output Shaft (ie Key) is supplied with Gearmotor																													

Dimensions in inches					
Motor	C2	D1	Y	C1	
				BS02	BS03
D..06	6.69	4.84	4.69	4.15	4.93
D..08	7.85	6.14	5.37	N/A	6.66

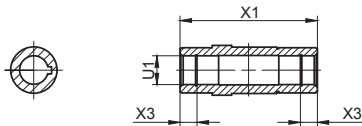
Dimensions BS

BS06

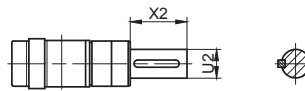
Drawings represent Housing Style 8
BSXX-8X



Hollow Shaft Details

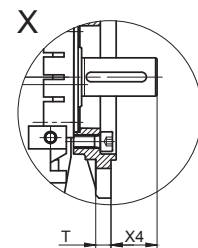
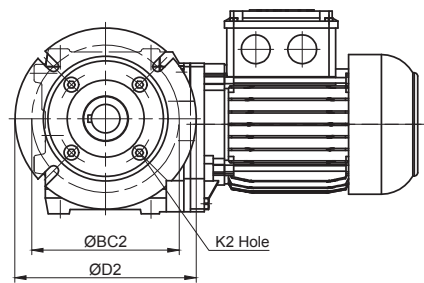
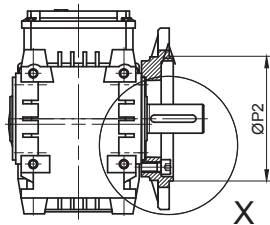


Solid Shaft Details



Output Flange Option

Drawings represent Housing Style 3
BSXX-3X



Dimensions in inches

Gearbox	A1	A2	B	BC1	BC2	C3	D2	E1	E2	F1	F2	G1	G2	H1	H2	K2	M1	N1	M2	N2	P1	P2	T	U1	U2	X1	X2	X3	X4
BS06	5.74	3.31	3.78	3.346	4.528	2.48	5.51	3.15	0.81	3.15	1.57	3.15	1.57	3.15	0.72	0.35	M8	0.63	M8	0.63	2.874	3.740	0.39	1.00	1.00	4.76	1.97	0.59	1.20

Fixing hardware for Output Shaft (ie Key) is supplied with Gearmotor

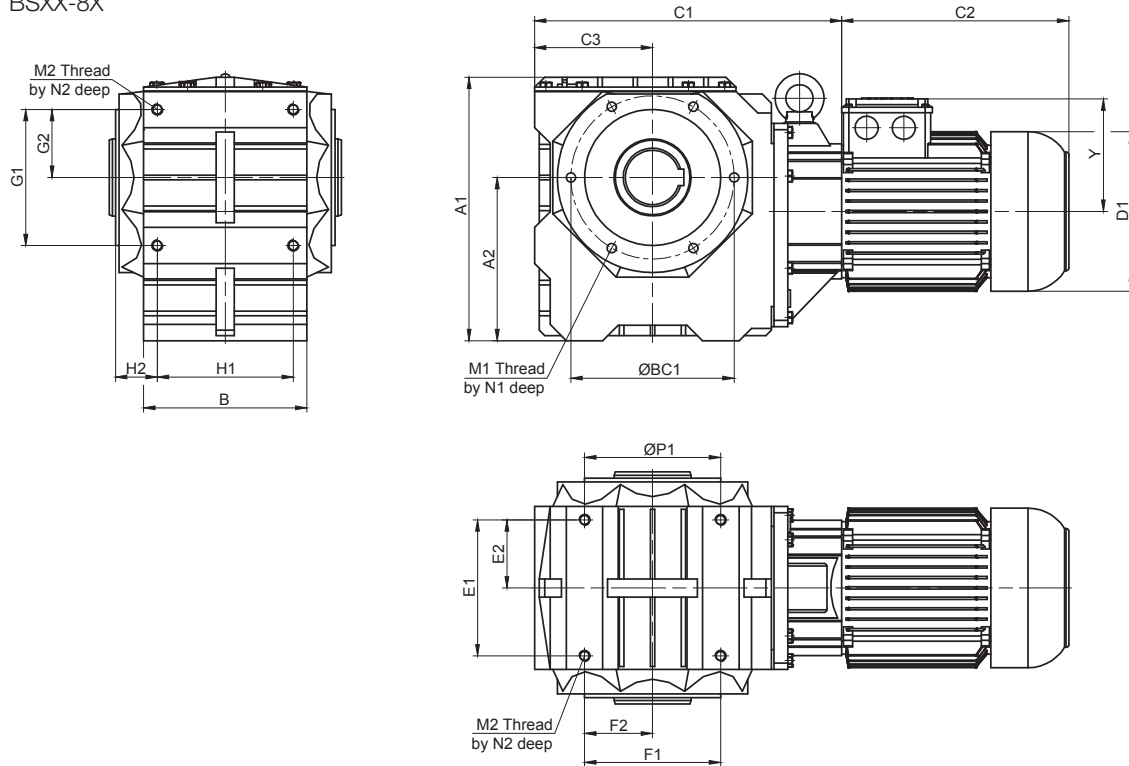
Dimensions in inches

Motor	C2	D1	Y	C1 BS06
D..08	7.85	6.14	5.37	8.34

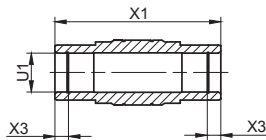
Dimensions BS

BS10-BS40

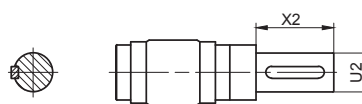
Drawings represent Housing Style 8
BSXX-8X



Hollow Shaft Details

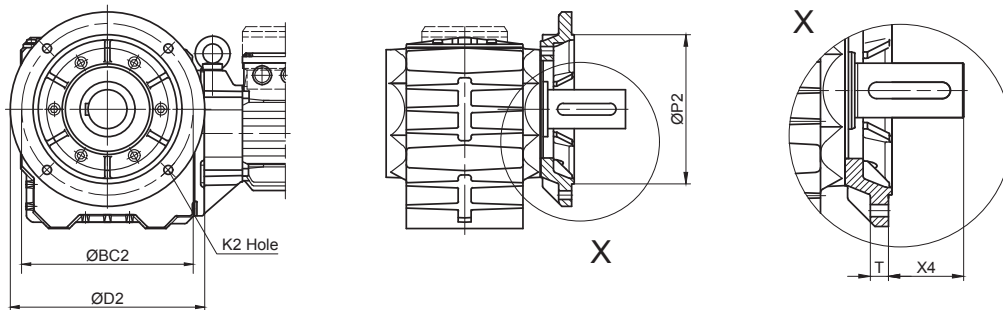


Solid Shaft Details



Output Flange Option

Drawings represent Housing Style 3
BSXX-3X



Dimensions in inches

Gearbox	A1	A2	B	BC1	BC2	C3	D2	E1	E2	F1	F2	G1	G2	H1	H2	K2	M1	N1	M2	N2	P1	P2	T	U1	U2	X1	X2	X3	X4
BS10	6.89	4.25	4.49	3.937	6.496	3.46	7.87	3.74	1.56	3.54	1.77	3.54	1.77	1.87	1.30	0.43	M8	0.63	M8	0.63	3.150	5.118	0.47	1.25	1.25	6.85	2.36	0.59	1.54
BS20	8.23	5.04	5.04	5.118	8.465	4.06	9.84	4.13	2.05	4.33	2.17	4.33	2.17	2.07	1.78	0.53	M10	0.79	M10	0.79	4.331	7.087	0.63	1.375	1.375	8.23	2.76	0.63	1.83
BS30	9.61	6.06	5.83	5.118	8.465	4.49	9.84	4.72	2.30	4.92	2.46	4.92	2.46	2.46	2.00	0.53	M10	0.79	M12	0.94	4.331	7.087	0.63	1.50	1.625	9.33	3.15	0.67	2.26
BS40	11.59	7.24	7.09	7.087	10.433	5.28	11.81	5.91	2.09	5.91	2.95	5.91	2.95	5.91	1.73	0.53	M12	0.94	M12	0.94	5.906	9.055	0.79	2.375	2.375	10.08	4.72	0.83	3.27

Fixing hardware for Output Shaft (ie Key) is supplied with Gearmotor

Dimensions in inches

Motor	C2	D1	Y	C1							
				BS10	BS10Z	BS20	BS20Z	BS30	BS30Z	BS40	BS40Z
D..08	7.85	6.14	5.37	9.30	11.90	10.50	13.73	11.42	14.39	12.76	16.01
D..09	9.86	6.93	6.18	9.87	-	11.07	-	11.99	14.96	13.33	16.58

Selection Guide for Brakes

Brakes are commonly used in gearmotor applications, such as inclined conveyors or coilers, to prevent undesired motion caused by gravity, inertia or resistive forces.

Brakes are classified into two types: Holding brakes (a.k.a. Static) and Service brakes (a.k.a. Dynamic).

Holding brake ES..

A brake that in normal operation does not convert kinetic energy into frictional energy but is only used to hold a mechanism in a particular position, but which can also be used for motion braking in an emergency.

Service brake ESX..

A brake that converts kinetic energy into frictional energy in normal operation, which means that it brakes mechanical motion.

When a working brake is used as a holding brake, the braking torque tolerance of up to -30 % (in new condition) must be taken into account.

Functional Description

The compression springs act on the anchor disc, which is free to move in the axial direction and presses the brake disc, which is keyed to the rotor shaft, against the friction plate or the motor bearing plate. This produces the braking torque.

When a DC voltage is applied to the coil in the electromagnet housing, it generates a magnetic force that opposes the spring force and causes the anchor disc to be pulled toward the electromagnet enclosure.

This releases the brake disc and disengages the brake.

Product description of type ES(X) spring-actuated brakes

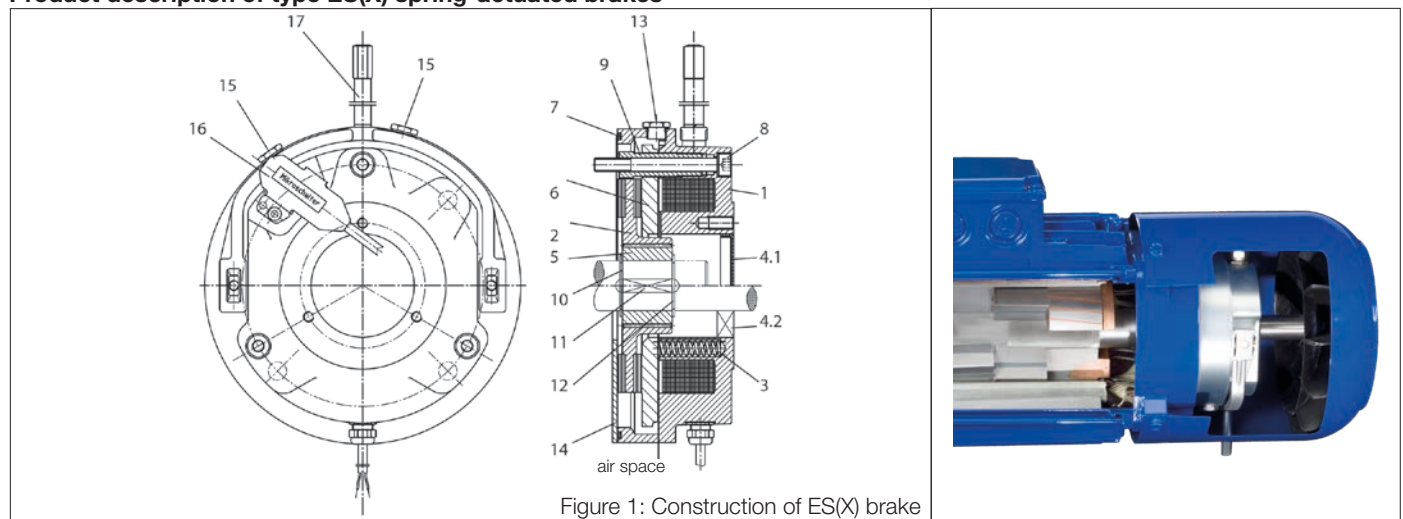


Figure 1: Construction of ES(X) brake

Construction of ES(X) brake

1	Electromagnet housing	9	Hollow screw
2	Brake disc	10	Retaining ring
3	Compression spring	11	Key
4.1	Cover plate with closed brake	12	Retaining ring
4.2	Shaft seal with through shaft	13	Screw plug for checking air gap
5	Drive bush	14	Friction plate (only with motor size Dxx08 or Dxx09)
6	Anchor disc	15	Screw plug for checking microswitch setting
7	O-ring	16	Microswitch (optional)
8	Fitting screw with copper washer	17	Manual release (optional)

Brake mounting

ES and ESX: Brake mounting is under the fan cover

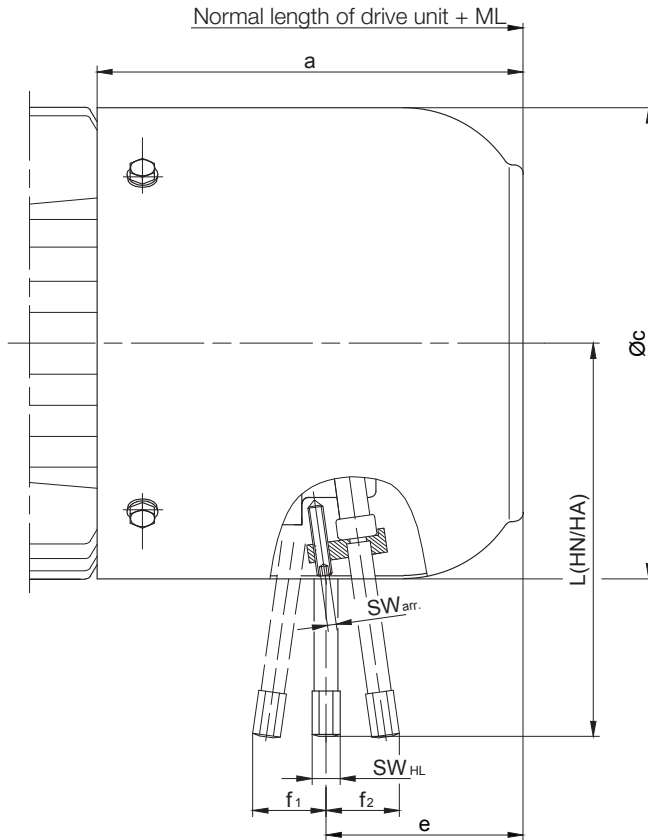
Options

- Manual release, non-locking or locking

Ordering Information

- Selected Brake will appear in the Other Options portion of the Gear Motor part number.
- It is recommended to consult Factory (1-800-387-0130) for assistance in selection of appropriate Brake for the application.

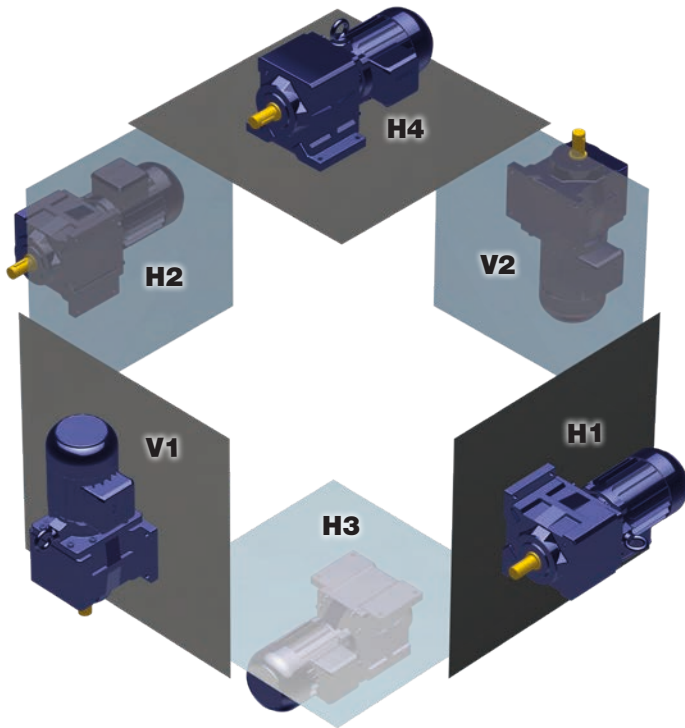
Additional Dimensions Brake Motors



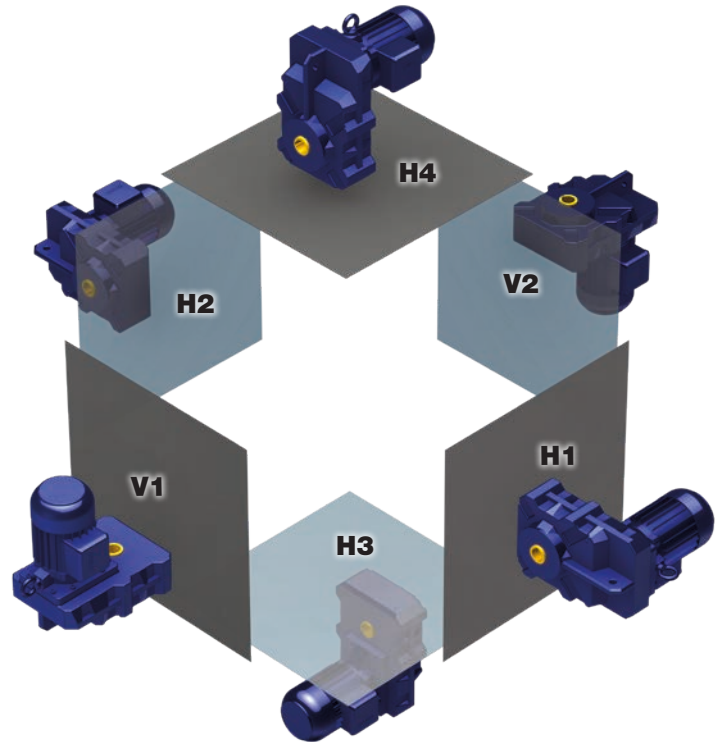
Motor	Brake	ML (inch) Additional length with brake	a	Øc	e	f ₁	f ₂	L(HA/HN)	SW _{HL}	SW _{arr.}	Add.weight lbs	Max Static Torque (lbf-in)	
D..04..	E003	1.71	3.82	4.35	2.30	0.81	0.94	3.78/4.01	0.43	0.43	2.20	27	
D..05..		1.65	4.02	4.84	2.36								
D..06..					2.30								
D..07..	E003/E004											44	
D..08..	ES(X)010	2.60	5.55	6.14	2.68	-	1.14	5.20	0.32	0.10	5.73	89	
D..09..	ES(X)010	3.66	6.81	6.93	3.90	-	1.14	5.20	0.32	0.10	5.95	89	
	ES(X)027				3.58	-	1.40	6.38			9.26	239	
D..11..	ES(X)027	3.86	7.68	8.58	4.06	-	1.40	6.38	0.32	0.10	9.92	239	
	ES(X)040				3.94	-	1.46	6.77			13.89	354	
	ES(X)070				3.78	-	1.36	7.48	0.47	0.16	18.74	620	
D..13..	ES(X)040	4.37	8.86	10.16	4.92	-	1.61	7.95	0.47	0.16	14.33	354	
	ES(X)070				4.76	-	1.50	8.86			18.74	620	
	ES(X)125				4.57	-	1.77	8.78			27.56	1106	
D..16..	ES(X)125	5.67	11.42	12.20	5.83	-	1.91	9.61	0.47	0.16	29.76	1106	
	ES(X)200				5.55	-	1.97	10.08			41.89	1770	
	ES(X)300				4.41	-					48.50	2655	

HA = manual release lockable
HN = manual release not lockable

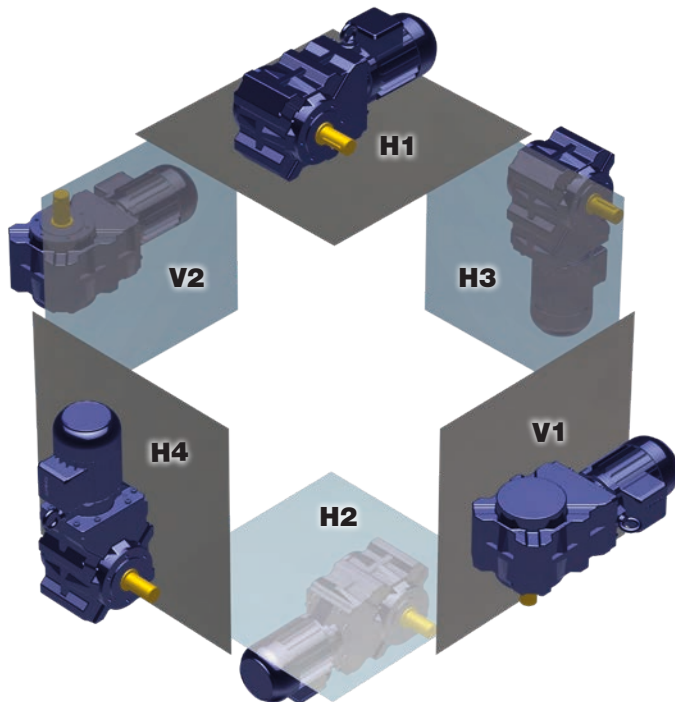
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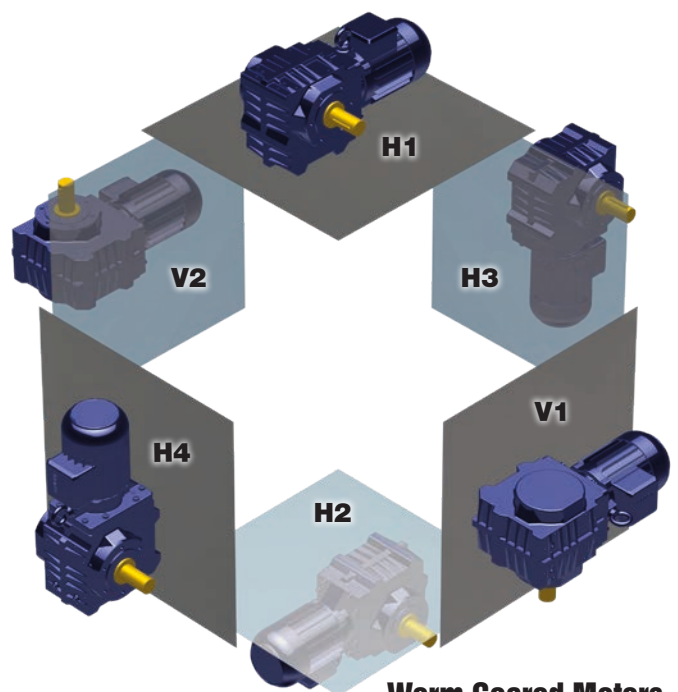
Helical Geared Motors



Parallel Shaft Geared Motors



Bevel Geared Motors



Worm Geared Motors



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