



BE Bucket Elevator Gearbox

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Boneng Transmission

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1 Overview

Boneng gearboxes win wide appreciation of domestic and foreign customers with high-quality service and stable quality. The gearbox can be applied in driving mechanisms of belt conveyor, trolley conveyor, scraper conveyor, bucket conveyor, trolley conveyor, screw conveyor, roller conveyor, vibration conveyor and various kinds of conveyors We have obtained apparent achievements in cement in cement, port, mine, metallurgy, construction and chemical industries

BE series gearbox is a gearbox specially designed according to application situation and transmission characteristics of bucket conveyer. It is first-choice mating products for domestic and foreign bucket elevator manufacturers. We have made good achievements in bucket elevator industry. BE series gearbox has the following characteristics:

- ◆Main transmission and auxiliary transmission are of integrated design, the structure is compact. Main and auxiliary driving can be automatically switched with electric control Remote control doesnt need extra manual operation which is convenient for installation and debugging of users.
- Auxiliary transmission can satisfy customers' requirements during maintenance. (But maintenance can only be done under empty loading(vacum up equipment material storage.
- ◆Main gearbox is equipped with back stop device. It can prevent reverse rotation when ine device stops or has faults.
- ◆Main gearbox is 3-stage or 4-stage transmission, reduction ratio range is 16-400, we can provide gear box with larger ratio according to customer requirements.
- ◆We can apply footing or axial-installing structure to install and equip rain-proof cover, protection cover, displacement-proof end plate and other auxiliaries according to actual application situations.
- ◆We apply high-quality imported backstop and overrun clutch, the volume is small, safety coefficient is high.
- Modular design, international production, delivery is more rapid and convenient.



⚠ Note: 1. Main gearbox and auxiliary gearbox, the internal part of clutch flange should be filled with enough lubrication oil. You can only start the gearbox when filling enough lubrication oil

2. If not marked, the dimension unit in sample is millimeter(mm)

2 Product Function Mark



Oil glass



Breather



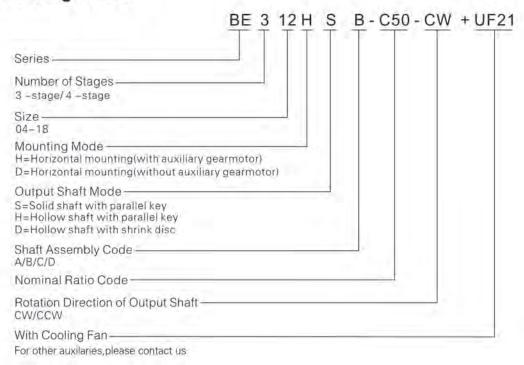
Oil filler



Oil drain



3 Type Designation





4 Mounting Mode

	Ho	prizontal mounting	
BE3H (iN 16~90)	BE3HS	BE3HH	BE3HD
BE3D (iN 16~90)	BE3DS	BE3DH	BE3DD
BE4H (iN 100~400)	BE4HS	BE4HH	BE4HD
BE4D (iN 100~400)	BE4DS	BE4DH	BE4DD



5 Selection

Serial NO.	Description	Codes		Parameter Calculat	tion							
Ť	Driven machine factor	ft	See Page 5 11 table									
			Prime mover factor				f2					
2	Secretaria de Companyo de Comp	£n.	Electric motors, hydraulic motors, steam turbines 1.0									
2	Prime mover factor	f2	4 - 6 cylinders Piston engi	nes Periodic variation 1 : 10	00 to 1 : 2	00	1.2	5				
			Piston engines 1 – 3 cylir	nders cyclic variation up t	o 1 : 100	0	1.5	5				
3	Gear unit reliability factor	SF	See P5 SF table									
4	Transmission Efficiency	ŋ	3-stage:94%;4-stage:92%									
5	Calculation of ratio	1	i=n1/n2									
6	Input speed	ñı	≤ 1800rpm Consult us if higher speed is required.									
7	Calculate the input power of the gear unit on basis of the torque and power required by driven machine	P1	$P_1=T_2 \cdot n_1/(9550 \cdot (\cdot \eta))$ or $P_1=P_2/\eta$									
8	Deter mination of gear unit type referring to the table of transmission capacity	T2N, P1N	T2N ≥T2 · f1 · f2 · SF	或 P1N≫P1・f1・f2・S	F							
9	Determine output mode		Output mode & mounting	ng position								
			A	f3			imes per					
10	Check for peak torque	TA	P ₁₀ ≥T _A , N 1- f3/9550	Unidirectional load	0.5	0.65	0.7	0.75				
		-		Alternating Load	0.7	0.95	1.10	1.25				
	1			Horizontal Instal	Horizontal Installation							
11	Determination of lubrication methods and lubricants		Optional Lubrication Methods: 1) Splash Lubrication 2) Forced Lubrication Shaft-end pump Lubrication Motor pump Lubrication									
12	Confirmed Caoling method		User-supplied oil station Lubrication 1) Adequate for gear units without auxiliary cooling device, if: P1≤PGA×f4×f8 2) Adequate for gear units with fan cooling, if: P1≤PGB×f4×f8									

^{*} peak torque:maximum load torque,means maximum torque caused by starting,braking or maximum pulsating load.(Peak torque is maximum torque during starting or braking under common conditions.)



6 Service Factors

				Factor for d	riven machine			f1
Driven	machine	Daily runnin ≤ 0.5	ig time with coa	d (hour/day) > 10	Driven machine	Daily runnir ≤ 0,5	ng time with coa	d (hour/day) > 10
Bucket	Bucket elevator		/ 1.4		Scraper conveyor	1	1.2	1.5
	≤ 150KW 1.0	1.2	1.3	Screw conveyor	1	1.2	1.5	
Belt conveyor		12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		3.5	119	Hawling winch	1.4	1.6
	≥ 150KW 1.1 1.3		1.4	Winch	1	1.5	1.8	

	Reliability factor for gear unit	SF
For common machine when gear unit breaks down, only single machine shuts down. Components are easy to change with minor loss.	For important machines, when gear unit breaks down, the production line or the whole plant may shut down, the loss is big.	For high reality requirements, when gear unit breaks down, there maybe severe production problems, thus large economic loss and life accidents maybe caused.
1.0 ≤ SF ≤ 1.3	1.3 <sf 1.5<="" td="" ≤=""><td>1.5<sf< td=""></sf<></td></sf>	1.5 <sf< td=""></sf<>

Ambient temperature factor												
Without auxiliary cooling or with fan cooling												
Ambient temperature	Operating cycle per hour (ED) in %											
Aniblent temperature	100	80	60	40	20							
10 ℃	1.11	1.31	1.60	2.14	3.64							
20 ℃	1.00	1.18	1.44	1.93	3.28							
30 ℃	0.88	1.04	1.27	1.70	2.89							
40 ℃	0.75	0.89	1.08	1.45	2.46							
50 ℃	0.63	0.74	0.91	1.22	2.07							

Oi	I supply factor for gear units	f		
Splash Lubrication	1.0			
Forced Lubrication	1.05			



7 Auxiliary Gear motor Parameters

Size	Gearmotor	Nominal ratio	Actual ratio	Motor power (kW)	Main ratio	Output ratation speed n3(r/min)	Rated outpu torque T3(kN.m)
DE004	125.47	00.0	04.40	2.4	16-25	3.7	2.9
BE304	KE47	30.9	31.43	1.1	28-90	2.1	5.2
DESOF	VEC7	20.0	20.00	2.0	16-25	3.9	4.7
BE305	KE67	30.9	30.96	2.2	28-90	2.2	8.6
DEOOG	WEG7	20.0	20.00	0.0	16-25	3.8	5.0
BE306	KE67	30.9	30.96	2.2	28-90	2.1	8.9
DECOZ	NE32	20.0	20.0		16-25	3.8	9.3
BE307	KE77	30.9	30.9	4	28-90	2.1	17.1
DEGGG	NE33	20.0	00.0	20	16-25	3.8	9.3
BE308	KE77	30.9	30.9	4	28-90	2.1	17.0
BE309	VE 77	25.7	26 E		16-25	3.2	15.7
BE309	KE77	35.7	36.5	5.5	28-90	1.8	27.1
DEOTO	NE22	25.7	20.5	66	16-25	3,2	15.5
BE310	KE77	35.7	36.5	5,5	28-90	1.9	26.8
DEOTA	VE07	07.0	07.0		16-25	4.2	24.9
BE311	KE87	27,9	27.9	11	28-90	2.3	44.7
DE040	VE07	07.0	07.0	44	16-25	4.2	25.9
BE312	KE87	27.9	27.9	11	28-90	2.3	46.5
DEGTO	WE07	07.0	07.07	40.5	16-25	4.4	40.5
BE313	KE97	27.9	27.87	18.5	28-90	2.4	74.6
DEGLA	KE07	07.0	07.07	10.5	16-25	4.4	40.5
BE314	KE97	27.9	27.87	18.5	28-90	2.4	74.7
DEOJE	KE107	07.0	07.7	00	16-25	4,3	66.8
BE315	KE107	27.9	27.7	30	28-90	2.4	119.4
DE016	NE407	27.0	07.7	20	16-25	4.3	66.8
BE316	KE107	27.9	27.7	30	28-90	2.4	119.4
DEOLZ	NE 107	07.0	07.07	0.7	16-22.4	4.7	74.9
BE317	KE127	27.9	27.67	37	25-80	2.7	133.2
DESTO	VE107	07.0	07.07	27	16-25	3.9	89.8
BE318	KE127	27.9	27.67	37	28-90	2.2	159.8



4.7	1			BE405H-418	SH	Output ratation	Rated outpu
Size	Gearmotor	Nominal ratio	Actual ratio	Motor power (kW)	Main ratio	speed n3(r/min)	torque T3(kN.m)
BE405	KE37	9.8	9.93	1.5	100-112	2.6	4.9
BC403	KLOF	3.0	3.33	1.0	125-400	1.5	8.6
BE406	KE37	9.8	9.93	1.5	100-112	2.5	5.1
DL400	INLO?	9.0	9.90	1.3	125-400	1.4	8.9
BE407	KE47	12,5	12.42	2.2	100-112	2.0	9.3
BC401	IXLA?	12,9	12.42	۵,د	125-400	1.1	16.2
BE408	KE47	12.5	12.42	2.2	100-112	2.1	9.0
DL400	IXL41	12.0	12.42	2.2	125-400	1.2	16.0
BE409	KE67	8.1	8.14	5.5	100	3.4	13.8
BL409	NE07	0.1	0.14	5.5	112-400	1.8	25.7
BE410	KE67	8,1	8,14	5.5	100	3.4	13.6
BE410	INCO1	0,1	0,14	5.5	112-400	1.8	25.7
BE411	KE67	14.3	14.42	5.5	100-112	1.8	25.1
DE411	INCO?	14.0	14.42	5.5	125-400	1.0	45.5
BE412	KE67	14.3	14.42	5.5	100-112	1.8	25.2
DE412	NEO/	14.3	14.42	5.5	125-400	1.0	45.5
BE413	KE77	14.3	14.4	11	100-112	1.8	50.3
DL413	INC.	14.0	14.4	9.03	125-400	1.1	87.2
BE414	KE77	14.3	14.4	11	100-112	1.8	50.3
DL414	IXE.	14.5	1.454		125-400	1.1	87.2
BE415	KE87	14,3	14.1	15 -	100-112	1.9	66.7
DE413	NEO!	14,3	14.1	15	125-400	1.1	119.5
BE416	KE87	14.3	14.1	15	100-112	1.9	66.6
DE410	NEO/	14,3	14.1	15	125-400	1.1	119.4
BE417	KE87	14.3	14.1	18.5	90-100	2.1	73.9
DE417	NEO/	14.3	14.1	10.5	112-355	1.2	132.5
DE // 10	KE07	14.2	111	10.5	100-112	1.8	85.4
BE418	KE87	14.3	14.1	18.5	125-400	1.0	152.9



8 Key to Symbols

Code	Instruction	Unit
I	Actual ratio	
in	Nominal ratio	/
iex	Accurate ratio	
Code	Speed Ratio Code	
T20	Rated output torque	
ŤÃ	Peak torque	N⋅m
Тз	Auxiliary drive rated output torque	
PiN	Rated input power for gearbox	
PGA	Rated thermal capacity for gearbox without cooling devices	
Pas	Rated thermal capacity for gearbox with cooling fans	
Pı	Input power	kW
P2	Application power for driver machine	
Pm	Motor Power	
fr	Driven machine factor	
fz	Prime mover factor	
fx	Peak load factor	
Ť4:	Ambient temperature factor	
fa	Oil supply factor for gearbox	
SF	Reliability factor for gearbox	
nı	Input speed	
Nan	Nominal output speed	
ńz	Output speed	r/min
ns	Output shaft speed when auxiliary device is running	771



9 Selection Example

Known Criterias:

Prime motor:

Motor Power: Pm=132KW Motor Speed: N1=1450rpm

Maximum starting torque: Ta=1395N · m

Driven machine (working machine):

Machine name: Bucket Elevator Machine speed: n2=29rpm Lifting power: P2=100KW service duration: 12h/day Operating circle per hour: 100% Ambient temperature: 40°C

Gear units:

BE series gearbox Shaft amangement:B

Output shaft:

Hollow output shaft with shrink disk connection

Rotating direction of out put shaft: CW (Facing output shaft, CW rotating)

Selection steps:

1. Calculate ratio:

i=n₁/n₂=1450/29=50 take i_N=50

2. Determine rated power of gearbox:

$P_1=P_2/\eta = 100/(94\%) = 106.4KW$

 $P1N\!\gg\!P1 \cdot f1 \cdot f2 \cdot SF\!=\!106.4 \times 1.5 \times 1 \times 1.4 \!=\! 223.4 kW$ Referring to the table of transmission capacity,

Choose foundation NO.12

3. Verify peak torque:

 $P_{1N} \ge T_A \cdot n_1 \cdot f_3/9950 = 1395 \times 1450 \times 0.5/9550 = 105.9 \text{kW}$

P1N=234kW≥105.9kW Meet requirement.

4. Verify thermal capacity:

PgA-f4+f8=115 × 0.75 × 1=86.3kW≤100KW

Do not satisfy the requirement

PgB-f4·f8=281×0.75×1=210.8kW≥100KW

meet requirement

So auxiliary cooling device can meet the requirement of thermal capacity.

5.Determine type: BE312HDB-C50 -CW+UF21



10 Transmission Capacity Table

BE304-312(iN=16-90)

Code		n₁	n _{2N}		3E30	4		BE30	_		BE30	,	BE307										
Code	IN	(r/min)	(r/min)	Tan	lex	P _{1N}	Tan	İex	P _{1N} (kW)	T ₂ N	lex	P _{1N} (kW)	Tan	lex	Pi								
	-	1740	109	(kN · m)		(kW) 74	(kN • m)		120	(kN • m)		137	(kN • m)		(kW								
- Sara		1450	90.6		7-3	62		- Tris - 80	100			114	1000		188								
C16	16	1150	71.9	6.7	15.6	49.2	10.5	14.9	79	12	15.3	90	20.0	15.5	149								
		960	60.0			41.0			66			75			124								
1		1740	96.7			67			114			126			212								
C18	18	1450	80.6	6.7	17.6	56	11.6	16.8	95 75	12.6	17.3	105	21.7	17.5	177								
010	10	1150	63.9	0.7	17.0	44.4	11.0	10.0	75	12.0	17.0	83	21.1	17.5	140								
		960	53.3			37.1			63			70			117								
		1740	87.0			60			106			120			197								
C20	20	1450	72.5	6.7	18,7	50	11.6	17.9	88 70	13.2	18.4	100	21.7	20.2	164								
1.6.5%		1150	57.5	DE S	0.510	39.7	7, 1,10	1000	70	120	N.S.A.T.	79	0.00	75 4769	130								
-		960 1740	48.0 77.7			33.1 54			58 94			66 115			109								
	-50	1450	64.7	132	40.7	15.0			79	100		06	1000	1500	1/1								
C22	22.4	1150	51.3	6.7	22.0	45.0 35.7	11.6	21.1	78 62	14.2	21.6	96 76	21.7	21.9	147								
		960	42.9			29.8			52			64			97								
		1740	69.6			49.2			84	1		113	i e		157								
C25	25	1450	58.0	6.7	24.9	41.0	11.6	23.9	70	15.5	24.5	94	21.7	24.8	13								
025	20	1150	46.0	0,7	24.9	41.0 32.5	11.0	20.9	56	13.5	24,5	94 75	644	24.0	104								
		960	38.4			27.1			46.3			62			87								
		1740	62.1			43.2			76			101			142								
C28	28	1450	51.8	6.7	27.7	36.0	11.6	26.5	63	15.5	27.2	84 67	21.7	28.3	118								
5.08		1150	41.1			28.6	102	9308	50	1,31,5	9015	67			94								
		960	34.3			23.8			41.7	1		56			78								
1.3.5		1740 1450	55.2			38.4 32.0			67 56	0.0		89	1	0.5	126								
C32	31.5	1150	46.0 36.5	6.7	31.2	25.4	11.6	29.9	44.4	15.5	5 30,7	74 59	21.7	31.9	108 83								
		960	30.5	1		21.2	1.27		37.1	-		49.0			70								
		1740	49.0			33.6			59			79			110								
C36 35.5	25.5	1450	40.8	0.7	33.2	28.0	11.6	31.8	49.0	100	20.7	66	21.7	37.0	92								
	35.5	1150	32.4	6.7	33.2	22.2	11.0	31.0	49.0 38.9	15.5	32.7	66 52		37.0	92 73								
		960	27.0			18.5			32.4			43.7			61								
		1740	43.5	6.7		30.0			53	-		71			100								
C40	40	1450	36.3		39.1	25.0 19.8	11.6	37.5	44.0	15.5	38.4	8.4 59	21,7	40.0	83								
2.15	20	1150	28.8		33	33	22			- 0				-500	19.8	200.2	8135	34.9	1000		46.8	F 20	78.6
-	-	960	24.0			16.6			29.1	-		39.1			55								
100	1	1740 1450	38.7 32.2				26.4 22.0	17.7		46.8 39.0	1000	5.7	61	1.7	1 12 V	86 72							
C45	45	1150	25.6	6.7	6.7 44.3	17.4	11.6	11.6 42.5	42.5 39.0	15.5	43.6	51 21.7	21.7	45.3	57								
7	1	960	21.3	100		14.6			25.8			33.8			47.								
	-	1740	34.8			24.0			42.0			55	1		79								
C50	50	1450	29.0	6,7	48.7	20.0	11.6	46.7	35.0	15.5	47.9	46.0	21.7	49.8	66								
000	50	1150	23.0	0.7	40.7	15.9	11.0	40.7	27.8	15.5	47.9	36.5	211	49.0	52								
	-	960	19.2	1		13.2			23.2			30.5	11		43.								
		1740	31.1			21.6			37.2			50	1		71								
C56	56	1450	25.9	6.7	56.2	18.0	11.6	53.9	31.0	15.5	55.3	42.0	21.7	57.5	59								
0.37	111	1150	20.5		1975	14.3		*****	24.6	1		33.3			46.								
		960 1740	17.1	1		11.9			20.5			27.8	1		39. 61								
4270	6.3	1450	27.6 23.0	100	CO G	19.2	03.6	10.0	27.0	72.2	Sec.	37.0	H.JE	1000	51								
C63	63	1150	18.3	6.7	60.9	12.7	11.6	58.4	21.4	15.5	59.9	29.3	21.7	62,3	40.								
7.77		960	15.2	1		10.6			17.9			24.5		2.0	33.								
		1740	24.5			16.8			28.8			39.6			50								
C71	71	1450	20.4	6.7	68.7	14.0	116	65.0	24.0	15.5	67.5	33.0	20.0	70.0	42.								
C71	1	1150	16.2	0.7	00.7	11.1	11.6	65.8	19.0	15.5	67.5	26.2	20,0	70.2	33.								
		960	13.5			9.3			15.9			21.8			27.								
	=	1740	21.8			14.9			25.2			34.8	100		44.								
C80	80	1450	18.1	6.7	78.8	12.0	11.6	75.5	21.0	15.5	77.5	29.0	20.0	80.5	37.								
7.7.7		1150	14.4		Je 212	9.9	1	1	16.7	1		23.0	- 77	C. S.	29.								
		960	12.0			8.2			13.9	, , , , , , , , , , , , , , , , , , ,		19.2			24.								
. 4.41		1740	19.3			13.3			22.8			31.2		5000	39.								
C90 9	90	1450 1150	16.1 12.8	6.7	85.8	11.0	11.6	82.3	19.0	15.5	84.4	26.0	20.0	87.8	33. 26.								
C90																							



	BE308	3	3	BE30	9	BE310 BE311		1		BE31.	2			
Tan (kn·m)	lex	Pin (kW)	T ₂ N (kN·m)	İex	P _{1N} (kW)	T ₂ N (kN·m)	İex	P _{1N} (kW)	Tan (kN·m)	İex	Pin (kW)	T ₂ N (kN·m)	İex	P1N (kW)
21.5	15.3	245 204 162 135	31.0	15.6	354 295 234 195	35.6	15.4	406 338 268 224	60	15,4	683 569 451 377	67	15.5	756 630 500 417
23.1	17.2	232 193 153 128	34.0	17.6	341 284 225 188	37.5	17.4	377 314 249 208	62	17.4	624 520 412 344	70	17.4	701 584 463 387
25.0	19.9	227 189 150 125	35.7	20.4	325 271 215 179	39,3	20.1	358 298 236 197	64	20.1	577 481 381 318	73	20.2	661 551 437 365
27.2	21.6	215 179 142 119	35.7	22.1	290 242 192 160	43.8	21.8	340 283 224 187	64	21.8.	516 430 341 285	78	21.8	614 512 406 339
27.2	24.4	197 164 130 109	35.7	25.0	260 217 172	43.8	24.7	319 266 211 176	64	24.7	462 385 305 255	78	24.7	563 469 372 311
27.2	27.9	178 148 117 98	35.7	27.1	144 233 194 154 128	43.8	26.7	287 239 190 158	64	28.9	416 347 275 230	78	29.0	505 421 334 279
27.2	31.5	157 131 104 87	35.7	30.5	208 173 137 115	43.8	30,1	256 213 169 141	64	32,6	370 308 244 204	78	32.6	450 375 297 248
27.2	36.5	138 115 91 76	35.7	35.4	182 152 121 101	43.8	34.9	223 186 148 123	64	37.7	324 270 214 179	78	37.8	394 328 260 217
27.2	39.4	125 104 82 69	35.7	38.2	164 137 109 91	43.8	37.8	202 168 133	64	40.8	293 244 194 162	78	40.9	356 297 236 197
27.2	44.7	108 90 71 60	35.7	43.3	143 119 94 79	43.8	42.8	175 146 116 97	64	46.3	254 212 168 140	78	46.3	308 257 204 170
27.2	49.2	98 82 65 54	35.7	47.7	130 108 86 72	43.8	47.1	158 132 105 87	64	50.9	230 192 152 127	78	51.0	281 234 186 155
27.2	56.7	88 73 58 48.3	35.7	55.0	116 97 77 64	43.8	54.3	143 119 94 79	64	58.7	208 173 137 115	78	58.8	253 211 167 140
27.2	61.5	79 66 52 43.7	35.7	59.6	103 86 68 57	43.8	58.8	127 106 84 70	64	63.6	185 154 122 102	78	63.7	226 188 149
27.2	69.3	68 57 45.2 37.7	34.0	67.2	86 72 57 47.7	43.8	66.3	112 93 74 62	60	71.7	152 127 101 84	78	71.8	196 163 129 108
27.2	79.5	60 50 39.7 33.1	34.0	77.0	77 64 51 42.3	43.8	76.1	100 83 66 55	60	82.2	135 113 89 75	78	82.3	175 146 116 97
25.2	86.6	52 43.0 34.1 28.5	34.0	84.0	68 57 45.0 37.6	43.8	82.9	88 73 58 48,3	60	89.6	120 100 79 66	78	89.7	152 127 101 84



BE313-318(iN=16-90)

2	0	n.	n		BE313		- (3E314			BE315	
Code	IN	n ₁ (r/min)	(r/min)	T ₂ N	İex	P _{1N}	Tan	İex	Pin	T ₂ N	İex	Pin
				(kN · m)	1000	(kW)	(kN - m)	1.017	(kW)	(kN • m)	1,000	(kW)
7.00	liga (1740	108.8	7.79	1.00	1113		30.14	1369	100		1767
C16	16	1450	90.6	91	14.898	927	112	14.909	1141	148	15.260 -	1473
4.35	16.	1150	71.9		10000	736		1.00	905 755	1.00	12000	1168
		960	60.0			614	4					975
	-	1740	96.7		A PROPERTY.	987		Landana 1	1214	The same of		1568
C18	18	1450	80.6	91	16.794	823	112	16.806	1012	148	17.202	1306
1000		1150 960	63.9 53.3	the second	10000	653 545	1000	10.00	802 670	0		1036 865
		1740				853			1114			1400
	}	1450	87.0 72.5			711			928		1	1166
C20	20	1150	57.5	91	19.445	564	119	19.460	736	153	19.918	925
		960	48.0		1	470		-	615			772
- 1		1740	77.7			788			1030			1294
(C22)	35.0	1450	64.7	2.4	24.626	657	1.2	6 2 0 00	858	644	Non-245	1078
C22	22.4	1150	51.3	91	21.032	521	119	21.048	681	153	21.543	855
		960	42.9		1 2	435		1 1	568		15	714
		1740	69.6			696			955			1142
luly of	40	1450	58.0			580	105		796	Yas	24.052	951
C25	25	1150	46.0	.91	23.836	460	125	23.854	631	153	24.415	755
		960	38.4			384			527		1	630
- 1	- 1	1740	62.1			604			829			1022
000	on l	1450	51.8	0.4	27 400	503	405	07.405	691	470	07.070	852
C28	28	1150	41.1	.91	27.465	399	125	27.485	548	153	27.279	675
		960	34.3			333			457		1000	564
		1740	55.2			536			735	Tanana Ti		907
can	24 6	1450	46.0	04	30.960	446	405	20 000	613	153	20, 754	755
C32	31.5	1150	36.5	.91	30.960	354	125	30,983	486	103	30.751	599
		960	30.5			295			406			500
		1740	49.0			463			635			783
C36	35.5	1450	40.8	91	35.849	385	125	35,876	529	153	35.607	652
030	33,3	1150	32.4	.91	33,049	306	123	33,670	420	100	33.007	517
		960	27.0			255			350			432
		1740	43.5			428			587			724
C40	40	1450	36.3	91	38,774	356	125	38.803	489	153	38.512	603
040	40	1150	28.8	.51	30,774	283	123	30,000	388	100	30.512	478
		960	24.0			236			324			399
		1740	38.7			377			518			639
C45	45	1450	32.2	91	43.944	314	125	43.976	432	153	43.647	532
949	49	1150	25.6	.0.1	10.041	249	120	40.070	342	199	40.047	422
		960	21.3			208			286			352
1000		1740	34.8			343		- 1	471			581
C50	50	1450	29.0	91	48.338	286	125	48.374	392	153	48.012	484
000	00	1150	23.0	61	10.000	227	120	10.0(311	100	40.012	384
		960	19.2			189			260			320
		1740	31.1	d		297			408			503
C56	56	1450	25.9	91	55.775	248	125	55.816	340	153	55.398	419
~~~		1150	20.5	-	00.1.10	196	129	40.0.0	270	0.95		333
		960	17.1			164			225			278
		1740	27.6		7. 44 1.	274		10 A 1	377			464
C63	63	1450	23.0	91	60.423	229	125	60,468	314	153	60.015	387
		1150	18.3	12.00	11.71	181	I LOTTE O	23131570	249	4000		307
		960	15.2			151			208			256
	100	1740	24.5			243		100	334		Lat.	412
C71	71	1450	20.4	91	68.113	203	125	68.164	278	153	67.653	343
7.00		1150	16.2			161			221			272
	-	960	13.5			134	4		184			227
7.7		1740	21.8		T-10	212		100	291			359
C80	80	1450	18.1	91	78.122	177	125	78.180	243	153	77.595 -	299
		1150	14.4	P 20	1122	140	24.24		193		1	237
		960 1740	12.0			117			161			198
-			19.3			195			267			330
				1 14	100 700	100	200	100000		1.00	5 3 X 4 4 1	
C90	90	1450 1150	16.1 12.8	91	85.141	162 129	125	85.204	223 177	153	84.566	275 218



	BE316			BE317			BE318	
T ₂ N	lex	Pin	Tan	lex	P _{1N}	T ₂ N	Ìex	PiN
(kN • m)		(kW) 2187*	(kN + m)		(kW) 2562*	(kN · m)		(kW) 2877
Wester		1822	Adm To	Alexand II	2135	1000	100 1000	2398
183	15.248	1445	220	15.643	1694	253	16.020	1902
	1 22245	1206			1414	110		1588
		1940*	ha		2213*			2674
625	WE 4.345	1616	7.00	0.03403.79	1844	100	100 The 1	2228
183	17.189	1282	220	18,113	1463	265	18.058	1767
-		1070		1	1221		1	1475
	-	1675*			2046*	<b>—</b>	***	2309
- WE 41	1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	1396		NOT BOOK	1705		- A-77 S (N)	1924
183	19,903	1107	220	19.591	1352	265	20.910	1526
		924			1129			1274
- 1		1608*			1747*		17	2135
32KF	225.3	1340	40.51	323335	1456	222	4.22504	1779
190	21.527	1063	220	22.943	1155	265	22.616	1411
		887			964		1	1178
		1419*			1624*			1823
3233	20000	1182	7.000	90,000	1353	0.0	3bt + 25cm	1519
190	24.397	938	220	24.688	1073	265	26.486	1205
		783		11	896		A	1006
		1270*			1440*			1694
+3350	20202	1058	201	20 22 1	1200	5881	.00 200	1412
190	27.259	839	220	27.830	952	265	28.500	1120
		701			795			935
		1127*			1244*			1503
	20,200	939	222	60 July 17	1037	1000	100322	1252
190	30.728	745	220	32,224	822	265	32,127	993
		622			686			829
		973*			1150*			1298
100	. 600.000	811		34423	958	1000	22000	1082
190	35.580	643	220	34.853	760	265	37.200	858
		537	14-91-15		635			716
		900*	-	-	982*			1200
400	00.100	750	200		818	000	40.005	1000
190	38.483	595	220	40.817	649	265	40.235	793
	14-7-1	496			542			662
		794*			923*			1025
190	43.615	661	000	43,450	769	0.05	17 100	854
190	43.015	525	220	45.450	610	265	47.120	677
		438			509			565
		722*			800*			963*
190	47.976	601	220	50.135	666	265	50.160	802
190	47.976	477	220	50.155	528	200	50.160	636
		398			441			531
		625			738*		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	834*
190	55.357	521	220	54.313	615	265	57.877	695
130	00.007	413	220	34.013	488	203	37.077	551
		345	11		407			460
		577			655*			770*
190	59.970	481	220	61.225	546	265	62.700	642
130	33,370	382	220	01,225	433	200	02:100	509
		318			361			425
		512			571*			683*
190	67.603	427	220	70.222	476.	265	70.680	569
100	07.000	338	220	19.656	377	500	70.000	451
		283			315			377
		446			524*			596*
190	77.537	372	220	76.531	436	265	81.067	496
100	14.00	295	220	10.001	346	203	51.001	394
		246			289			329
11		410						546*
190	84.503	341				265	88.350	455
130	04.000	271				203	00.000	361
		226		1				302



## BE405-412(iN=100-400)

		n.	n	E	3E405	)	E	3E406	Y.	E	BE407	7	E	3E408	3
Code	IN	n ₁	N _{2N}	T2N (kN·m)	İex	PtN (kW)	T ₂ N (kN · m)	İex	P1N (kW)	T ₂ N (kN · m)	İex	P _{1N}	T2N (kN · m)	İex	P _{1N}
		1740	17.4	( 111)		20.9	Times and		27.8	(1864 211)		39.6	1.112		49.
2.2	155	1450	14.5		3.5	17.4	756	223	23.2	0.00	and i	33.0	1.33	7.00	41.
D10	100	1150	11.5	11.6	96,3	13.8	15,5	98.9	18.4	22.0	98,4	26.2	27.5	97.1	32.
		960	9.60	112	1.0	11.5	Taraba.		15.4			21.8		100	27.
		1740	15,5			18.6		1771	24.4			34.8			44.
200		1450	12.9		ha sin a	15.5			20.3			29.0	and the last	1000	37.
D11	112	1150	10.3	11.6	109.2	12.3	15.5	112.0	16.1	22.0	111.5	23.0	27.5	110.0	29.
		960	8.57			10.3			13.4		1	19.2			24.
		1740	13.9			16.2			22.1			31.2			39.
a-Vi	1	1450	11.6	1400	1.5	13.5	100	13.35	18.4	10.7		26.0	1.50	15. 3	33,
D13	125	1150	9.20	11.6	119.4	10.7	15.5	122.6	14.6	22.0	123.9	20,6	27.5	122.2	26.
		960	7.68		- 6	8.9		100	12.2			17.2		19.5	21.
		1740	12.4			14.5			19.7			27.6			34.
		1450	10.4			12.1	1	22	16.4			23.0	1,72		29.
D14	140	1150	8.21	11.6	134.6	9.6	15.5	138.1	13.0	22.0	139,6	18.2	27.5	137.8	23.
						8.0								11 11	
		960	6.86					-	10.9			15.2			19.
		1740	10.9			12.7			17.4			24.0			30.
D16	160	1450	9.06	11.6	143.3	10.6	15.5	147.1	14.5	22.0	148.6	20.0	27.5	146.7	25.
8.77		1150	7.19			8.4			11.5			15.9			19.
-		960	6.00	-		7.0			9.6			13.2	á l		16.
	10	1740	9.67		7-3	11.6			15.1			21.6	MT LOT		27.
D18	180	1450	8.06	11.6	168.6	9.7	15.5	173.0	12.6	22.0	174.9	18.0	27.5	172.6	23.
	1	1150	6.39		1000	7.7		1	10.0		1	14.3	1000	1	18.
		960	5.33			6.4			8.3			11.9			15.
7.7		1740	8.70			10.6		6.11	13.9			19.2			24.
D20	200	1450	7.25	11.6	191.1	8.8	15.5	196.1	11.6	22.0	198.2	16.0	27.5	195.6	20.
1000		1150	5.75	1775	1371	7.0		1337	9.2	2.2.0	1330	12.7		133.	15.
		960	4.80		100	5.8		1	7.7			10.6			13.
		1740	7.77		1	9.4		17	12.4			18,0			21.
D22	224	1450	6.47	11.6	210.2	7.8	15.5	215.7	10.3	22.0	218.0	15.0	27.5	215.1	18.
222		1150	5.13	1.1.0	2.0.2	6.2	10.0	210.1	8.2		210.0	11.9	210	2,0	14.
		960	4.29			5.2			6.8			9,9			11.
112.11		1740	6.96		134	8.4			11.3			15.6	lim in	li mari	19.
D25	250	1450	5.80	11.6	242,5	7.0	15.5	248.9	9.4	22.0	251.6	13.0	27.5	248.2	16.
DZS	200	1150	4.60	11.0	242,0	5.6	13.5	240,9	7.5	22.0	201.0	10.3	4/.0	240,2	12.
	==	960	3.84		1 - 1	4.63		11-14	6.2		1	8,6			10.
		1740	6.21			7.6			10.1			14.4			18.
Dog	200	1450	5.18	110	200.7	6.3	45.5	260.6	8.4	20.0	270 5	12.0	27.5	260.0	15.
D28	280	1150	4.11	11.6	262.7	5.0	15.5	269.6	6.7	22.0	272.5	9.5	27.5	268.9	113
		960	3.43			4.17			5.6	1		7.9			9.9
		1740	5.52		7	6.5			8.9			12.0			15.
200	625	1450	4.60	53.2		5.4	16.6	0000	7.4		007.5	10.0		200	13.
D32	315	1150	3.65	11.2	296.2	4.28	15.5	303.9	5.9	20.5	307.2	7.9	27.5	303.2	10.
		960	3,05			3.58	A. 1	14.1	4.90			6.6		LE TO	8.6



	BE409			BE410			BE411			BE412	
T _{2N}	İex	P _{1N} (kW)	T ₂ N (kN·m)	lex	P1N (kW)	T ₂ N (kN·m)	İex	P _{1N} (kW)	T ₂ N (kN·m)	İex	P _{1N} (kW)
KIN - III)		65	(KN - III)		80	(KIN • (III)		112	(KIN - III)		142
7.53	536.5	54		500.00	67	0.7		93	3.9		118
36.0	104.8	42.8	44.5	103.5	53	62	99.8	74	78	99.9	94
		35.8			44.4			62			78
- 1		58			72			100			126
52.5	502/2	48.0	13.4	11120	60	125	702.5	83	1321	NY S	105
36,0	116.5	38.1	44.5	115.0	47.6	62	113,1	66	78	113.2	83
		31.8			39.7			55			70
	7.77	52	1 77 1		64	7		89			114
20.0	131.3	43.0	44.5	100 6	53	60	100.0	74	70	100.4	95
36.0		34.1	44.5	129.6	42.0	62	129.2	59	78	129.4	75
		28.5			35.1			49			63
	45.6	45.6			56			80			101
36,0	139.8	38.0	44.5	138,0	47.0	62	145.7	67	78	145.9	84
30,0	133.0	30.1	44.3	130,0	37.3	02	140.7	53	/0	145,5	67
		25.2			31.1		1	44.4			56
		40.8			50			70			88
36.0	164.4	34.0	44.5	162.4	42.0	62	168.7	58	78	168.9	73
30.0	104.4	27.0	44.5	102.4	33.3	02	100.7	46.0	4.0	100.5	58
-		22.5			27.8		7	38.4			48.3
		36.0			44.4			61			78
36.0	186.3	30.0	44.5	184.0	37.0	62	182.5	51	78	182.7	65
00,0	100.5	23.8	44.5	104.0	29.3	U.E.	102.5	40.4	/ 0	102.7	52
		19.9			24.5			33.8			43
		32.4		- Land 44	39.6	4 7		55			71
36.0	205.0	27.0	44.5	202,4	33.0	62	206.8	46.0	78	207.1	59
00.0	200.0	21.4	7,7,0	202.7	26,2	02	200,0	36.5	7.0	501.1	46.8
	į.	17.9			21.8			30.5			39.1
4		28.8			36.0	130		50			62
36.0	236.5	24.0	44.5	233.5	30.0	62	227.5	42.0	78	227.8	52
20.0	PERKIS.	19.0		TABLE	23.8	3.5		33.3		25,10	41.2
		15.9			19.9			27.8			34.4
	-	25.2			31.2			44.4			56
36,0	256.2	21.0	44.5	253.0	26.0	62	262.5	37.0	78	262.8	47.0
Care Ce.	defin-	16.7	100.00	453.6	20.6	22	0.00000	29.3	1 2 2	- TAPES	37.3
		13.9			17.2			24.5			31.1
		22.8			27.6			39.6			52
36.0	288.8	19.0	44.5	285.2	23.0	62	284.3	33.0	78	284.7	43.0
1,36,05		15.1		Statute Value	18.2	44		26.2	1		34.1
-		12.6			15.2			21.8			28,5
4.3		19.2	1	P	25.2	41 92 1		34.8			45.6
34.0	331.3	16.0	44.5	327.1	21.0	62	320.5	29.0	78	321.0	38.0
4		12.7		100	16.7			23.0			30.1
- 1		10.6			13.9			19.2			25.2
		16.8	1 37		22.8			30.8		1-22	39.6
34.0	361.0	14.0	44.5	356.5	19.0	60	327.6	26.0	78	368.2	33.0
		11.1			15,1		- 4	20.4			26.2
		9.30			12.6			17.0			21.8
						ILes.T		27.4		Cm. #.	33.6
						60	400.7	23.0	74	401.2	28.0
								18.1			22.2
	-				-			15.1			18.



## BE413-418(iN=90-400)

		n.	n		BE413			BE414			BE415	
Code	IN	n ₁ (r/mir)	N _{2N}	T2N (kN · m)	İex	P _{1N} (kW)	T2N (kN · m)	İex	P _{1N} (kW)	T ₂ N (kN·m)	İex	P1N (kW)
		1740	17.4	(MAX MAY		171	(interior)		235	(NIX - JU)		290
2.4	444	1450	14.5	4.0		143	925	22.22	196	200	20 222	241
D10	100	1150	11.5	91	96.935	113	125	97.007	155	153	96.280	191
		960	9.6			94			130			160
	1 1	1740	15.5			151			207			255
Dist	110	1450	12.9	0.4	100.050	126	105	100 041	173	150	100 110	213
D11	112	1150	10.3	91	109.859	100	125	109,941	137	153	109.118	169
		960	8.6			83			114			141
	11.30	1740	13.9			139			191			218
Dan	100	1450	11.6	64	440 044	116	125	119.103	159	+50	107 700	182
D13	125	1150	9.2	91	119.014	92	125	119.103	126	153	127.783	144
		960	7.7			77			106			120
	1 1	1740	12.4			124			170			194
D14	140	1450	10.4	91	103 100	103	105	104 001	141	450	+44.040	161
D14	140	1150	8.2	91	134,162	82	125	134,261	112	153	144.046	128
	-	960	6.9			68			94			107
		1740	10.9			107	1		146			167
Die	160	1450	9.1	91	155.345	89	105	155.461	122	153	100 700	139
D16	100	1150	7.2	91	150.545	71	125	135,461	.97	155	166.790	110
		960	6.0			59			81			92
		1740	9.7			99			135	1		155
D18	180	1450	8.1	91	168.020	82	125	168.145	113	153	180.399	129
D16	100	1150	6.4	91	100.020	65	123	100.140	90	133	100.399	102
	1.7	960	5.3			54	-		75			85
		1740	8.7			87			120			136
D20	200	1450	7.3	91	190,423	73	125	190.565	100	153	204.452	114
DZU	200	1150	5.8	31	150,425	58	125	190.303	79	155	204.452	90
	1.3	960	4.8			48			66			75
	1-6	1740	7.8			79	H = -11		109			124
D22	224	1450	6.5	91	209,465	66	125	209.621	91	153	224.897	103
DZZ	224	1150	5.1	51	209,400	52	123	209.021	72	100	224.091	82
	1.7	960	4.3			44	11		60			68
		1740	7.0			69			94			107
D25	250	1450	5.8	91	241.691	57	125	241.871	78 62	153	259.497	90
DZJ	200	1150	4.6	31	241:031	45	125	241.071	62	100	233.431	71
- 10	-	960	3.8			38	4		52			59
20.01	1.5	1740	6.2			63	J-10		87			99
D28	280	1450	5.2	91	261,832	53	125	262,026	72	153	281.122	83
020	200	1150	4.1	31	201,002	42	125	202,020	57	130	201.122	66
	1.3	960	3.4			35			48			55
	T	1740	5.5	1		56			77			88
D32	315	1450	4.6	91	295,156	47	125	295.375	64	153	316.901	73
505	0.10	1150	3.7	9.1	200,100	37	120	200.070	51	100	010,001	58
		960	3.0			31			43			49
	10	1740	4.9	11	-	49			67			77
D36	355	1450	4.1	91	338.530	41	125	338,782	56	153	363.470	64
555	000	1150	3.2	9.1	500,000	32	120	000,11 02	44	,00	000.470	51
	LI	960	2.7			27	100		37			42
		1740	4.4			45			62			70
D40	400	1450	3.6	91	368.944	37	125	369.219	51	153	396.126	59
040	400	1150	2.9	9.1	500.044	30	120	000,210	41	.00	000.120	47
	1 7	960	2.4			25			34			39



	BE416			BE417			BE418	
Tan	Îex	Pin	Tan	İex	Pin	Tan	İex	Pin
(kN • m)		(kW)	(kN • m)	+	(kW) 460	(kN • m)		(kW)
				1.00	383	-	1	
			220	87.132	304			
			-		254	-		
		360			406			480
	Lane I	300	-	-	338		January	400
190	96.209	238	220	98.750	268	265	100.588	317
	-	199	-	-	224		-	265
		317			347			424
		265	-	45.50	289	-	0.00.7	353
190	109.036	210	220	115.641	229	265	114.000	280
		175		7	191			234
		271		-	307	-		362
	15 cm	226		VII. 00 3	256	1000	300000	301
190	127,687	179	220	130.359	203	265	133,500	239
		150	-	-	170	-		200
		241	-	4	266			321
	(40.000	200				To Can I		267
190	143.939		220	150.943	221 176	265	150.491	212
		159		1				
		133	-	-	147			177
	-	208	-	A	246	-		277
190	166.666	173	220	163.259	205	265	174.253	231
	0000000	137	100	-	162	1 - 000	-	183
		115			135			153
	1 V 31.16	192		1	217	1		256
190	180,265	160	220	185.026	181	265	188,471	213
		127			143	-		169
		106			120	-		141
	-	169		-	197	1		226
190	204.300 -	141	220	203.529	164	265	213.600	188
		112		-	130		9 -2 - 2 - 2	149
		93			109			125
		154		4	171	-		205
190	224,730 -	128	220	234.841	142	265	234.960	171
378,4	2000	102	1 22	C. A. J. C. L.	113	1,657	25,000	136
		85			94			113
	4	134	-	200	158	1 - 7 1		178
190	259.304	111	220	254.411	131	265	271.108	148
	-	88		_	104			118
		74			87			98
	- p. p. f. f.	123			140			164
190	280.912	103	220	286.791	116	265	293,700	137
. 7.50	233000	81	200	2333123	92	2.2.2		109
		68			77			91
		109			122			146
190	316,665	91	220	328.936	102	265	331.080	122
0.614	0.10.0000	72	278	220121	81	- 637	200,000	96
		60			67			80
	The same of the	95	1		112	A STATE OF	1	127
190	363,200	79	220	358,488	93	265	379,733	106
100	300,200	63	220	999,490	74		07,07,00	84
		53			62			70
		87						117
190	395.831	73				265	413.850	97
100	000.001	58				200	410.000	77
		48						64



## 11 Rated Thermal Capacity Table (kW)

BE304-312(kW)

0	3			BE	304			BE	305			BE	306			BE	307	
Code	IN		960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740
040	أوراا	PGA	35.2	37	36.8	36.8	47.9	49.5	48.3	46.7	55.4	57	55.4	53.1	74	75.7	72.9	68.
C16	16	PGB	61.3	70	78,6	86.9	87.5	99.5	110	121	100	113	126	138	137	156	172	187
w:0	15	PGA	34.3	36	35.9	35.9	46.5	48.1	47.2	45,9	53.7	55.5	54.1	52.2	71.7	73.6	71.1	67.
C18	18	PGB	59.5	67.9	76.4	84.5	84.8	96.5	107	118	97.1	110	122	134	133	151	167	182
000	00	PGA	32.4	34	34	34.1	44.6	46.4	45.6	44.5	51.9	53.7	52.6	51	68,9	70.9	68.8	65.
C20	20	PGB	56.1	64.1	72.1	79.9	81.3	92.6	103	113	93.5	106	118	129	127	145	161	175
000	00.7	PGA	31.6	33.3	33.3	33.6	44	45.8	45,1	44.3	50.4	52.3	51.4	50.1	66.8	68.9	67.2	64.6
C22	22.4	PGB	54.6	62.4	70.3	77.9	80	91.1	101	112	90.7	103	115	126	123	140	155	170
005	66	PGA	30.1	31.8	31.9	32.3	41.8	43.7	43.3	43	48.6	50.6	50.1	49.4	65	67.4	66.2	64.6
C25	25	PGB	51.7	59.1	66,7	74.1	75.5	86.2	96.6	106	86.9	99	110	122	119	135	151	165
200		PGA	29	30.7	30,9	31.4	40.6	42.6	42.5	42.6	48	50.3	50	49.9	62.1	64.8	64.1	63.4
C28	28	PGB	49.4	56.6	63.9	71.1	72.7	83	93.3	103	85.5	97.5	109	121	112	127	143	157
222	2.0	PGA	27.5	29,1	29,4	30.1	38,6	40.6	40.7	41	45.5	47.8	47.8	48	59.2	62	61.7	61.6
C32	31.5	PGB	46.8	53.7	60.7	67.6	68.7	78.5	88.5	98.1	80.6	92.1	103	114	106	121	136	150
566		PGA	25.9	27.5	27.8	28.5	36.4	38.4	38.6	39,1	44	46.3	46.4	46.9	56.4	59.2	59.1	59.4
C36	35.5	PGB	43.8	50.2	56.8	63.3	64.3	73.6	83	92.1	77.5	88.6	99.8	110	100	114	129	142
0.10	10	PGA	22.6	24	24.3	25	31.7	33.5	33.7	34.2	41.8	44.1	44.3	44.9	49.4	52	52	52.4
C40	40	PGB	38.1	43.7	49.4	55.1	55.5	63.5	71.6	79.6	73.3	83.8	94.6	105	87.1	99.6	112	124
0.45	14	PGA	22.1	23.5	23.8	24.5	30.9	32.7	32,9	33.5	39.3	41.5	41.8	42.5	48	50.6	50.8	51.3
C45	45	PGB	37.2	42.6	48,3	53.9	54	61.8	69.8	77.7	68.5	78.4	88.5	98.4	84.1	96.1	108	120
OFO		PGA	22.4	23.8	24.2	24.9	30.8	32.7	33	33.9	34.4	36.4	36.8	37.7	47.6	50.3	50.7	51.7
C50	50	PGB	37.4	42.9	48.7	54.4	53.3	61.1	69.2	77.1	59.4	68	76.9	85.7	82,5	94.5	106	118
050		PGA	20.7	22	22.4	23.1	28.5	30.2	30.7	31.6	33.6	35.7	36.2	37.2	44.3	47	47.5	48.7
C56	56	PGB	34.4	39.4	44.8	50	49.3	56.5	64	71.4	57.8	66.3	75.1	83.7	76.7	87.9	99.5	110
202	22	PGA	19.9	21.2	21.6	22.3	27.4	29.1	29,5	30,4	33.4	35.5	36	37.1	42.8	45.5	46.1	47.3
C63	63	PGB	33.1	38	43.2	48.3	47.3	54.3	61.6	68.7	57.1	65.5	74.2	82.9	74.1	84.9	96.2	107
074	4.	PGA	18.4	19.6	20	20.7	26.1	27.7	28.2	29,1	30.8	32.8	33.3	34.3	40.8	43.3	43.9	45.2
C71	71	PGB	30.7	35.3	40	44.8	44.9	51.6	58.5	65.3	52.6	60.3	68.4	76.3	70.5	80.9	91.7	102
000	163	PGA	20.7	22	19.2	19.9	30.1	32.1	27	27.9	29.5	31.4	31.9	32.9	39.1	41.5	42.1	43.4
C80	80	PGB	34.6	39.7	38,5	43.2	51.9	59.6	56.4	63	50.6	58.1	65.9	73.6	67.8	77.9	88	98,
266	44	PGA	19.9	21.2	18.3	19	28.3	30	25.8	26.7	28.2	30	30.5	31.5	37.4	39.6	40.3	41.6
C90	90	PGB	33	37.9	36.7	41.1	48.7	55.8	53.6	59.9	48.1	55.2	62.7	70	64.5	74.1	83.7	93.6



	BE	308			BE	309			BE	310			BE	311			BE	312	
960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740
86.2	87.5	83.3	76.8	99.4	100	94.3	85.1	110	110	103	90.8	133	129	114	89.8	155	147	125	*
158	178	196	212	193	218	239	258	214	240	262	281	300	334	358	375	347	384	407	419
83.2	84.8	81.1	75.5	96.5	97.7	92.5	84.4	102	102	96.3	86.1	132	129	115	93.1	156	149	129	*
153	173	191	207	187	211	232	250	197	222	243	261	293	328	353	371	347	386	411	426
79.4	81.2	78	73.3	92.8	94.3	89.8	82.9	105	106	100	90.8	126	124	112	93,3	147	141	124	96
145	165	182	198	179	202	223	241	203	228	251	270	280	314	339	358	323	360	385	401
77.4	79.4	76.7	72,7	90.7	92.5	88.6	82,7	97.5	98.9	93.9	86.2	122	120	110	93.7	148	144	128	102
141	160	177	193	175	198	218	237	186	210	231	250	266	298	324	343	324	361	388	407
74.7	77.1	75.2	72.5	87.3	89.7	86.9	82.8	94.3	96.4	92.8	87.2	117	117	109	93.7	144	142	130	110
134	153	170	186	166	188	209	228	178	202	223	243	266	298	324	353	309	346	375	398
72.7	75.5	74.4	72.9	83.9	86.8	85	82.5	92.7	95.6	93.1	89.4	113	114	109	100	140	140	131	117
130	148	165	182	157	179	199	218	174	197	220	240	238	269	296	320	295	332	363	390
70.3	73.4	72.7	72	80.6	83.9	82.7	81.3	89.1	92.4	90.7	88.4	108	111	106	100	133	135	129	118
125	143	160	177	149	170	190	209	165	188	210	230	225	254	282	306	276	312	344	371
67	70,2	69.8	69.7	76.9	80.3	79.6	78.9	85,3	88.88	87.7	86.3	105	108	105	100	128	131	125	118
119	136	152	168	141	161	181	199	156	178	199	219	215	244	271	296	262	296	328	356
64.1	67.3	67.1	67,2	72.1	75.4	75	74.7	81,6	85.2	84.4	83.6	99.6	102	100	97	122	125	121	115
112	128	144	160	131	150	168	186	149	170	191	211	201	229	255	279	246	279	310	337
60.9	64	64	64.4	66.4	69.6	69.4	69.5	77.7	81.3	80.8	80.4	91.6	95	93.2	90.8	117	121	118	113
106	121	137	151	120	137	154	170	140	160	180	199	184	210	234	257	236	268	298	326
53.6	56.6	56.9	57.8	65.5	69.1	69.3	70.2	73.1	77	77	77.7	92.4	96.6	95.8	95.2	112	116	115	113
92.5	105	119	132	117	133	151	167	131	150	169	188	181	207	232	256	221	251	281	310
52.1	55,2	55.7	57	60.7	64.3	64.8	66.1	67.7	71.5	72	73.2	84.5	88.9	88.9	89.4	103	108	108	108
89.6	102	116	129	108	124	140	156	120	137	155	173	164	188	211	234	203	232	260	288
51.5	54.6	55.2	56,6	58.7	62.2	62.8	64.2	66,5	70.4	71	72.5	81.7	86.1	86.3	87.3	103	108	108	108
88.1	100	114	127	104	119	135	150	117	134	151	168	158	180	203	226	198	227	255	283
47.8	50.8	51.4	52.7	55	58.3	59	60,4	61.7	65.3	65.9	67.4	75.7	79.8	80.2	81.3	94.8	99.8	99.9	100
81.7	93.6	106	118	97.8	112	126	141	108	124	140	156	146	167	189	210	180	206	232	257
46.2	46.8	47.4	48.8	53.2	56.3	57	58.6	59.6	63.1	63.8	65.3	73.1	77.2	77.6	78.8	90.7	95.5	95.8	96.9
75.1	86.1	97.6	108	94.6	108	121	136	105	120	136	151	142	162	184	203	173	198	224	248
44	46.8	47.4	48.8	50.6	53.7	54.4	56	55.9	59.3	60	61.5	68.6	72.6	73	74.2	84.5	89.2	89.6	90.9
75.1	86.1	97.6	108	89.9	103	116	129	98.4	112	127	142	133	151	171	191	161	184	208	231



## BE313-318(kW)

0.74	10.70			BE	313			BE	314			BE	315	,
Code	iN		960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740
010	10	PGA	165	151	122		191	174	138	*	221	185	- 2 <b>%</b>	*
C16	16	PGB	388	426	445	450	448	492	511	513	553	597	597	568
040	4.0	PGA	167	155	128	*	195	180	146	*	216	185	*	*
C18	18	PGB	392	432	454	462	452	498	520	527	531	575	581	560
000	20	PGA	159	149	126	*	180	168	140	*	212	185	*	*
C20	20	PGB	367	406	428	440	413	456	480	489	513	557	568	555
000	00.4	PGA	154	147	126	*	185	174	148	*	210	187	*	*
C22	22.4	PGB	349	387	412	426	417	462	489	503	498	544	559	554
COF	or.	PGA	149	144	128	102	176	170	150	116	204	189	153	*
C25	25	PGB	329	367	395	414	390	435	466	486	466	513	537	544
000	00	PGA	144	143	131	112	172	170	155	130	205	195	168	*
C28	28	PGB	312	350	380	404	373	417	452	479	453	503	535	554
000	64.5	PGA	139	140	131	116	165	165	154	135	196	191	170	137
C32	31.5	PGB	296	333	365	391	350	393	430	460	423	473	508	534
000	05.5	PGA	135	137	130	119	159	160	151	137	192	189	173	146
C36	35.5	PGB	284	321	353	381	332	375	412	443	407	457	495	525
040	48	PGA	128	130	125	116	152	155	147	136	183	182	168	146
C40	40	PGB	267	302	334	362	315	355	392	424	383	430	469	500
0.45	45	PGA	119	122	117	110	147	150	144	134	171	171	160	142
C45	45	PGB	244	279	306	333	301	341	377	409	352	397	434	465
050	50	PGA	122	126	124	120	141	146	142	138	178	182	174	163
C50	50	PGB	244	278	310	340	283	321	358	392	356	402	445	483
OFC	50	PGA	113	118	117	116	131	136	135	133	165	171	167	161
C56	56	PGB	223	254	285	314	258	294	330	363	325	369	411	450
0.00	00	PGA	109	114	114	114	133	139	138	137	159	165	162	158
C63	63	PGB	214	244	275	303	259	296	332	367	309	352	393	431
071	74	PGA	103	108	107	107	122	128	127	127	151	158	155	153
C71	71	PGB	201	229	258	285	236	269	302	334	292	333	372	409
000	86	PGA	98	102	103	103	117	123	123	123	145	149	150	146
C80	80	PGB	217	233	243	261	227	259	291	323	282	312	351	376
oor	22	PGA	92	98	98	97	110	115	115	116	139	143	145	140
C90	90	PGB	206	214	219	241	212	242	273	302	271	296	330	352



	BE	316			BE	317			BE	318	
960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740
227	186	- 181	*!	241	189	* * 1	*	245	*	* * *	
579	621	615	575	713	758	737	671	732	774	741	658
230	193	*	*	237	191	*	*	263	205	*	*
573	617	617	586	686	734	722	669	763	811	787	714
223	191	*	*	234	194	*	*	246	198	*	*
548	593	599	577	662	711	708	668	700	749	736	681
219	192			236	201	*	*	243	202	*	*
528	574	586	573	646	698	702	673	675	725	722	681
222	202	160	(1 × 9) 1 1	234	208	100	* 1	250	219	11. */rt	
513	563	585	587	607	662	681	674	661	718	732	714
216	204	172	*	239	222	183	*	248	227	182	*
480	531	562	577	596	656	689	700	621	682	711	716
215	208	183	142	232	221	190	* 1	250	236	199	*
468	521	558	582	557	619	658	681	608	673	712	731
205	201	181	149	228	221	196	155	241	232	203	155
435	487	526	555	538	599	644	674	569	633	677	705
199	197	180	153	220	215	194	160	236	230	204	164
419	470	510	541	508	568	614	647	548	611	657	690
190	189	176	154	206	204	187	159	228	224	203	169
395	444	484	517	470	526	572	607	520	581	629	665
178	182	174	161	219	221	210	191	216	218	204	184
636	411	453	491	478	539	593	640	481	542	594	639
186	191	186	179	205	210	203	193	228	233	225	211
365	415	461	504	438	497	552	601	488	553	612	665
171	177	173	168	198	204	199	192	211	217	211	202
333	378	422	463	419	475	529	579	447	507	563	615
164	170	167	163	187	194	190	184	204	210	205	198
318	362	404	444	393	446	498	546	426	484	539	590
157	163	161	158	178	184	185	173	193	200	196	190
301	343	384	423	374	416	468	524	400	454	507	556
144	157	160	153					184	190	189	182
289	332	364	402					383	414	476	502



## BE405-412(kW)

0 1	2			BE	405			BE	406			BE	407			BE	408	
Code	IN		960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740
D10	100	PGA	26.5	28.5	29.6	30.9	30.6	32.7	34	35.4	38.8	41.4	43.1	44.8	45.3	48.2	50.2	52
D11	112	PGA	25.6	27.5	28.6	29.8	29.9	32	33.3	34.7	37.4	39.9	41.5	43.2	44	46.9	48.8	50.6
D13	125	PGA	24.5	26.3	27.4	28.5	28.6	30.6	31.8	33.2	35.7	38.2	39.7	41.4	41.6	44.4	46.2	48
D14	140	PGA	23.4	25.1	26.1	27.3	27.5	29.5	30.7	32	33.9	36.3	37.8	39.4	40,1	42.9	44,6	46.5
D16	160	PGA	21.5	23.1	24.1	25.2	26.3	28.2	29.4	30.7	30.9	33.2	34.5	36.1	38.2	41	42.7	42.5
D18	180	PGA	21.1	22.7	23.6	24.7	25.1	27	28.1	29.4	30.1	32.4	33.7	35.2	36.4	39	40.7	42.5
D20	200	PGA	20.4	21.9	22.8	23.9	23.1	24.9	25.9	27.1	29.9	32.1	33.5	35	33.2	35.7	37.2	38,9
D22	224	PGA	19	20.4	21.3	22.3	22.7	24.4	25.4	26.7	27.8	30	31.2	32.7	32.4	34.9	36.4	38.1
D25	250	PGA	18.5	20	20.8	21.8	21.8	23.5	24.5	25.7	26.9	29	30.2	31.7	32.1	34.6	36	37.8
D28	280	PGA	17.6	19	19.8	20.8	20.4	22	22.9	24.1	25.2	27.2	28.4	29.8	30	32.3	33.7	35.4
D32	315	PGA	16.5	17.8	18.6	19.5	19.8	21.4	22.3	23.5	23.6	25.5	26.6	27.9	28,8	31,1	32.4	34,1
D36	355	PGA	16	17.3	18.1	19	19	20.5	21.3	22.4	22.7	24.4	25.4	26.6	27,1	29.2	30,4	32
D40	400	PGA	15.4	16.6	17.3	18.1	17.7	19.1	19.9	21	21.2	22.7	23.7	24.9	25.4	27.4	28.6	30

## BE413-418 (kW)

Code	iN			BE	413			BE	414			BE	415	
Code	IIN		960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740
D10	100	PGA	112	117	121	123	130	135	140	142	146	150	156	155
D11	112	PGA	107	112	116	118	126	132	137	139	139	144	149	150
D13	125	PGA	102	108	112	114	119	125	130	133	132	138	143	144
D14	140	PGA	97.6	103	107	109	114	120	125	128	128	134	139	141
D16	160	PGA	92.4	97.8	101	104	110	116	121	124	121	127	132	135
D18	180	PGA	87.2	92.8	96.5	99.8	103	110	114	118	114	120	125	129
D20	200	PGA	85.2	91	94.7	98.3	98.5	105	109	113	112	119	124	128
D22	224	PGA	79,9	85.6	89.1	92.9	93.2	99.8	104	108	105	112	117	121
D25	250	PGA	77.3	83.1	86.6	90.6	90.6	97.4	101	106	102	109	114	119
D28	280	PGA	73	78.8	82.1	86.3	85.2	92	95.9	100	95	102	106	112
D32	315	PGA	69.6	75.2	78.4	82.3	82.4	89	92.7	97.4	89.7	96.9	100	106
D36	355	PGA	67	68.2	76.2	79.3	77.8	84	87.6	92	82.3	92.6	95	103
D40	400	PGA	63.2	65.1	72.8	76.5	74.1	80	83.4	87.6	79.6	89.1	92	99



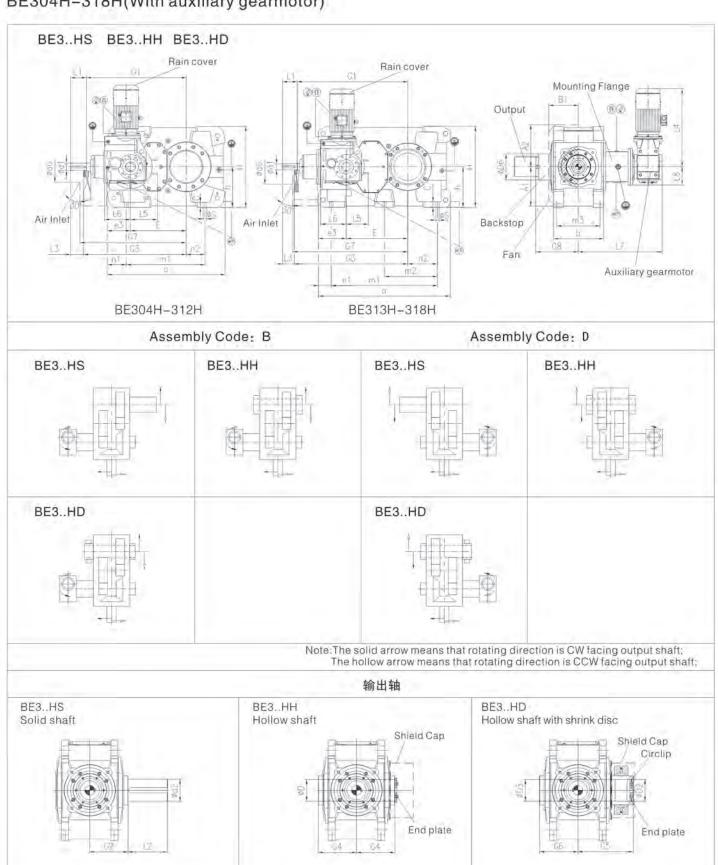
	BE	409			BE4	10			BE4	111			BE	412	
960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740
55.6	59.1	61.5	63.6	60,4	64.1	66.7	68.8	84.4	88.9	82.4	94.7	101	106	110	112
53.5	56.99	59.2	61.4	59	62.7	65.3	67.5	80.4	84.9	88.3	90,7	98	102	106	109
51	54.4	56.6	58.8	56	59.7	62.1	64.3	77	81.5	84.8	87.3	93	98.4	102	105
48.1	51.4	53.5	55.6	53,9	57.5	59.9	62.2	72.8	77.3	80.4	83.1	89	94.1	97.8	100
44	47	49	51	51.3	54.9	57.2	59.5	66.4	70.7	73.6	76.2	85	90.4	94.1	97.2
42.9	46	47.9	50	48,7	52.2	54.3	56.6	64.6	69	71.8	74.6	81	85.9	89.3	92.6
42	45.1	47	49.1	44.6	47.8	49.8	52	63.2	67.7	70.5	73.4	74	78.7	81.9	85.2
39.3	42.3	44	46.1	43.4	46.7	48.6	50.9	59.4	63.8	66.5	69.5	72	77	80.2	83.7
37.9	40.8	42.5	44.6	42,5	45.8	47.8	50,1	57.5	61,9	64.5	67.6	70	75.4	78.6	82,3
36.1	39	40.6	42.7	39.8	43	44.8	47.1	55	59.3	61.8	65	66	71	74	77.7
33.9	36.6	38.2	40.1	38,4	41.5	43.2	45.4	51.3	55.4	57.8	60.7	64	68.7	71.6	75.2
31.9	34.4	35.8	37.6	36.6	39.6	41.2	43.3	48.9	52.9	55.1	57.9	61	65.6	68.4	71.8
								46.6	52.9	52.5	55.2	57	61.2	63.8	67

	BE	416			BE	417			BE	418	_
960	1150	1450	1740	960	1150	1450	1740	960	1150	1450	1740
		III I		175	176	178	183		1- 11	H an	1-1
160	163	169	168	164	167	170	173	180	182	188	185
151	155	161	161	157	161	165	167	169	173	179	177
144	149	155	155	149	154	160	159	161	166	172	171
137	143	148	150	144	149	156	155	154	159	165	166
132	138	143	146	136	142	150	147	148	155	160	162
124	131	136	140	128	135	143	140	139	146	152	155
117	125	130	134	126	134	143	139	132	140	146	150
116	123	128	133	117	125	135	130	130	138	144	149
108	116	120	126	114	122	133	127	122	131	136	142
104	113	117	123	107	115	126	120	117	127	132	139
98.5	106	110	116	101	109	119	113	110	119	124	131
92.4	99.7	103	109	97	102	113	108	104	113	117	123
88	95.2	99	105					108	110	113	117



#### 12 Outline Dimensions

BE304H-318H(With auxiliary gearmotor)





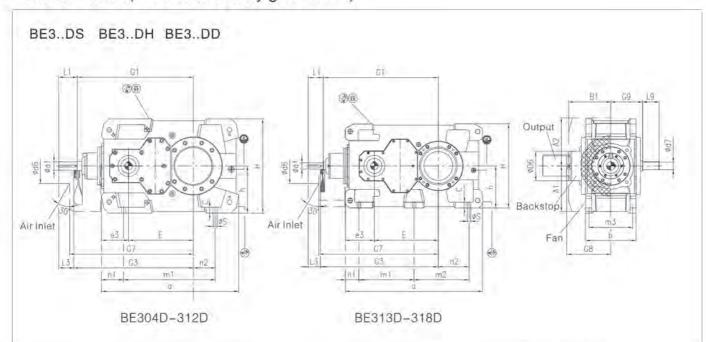
			Inpu	ıt Shaft					(	GearE	Box		
Size	iN≤56(Size iN≤63(Size 09,10,11,1	e:04,05,06			ze:17) ze:04,05,06, 12,13,14,15		G1	G3	a	À1	A2	b	B1
	d1	Lt	L3	d1	Lt	L3							
04	35k6	80	60	30k6	60	40	500	520	586	195	200	215	185
05	45k6	110	80	35k6	80	50	575	605	667	220	235	255	215
06	45k6	110.	.80	35k6	.80	50	610	640	743	220	235	255	215
07	50k6	110	90	40k6	80	60	690	710	816	270	285	300	250
08	50k6	110	90	40k6	80	60	735	755	920	270	285	300	250
09	60m6	140	110	50k6	110	80	800	830	957	310	325	370	250
10	60m6	140	110	50k6	110	80	850	880	1062	310	325	370	250
11	75m6	140	110	60m6	140	110	960	990	1132	370	385	430	330
12	75m6	140	110	60m6	140	110	1035	1065	1292	370	385	430	330
13	85m6	170	135	70m6	140	105	1110	1145	1365	425	435	550	325
14	85m6	170	135	70m6	140	105	1180	1215	1505	425	435	550	325
15	95m6	170	135	75m6	140	105	1367	1402	1630	485	520	625	365
16	95m6	170	135	75m6	140	105	1413	1448	1720	485	520	625	365
17	115m6	210	175	90m6	170	135	1560	1595	1790	535	570	690	395
18	115m6	210	175	90m6	170	135	1620	1655	1910	535	570	690	395

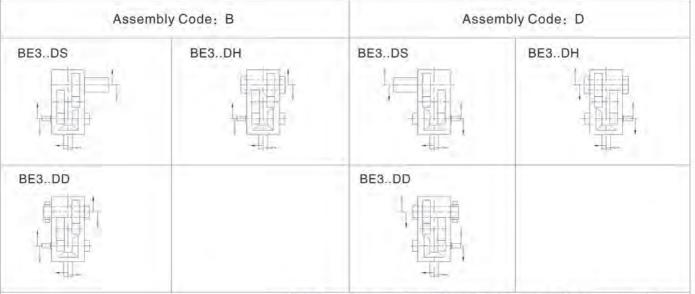
Cina										Ge	arBo	X								
Size	C	d6	e3	E	G7	G8	h	Н	m1	m2	m3	n1	n2	S	L4	L5	L6	L7	L8	D6
04	28	150	110	270	540	193	200	400	355	1	180	112	85	19	527	136	112	400	100	125
05	28	160	130	315	630	217	230	460	430	1	220	113	100	19	617	140	140	475	125	150
06	28	160	130	350	665	217	230	490	510	-1	220	113	145	19	617	140	140	475	125	150
07	35	210	160	385	735	255	280	560	545		260	131	130	24	633	161	180	550	150	175
08	35	210	160	430	780	255	280	580	650	1	260	131	190	24	633	161	180	550	150	175
09	40	260	185	450	860	298	320	640	635	1	320	156	155	28	676	175	180	620	150	190
10	40	260	185	500	910	298	320	670	735	1	320	156	205	28	676	175	180	620	150	190
11	50	210	225	545.	1025	355	380	760	775	1	370	178	180	35	822	213	212	720	175	230
12	50	210	225	615	1095	355	380	790	930	1	370	178	265	35	822	213	212	720	175	230
13	60	210	250	635	1165	426	440	875	1090	545	475	142	305	35	951	240	250	870	225	290
14	60	210	250	705	1235	426	440	940	1230	685	475	137	375	35	951	240	250	870	225	290
15	70	210	316	762	1420	472	500	1000	1310	655	535	160	365	42	1116	273	316	995	225	310
16	70	210	320	808	1470	472	500	1035	1400	745	535	160	410	42	1116	273	320	995	225	310
17	80	230	400	860	1650	497	550	1105	1470	735	600	160	390	42	1193	298	400	1105	275	310
18	80	230	400	920	1710	497	550	1110	1590	855	600	160	450	42	1193	298	400	1105	275	310

					Out	put Shaft	10.70				Oil	Walaht
Size	В	E3HS		BE3.	.HH		BE3.	HD		KE	BE3.,	Weight
	d2	G2	L2	D	G4	D2	D3	G5	G6	(L)	(L)	(kg)
04	80m6	140	170	80H7	140	85H7	85H7	205	140	2.2	9	246
05	100m6	165	210	95H7	165	100H7	100H7	240	165	3,9	14	390
06	110m6	165	210	105H7	165	110H7	110H7	240	165	3.9	15	445
07	120m6	195	210	115H7	195	120H7	120H7	280	195	7.4	25	652
08	130m6	195	250	125H7	195	130H7	130H7	285	195	7.4	28	7.37
09	140m6	235	250	135H7	235	140H7	140H7	330	235	7.7	40	1020
10	160m6	235	300	150H7	235	150H7	150H7	350	235	7.7	42	1150
11	170m6	270	300	165H7	270	165H7	165H7	400	270	13.7	66	1658
12	180m6	270	300	180H7	270	180H7	180H7	405	270	13.7	72	1933
13	200m6	335	350	190H7	335	190H7	190H7	480	335	25	130	2762
14	220m6	335	350	210H7	335	210H7	210H7	480	335	25	140	3132
15	240m6	380	410	230H7	380	230H7	230H7	550	380	63	210	4488
16	250m6	380	410	240H7	380	240H7	240H7	550	380	63	220	4713
17	260m6	415	410	250H7	415	250H7	250H7	600	415	63	290	5802
18	280m6	415	470	275H7	415	280H7	280H7	600	415	63	300	6307



## BE304D-318D(Without auxiliary gearmotor)





Note: The solid arrow means that rotating direction is CW facing output shaft; The hollow arrow means that rotating direction is CCW facing output shaft;

# Output Shaft BE3..DS Solid shaft BE3..DD Hollow shaft with shrink disc. Shield Cap Circlip Circlip Circlip Circlip Circlip



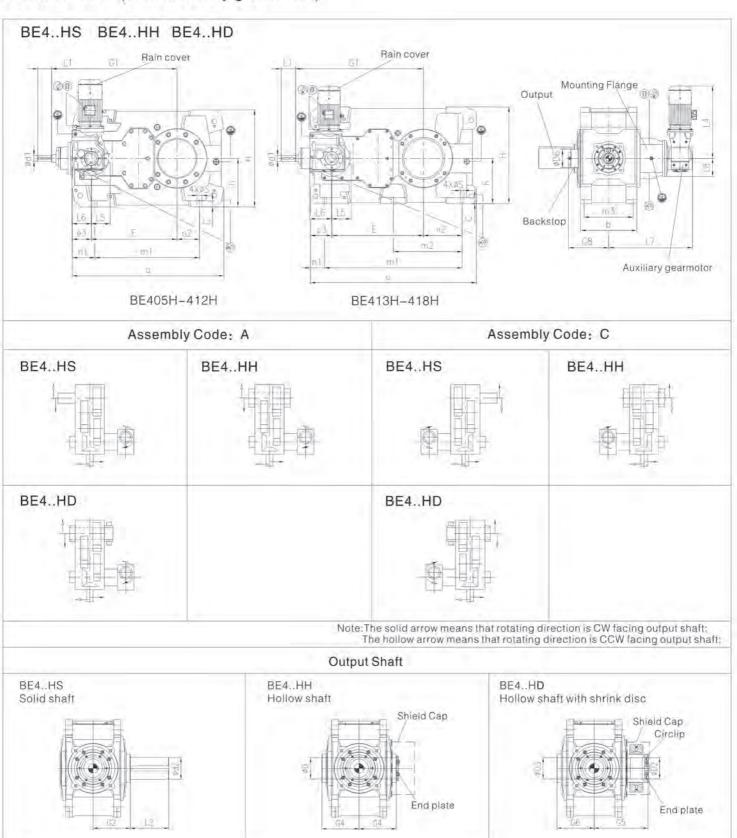
			Inpi	ut Shaft					Ge	arBox			
	iN≤56(Siz iN≤63(Siz 09,10,11,	e:04,05,0		iN≥63(Siz iN≥71(Siz 09,10,11,1	e:04,05,0		G1	G3	а	A1	A2	b	B1
	d1	L1	L3	d1	L1	L3						200	
04	35k6	80	60	30k6	60	40	500	520	586	195	200	215	185
05	45k6	110	80	35k6	80	50	575	605	667	220	235	255	215
06	45k6	110	80	35k6	80	50	610	640	743	220	235	255	215
07	50k6	110	90	40k6	80	60	690	710	816	270	285	300	250
- 08	50k6	110	90	40k6	80	60	735	755	920	270	285	300	250
09	60m6	140	110	50k6	110	80	800	830	957	310	325	370	250
10	60m6	140	110	50k6	110	80	850	880	1062	310	325	370	250
31	75m6	140	110	60m6	140	110	960	990	1132	370	385	430	330
12	75m6	140	110	60m6	140	110	1035	1065	1292	370	385	430	330
13	85m6	170	135	70m6	140	105	1110	1145	1365	425	435	550	325
14	85m6	170	135	70m6	140	105	1180	1215	1505	425	435	550	325
15	95m6	170	135	75m6	140	105	1367	1402	1630	485	520	625	365
16	95m6	170	135	75m6	140	105	1413	1448	1720	485	520	625	365
17	115m6	210	175	90m6	170	135	1560	1595	1790	535	570	690	395
18	115m6	210	175	90m6	170	135	1620	1655	1910	535	570	690	395

Ciro									Gea	rBox								
Size	С	d6	еЗ	E	G7	G8	h	Н	m1	m2	m3	n1	n2	S	D6	G9	L9	d7
04	28	150	110	270	540	193	200	400	355	1	180	112	85	19	125	140	70	30h6
05	28	160	130	315	630	217	230	460	430	1	220	113	100	19	150	160	80	40h6
06	28	160	130	350	665	217	230	490	510	1	220	113	145	19	150	160	80	40h6
07	35	210	160	385	735	255	280	560	545	1	260	131	130	24	175	195	100	45h6
08	35	210	160	430	780	255	280	580	650	1	260	131	190	24	175	195	100	45h6
09	40	260	185	450	860	298	320	640	635	1	320	156	155	28	190	230	100	55h6
10	40	260	185	500	910	298	320	670	735	1	320	156	205	28	190	230	100	55h6
-11	50	210	225	545	1025	355	380	760	775	1	370	178	180	35	230	270	135	65h6
12	50	210	225	615	1095	355	380	790	930	1	370	178	265	35	230	270	135	65h6
13	60	210	250	635	1165	426	440	875	545	545	475	142	305	35	290	330	155	80h6
14	60	210	250	705	1235	426	440	940	545	685	475	137	375	35	290	330	155	80h6
15	70	210	316	762	1420	472	500	1000	655	655	535	160	365	42	310	370	160	100h6
16	70	210	320	808	1470	472	500	1035	655	745	535	160	410	42	310	370	160	100h6
1.7	80	230	400	860	1650	497	550	1105	735	735	600	160	390	42	310	405	160	100h6
18	80	230	400	920	1710	497	550	1110	735	855	600	160	450	42	310	405	160	100h6

					Output S	Shaft				Oil	Malaka
Size		BE3DS	1	BE3	.DH		BE3.	.DD		BE3	Weight
	d2	G2	L2	D	G4	D2	D3	G5	G6	(L)	(kg)
04	80m6	140	170	80H7	140	85H7	85H7	205	140	9	246
05	100m6	165	210	95H7	165	100H7	100H7	240	165	14	390
06	110m6	165	210	105H7	165	110H7	110H7	240	165	15	445
07	120m6	195	210	115H7	195	120H7	120H7	280	195	25	652
08	130m6	195	250	125H7	195	130H7	130H7	285	195	28	737
09	140m6	235	250	135H7	235	140H7	140H7	330	235	40	1020
10	160m6	235	300	150H7	235	150H7	150H7	350	235	42	1150
11	170m6	270	300	165H7	270	165H7	165H7	400	270	66	1658
12	180m6	270	300	180H7	270	180H7	180H7	405	270	72	1933
13	200m6	335	350	190H7	335	190H7	190H7	480	335	130	2762
14	220m6	335	350	210H7	335	210H7	210H7	480	335	140	3132
15	240m6	380	410	230H7	380	230H7	230H7	550	380	210	4488
16	250m6	380	410	240H7	380	240H7	240H7	550	380	220	4713
17	260m6	415	410	250H7	415	250H7	250H7	600	415	290	5802
18	280m6	415	470	275H7	415	280H7	280H7	600	415	300	6307



## BE405H-418H(With auxiliary gearmotor)





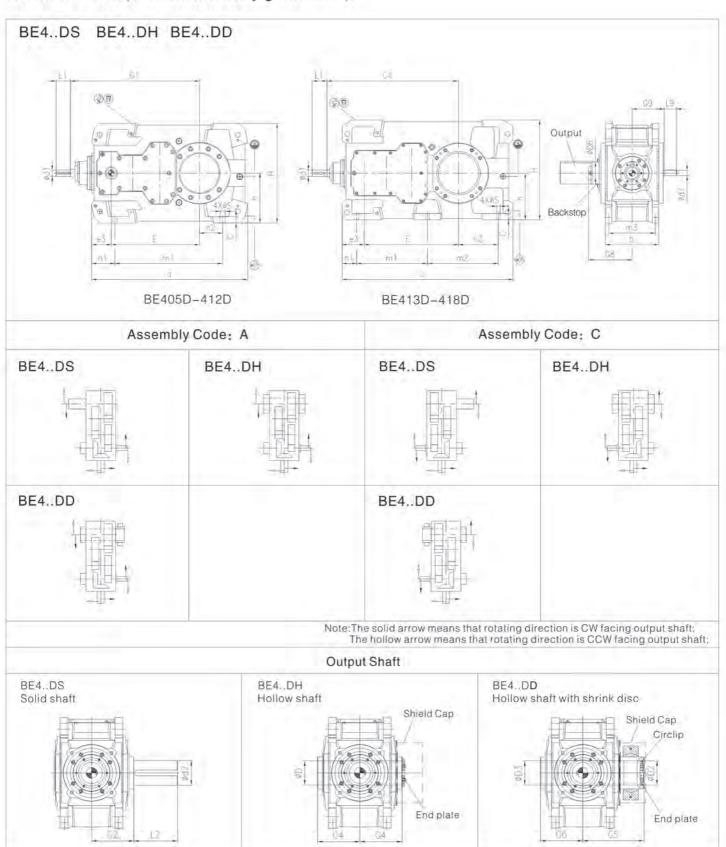
		4	nput Shaft				Gea	rBox		
Size	iN≤250(Size:9,10 iN≥280(Size:05,0 11,12,13,14,15,10	06,07,08,	iN≥280(Size:9,10 iN≥315(Size:05,0 11,12,13,14,15,16	6,07,08,	G1	а	р	С	e3	E
	d1	Li	d1	L1			1,5		100	
05	35k6	80	25k6	50	615	713	255	28	90	405
06	35k6	80	25k6	50	650	793	255	28	90	440
07	35k6	80	30k6	60	725	876	300	35	110	495
08	35k6	80	30k6	60	770	981	300	35	110	540
09	45k6	110	35k6	80	840	1033	370	40	130	580
10	45k6	110	35k6	80	890	1131	370	40	130	630
11	50k6	110	40k6	80	1010	1227	430	50	160	705
12	50k6	110	40k6	80	1080	1382	430	50	160	775
13	60m6	140	50k6	110	1170	1470	550	60	207	820
14	60m6	140	50k6	110	1240	1610	550	60	207	890
15	75m6	140	60m6	140	1407	1760	625	70	250	987
16	75m6	140	60m6	140	1453	1850	625	70	250	1033
17	75m6	140	60m6	140	1455	1820	690	80	235	1035
18	75m6	140	60m6	140	1515	1940	690	80	235	1095

0:00							Ge	arBox							
Size	G8	h	H	m1	m2	m3	n1	n2	S	L4	L5	L6	L7	L8	D6
05	210	230	460	480	1	220	113	100	19	507	80	100	395	80	95
06	210	230	490	560	1	220	113	145	19	507	80	100	395	80	95
07	240	280	560	605	1	260	131	130	24	604	100	112	460	100	125
80	240	280	580	710	1	260	131	190	24	604	100	112	460	100	125
09	270	320	640	710	1	320	156	155	28	659	143	140	530	125	125
10	270	320	670	810	1	320	156	205	28	659	143	140	530	125	125
-11	315	380	760	870	1	370	178	180	35	659	128	140	565	125	150
12	315	380	790	1025	1	370	178	265	35	659	128	140	565	125	150
13	375	440	875	1195	667.5	475	137	305	35	777	160	180	665	150	175
14	375	440	940	1335	667.5	475	137	375	35	777	160	180	665	150	175
15	465	500	1000	1440	840	535	161	365	42	866	200	212	820	175	230
16	465	500	1035	1530	840	535	160	410	42	866	200	212	820	175	230
17	495	550	1105	1500	840	600	160	390	42	942	190	212	840	175	230
18	495	550	1110	1620	840	600	160	450	42	942	190	212	840	175	230

					Output	Shaft				C	il	VAV-C-ISA
Size		BE4.HS		BE4	.HH		BE4	.HD		KE	BE4	Weight
	d2	G2	L2	D.	G4	D2	D3	G5	G6	(L)	(L)	(kg)
05	100m6	165	210	95H7	165	100H7	100H7	240	165	1.5	16	354
06	110m6	165	210	105H7	165	110H7	110H7	240	165	1.5	18	433
07	120m6	195	210	115H7	195	120H7	120H7	280	195	2.2	30	601
08	130m6	195	250	125H7	195	130H7	130H7	285	195	2.2	33	705
09	140m6	235	250	135H7	235	140H7	140H7	330	235	3.9	48	963
10	160m6	235	300	150H7	235	150H7	150H7	350	235	3.9	50	1177
11	170m6	270	300	165H7	270	165H7	165H7	400	270	3.9	80	1558
12	180m6	270	300	180H7	270	180H7	180H7	405	270	3.9	90	1819
13	200m6	335	350	190H7	335	190H7	190H7	480	335	7.7	145	2526
14	220m6	335	350	210H7	335	210H7	210H7	480	335	7.7	150	3071
15	240m6	380	410	230H7	380	230H7	230H7	550	380	13.7	230	3940
16	250m6	380	410	240H7	380	240H7	240H7	550	380	13.7	235	4450
17	260m6	415	410	250H7	415	250H7	250H7	600	415	13.7	295	4945
18	280m6	415	470	275H7	415	280H7	280H7	600	415	13.7	305	5475



## BE405D-418D(Without auxiliary gearmotor)





		Inpu	t Shaft				Gea	rBox		
Size	iN≤250(Size: iN≥280(Size: 11,12,13,14,1	05,06,07.08,	iN≥280(Size:9 iN≥315(Size:0 11,12,13,14,19	5,06,07,08,	G1	а	b	C	e3	E
	d1	L1	d1	Li						
05	35k6	80	25k6	50	615	713	255	28	90	405
06	35k6	80	25k6	50	650	793	255	28	90	440
07	35k6	80	30k6	60	725	876	300	35	110	495
08	35k6	80	30k6	60	770	981	300	35	110	540
09	45k6	110	35k6	80	840	1033	370	40	130	580
10	45k6	110	35k6	80	890	1131	370	40	130	630
11	50k6	110	40k6	80	1010	1227	430	50	160	705
12	50k6	110	40k6	80	1080	1382	430	50	160	775
13	60m6	140	50k6	110	1170	1470	550	60	207	820
14	60m6	140	50k6	110	1240	1610	550	60	207	890
15	75m6	140	60m6	140	1407	1760	625	70	250	987
16	75m6	140	60m6	140	1453	1850	625	70	250	1033
17	75m6	140	60m6	140	1455	1820	690	80	235	1035
18	75m6	140	60m6	140	1515	1940	690	80	235	1095

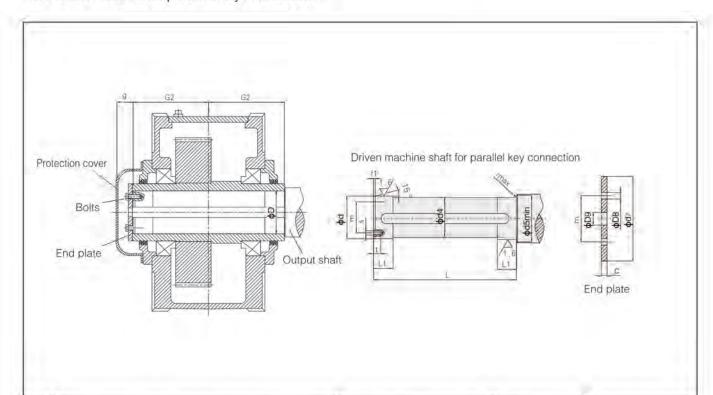
0:	100	GearBox														
Size	G8	h	Н	m1	m2	m3	n1	n2	S	G9	L9	d7	D6			
05	210	230	460	480	1	220	113	100	19	170	60	25h6	95			
06	210	230	490	560	1	220	113	145	19	170	60	25h6	95			
07	240	280	560	605		260	131	130	24	200	70	30h6	125			
08	240	280	580	710	1	260	131	190	24	200	70	30h6	125			
09	270	320	640	710	1	320	156	155	28	235	65	40h6	125			
10	270	320	670	810	1	320	156	205	28	235	65	40h6	125			
11	315	380	760	870	1	370	178	180	35	255	80	40h6	150			
12	315	380	790	1025	I	370	178	265	35	255	80	40h6	150			
13	375	440	875	667.5	527.5	475	137	305	35	310	100	45h6	175			
14	375	440	940	667.5	667.5	475	137	375	35	310	100	45h6	175			
15	465	500	1000	840	600	535	16.1	365	42	365	135	65h6	230			
16	465	500	1035	840	690	535	160	410	42	365	135	65h6	230			
17	495	550	1105	840	660	600	160	390	42	385	135	65h6	230			
18	495	550	1110	840	780	600	160	450	42	385	135	65h6	230			

Size		Output Shaft														
		BE4DS		BE4.	.DH		BE4.	BE4	Weight							
	d2	G2	L2	D	G4	D2	D3	G5	G6	(L)	(kg)					
05	100m6	165	210	95H7	165	100H7	100H7	240	165	16	354					
06	110m6	165	210	105H7	165	110H7	110H7	240	165	18	433					
07	120m6	195	210	115H7	195	120H7	120H7	280	195	30	601					
.08	130m6	195	250	125H7	195	130H7	130H7	285	195	33	705					
09	140m6	235	250	135H7	235	140H7	140H7	330	235	48	963					
10	160m6	235	300	150H7	235	150H7	150H7	350	235	50	1177					
11	170m6	270	300	165H7	270	165H7	165H7	400	270	80	1558					
12	180m6	270	300	180H7	270	180H7	180H7	405	270	90	1819					
13	200m6	335	350	190H7	335	190H7	190H7	480	335	145	2526					
14	220m6	335	350	210H7	335	210H7	210H7	480	335	150	3071					
15	240m6	380	410	230H7	380	230H7	230H7	550	380	230	3940					
16	250m6	380	410	240H7	380	240H7	240H7	550	380	235	4450					
17	260m6	415	410	250H7	415	250H7	250H7	600	415	295	4945					
18	280m6	415	470	275H7	415	280H7	280H7	600	415	305	5475					



## 13 Suggested output connection dimensions

#### 13.1 Hollow shaft with parallel key connection:

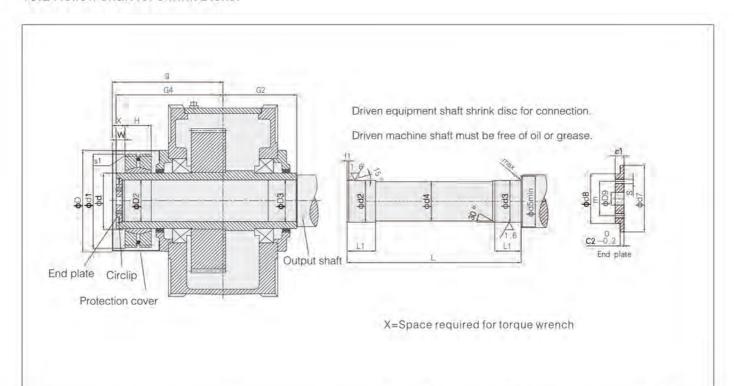


	Driven equipment shaft										En	d plate	•		Bol	t	Hollow shaft			
Size	d	d4	d5	f1	L	L1	r	s	t	С	D8	D9	d7	m	Size	Qty.	D	G2	g	
04	80h6	79.5	88	4	278	35	1.2	M10	18	10	11	22	100	60	M10x25	2	80H7	140	50	
05	95h6	94,5	105	5	328	40	1.6	M10	18	10	11	26	120	70	M10x25	2	95H7	165	45	
06	105h6	104.5	116	5	328	45	1.6	M10	18	10	11	26	120	70	M10x25	2	105H7	165	45	
07	115h6	114.5	126	5	388	50	1.6	M12	20	12	13.5	26	140	80	M12x30	2	115H7	195	55	
08	125h6	124.5	136	6	388	55	2.5	M12	20	12	13.5	26	150	85	M12x30	2	125H7	195	55	
09	135h6	134.5	147	6	467	60	2.5	M12	20	12	13.5	33	160	90	M12x30	2	135H7	235	55	
10	150h6	149.5	162	6	467	65	2.5	M12	20	12	13.5	33	185	110	M12x30	2	150H7	235	55	
11	165h6	164.5	177	7	537	70	2.5	M16	28	15	17.5	33	195	120	M16x40	2	165H7	270	65	
12	180h6	179.5	192	7	537	75	2.5	M16	28	15	17.5	33	220	130	M16x40	2	180H7	270	65	
13	190h6	189.5	206	7	667	80	3	M16	28	18	17.5	33	230	140	M16x40	2	190H7	335	45	
14	210h6	209.5	226	8	667	85	3	M16	28	18	17.5	33	250	160	M16x40	2	210H7	335	45	
15	230h6	229.5	248	8	756	100	3	M20	38	25	22	39	270	180	M20x55	4	230H7	380	60	
16	240h6	239.5	258	8	756	100	3	M20	38	25	22	39	280	180	M20x55	4	240H7	380	60	
17	250h6	249,5	270	8	826	110	4	M20	38	25	22	39	300	190	M20x55	4	250H7	415	60	
18	275h6	274.5	295	9	826	120	4	M20	38	25	22	39	330	210	M20x55	4	275H7	415	60	

Note: 1.Material of driven equipment shaft:40Cr or steel with higher strength. 2.Shaft and parallel key of driven equipment are not within the scope of supply. Please order if required. 3.Protection cover, end plate and bolts are supplied with gearbox as standard.



#### 13.2 Hollow shaft for shrink Disks:



Size	Driven equipment shaft								End	l pla	ate			Circlip	Но	ollow s	shaft		5	Shrir	k dis	SC		Bolt	Prote	ction			
SIZE	d2	d3	d4	d5	ft	L	Н	r	c1	c2	d7	d8	D9	m	s	Number	Ollonb	D2	D3	G2	G4	Туре	d	d1	Н	W	s1	D	g
04	85g6	85h6	84.5	95	4	326	48	2	17	7	90	70	22	50	M8	2	90	85H7	85H7	140	205	SP2-110	110	185	49	15	M12	232	233
05	100g6	100h6	99.5	114	5	383	53	2	20	8	105	80	26	55	M10	2	105	100H7	100H7	165	240	SP2-125	125	215	53	17	M12	277	260
06	110g6	110h6	109.5	124	5	383	58	3	20	8	115	85	26	60	M10	2	115	110H7	110H7	165	240	SP2-140	140	230	58	17	M12	277	261
07	120g6	120h6	119,5	134	5	453	68	3	20	8	125	90	26	65	M12	2	125	120H7	120H7	195	280	SP2-155	155	263	62	23	M12	347	321
08	130g6	130h6	129.5	145	6	458	73	3	20	8	135	100	26	70	M12	2	135	130H7	130H7	195	285	SP2-165	165	290	68	23	M16	347	320
09	140g6	140h6	139.5	160	6	539	82	4	23	10	150	110	33	80	M12	2	150	140H7	140H7	235	330	SP2-175	175	300	68	28	M16	362	390
10	150g6	150h6	149,5	170	6	559	92	4	23	10	160	120	33	90	M12	2	160	150H7	150H7	235	350	SP2-185	185	330	85	28	M16	399	398
11	165f6	165g6	164.5	185	7	644	112	4	23	10	175	130	33	90	M12	2	175	165H7	165H7	270	400	SP2-220	220	370	103	30	M16	399	455
12	180f6	180g6	179.5	200	7	649	122	4	23	10	190	140	33	100	M16	2	190	180H7	180H7	270	405	SP2-240	240	405	107	30	M20	464	477
13	190f6	190g6	189.5	213	7	789	137	5	23	10	200	150	33	110	M16	2	200	190H7	190	335	480	SP2-260	260	430	119	30	M20	500	505
14	210f6	210g6	209.5	233	8	784	147	5	28	14	220	170	33	130	M16	2	220	210H7	210	335	480	SP2-280	280	460	132	30	M20	525	505
15	230f6	230g6	229,5	253	8	899	157	5	28	14	240	180	39	140	M16	2	240	230H7	230	380	550	SP2-300	300	485	140	35	M20	575	575
16	240f6	240g6	239.5	263	8	899	157	5	28	14	250	190	39	150	M20	2	250	240H7	240	380	550	SP2-320	320	520	140	35	M20	595	575
17	250f6	250g6	249.5	278	8	982	177	5	30	14	265	200	39	150	M20	2	265	250H7	250	415	600	SP2-340	340	570	155	35	M20	615	630
18	280f6	280g6	279,5	306	9	982	177	5	30	14	290	210	39	160	M20	2	290	280H7	280	415	600	SP2-360	360	590	162	35	M24	635	625

Note: 1.Material of driven equipment shaft:40Cr or steel with higher strength.

2.Shaft and parallel key of driven equipment are not within the scope of supply. Please order if required.

3.Procedured.

standard.



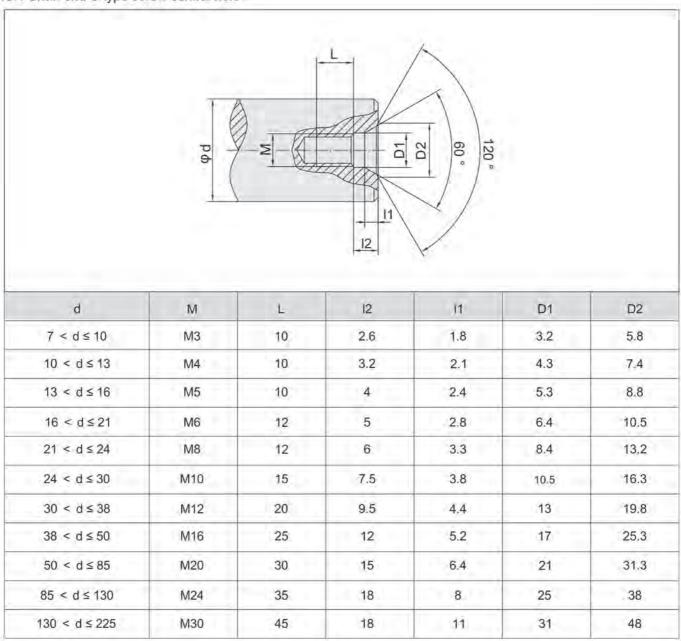
## 14 Dimension of Parallel Key and Keyway

	<del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del>	<u> </u>		
4//			φd	
d	b	h	t ₁	d+t2
8 < d ≤ 10	3	3	1.8	d + 1.4
10 < d ≤ 12	4	4	2.5	d + 1.8
12 < d ≤ 17	5	5	3	d + 2.3
17 < d ≤ 22	6	6	3.5	d + 2.8
22 < d ≤ 30	8	7	4	d + 3.3
30 < d ≤ 38	10	8	5	d + 3.3
38 < d ≤ 44	12	8	5	d + 3.3
44 < d ≤ 50	14	9	5.5	d + 3.8
50 < d ≤ 58	16	10	6	d + 4.3
58 < d ≤ 65	18	11	7	d + 4.4
65 < d ≤ 75	20	12	7.5	d + 4.9
75 < d ≤ 85	22	14	9	d + 5.4
85 < d ≤ 95	25	14	9	d + 5.4
95 < d ≤ 110	28	16	10	d + 6.4
110 < d ≤ 130	32	18	11	d + 7.4
130 < d ≤ 150	36	20	12	d + 8.4
150 < d ≤ 170	40	22	13	d + 9.4
170 < d ≤ 200	45	25	15	d+10.4
200 < d ≤ 230	50	28	17	d+11.4
230 < d ≤ 260	56	32	20	d +12.4
260 < d ≤ 290	63	32	20	d +12.4
290 < d ≤ 330	70	36	22	d +14.4
330 < d ≤ 380	80	40	25	d +15.4
380 < d ≤ 440	90	45	28	d+17.4
440 < d ≤ 500	100	50	31	d +19.5
500 < d ≤ 560	110	56	34.3	d +22.2
560 < d ≤ 640	120	63	39	d +24.5



#### 15 Shaft End Centre Hole

#### 15.1 Shaft end C type screw central hole:



## 16 Lubrication oil (heavy-loading industrial gear oil) viscosity number selection[VG320(Accessory code:UV32);VG460(Accessory code:UV46)]

Ambient temperature℃	-20°C~+40°C	+30℃~+50℃
Viscosity number	VG320	VG460

Note; 1. Viscosity in the above table is ISO-VG Viscosity under 40 ℃

^{2.} When ambient temperature is lower than-10°C, synthetic oil must be used.

^{3.}To ensure product lifespan, we suggest synthetic oil.

^{4.}IF ambient temperature exceeds the above range, please consult,



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TEL:024–31281850  DALIAN Room 1309, Block A, Zhongnan Building,	116021	Room 2308, Building 2, Future Stone, No. 1999, Qiyi East Road, Lianchi District TEL:0312–6770052	071000	WEIFANG Room 1911, Block F, Century Taihua, 360 Dongfeng East Street	261000
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SHUIAZHUANG	050011	Trade City Panlong District, Kunming City. TEL:0871-63627910		CHONGQING	400039
Room 403, Block B, Zhong Yuan Business Building, 88 Huaian West Road, Qiaoxi District TEL:0311–68120930		QUANZHOU Rm.1913, Quanzhou Puxi Wanda SOHO B,	362000	27-12, Bullding 1, No. 8, Xihuan Road, Jiangbei Distric TEL:023-68856736	t
CHANGZHI Room A04, Zhongchuang Society (Building Space), No. 188 Taihang North Road, High-tech Zone, Changzh	.046000	Baozhou Road, Fengze District, Quanzhou City. TEL:0595–22518045 NANCHANG	220002	WUHAN No. 13-2304, Wanda Plaza, Jiyu Bridge,	430077
TEL:0355-6081808	iii City	Room 1321, Building 2, Ligaolanhu, 220 Lian'an Road,	330003	Heping Avenue, Wuchang District TEL:027-87253387	
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