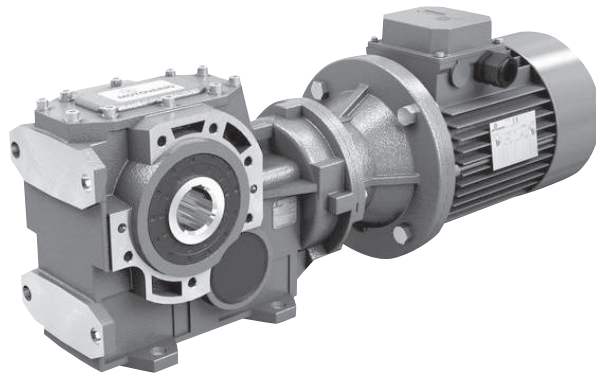
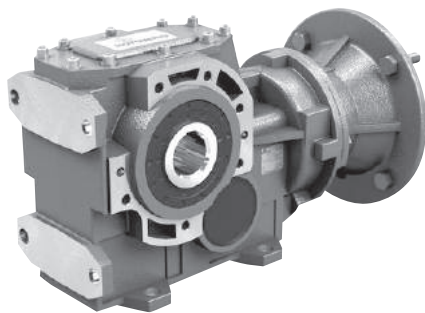


**B**  
SERIES

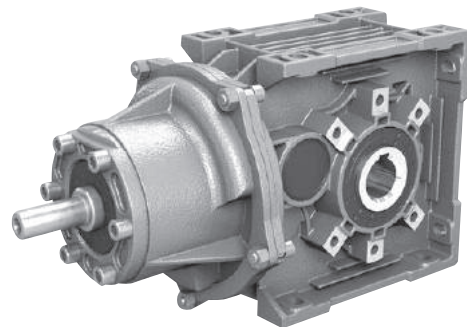


**CB**

**헬리컬 베벨 기어드 모터와 기어 유니트**  
**Helical bevel geared motors and gear units**



**B**

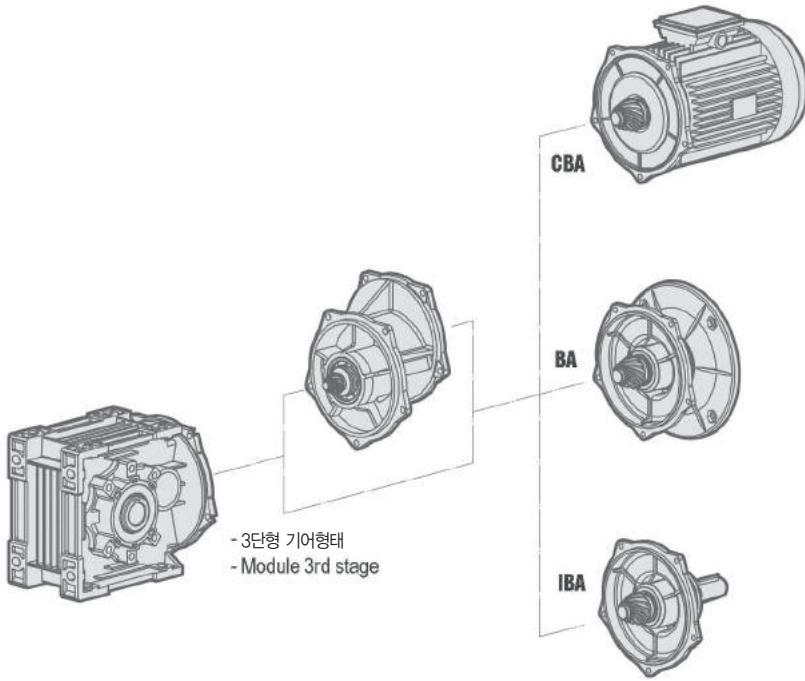


**IB**

모듈방식 / Modularity

BA

알루미늄 시리즈 / Aluminium alloy series. /



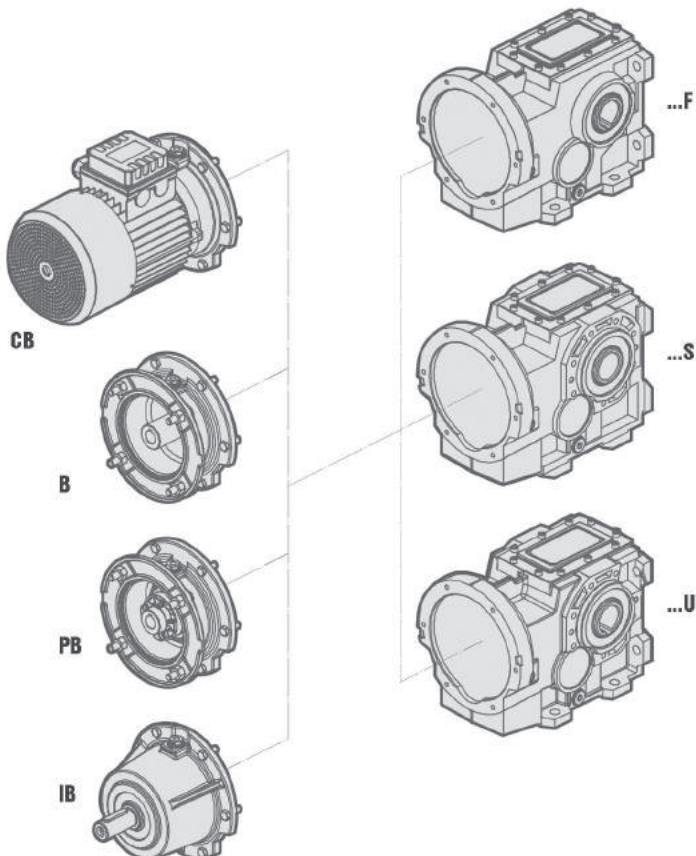
**CBA** - 모터 일체형  
- Compact electric motor versions.

**BA** - I.E.C 플랜지 모터 취부형  
- Fitted for motor coupling version (PAM).

**IBA** - 입력 샤프트형  
- Input shaft versions.

B

주철 시리즈 / Grey cast iron series.



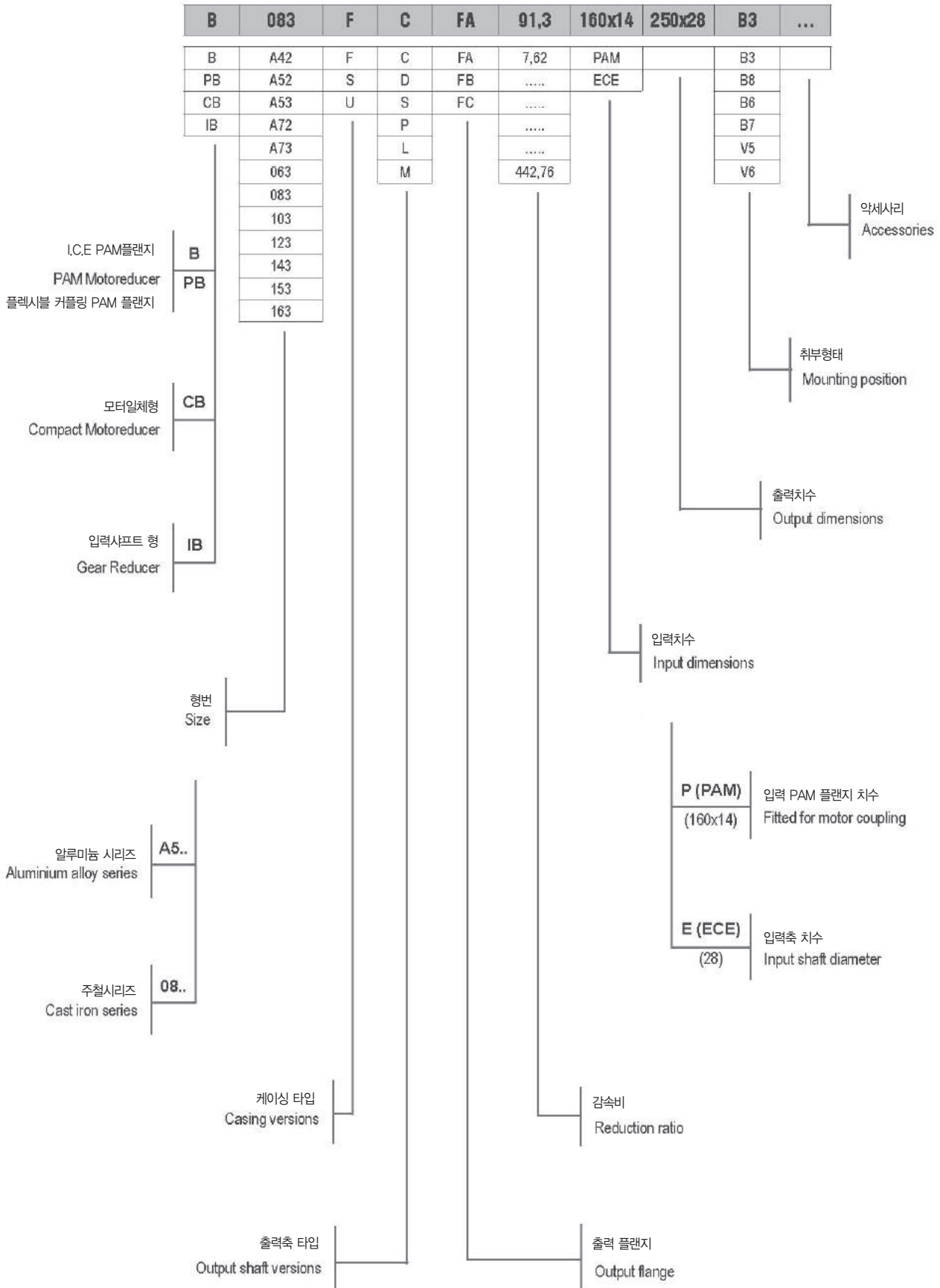
**CB** - 모터 일체형  
- Compact electric motor versions.

**B** - I.E.C 플랜지 모터 취부형  
- Fitted for motor coupling version (PAM).

**PB** - 플렉시블 커플링 형  
- Fitted for motor mounting with flexible coupling.

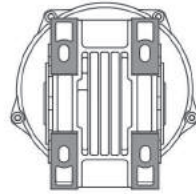
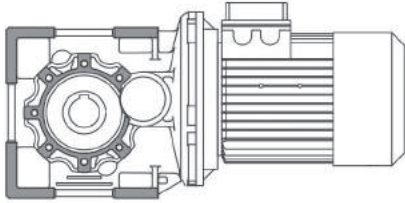
**IB** - 입력 샤프트형  
- Input shaft versions.

모델형식 / Designation



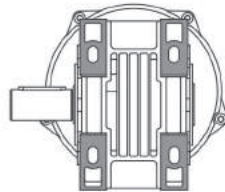
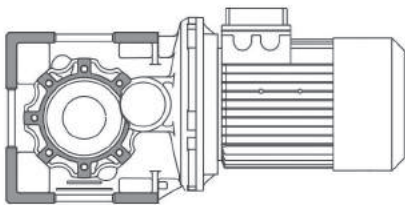
버전 / Versions

A40 - A50 - A70



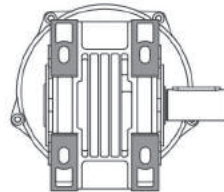
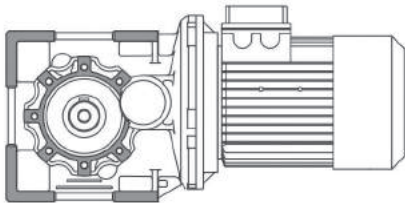
**B ... C**

- 풋 마운트/중공축
- Foot mounting / hollow shaft.



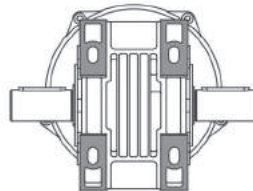
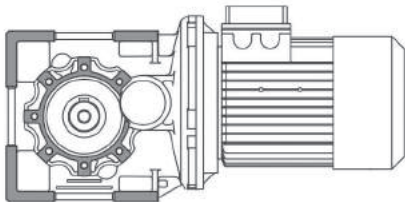
**B ... D**

- 풋 마운트/중실축 - 왼쪽(D)
- Foot mounting / D solid shaft.



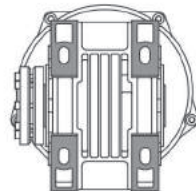
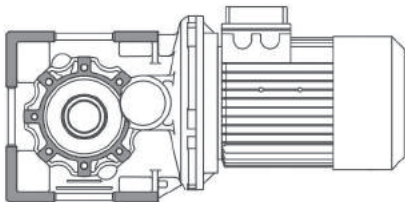
**B ... S**

- 풋 마운트/중실축 - 오른쪽(S)
- Foot mounting / S solid shaft.



**B ... P**

- 풋 마운트/중실축 - 양축형
- Foot mounting / double output shaft.



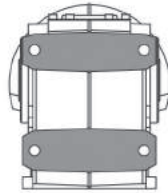
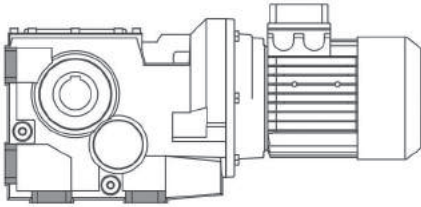
**B ... L**

- 풋 마운트/샤링크 디스크
- Foot mounting /shrink disc shaft.

- NB. 감속기 형번 A042-A052-A053은 D-S-P형태로 사용할 수 없음.  
 - N.B. sizes A42 - A52 - A53 are not available in versions D-S-P.

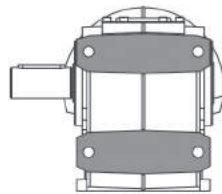
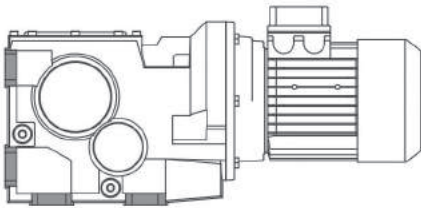
버전 / Versions

063 - 083 - 103 - 123



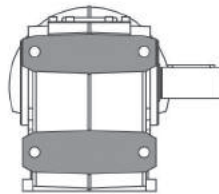
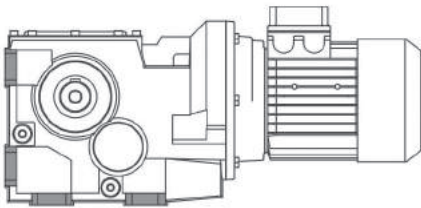
**B ... FC**

- 풋 마운트 - 중공축
- Foot mounting / hollow shaft.



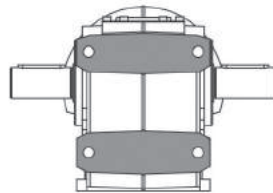
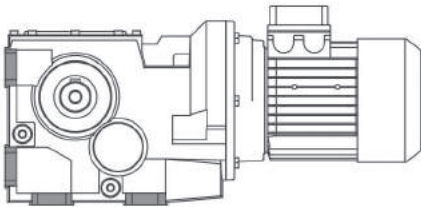
**B ... FD**

- 풋 마운트 - 중실축 - 왼쪽(D)
- Foot mounting / D solid shaft.



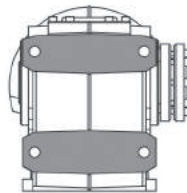
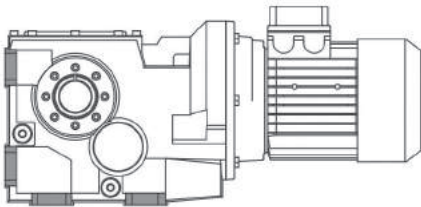
**B ... FS**

- 풋 마운트 - 중실축 - 오른쪽(S)
- Foot mounting / S solid shaft.



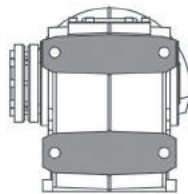
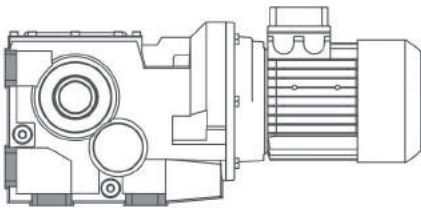
**B ... FP**

- 풋 마운트 - 중실축 - 양축형
- Foot mounting / double output shaft.



**B ... FL**

- 풋 마운트 / 샤링크디스크 - 오른쪽(L)
- Foot mounting / shrink disc shaft.

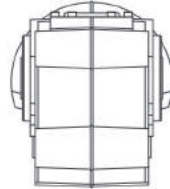
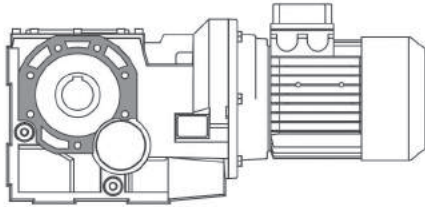


**B ... FM**

- 풋 마운트 / 샤링크디스크 - 왼쪽(M)
- Foot mounting / shrink disc shaft.

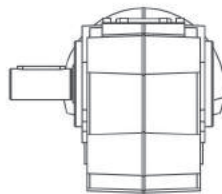
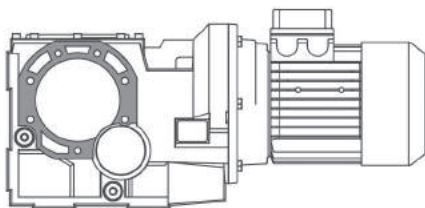
버전 / Versions

063 - 083 - 103 - 123



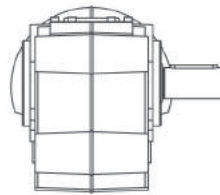
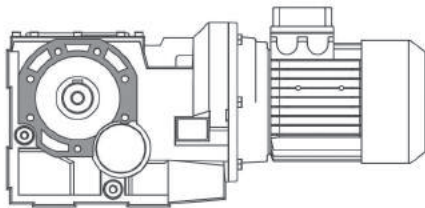
**B ... SC**

- 플랜지 마운트/중공축
- Flange mounting / hollow shaft.



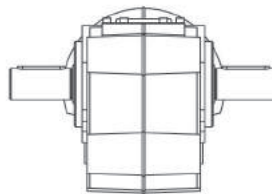
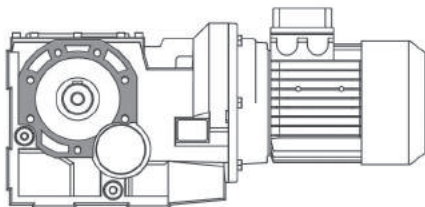
**B ... SD**

- 플랜지 마운트/중실축-왼쪽(D)
- Flange mounting / D solid shaft.



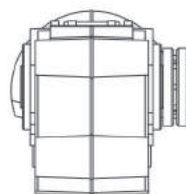
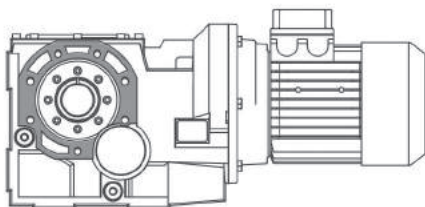
**B ... SS**

- 플랜지 마운트/중실축-오른쪽(S)
- Flange mounting / S solid shaft.



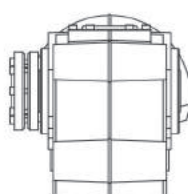
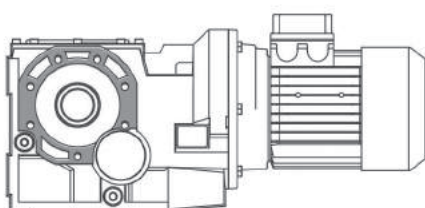
**B ... SP**

- 플랜지 마운트/중실축-양축형
- Flange mounting / double output shaft.



**B ... SL**

- 플랜지 마운트/샤링크 디스크-오른쪽(L)
- Flange mounting / shrink disc shaft.

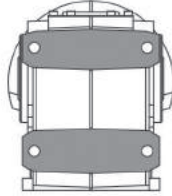
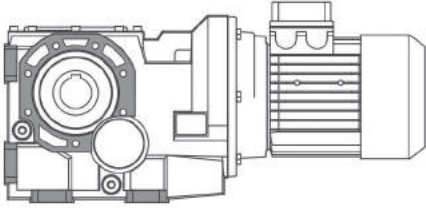


**B ... SM**

- 플랜지 마운트/샤링크 디스크-왼쪽(M)
- Flange mounting / shrink disc shaft.

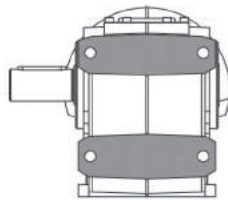
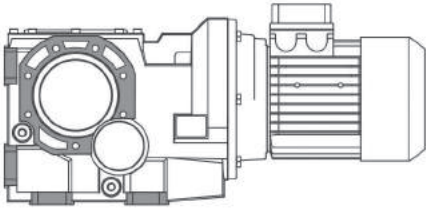
버전 / Versions

063 - 083 - 103 - 123 - 143 - 153 - 163



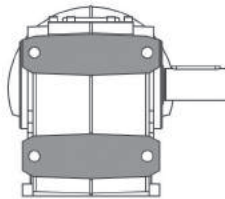
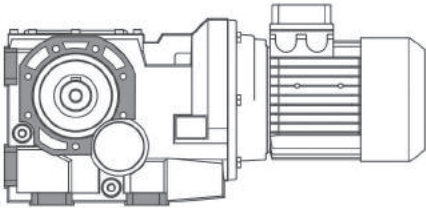
**B ... UC**

- 풋 플랜지 마운트/중공축
- Foot-flange mounting / hollow shaft.



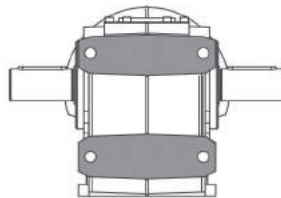
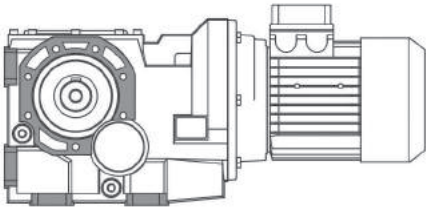
**B ... UD**

- 풋 플랜지 마운트/중실축-왼쪽(D)
- Foot-flange mounting / D solid shaft.



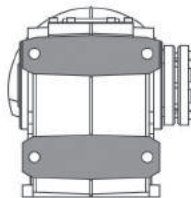
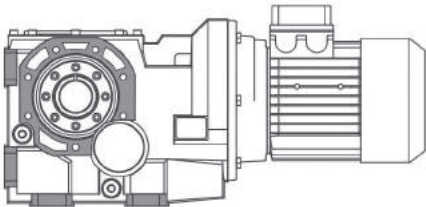
**B ... US**

- 풋 플랜지 마운트/중실축-오른쪽(S)
- Foot-flange mounting / S solid shaft.



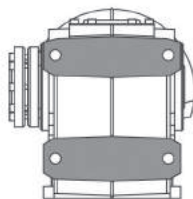
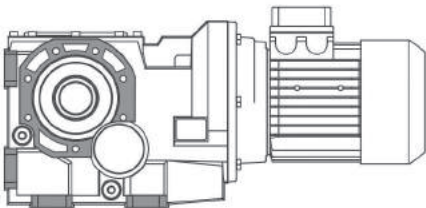
**B ... UP**

- 풋 플랜지 마운트/중실축-양축형
- Foot-flange mounting / double output shaft.



**B ... UL**

- 풋 플랜지 마운트/샤링크 디스크-오른쪽(L)
- Foot-flange mounting / shrink disc shaft.



**B ... UM**

- 풋 플랜지 마운트/샤링크 디스크-왼쪽(M)
- Foot-flange mounting / shrink disc shaft.

감속비에 따른 모터 취부 분류 / Predisposition

**CB...A40 - A50 - A70**

	i	063	071	080	090	100	112
CB A42	7,62 ÷ 64,13	B10	B10	B10			
CB A42	78,17	B10	B10				
CB A52	7,91 ÷ 31,63	B10	B10	B10	B10		
CB A52	35,1 ÷ 64,87	B10	B10	B10			
CB A52	79,07	B10	B10				
CB A53	73,7 ÷ 172,53	B10	B10	B10	B10		
CB A53	197,11 ÷ 342,65	B10	B10				
CB A72	8,36 ÷ 22,19				B10	B10	B10
CB A72	27,45 ÷ 40,87			B10	B10	B10	B10
CB A72	45,64 ÷ 67,96			B10	B10		
CB A73	43,89 ÷ 222,93	B10	B10	B10	B10		
CB A73	260,2 ÷ 442,76	B10	B10				

**B...A40 - A50 - A70**

	i	063	071	080	090	100	112
BA42	7,62 ÷ 64,13	B5	B5-B14	B5 - B14			
BA42	78,17	B5	B5-B14				
BA52	7,91 ÷ 31,63	B5	B5-B14	B5-B14	B5-B14		
BA52	35,1 ÷ 64,87	B5	B5-B14	B5-B14			
BA52	79,07	B5	B5-B14				
BA53	73,7 ÷ 172,53	B5	B5-B14	B5-B14	B5-B14		
BA53	197,11 ÷ 342,65	B5	B5-B14				
BA72	8,36 ÷ 22,19				B5-B14	B5-B14	B5-B14
BA72	27,45 ÷ 40,87			B5-B14	B5-B14	B5-B14	B5-B14
BA72	45,64 ÷ 67,96			B5-B14	B5-B14		
BA73	43,89 ÷ 222,93	B5	B5-B14	B5-B14	B5-B14		
BA73	260,2 ÷ 442,76	B5	B5-B14				

- B = 10 특수 모터(감속기 모터 일체형)
- Motor with special execution
- 테이블 표에 표시된것은 모두 가능함. 단, 안전계수를 필히 확인하시기 바람.
- Teses tables report all possible dimensions, Please verify service factor.



**감속비에 따른 모터 취부 분류 / Predisposition**
**CB - B - PB ...063**

i	063	071	080	90	100-112
5.71			B5-B11	B5-B11	B5-B11
6.88			B5-B11	B5-B11	B5-B11
7.32		B5-B11	B5-B11	B5-B11	B5-B11
9.16			B5-B11	B5-B11	B5-B11
10.26			B5-B11	B5-B11	B5-B11
11.03			B5-B11	B5-B11	B5-B11
12.35			B5-B11	B5-B11	B5-B11
13.15		B5-B11	B5-B11	B5-B11	B5-B11
15.18		B5-B11	B5-B11	B5-B11	B5-B11
17.00		B5-B11	B5-B11	B5-B11	B5-B11
22.39		B5-B11	B5-B11	B5-B11	B5-B11
26.09			B5-B11	B5-B11	B5-B11
28.03			B5-B11	B5-B11	B5-B11
33.43		B5-B11	B5-B11	B5-B11	B5-B11
38.58		B5-B11	B5-B11	B5-B11	B5-B11
43.22		B5-B11	B5-B11	B5-B11	B5-B11
50.81		B5-B11	B5-B11	B5-B11	B5-B11
56.93		B5-B11	B5-B11	B5-B11	B5-B11
69.16	B5-B11	B5-B11	B5-B11	B5-B11	
77.48	B5-B11	B5-B11	B5-B11	B5-B11	
90.33	B5-B11	B5-B11	B5-B11		
101.20	B5-B11	B5-B11	B5-B11		
111.74	B5-B11	B5-B11	B5-B11		
124.20	B5-B11	B5-B11	B5-B11		
139.15	B5-B11	B5-B11	B5-B11		
157.42	B5-B11	B5-B11	B5-B11		

**CB - B - PB ...083**

i	080	090	100	112	132
7.81	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
8.62	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
10.49	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
11.59	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
14.43	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
16.60	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
18.32	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
22.82	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
265.71	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
29.50	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
31.80	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
34.49	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
39.60	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
42.95	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
45.44	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
51.19	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
55.52	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
59.96	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
63.74	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
69.14	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
73.14	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
80.76	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
92.19	B5-B11	B5-B11	B5-B11	B5-B11	
100.57	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11
105.29	B5-B11	B5-B11	B5-B11	B5-B11	
116.25	B5-B11	B5-B11	B5-B11	B5-B11	
126.76	B5-B11	B5-B11	B5-B11	B5-B11	
144.77	B5-B11	B5-B11	B5-B11	B5-B11	

- B = 11 특수 모터(감속기 모터 일체형)
- Motor with special execution
- 테이블 표에 표시된것은 모두 가능함. 단, 안전계수를 필히 확인하시기 바람.
- Teses tables report all possible dimensions, Please verify service factor.

감속비에 따른 모터 취부 분류 / Predisposition

CB - B - PB ...103

i	080	090	100	112	132	160
8.13	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	B5
8.97	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	B5
10.92	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	B5
12.05	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	B5
14.99	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	B5
17.27	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	B5
19.06	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	B5
23.70	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	B5
26.51	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	B5
30.55	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	B5
33.07	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
35.87	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
41.12	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
44.61	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
47.28	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
50.24	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
53.02	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
58.50	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
64.89	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
68.58	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
72.76	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
78.92	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
83.66	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
92.31	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
105.44	B5-B11	B5-B11	B5-B11	B5-B11		
114.80	B5-B11	B5-B11	B5-B11	B5-B11	B5-B11	
120.42	B5-B11	B5-B11	B5-B11	B5-B11		
132.87	B5-B11	B5-B11	B5-B11	B5-B11		
144.69	B5-B11	B5-B11	B5-B11	B5-B11		
165.25	B5-B11	B5-B11	B5-B11	B5-B11		

CB - B - PB ...123

i	080	090	100	112	132	160
7.97				B5-B11	B5	B5
9.62				B5-B11	B5	B5
10.33				B5-B11	B5	B5
12.48				B5-B11	B5	B5
13.84				B5-B11	B5	B5
15.38				B5-B11	B5	B5
18.58				B5-B11	B5	B5
20.61				B5-B11	B5	B5
22.78				B5-B11	B5	B5
25.89		B5-B11	B5-B11	B5-B11	B5	B5
27.51				B5-B11	B5	B5
30.79				B5-B11	B5	B5
31.26		B5-B11	B5-B11	B5-B11	B5	B5
34.68		B5-B11	B5-B11	B5-B11	B5	B5
40.53		B5-B11	B5-B11	B5-B11	B5	B5
44.89		B5-B11	B5-B11	B5-B11	B5	B5
49.80		B5-B11	B5-B11	B5-B11	B5	B5
54.30		B5-B11	B5-B11	B5-B11	B5	B5
59.36		B5-B11	B5-B11	B5-B11	B5	B5
62.59		B5-B11	B5-B11	B5-B11	B5	B5
69.43		B5-B11	B5-B11	B5-B11	B5	B5
74.42		B5-B11	B5-B11	B5-B11	B5	B5
80.04	B5-B11	B5-B11	B5-B11	B5-B11		
89.87		B5-B11	B5-B11	B5-B11	B5	B5
99.70		B5-B11	B5-B11	B5-B11	B5	B5
106.65	B5-B11	B5-B11	B5-B11	B5-B11		
119.60	B5-B11	B5-B11	B5-B11	B5-B11		
129.96	B5-B11	B5-B11	B5-B11	B5-B11		
144.43	B5-B11	B5-B11	B5-B11	B5-B11		
160.23	B5-B11	B5-B11	B5-B11	B5-B11		
180.40	B5-B11	B5-B11	B5-B11	B5-B11		

- B = 11 특수 모터(감속기 모터 일체형)
- Motor with special execution
- 테이블 표에 표시된것은 모두 가능함. 단, 안전계수를 필히 확인하시기 바람.
- Teses tables report all possible dimensions, Please verify service factor.

**감속비에 따른 모터 취부 분류 / Predisposition**
**CB - B - PB ...143**

i	100	112	160	160	180	200
10.84			B5-B11	B5	B5	B5
11.67			B5-B11	B5	B5	B5
14.49			B5-B11	B5	B5	B5
17.04			B5-B11	B5	B5	B5
18.66			B5-B11	B5	B5	B5
21.00			B5-B11	B5	B5	B5
22.77			B5-B11	B5	B5	B5
25.63			B5-B11	B5	B5	B5
27.44	B5-B11	B5-B11	B5-B11	B5	B5	B5
30.05	B5-B11	B5-B11	B5-B11	B5	B5	B5
33.01			B5-B11	B5	B5	B5
36.67	B5-B11	B5-B11	B5-B11	B5	B5	B5
40.29			B5-B11	B5	B5	B5
44.16	B5-B11	B5-B11	B5-B11	B5	B5	B5
48.35	B5-B11	B5-B11	B5-B11	B5	B5	B5
53.16	B5-B11	B5-B11	B5-B11	B5	B5	B5
54.63	B5-B11	B5-B11	B5-B11	B5	B5	B5
59.02	B5-B11	B5-B11	B5-B11	B5	B5	B5
64.88	B5-B11	B5-B11	B5-B11	B5	B5	B5
70.43	B5-B11	B5-B11	B5-B11	B5	B5	
77.12	B5-B11	B5-B11	B5-B11	B5	B5	
85.54	B5-B11	B5-B11	B5-B11	B5	B5	B5
94.13	B5-B11	B5-B11	B5-B11	B5	B5	
105.83	B5-B11	B5-B11	B5-B11			
111.94	B5-B11	B5-B11	B5-B11	B5	B5	
124.62	B5-B11	B5-B11	B5-B11	B5	B5	
136.44	B5-B11	B5-B11	B5-B11	B5	B5	
149.59	B5-B11	B5-B11	B5-B11	B5	B5	
166.53	B5-B11	B5-B11	B5-B11	B5	B5	
187.24	B5-B11	B5-B11	B5-B11			

**B - PB ...153**

i	132	160	180	200	225
10.40		B5	B5	B5	B5
12.64		B5	B5	B5	B5
143.01		B5	B5	B5	B5
15.40		B5	B5	B5	B5
18.56		B5	B5	B5	B5
20.56		B5	B5	B5	B5
23.86		B5	B5	B5	B5
25.19	B5	B5	B5	B5	B5
28.23	B5	B5	B5	B5	B5
30.35	B5	B5	B5	B5	B5
33.63	B5	B5	B5	B5	B5
35.02		B5	B5	B5	B5
38.81		B5	B5	B5	B5
42.30	B5	B5	B5	B5	B5
47.53	B5	B5	B5	B5	B5
50.56	B5	B5	B5	B5	B5
54.64	B5	B5	B5	B5	B5
57.27	B5	B5	B5	B5	B5
60.92	B5	B5	B5	B5	B5
63.47	B5	B5	B5	B5	B5
71.10	B5	B5	B5		
77.22	B5	B5	B5	B5	B5
83.90	B5	B5	B5		
87.70	B5	B5	B5		
93.05	B5	B5	B5	B5	B5
103.12	B5	B5	B5	B5	B5
123.90	B5	B5	B5		
134.30	B5	B5	B5		
149.30	B5	B5	B5		
165.40	B5	B5	B5		

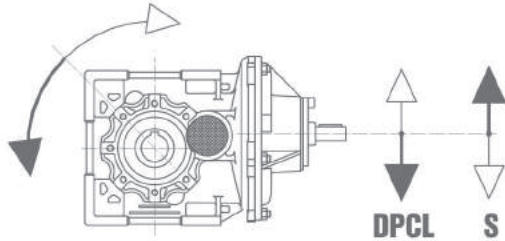
**B - PB ...163**

i	160	180	200	225	250	280
8.89		B5	B5	B5	B5	B5
10.58		B5	B5	B5	B5	B5
11.87		B5	B5	B5	B5	B5
12.81		B5	B5	B5	B5	B5
14.08		B5	B5	B5	B5	B5
15.52		B5	B5	B5	B5	B5
16.39		B5	B5	B5	B5	B5
18.02	B5	B5	B5	B5	B5	B5
19.96	B5	B5	B5	B5	B5	
21.94	B5	B5	B5	B5	B5	B5
24.17	B5	B5	B5	B5	B5	B5
26.58	B5	B5	B5	B5	B5	B5
28.80	B5	B5	B5	B5	B5	B5
30.92	B5	B5	B5	B5	B5	
34.25	B5	B5	B5	B5	B5	B5
37.66	B5	B5	B5	B5	B5	
40.65	B5	B5	B5	B5	B5	
45.09	B5	B5	B5	B5	B5	
51.00	B5	B5	B5	B5	B5	
53.63	B5	B5	B5	B5	B5	
58.97	B5	B5	B5	B5	B5	
69.78	B5	B5	B5	B5		
76.72	B5	B5	B5			
87.54	B5	B5	B5			
96.25	B5	B5	B5			
103.93	B5	B5	B5			
114.27	B5	B5				
128.29	B5	B5				
138.85	B5	B5				
154.83	B5	B5				

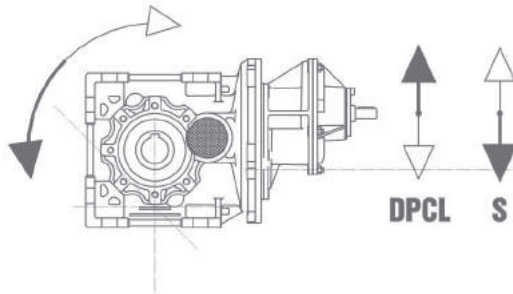
- B = 11 특수 모터(감속기 모터 일체형)
- Motor with special execution
- 테이블 표에 표시된것은 모두 가능함. 단, 안전계수를 필히 확인하시기 바람.
- Teses tables report all possible dimensions, Please verify service factor.

회전방향 / Direction of rotation

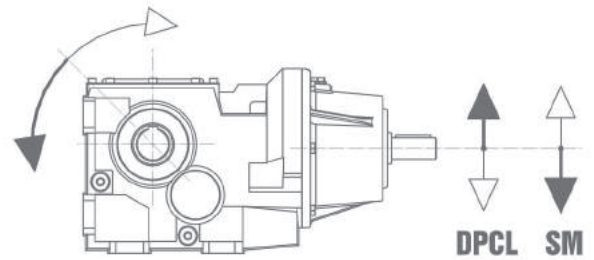
CB - B - IB A42 - A52 - A72



CB - B - IB A53 - A73



CB - B - IB 063 ÷ 163



회전방향  
(Direction of rotation)

KO

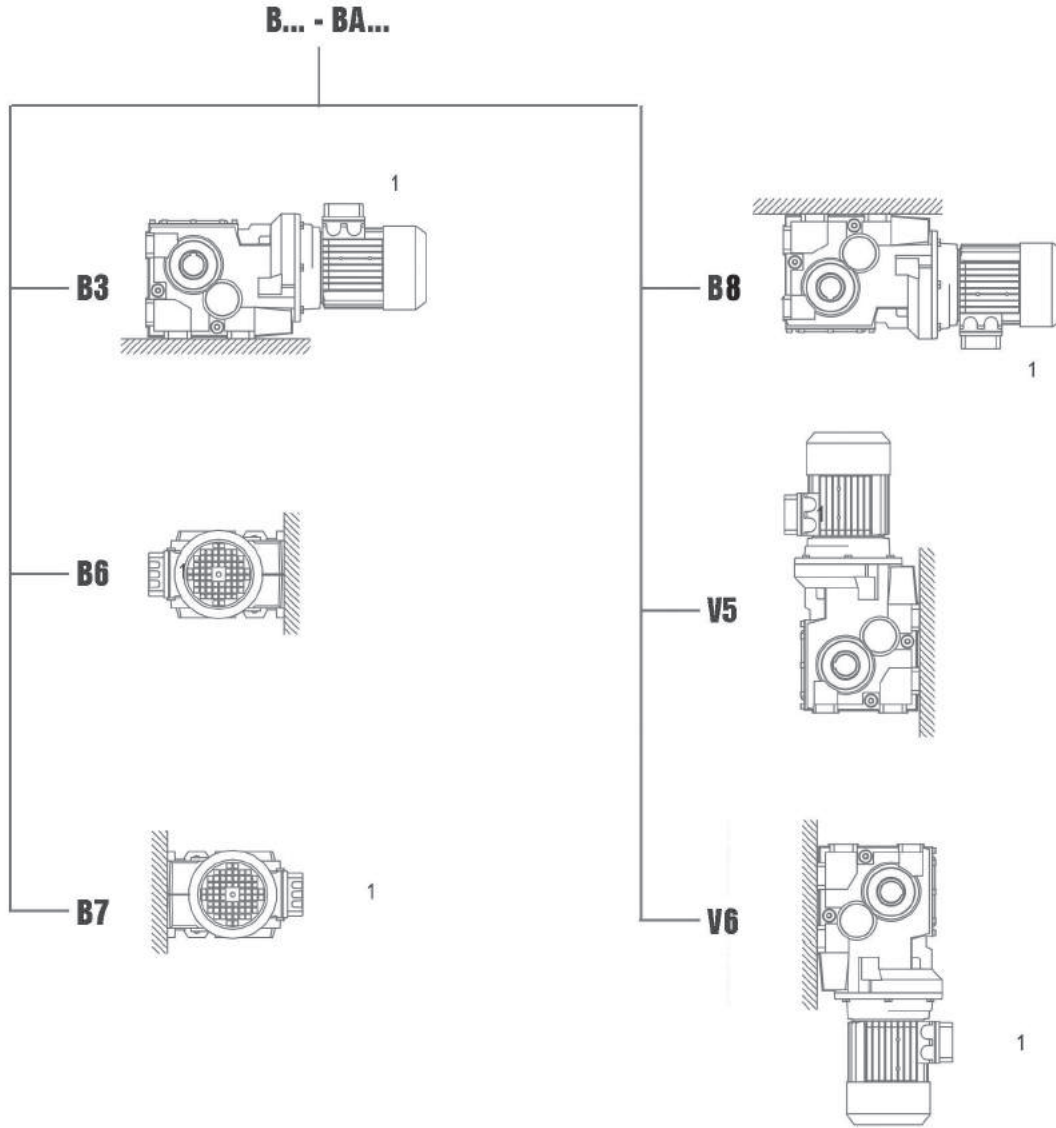
헬리컬 베벨 감속기는 위의 그림과 같은 기본 회전 방향으로 공급된다. 만일 요청사항이 있으면 회전방향을 반대로 할 수 있다. 이때는 주문시 꼭 "카다로그 회전방향과 반대방향을 원함"을 명기해야 한다. 그러나 A42-A52-A53의 제품은 회전방향을 바꿀수 없다.

Direction of rotation

UK

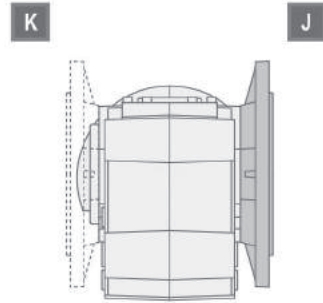
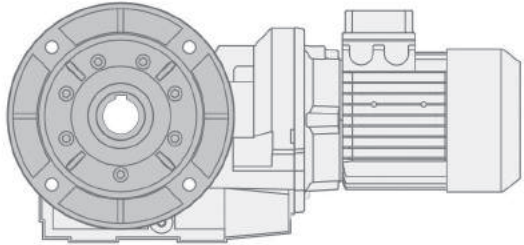
Helical bevel reduction units are supplied as "standard" with rotation as shown in the diagram. On request, the direction of rotation can be reversed; in this case, it is necessary to specify "opposite rotation to catalogue" when ordering. The "opposite rotation to catalogue" is not possible for sizes A42-A52-A53.

취부방식 / Mounting positions



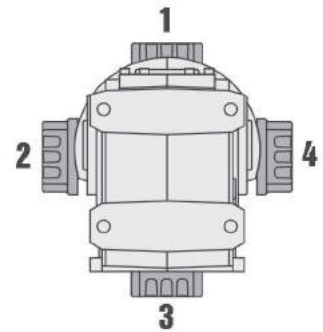
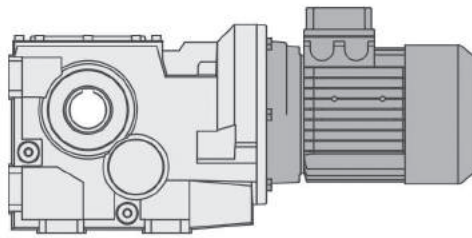
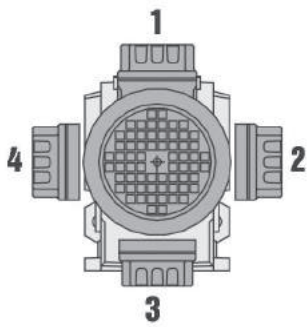
- 수직형으로 사용할 경우에는 6페이지를 참조할 것.
- For vertical positions, check with pages 6.
  
- 주문시 취부위치를 지정해 주지 않으면 기본 B3/B5 타입으로 출고.
- Unless specified otherwise, the standard positions are B3/B5.
  
- 원하는 취부형태가 없다면 본사로 연락해서 협의 해야함.
- For positions not envisaged, it is necessary to call our Technical Service.

출력플랜지 / Flange



- 출력플랜지의 방향이 정해지지 않으면 "J" 방향(취부형태 B3/B5)로 출하됨.
- Unless specified otherwise, the reduction unit is supplied with the flange in pos. J referred to position B3/B5.

단자박스 위치 / Position of terminal box



- 주문시 특별한 요청시 없으면 단자박스 위치는 1번의 위치로 납품함.
- Unless otherwise specified when ordering, the gear reducer is supplied with terminal box in position 1.

메모 / Notes

Lined area for notes

HA / H

BA / B



S

PBH series



Electric Motor

B/BA - 모터 용량에 따른 분류/Performance

**0,18 kW**



n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
50,0	33	3,7	28,00	BA42	63B4	-	2800
44,8	36	3,3	31,27	BA42	63B4	-	2905
41,4	39	3,0	33,78	BA42	63B4	-	2981
29,7	55	2,2	47,12	BA42	63B4	-	3331
24,4	67	1,8	57,43	BA42	63B4	-	3558
21,8	75	1,5	64,13	BA42	63B4	-	3691
17,9	91	1,2	78,17	BA42	63B4	-	3943
27,3	60	3,7	51,34	BA52	63B4	-	3672
21,6	76	2,6	64,87	BA52	63B4	-	3970
17,7	92	2,2	79,07	BA52	63B4	-	4000
19,0	81	2,7	73,70	BA53	63B4	-	4000
15,0	103	2,1	93,33	BA53	63B4	-	4000
12,5	123	1,8	111,61	BA53	63B4	-	4000
10,3	151	1,5	136,53	BA53	63B4	-	4000
8,1	191	1,2	172,53	BA53	63B4	-	4000
7,1	218	1,0	197,11	BA53	63B4	-	4000
11,6	133	3,4	120,34	BA73	63B4	10000	5500
9,4	165	2,7	149,73	BA73	63B4	10000	5500
7,8	199	2,3	180,23	BA73	63B4	10000	5500
6,3	246	1,8	222,93	BA73	63B4	10000	5500
5,4	288	1,6	260,20	BA73	63B4	10000	5500
4,3	356	1,3	321,85	BA73	63B4	10000	5500
3,9	396	1,1	357,95	BA73	63B4	10000	5500
3,2	489	0,9	442,76	BA73	63B4	10000	5500
10,1	154	3,9	139,15	B063	63B4	12000	6672
8,9	174	3,4	157,42	B063	63B4	12000	6934

**0,37 kW**



n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
131,8	25	3,5	10,62	BA42	71B4	-	2027
108,1	31	2,9	12,95	BA42	71B4	-	2165
96,8	35	2,6	14,46	BA42	71B4	-	2246
85,0	39	3,0	16,47	BA42	71B4	-	2346
60,9	55	2,2	22,97	BA42	71B4	-	2621
50,0	67	1,8	28,00	BA42	71B4	-	2800
44,8	75	1,6	31,27	BA42	71B4	-	2905
41,4	81	1,5	33,78	BA42	71B4	-	2981
29,7	113	1,1	47,12	BA42	71B4	-	3331
55,9	60	3,3	25,03	BA52	71B4	-	2890
44,3	76	2,6	31,63	BA52	71B4	-	3124
39,9	84	2,4	35,10	BA52	71B4	-	3235
33,4	101	2,0	41,97	BA52	71B4	-	3433
27,3	123	1,8	51,34	BA52	71B4	-	3672
21,6	156	1,3	64,87	BA52	71B4	-	3970
17,7	190	1,1	79,07	BA52	71B4	-	4000
19,0	167	1,3	73,70	BA53	71B4	-	4000
15,0	212	1,0	93,33	BA53	71B4	-	4000
26,5	120	3,7	52,83	BA73	71B4	9391	4696
21,4	148	3,0	65,35	BA73	71B4	10000	5041
17,3	184	2,5	80,83	BA73	71B4	10000	5411
14,4	221	2,0	97,29	BA73	71B4	10000	5500



### 0,37 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
11,6	273	1,6	120,34	<b>BA73</b>	71B4	10000	5500
9,4	340	1,3	149,73	<b>BA73</b>	71B4	10000	5500
7,8	409	1,1	180,23	<b>BA73</b>	71B4	10000	5500
20,2	157	3,8	69,16	<b>B063</b>	71B4	12000	5239
18,1	176	3,4	77,48	<b>B063</b>	71B4	12000	5425
15,5	205	2,9	90,33	<b>B063</b>	71B4	12000	5684
13,8	230	2,6	101,20	<b>B063</b>	71B4	12000	5882
12,5	254	2,4	111,74	<b>B063</b>	71B4	12000	6058
11,3	282	2,1	124,20	<b>B063</b>	71B4	12000	6251
10,1	316	1,9	139,15	<b>B063</b>	71B4	12000	6463
8,9	358	1,7	157,42	<b>B063</b>	71B4	12000	6697

### 0,55 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
183,8	27	3,3	7,62	<b>BA42</b>	71C4/80A4	-	1814
131,8	38	2,4	10,62	<b>BA42</b>	71C4/80A4	-	2027
108,1	46	2,0	12,95	<b>BA42</b>	71C4/80A4	-	2165
96,8	52	1,7	14,46	<b>BA42</b>	71C4/80A4	-	2246
85,0	59	2,0	16,47	<b>BA42</b>	71C4/80A4	-	2346
60,9	82	1,5	22,97	<b>BA42</b>	71C4/80A4	-	2621
50,0	100	1,2	28,00	<b>BA42</b>	71C4/80A4	-	2800
44,8	111	1,1	31,27	<b>BA42</b>	71C4/80A4	-	2905
41,4	120	1,0	33,78	<b>BA42</b>	71C4/80A4	-	2981
121,0	41	3,9	11,57	<b>BA52</b>	71C4/80A4	-	2235
95,7	52	3,1	14,63	<b>BA52</b>	71C4/80A4	-	2416
81,8	61	3,3	17,11	<b>BA52</b>	71C4/80A4	-	2546
68,4	73	2,7	20,46	<b>BA52</b>	71C4/80A4	-	2702
55,9	89	2,2	25,03	<b>BA52</b>	71C4/80A4	-	2890
44,3	113	1,8	31,63	<b>BA52</b>	71C4/80A4	-	3124
39,9	125	1,6	35,10	<b>BA52</b>	71C4/80A4	-	3235
33,4	150	1,3	41,97	<b>BA52</b>	71C4/80A4	-	3433
27,3	183	1,2	51,34	<b>BA52</b>	71C4/80A4	-	3672
42,4	118	3,6	33,04	<b>BA72</b>	80A4	8031	4016
34,3	146	2,7	40,87	<b>BA72</b>	80A4	8621	4311
30,7	163	2,2	45,64	<b>BA72</b>	80A4	8944	4472
25,5	196	1,8	54,94	<b>BA72</b>	80A4	9515	4757
20,6	242	1,4	67,96	<b>BA72</b>	80A4	10000	5107
31,9	148	3,0	43,89	<b>BA73</b>	71C4/80A4	8828	4414
26,5	178	2,5	52,83	<b>BA73</b>	71C4/80A4	9391	4696
21,4	221	2,0	65,35	<b>BA73</b>	71C4/80A4	10000	5041
17,3	273	1,6	80,83	<b>BA73</b>	71C4/80A4	10000	5411
14,4	329	1,4	97,29	<b>BA73</b>	71C4/80A4	10000	5500
11,6	406	1,1	120,34	<b>BA73</b>	71C4/80A4	10000	5500
27,6	172	3,5	50,81	<b>B063</b>	71C4/80A4	12000	4689
24,6	192	3,1	56,93	<b>B063</b>	71C4/80A4	12000	4852
20,2	234	2,6	69,16	<b>B063</b>	71C4/80A4	12000	5141
18,1	262	2,3	77,48	<b>B063</b>	71C4/80A4	12000	5315
15,5	305	2,0	90,33	<b>B063</b>	71C4/80A4	12000	5555
13,8	342	1,8	101,20	<b>B063</b>	71C4/80A4	12000	5738
12,5	377	1,6	111,74	<b>B063</b>	71C4/80A4	12000	5899
11,3	419	1,4	124,20	<b>B063</b>	71C4/80A4	12000	6074
10,1	470	1,3	139,15	<b>B063</b>	71C4/80A4	12000	6264
8,9	532	1,1	157,42	<b>B063</b>	71C4/80A4	12000	6473
22,0	215	3,9	63,74	<b>B083</b>	80A4	18000	7772

HA / H



BA / B

S



PBH series

Electric Motor



**0,55 kW**

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
20,2	233	3,6	69,14	<b>B083</b>	80A4	18000	7971
19,1	247	3,4	73,14	<b>B083</b>	80A4	18000	8112
17,3	273	3,1	80,76	<b>B083</b>	80A4	18000	8364
15,2	311	2,7	92,19	<b>B083</b>	80A4	18000	8711
13,9	340	2,5	100,57	<b>B083</b>	80A4	18000	8945
13,3	356	2,4	105,29	<b>B083</b>	80A4	18000	9070
12,0	393	2,2	116,25	<b>B083</b>	80A4	18000	9346
11,0	428	2,0	126,76	<b>B083</b>	80A4	18000	9592
9,7	489	1,7	144,77	<b>B083</b>	80A4	18000	9978
9,7	489	3,7	144,69	<b>B103</b>	80A4	22000	12349
8,5	558	3,2	165,25	<b>B103</b>	80A4	22000	12869



**0,75 kW**

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
183,8	37	2,4	7,62	<b>BA42</b>	80B4	-	1814
131,8	52	1,7	10,62	<b>BA42</b>	80B4	-	2027
108,1	63	1,4	12,95	<b>BA42</b>	80B4	-	2165
96,8	70	1,3	14,46	<b>BA42</b>	80B4	-	2246
85,0	80	1,5	16,47	<b>BA42</b>	80B4	-	2346
60,9	112	1,1	22,97	<b>BA42</b>	80B4	-	2621
148,0	46	3,5	9,46	<b>BA52</b>	80B4	-	2090
121,0	56	2,8	11,57	<b>BA52</b>	80B4	-	2235
95,7	71	2,3	14,63	<b>BA52</b>	80B4	-	2416
81,8	83	2,4	17,11	<b>BA52</b>	80B4	-	2546
68,4	99	2,0	20,46	<b>BA52</b>	80B4	-	2702
55,9	122	1,6	25,03	<b>BA52</b>	80B4	-	2890
44,3	154	1,3	31,63	<b>BA52</b>	80B4	-	3124
39,9	171	1,2	35,10	<b>BA52</b>	80B4	-	3235
33,4	204	1,0	41,97	<b>BA52</b>	80B4	-	3433
27,3	250	0,9	51,34	<b>BA52</b>	80B4	-	3672
51,0	133	3,1	27,45	<b>BA72</b>	80B4	7550	3775
42,4	161	2,6	33,04	<b>BA72</b>	80B4	8031	4016
34,3	199	2,0	40,87	<b>BA72</b>	80B4	8621	4311
30,7	222	1,6	45,64	<b>BA72</b>	80B4	8944	4472
25,5	267	1,3	54,94	<b>BA72</b>	80B4	9515	4757
20,6	330	1,1	67,96	<b>BA72</b>	80B4	10000	5107
31,9	202	2,2	43,89	<b>BA73</b>	80B4	8828	4414
26,5	243	1,8	52,83	<b>BA73</b>	80B4	9391	4696
21,4	301	1,5	65,35	<b>BA73</b>	80B4	10000	5041
17,3	372	1,2	80,83	<b>BA73</b>	80B4	10000	5411
14,4	448	1,0	97,29	<b>BA73</b>	80B4	10000	5500
41,9	154	3,9	33,43	<b>B063</b>	80B4	12000	4072
36,3	178	3,4	38,58	<b>B063</b>	80B4	12000	4251
32,4	199	3,0	43,22	<b>B063</b>	80B4	12000	4396
27,6	234	2,6	50,81	<b>B063</b>	80B4	12000	4609
24,6	262	2,3	56,93	<b>B063</b>	80B4	12000	4762
20,2	318	1,9	69,16	<b>B063</b>	80B4	12000	5031
18,1	357	1,7	77,48	<b>B063</b>	80B4	12000	5192
15,5	416	1,4	90,33	<b>B063</b>	80B4	12000	5412
13,8	466	1,3	101,20	<b>B063</b>	80B4	12000	5577
12,5	515	1,2	111,74	<b>B063</b>	80B4	12000	5722
11,3	572	1,0	124,20	<b>B063</b>	80B4	12000	5877
10,1	641	0,9	139,15	<b>B063</b>	80B4	12000	6044
10,0	653	1,0	90,33	<b>B063</b>	80C6	12000	6050



### 0,75 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
27,4	236	3,6	51,19	<b>B083</b>	80B4	18000	7183
25,2	256	3,3	55,52	<b>B083</b>	80B4	18000	7365
23,4	276	3,1	59,96	<b>B083</b>	80B4	18000	7540
22,0	293	2,9	63,74	<b>B083</b>	80B4	18000	7682
20,2	318	2,7	69,14	<b>B083</b>	80B4	18000	7873
19,1	337	2,5	73,14	<b>B083</b>	80B4	18000	8008
17,3	372	2,3	80,76	<b>B083</b>	80B4	18000	8249
15,2	424	2,0	92,19	<b>B083</b>	80B4	18000	8580
13,9	463	1,8	100,57	<b>B083</b>	80B4	18000	8802
13,3	485	1,8	105,29	<b>B083</b>	80B4	18000	8921
12,0	535	1,6	116,25	<b>B083</b>	80B4	18000	9181
11,0	584	1,5	126,76	<b>B083</b>	80B4	18000	9412
9,7	667	1,3	144,77	<b>B083</b>	80B4	18000	9773
13,3	486	3,7	105,44	<b>B103</b>	80B4	22000	11075
12,2	529	3,4	114,80	<b>B103</b>	80B4	22000	11370
11,6	554	3,2	120,42	<b>B103</b>	80B4	22000	11538
10,5	612	2,9	132,87	<b>B103</b>	80B4	22000	11891
9,7	666	2,7	144,69	<b>B103</b>	80B4	22000	12203
8,5	761	2,4	165,25	<b>B103</b>	80B4	22000	12703



### 1,5 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
176,9	77	2,1	7,91	<b>BA52</b>	90LA4	-	1969
148,0	92	1,7	9,46	<b>BA52</b>	90LA4	-	2090
121,0	113	1,4	11,57	<b>BA52</b>	90LA4	-	2235
95,7	142	1,1	14,63	<b>BA52</b>	90LA4	-	2416
81,8	166	1,2	17,11	<b>BA52</b>	90LA4	-	2546
68,4	199	1,0	20,46	<b>BA52</b>	90LA4	-	2702
139,2	98	3,6	10,06	<b>BA72</b>	90LA4	5403	2701
112,5	121	2,9	12,44	<b>BA72</b>	90LA4	5800	2900
93,9	145	2,9	14,91	<b>BA72</b>	90LA4	6160	3080
78,0	174	2,4	17,94	<b>BA72</b>	90LA4	6552	3276
63,1	216	1,9	22,19	<b>BA72</b>	90LA4	7033	3517
51,0	267	1,6	27,45	<b>BA72</b>	90LA4	7550	3775
42,4	321	1,3	33,04	<b>BA72</b>	90LA4	8031	4016
34,3	397	1,0	40,87	<b>BA72</b>	90LA4	8621	4311
31,9	404	1,1	43,89	<b>BA73</b>	90LA4	8828	4414
26,5	487	0,9	52,83	<b>BA73</b>	90LA4	9391	4696
82,3	157	3,8	17,00	<b>B063</b>	90LA4	11225	3207
62,5	206	2,9	22,39	<b>B063</b>	90LA4	12000	3471
53,7	240	2,5	26,09	<b>B063</b>	90LA4	12000	3622
49,9	258	2,3	28,03	<b>B063</b>	90LA4	12000	3695
41,9	308	1,9	33,43	<b>B063</b>	90LA4	12000	3874
36,3	355	1,7	38,58	<b>B063</b>	90LA4	12000	4022
32,4	398	1,5	43,22	<b>B063</b>	90LA4	12000	4139
27,6	468	1,3	50,81	<b>B063</b>	90LA4	12000	4307
24,6	524	1,1	56,93	<b>B063</b>	90LA4	12000	4424
20,2	637	0,9	69,16	<b>B063</b>	90LA4	12000	4621
52,4	246	3,5	26,71	<b>B083</b>	90LA4	18000	5718
47,5	272	3,1	29,50	<b>B083</b>	90LA4	18000	5890
44,0	293	2,9	31,80	<b>B083</b>	90LA4	18000	6023
40,6	318	2,7	34,49	<b>B083</b>	90LA4	18000	6169



### 1,5 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
35,4	365	2,3	39,60	<b>B083</b>	90LA4	18000	6422
32,6	396	2,1	42,95	<b>B083</b>	90LA4	18000	6575
30,8	418	2,0	45,44	<b>B083</b>	90LA4	18000	6681
27,4	471	1,8	51,19	<b>B083</b>	90LA4	18000	6910
25,2	511	1,7	55,52	<b>B083</b>	90LA4	18000	7069
23,4	552	1,5	59,96	<b>B083</b>	90LA4	18000	7221
22,0	587	1,4	63,74	<b>B083</b>	90LA4	18000	7342
20,2	637	1,3	69,14	<b>B083</b>	90LA4	18000	7505
19,1	674	1,3	73,14	<b>B083</b>	90LA4	18000	7619
17,3	744	1,1	80,76	<b>B083</b>	90LA4	18000	7820
15,2	849	1,0	92,19	<b>B083</b>	90LA4	18000	8089
13,9	926	0,9	100,57	<b>B083</b>	90LA4	18000	8267
29,6	435	3,9	47,28	<b>B103</b>	90LA4	22000	8425
27,9	463	3,7	50,24	<b>B103</b>	90LA4	22000	8582
26,4	488	3,5	53,02	<b>B103</b>	90LA4	22000	8723
23,9	539	3,2	58,50	<b>B103</b>	90LA4	22000	8986
21,6	598	2,8	64,89	<b>B103</b>	90LA4	22000	9269
20,4	632	2,7	68,58	<b>B103</b>	90LA4	22000	9422
19,2	670	2,5	72,76	<b>B103</b>	90LA4	22000	9589
17,7	727	2,3	78,92	<b>B103</b>	90LA4	22000	9821
16,7	770	2,3	83,66	<b>B103</b>	90LA4	22000	9989
15,2	850	2,1	92,31	<b>B103</b>	90LA4	22000	10278
13,3	971	1,9	105,44	<b>B103</b>	90LA4	22000	10676
12,2	1057	1,7	114,80	<b>B103</b>	90LA4	22000	10935
11,6	1109	1,6	120,42	<b>B103</b>	90LA4	22000	11083
10,5	1224	1,5	132,87	<b>B103</b>	90LA4	22000	11388
9,7	1332	1,4	144,69	<b>B103</b>	90LA4	22000	11656
8,5	1522	1,2	165,25	<b>B103</b>	90LA4	22000	12078
13,1	982	3,6	106,65	<b>B123</b>	90LA4	30000	15024
11,7	1101	3,2	119,60	<b>B123</b>	90LA4	30000	15502
10,8	1197	2,9	129,96	<b>B123</b>	90LA4	30000	15853
9,7	1330	2,6	144,43	<b>B123</b>	90LA4	30000	16302
8,7	1476	2,4	160,23	<b>B123</b>	90LA4	30000	16746
7,8	1661	2,1	180,40	<b>B123</b>	90LA4	30000	17256



### 2,2 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
245,0	77	3,8	5,71	<b>B063</b>	100LA4	7948	2271
203,5	93	3,7	6,88	<b>B063</b>	100LA4	8406	2402
191,2	99	3,5	7,32	<b>B063</b>	100LA4	8564	2447
152,8	124	3,7	9,16	<b>B063</b>	100LA4	9151	2614
136,4	139	3,8	10,26	<b>B063</b>	100LA4	9458	2702
127,0	149	3,6	11,03	<b>B063</b>	100LA4	9656	2759
113,3	167	3,5	12,35	<b>B063</b>	100LA4	9974	2850
106,5	178	3,3	13,15	<b>B063</b>	100LA4	10151	2900
92,3	205	2,9	15,18	<b>B063</b>	100LA4	10563	3018
82,3	230	2,6	17,00	<b>B063</b>	100LA4	10895	3113
62,5	302	2,0	22,39	<b>B063</b>	100LA4	11714	3347
53,7	352	1,7	26,09	<b>B063</b>	100LA4	12000	3478
49,9	379	1,6	28,03	<b>B063</b>	100LA4	12000	3539
41,9	452	1,3	33,43	<b>B063</b>	100LA4	12000	3689
36,3	521	1,2	38,58	<b>B063</b>	100LA4	12000	3808
32,4	584	1,0	43,22	<b>B063</b>	100LA4	12000	3900



**2,2 kW**

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
84,4	224	3,8	16,60	<b>B083</b>	100LA4	17019	4863
76,4	247	3,4	18,32	<b>B083</b>	100LA4	17526	5008
61,4	308	2,8	22,82	<b>B083</b>	100LA4	18000	5339
52,4	361	2,4	26,71	<b>B083</b>	100LA4	18000	5585
47,5	398	2,1	29,50	<b>B083</b>	100LA4	18000	5743
44,0	429	2,0	31,80	<b>B083</b>	100LA4	18000	5865
40,6	466	1,8	34,49	<b>B083</b>	100LA4	18000	5998
35,4	535	1,6	39,60	<b>B083</b>	100LA4	18000	6226
32,6	580	1,5	42,95	<b>B083</b>	100LA4	18000	6361
30,8	614	1,4	45,44	<b>B083</b>	100LA4	18000	6456
27,4	691	1,2	51,19	<b>B083</b>	100LA4	18000	6656
25,2	750	1,1	55,52	<b>B083</b>	100LA4	18000	6793
23,4	810	1,0	59,96	<b>B083</b>	100LA4	18000	6923
22,0	861	1,0	63,74	<b>B083</b>	100LA4	18000	7026
20,2	934	0,9	69,14	<b>B083</b>	100LA4	18000	7162
45,8	413	3,9	30,55	<b>B103</b>	100LA4	22000	7254
42,3	447	3,8	33,07	<b>B103</b>	100LA4	22000	7429
39,0	484	3,5	35,87	<b>B103</b>	100LA4	22000	7612
34,0	555	3,1	41,12	<b>B103</b>	100LA4	22000	7927
31,4	603	2,8	44,61	<b>B103</b>	100LA4	22000	8119
29,6	639	2,7	47,28	<b>B103</b>	100LA4	22000	8258
27,9	679	2,5	50,24	<b>B103</b>	100LA4	22000	8404
26,4	716	2,4	53,02	<b>B103</b>	100LA4	22000	8536
23,9	790	2,2	58,50	<b>B103</b>	100LA4	22000	8779
21,6	876	1,9	64,89	<b>B103</b>	100LA4	22000	9040
20,4	926	1,8	68,58	<b>B103</b>	100LA4	22000	9180
19,2	983	1,7	72,76	<b>B103</b>	100LA4	22000	9332
17,7	1066	1,6	78,92	<b>B103</b>	100LA4	22000	9542
16,7	1130	1,6	83,66	<b>B103</b>	100LA4	22000	9694
15,2	1247	1,4	92,31	<b>B103</b>	100LA4	22000	9952
13,3	1424	1,3	105,44	<b>B103</b>	100LA4	22000	10304
12,2	1551	1,2	114,80	<b>B103</b>	100LA4	22000	10530
11,6	1626	1,1	120,42	<b>B103</b>	100LA4	22000	10657
10,5	1795	1,0	132,87	<b>B103</b>	100LA4	22000	10919
9,7	1954	0,9	144,69	<b>B103</b>	100LA4	22000	11145
23,6	802	4,0	59,36	<b>B123</b>	100LA4	30000	12366
22,4	845	3,9	62,59	<b>B123</b>	100LA4	30000	12548
20,2	938	3,5	69,43	<b>B123</b>	100LA4	30000	12907
18,8	1005	3,5	74,42	<b>B123</b>	100LA4	30000	13150
17,5	1081	3,2	80,04	<b>B123</b>	100LA4	30000	13405
15,6	1214	2,9	89,87	<b>B123</b>	100LA4	30000	13815
14,0	1347	2,6	99,70	<b>B123</b>	100LA4	30000	14183
13,1	1441	2,4	106,65	<b>B123</b>	100LA4	30000	14422
11,7	1615	2,2	119,60	<b>B123</b>	100LA4	30000	14827
10,8	1755	2,0	129,96	<b>B123</b>	100LA4	30000	15120
9,7	1951	1,8	144,43	<b>B123</b>	100LA4	30000	15487
8,7	2164	1,6	160,23	<b>B123</b>	100LA4	30000	15842
7,8	2437	1,4	180,40	<b>B123</b>	100LA4	30000	16238
14,9	1271	3,9	94,13	<b>B143</b>	100LA4	45000	45000
13,2	1429	3,5	105,83	<b>B143</b>	100LA4	45000	45000
12,5	1512	3,3	111,94	<b>B143</b>	100LA4	45000	45000
11,2	1683	3,0	124,62	<b>B143</b>	100LA4	45000	45000
10,3	1843	2,7	136,44	<b>B143</b>	100LA4	45000	45000
9,4	2020	2,5	149,59	<b>B143</b>	100LA4	45000	45000
8,4	2249	2,2	166,53	<b>B143</b>	100LA4	45000	45000
7,5	2529	2,0	187,24	<b>B143</b>	100LA4	45000	45000



3,0 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
167,5	162	2,2	8,36	BA72	100LB4	5079	2540
139,2	196	1,8	10,06	BA72	100LB4	5403	2701
112,5	242	1,4	12,44	BA72	100LB4	5800	2900
93,9	290	1,4	14,91	BA72	100LB4	6160	3080
78,0	349	1,2	17,94	BA72	100LB4	6552	3276
63,1	431	1,0	22,19	BA72	100LB4	7033	3517
245,0	105	2,8	5,71	B063	100LB4	7821	2235
203,5	127	2,7	6,88	B063	100LB4	8253	2358
191,2	135	2,6	7,32	B063	100LB4	8402	2401
152,8	169	2,7	9,16	B063	100LB4	8948	2556
136,4	189	2,8	10,26	B063	100LB4	9231	2637
127,0	203	2,7	11,03	B063	100LB4	9412	2689
113,3	228	2,5	12,35	B063	100LB4	9700	2771
106,5	242	2,4	13,15	B063	100LB4	9860	2817
92,3	279	2,1	15,18	B063	100LB4	10227	2922
82,3	313	1,9	17,00	B063	100LB4	10518	3005
62,5	412	1,5	22,39	B063	100LB4	11218	3205
53,7	481	1,2	26,09	B063	100LB4	11594	3313
49,9	516	1,2	28,03	B063	100LB4	11766	3362
41,9	616	1,0	33,43	B063	100LB4	12000	3477
179,3	144	3,5	7,81	B083	100LB4	13361	3817
162,4	159	3,8	8,62	B083	100LB4	13769	3934
133,4	193	3,4	10,49	B083	100LB4	14604	4173
120,8	213	3,5	11,59	B083	100LB4	15039	4297
97,0	266	3,0	14,43	B083	100LB4	16034	4581
84,4	306	2,8	16,60	B083	100LB4	16689	4768
76,4	337	2,5	18,32	B083	100LB4	17162	4903
61,4	420	2,0	22,82	B083	100LB4	18000	5209
52,4	492	1,7	26,71	B083	100LB4	18000	5434
47,5	543	1,6	29,50	B083	100LB4	18000	5576
44,0	586	1,5	31,80	B083	100LB4	18000	5684
40,6	635	1,3	34,49	B083	100LB4	18000	5802
35,4	729	1,2	39,60	B083	100LB4	18000	6001
32,6	791	1,1	42,95	B083	100LB4	18000	6117
30,8	837	1,0	45,44	B083	100LB4	18000	6198
27,4	943	0,9	51,19	B083	100LB4	18000	6366
73,5	351	4,0	19,06	B103	100LB4	21696	6199
59,1	436	3,2	23,70	B103	100LB4	22000	6618
52,8	488	3,1	26,51	B103	100LB4	22000	6841
45,8	563	2,8	30,55	B103	100LB4	22000	7131
42,3	609	2,8	33,07	B103	100LB4	22000	7295
39,0	661	2,6	35,87	B103	100LB4	22000	7467
34,0	757	2,2	41,12	B103	100LB4	22000	7761
31,4	822	2,1	44,61	B103	100LB4	22000	7939
29,6	871	2,0	47,28	B103	100LB4	22000	8067
27,9	925	1,8	50,24	B103	100LB4	22000	8202
26,4	977	1,7	53,02	B103	100LB4	22000	8322
23,9	1078	1,6	58,50	B103	100LB4	22000	8543
21,6	1195	1,4	64,89	B103	100LB4	22000	8778
20,4	1263	1,3	68,58	B103	100LB4	22000	8904
19,2	1340	1,3	72,76	B103	100LB4	22000	9038
17,7	1454	1,2	78,92	B103	100LB4	22000	9224
16,7	1541	1,2	83,66	B103	100LB4	22000	9356
15,2	1700	1,1	92,31	B103	100LB4	22000	9580
13,3	1942	0,9	105,44	B103	100LB4	22000	9879
34,5	746	3,8	40,53	B123	100LB4	30000	10836
31,2	827	3,6	44,89	B123	100LB4	30000	11140
28,1	917	3,5	49,80	B123	100LB4	30000	11452



### 3,0 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
25,8	1000	3,2	54,30	<b>B123</b>	100LB4	30000	11713
23,6	1093	2,9	59,36	<b>B123</b>	100LB4	30000	11983
22,4	1153	2,9	62,59	<b>B123</b>	100LB4	30000	12144
20,2	1279	2,6	69,43	<b>B123</b>	100LB4	30000	12460
18,8	1371	2,6	74,42	<b>B123</b>	100LB4	30000	12670
17,5	1474	2,4	80,04	<b>B123</b>	100LB4	30000	12889
15,6	1655	2,1	89,87	<b>B123</b>	100LB4	30000	13235
14,0	1836	1,9	99,70	<b>B123</b>	100LB4	30000	13540
13,1	1964	1,8	106,65	<b>B123</b>	100LB4	30000	13734
11,7	2203	1,6	119,60	<b>B123</b>	100LB4	30000	14056
10,8	2394	1,5	129,96	<b>B123</b>	100LB4	30000	14281
9,7	2660	1,3	144,43	<b>B123</b>	100LB4	30000	14555
8,7	2951	1,2	160,23	<b>B123</b>	100LB4	30000	14809
7,8	3323	1,1	180,40	<b>B123</b>	100LB4	30000	15074
19,9	1297	3,9	70,43	<b>B143</b>	100LB4	45000	45000
18,2	1420	3,5	77,12	<b>B143</b>	100LB4	45000	45000
16,4	1576	3,2	85,54	<b>B143</b>	100LB4	45000	45000
14,9	1734	2,9	94,13	<b>B143</b>	100LB4	45000	45000
13,2	1949	2,6	105,83	<b>B143</b>	100LB4	45000	45000
12,5	2062	2,4	111,94	<b>B143</b>	100LB4	45000	45000
11,2	2295	2,2	124,62	<b>B143</b>	100LB4	45000	45000
10,3	2513	2,0	136,44	<b>B143</b>	100LB4	45000	45000
9,4	2755	1,8	149,59	<b>B143</b>	100LB4	45000	45000
8,4	3067	1,6	166,53	<b>B143</b>	100LB4	45000	45000
7,5	3449	1,4	187,24	<b>B143</b>	100LB4	45000	45000

### 4,0 kW



n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
167,5	217	1,6	8,36	<b>BA72</b>	112MA4	5079	2540
139,2	261	1,3	10,06	<b>BA72</b>	112MA4	5403	2701
112,5	323	1,1	12,44	<b>BA72</b>	112MA4	5800	2900
93,9	386	1,1	14,91	<b>BA72</b>	112MA4	6160	3080
78,0	465	0,9	17,94	<b>BA72</b>	112MA4	6552	3276
245,0	140	2,1	5,71	<b>B063</b>	112MA4	7663	2189
203,5	169	2,0	6,88	<b>B063</b>	112MA4	8063	2304
191,2	180	1,9	7,32	<b>B063</b>	112MA4	8199	2343
152,8	225	2,0	9,16	<b>B063</b>	112MA4	8694	2484
136,4	252	2,1	10,26	<b>B063</b>	112MA4	8947	2556
92,3	373	1,6	15,18	<b>B063</b>	112MA4	9806	2802
82,3	418	1,4	17,00	<b>B063</b>	112MA4	10047	2871
62,5	550	1,1	22,39	<b>B063</b>	112MA4	10597	3028
53,7	641	0,9	26,09	<b>B063</b>	112MA4	10871	3106
179,3	192	2,6	7,81	<b>B083</b>	112MA4	13167	3762
162,4	212	2,8	8,62	<b>B083</b>	112MA4	13554	3873
133,4	258	2,5	10,49	<b>B083</b>	112MA4	14343	4098
120,8	285	2,6	11,59	<b>B083</b>	112MA4	14752	4215
97,0	354	2,3	14,43	<b>B083</b>	112MA4	15676	4479
84,4	408	2,1	16,60	<b>B083</b>	112MA4	16277	4651
76,4	450	1,9	18,32	<b>B083</b>	112MA4	16707	4773
61,4	560	1,5	22,82	<b>B083</b>	112MA4	17666	5047
52,4	656	1,3	26,71	<b>B083</b>	112MA4	18000	5244
47,5	724	1,2	29,50	<b>B083</b>	112MA4	18000	5367
44,0	781	1,1	31,80	<b>B083</b>	112MA4	18000	5459
40,6	847	1,0	34,49	<b>B083</b>	112MA4	18000	5557

### 4,0 kW



n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
128,2	268	3,7	10,92	B103	112MA4	18088	5168
116,2	296	3,4	12,05	B103	112MA4	18638	5325
93,4	368	3,3	14,99	B103	112MA4	19899	5686
81,1	424	3,3	17,27	B103	112MA4	20753	5929
73,5	468	3,0	19,06	B103	112MA4	21360	6103
59,1	582	2,4	23,70	B103	112MA4	22000	6498
52,8	651	2,3	26,51	B103	112MA4	22000	6707
45,8	750	2,1	30,55	B103	112MA4	22000	6976
42,3	812	2,1	33,07	B103	112MA4	22000	7128
39,0	881	1,9	35,87	B103	112MA4	22000	7286
34,0	1010	1,7	41,12	B103	112MA4	22000	7554
31,4	1095	1,6	44,61	B103	112MA4	22000	7714
29,6	1161	1,5	47,28	B103	112MA4	22000	7829
27,9	1234	1,4	50,24	B103	112MA4	22000	7948
26,4	1302	1,3	53,02	B103	112MA4	22000	8055
23,9	1437	1,2	58,50	B103	112MA4	22000	8248
21,6	1593	1,1	64,89	B103	112MA4	22000	8450
20,4	1684	1,0	68,58	B103	112MA4	22000	8558
19,2	1787	1,0	72,76	B103	112MA4	22000	8671
44,8	768	3,6	31,26	B123	112MA4	30000	9829
40,4	852	3,3	34,68	B123	112MA4	30000	10100
34,5	995	2,8	40,53	B123	112MA4	30000	10509
31,2	1102	2,7	44,89	B123	112MA4	30000	10778
28,1	1223	2,6	49,80	B123	112MA4	30000	11050
25,8	1333	2,4	54,30	B123	112MA4	30000	11275
23,6	1458	2,2	59,36	B123	112MA4	30000	11505
22,4	1537	2,1	62,59	B123	112MA4	30000	11640
20,2	1705	1,9	69,43	B123	112MA4	30000	11900
18,8	1827	1,9	74,42	B123	112MA4	30000	12070
17,5	1966	1,8	80,04	B123	112MA4	30000	12244
15,6	2207	1,6	89,87	B123	112MA4	30000	12510
14,0	2448	1,4	99,70	B123	112MA4	30000	12736
13,1	2619	1,3	106,65	B123	112MA4	30000	12874
11,7	2937	1,2	119,60	B123	112MA4	30000	13092
10,8	3191	1,1	129,96	B123	112MA4	30000	13234
9,7	3547	1,0	144,43	B123	112MA4	30000	13391
26,3	1305	3,8	53,16	B143	112MA4	42912	42912
25,6	1341	3,7	54,63	B143	112MA4	43217	43217
23,7	1449	3,5	59,02	B143	112MA4	44083	44083
21,6	1593	3,1	64,88	B143	112MA4	45000	45000
19,9	1730	2,9	70,43	B143	112MA4	45000	45000
18,2	1894	2,6	77,12	B143	112MA4	45000	45000
16,4	2101	2,4	85,54	B143	112MA4	45000	45000
14,9	2311	2,2	94,13	B143	112MA4	45000	45000
13,2	2599	1,9	105,83	B143	112MA4	45000	45000
12,5	2749	1,8	111,94	B143	112MA4	45000	45000
11,2	3060	1,6	124,62	B143	112MA4	45000	45000
10,3	3351	1,5	136,44	B143	112MA4	45000	45000
9,4	3674	1,4	149,59	B143	112MA4	45000	45000
8,4	4090	1,2	166,53	B143	112MA4	45000	45000
7,5	4598	1,1	187,24	B143	112MA4	45000	45000





### 5,5 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
179,3	264	1,9	7,81	<b>B083</b>	132S4	12876	3679
162,4	291	2,1	8,62	<b>B083</b>	132S4	13233	3781
133,4	354	1,8	10,49	<b>B083</b>	132S4	13953	3986
120,8	391	1,9	11,59	<b>B083</b>	132S4	14320	4091
97,0	487	1,7	14,43	<b>B083</b>	132S4	15138	4325
84,4	560	1,5	16,60	<b>B083</b>	132S4	15659	4474
76,4	619	1,4	18,32	<b>B083</b>	132S4	16024	4578
61,4	770	1,1	22,82	<b>B083</b>	132S4	16816	4805
52,4	902	0,9	26,71	<b>B083</b>	132S4	17359	4960
172,3	274	2,9	8,13	<b>B103</b>	132S4	16302	4658
156,1	303	3,0	8,97	<b>B103</b>	132S4	16790	4797
128,2	369	2,7	10,92	<b>B103</b>	132S4	17799	5086
116,2	407	2,5	12,05	<b>B103</b>	132S4	18318	5234
93,4	506	2,4	14,99	<b>B103</b>	132S4	19503	5572
81,1	583	2,4	17,27	<b>B103</b>	132S4	20296	5799
73,5	643	2,2	19,06	<b>B103</b>	132S4	20855	5959
59,1	800	1,7	23,70	<b>B103</b>	132S4	22000	6319
52,8	895	1,7	26,51	<b>B103</b>	132S4	22000	6507
45,8	1032	1,6	30,55	<b>B103</b>	132S4	22000	6745
42,3	1117	1,5	33,07	<b>B103</b>	132S4	22000	6878
39,0	1211	1,4	35,87	<b>B103</b>	132S4	22000	7015
34,0	1389	1,2	41,12	<b>B103</b>	132S4	22000	7242
31,4	1506	1,1	44,61	<b>B103</b>	132S4	22000	7376
29,6	1597	1,1	47,28	<b>B103</b>	132S4	22000	7471
27,9	1696	1,0	50,24	<b>B103</b>	132S4	22000	7568
26,4	1790	0,9	53,02	<b>B103</b>	132S4	22000	7653
75,4	627	3,5	18,58	<b>B123</b>	132S4	29004	8287
67,9	696	3,6	20,61	<b>B123</b>	132S4	29811	8518
61,5	769	3,6	22,78	<b>B123</b>	132S4	30000	8742
54,1	874	3,2	25,89	<b>B123</b>	132S4	30000	9029
50,9	929	3,0	27,51	<b>B123</b>	132S4	30000	9165
45,5	1040	2,7	30,79	<b>B123</b>	132S4	30000	9417
44,8	1056	2,7	31,26	<b>B123</b>	132S4	30000	9451
40,4	1171	2,4	34,68	<b>B123</b>	132S4	30000	9681
34,5	1369	2,0	40,53	<b>B123</b>	132S4	30000	10019
31,2	1516	2,0	44,89	<b>B123</b>	132S4	30000	10235
28,1	1682	1,9	49,80	<b>B123</b>	132S4	30000	10448
25,8	1833	1,7	54,30	<b>B123</b>	132S4	30000	10619
23,6	2004	1,6	59,36	<b>B123</b>	132S4	30000	10787
22,4	2113	1,6	62,59	<b>B123</b>	132S4	30000	10883
20,2	2344	1,4	69,43	<b>B123</b>	132S4	30000	11060
18,8	2513	1,4	74,42	<b>B123</b>	132S4	30000	11170
17,5	2703	1,3	80,04	<b>B123</b>	132S4	30000	11276
15,6	3034	1,2	89,87	<b>B123</b>	132S4	30000	11424
14,0	3366	1,0	99,70	<b>B123</b>	132S4	30000	11530
13,1	3601	1,0	106,65	<b>B123</b>	132S4	30000	11584
38,2	1238	3,9	36,67	<b>B143</b>	132S4	37613	37613
34,7	1360	3,5	40,29	<b>B143</b>	132S4	38514	38514
31,7	1491	3,2	44,16	<b>B143</b>	132S4	39393	39393
29,0	1633	3,1	48,35	<b>B143</b>	132S4	40257	40257
26,3	1795	2,8	53,16	<b>B143</b>	132S4	41155	41155
25,6	1845	2,7	54,63	<b>B143</b>	132S4	41411	41411
23,7	1993	2,5	59,02	<b>B143</b>	132S4	42133	42133
21,6	2191	2,3	64,88	<b>B143</b>	132S4	43004	43004
19,9	2378	2,1	70,43	<b>B143</b>	132S4	43742	43742
18,2	2604	1,9	77,12	<b>B143</b>	132S4	44536	44536



### 5,5 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
16,4	2888	1,7	85,54	B143	132S4	45000	45000
14,9	3178	1,6	94,13	B143	132S4	45000	45000
13,2	3573	1,4	105,83	B143	132S4	45000	45000
12,5	3780	1,3	111,94	B143	132S4	45000	45000
11,2	4208	1,2	124,62	B143	132S4	45000	45000
10,3	4607	1,1	136,44	B143	132S4	45000	45000
9,4	5051	1,0	149,59	B143	132S4	45000	45000
23,0	2057	3,9	60,92	B153	132S4	65000	65000
22,1	2143	3,7	63,47	B153	132S4	65000	65000
19,7	2402	3,3	71,15	B153	132S4	65000	65000
18,1	2607	3,1	77,22	B153	132S4	65000	65000
16,7	2833	2,8	83,89	B153	132S4	65000	65000
16,0	2960	2,7	87,65	B153	132S4	65000	65000
15,0	3142	2,5	93,05	B153	132S4	65000	65000
13,6	3482	2,3	103,12	B153	132S4	65000	65000
11,3	4183	1,9	123,88	B153	132S4	65000	65000
10,4	4534	1,8	134,27	B153	132S4	65000	65000
9,4	5040	1,6	149,26	B153	132S4	65000	65000
8,5	5585	1,4	165,42	B153	132S4	65000	65000



### 7,5 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
179,3	360	1,4	7,81	B083	132MA4	12488	3568
162,4	397	1,5	8,62	B083	132MA4	12805	3659
133,4	483	1,3	10,49	B083	132MA4	13431	3837
120,8	534	1,4	11,59	B083	132MA4	13744	3927
97,0	664	1,2	14,43	B083	132MA4	14421	4120
84,4	764	1,1	16,60	B083	132MA4	14834	4238
76,4	844	1,0	18,32	B083	132MA4	15114	4318
172,3	374	2,1	8,13	B103	132MA4	16015	4576
156,1	413	2,2	8,97	B103	132MA4	16473	4707
128,2	503	2,0	10,92	B103	132MA4	17414	4975
116,2	555	1,8	12,05	B103	132MA4	17893	5112
93,4	690	1,7	14,99	B103	132MA4	18974	5421
81,1	795	1,8	17,27	B103	132MA4	19686	5625
73,5	877	1,6	19,06	B103	132MA4	20182	5766
59,1	1091	1,3	23,70	B103	132MA4	21279	6080
52,8	1221	1,2	26,51	B103	132MA4	21837	6239
45,8	1407	1,1	30,55	B103	132MA4	22000	6437
42,3	1523	1,1	33,07	B103	132MA4	22000	6545
39,0	1652	1,0	35,87	B103	132MA4	22000	6653
112,2	575	3,5	12,48	B123	132MA4	25286	7225
101,1	637	3,3	13,84	B123	132MA4	25981	7423
91,0	708	3,0	15,38	B123	132MA4	26688	7625
75,4	855	2,6	18,58	B123	132MA4	27956	7987
67,9	949	2,6	20,61	B123	132MA4	28648	8185
61,5	1049	2,7	22,78	B123	132MA4	29310	8374
54,1	1192	2,3	25,89	B123	132MA4	30000	8611
50,9	1267	2,2	27,51	B123	132MA4	30000	8721
45,5	1418	2,0	30,79	B123	132MA4	30000	8920
44,8	1440	1,9	31,26	B123	132MA4	30000	8947
40,4	1597	1,8	34,68	B123	132MA4	30000	9121
34,5	1866	1,5	40,53	B123	132MA4	30000	9366
31,2	2067	1,5	44,89	B123	132MA4	30000	9511



### 7,5 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
28,1	2293	1,4	49,80	<b>B123</b>	132MA4	30000	9645
25,8	2500	1,3	54,30	<b>B123</b>	132MA4	30000	9743
23,6	2733	1,2	59,36	<b>B123</b>	132MA4	30000	9830
22,4	2882	1,1	62,59	<b>B123</b>	132MA4	30000	9874
20,2	3197	1,0	69,43	<b>B123</b>	132MA4	30000	9940
18,8	3426	1,0	74,42	<b>B123</b>	132MA4	30000	9970
17,5	3685	0,9	80,04	<b>B123</b>	132MA4	30000	9985
54,6	1180	3,9	25,63	<b>B143</b>	132MA4	33087	33087
51,0	1264	3,6	27,44	<b>B143</b>	132MA4	33647	33647
46,6	1383	3,4	30,05	<b>B143</b>	132MA4	34388	34388
42,4	1520	3,1	33,01	<b>B143</b>	132MA4	35152	35152
38,2	1689	2,8	36,67	<b>B143</b>	132MA4	35997	35997
34,7	1855	2,6	40,29	<b>B143</b>	132MA4	36739	36739
31,7	2033	2,4	44,16	<b>B143</b>	132MA4	37447	37447
29,0	2226	2,2	48,35	<b>B143</b>	132MA4	38127	38127
26,3	2448	2,0	53,16	<b>B143</b>	132MA4	38813	38813
25,6	2515	2,0	54,63	<b>B143</b>	132MA4	39004	39004
23,7	2717	1,8	59,02	<b>B143</b>	132MA4	39532	39532
21,6	2987	1,7	64,88	<b>B143</b>	132MA4	40145	40145
19,9	3243	1,5	70,43	<b>B143</b>	132MA4	40639	40639
18,2	3551	1,4	77,12	<b>B143</b>	132MA4	41138	41138
16,4	3939	1,3	85,54	<b>B143</b>	132MA4	41641	41641
14,9	4334	1,2	94,13	<b>B143</b>	132MA4	42028	42028
13,2	4873	1,0	105,83	<b>B143</b>	132MA4	42388	42388
12,5	5154	1,0	111,94	<b>B143</b>	132MA4	42510	42510
29,5	2189	3,7	47,53	<b>B153</b>	132MA4	61315	61315
27,7	2328	3,4	50,56	<b>B153</b>	132MA4	62453	62453
25,6	2516	3,2	54,64	<b>B153</b>	132MA4	63903	63903
24,4	2637	3,0	57,27	<b>B153</b>	132MA4	64794	64794
23,0	2805	2,9	60,92	<b>B153</b>	132MA4	65000	65000
22,1	2923	2,7	63,47	<b>B153</b>	132MA4	65000	65000
19,7	3276	2,4	71,15	<b>B153</b>	132MA4	65000	65000
18,1	3556	2,2	77,22	<b>B153</b>	132MA4	65000	65000
16,7	3863	2,1	83,89	<b>B153</b>	132MA4	65000	65000
16,0	4036	2,0	87,65	<b>B153</b>	132MA4	65000	65000
15,0	4284	1,9	93,05	<b>B153</b>	132MA4	65000	65000
13,6	4748	1,7	103,12	<b>B153</b>	132MA4	65000	65000
11,3	5704	1,4	123,88	<b>B153</b>	132MA4	65000	65000
10,4	6182	1,3	134,27	<b>B153</b>	132MA4	65000	65000
9,4	6873	1,2	149,26	<b>B153</b>	132MA4	65000	65000
8,5	7616	1,1	165,42	<b>B153</b>	132MA4	65000	65000



### 9,2 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
179,3	441	1,1	7,81	<b>B083</b>	132MB4	12158	3474
162,4	487	1,2	8,62	<b>B083</b>	132MB4	12441	3555
133,4	593	1,1	10,49	<b>B083</b>	132MB4	12988	3711
120,8	654	1,1	11,59	<b>B083</b>	132MB4	13255	3787
97,0	815	1,0	14,43	<b>B083</b>	132MB4	13812	3946
84,4	937	0,9	16,60	<b>B083</b>	132MB4	14134	4038
172,3	459	1,7	8,13	<b>B103</b>	132MB4	15771	4506
156,1	506	1,8	8,97	<b>B103</b>	132MB4	16204	4630
128,2	617	1,6	10,92	<b>B103</b>	132MB4	17086	4882
116,2	681	1,5	12,05	<b>B103</b>	132MB4	17531	5009



9,2 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
93,4	846	1,4	14,99	B103	132MB4	18524	5293
81,1	975	1,4	17,27	B103	132MB4	19168	5476
73,5	1076	1,3	19,06	B103	132MB4	19610	5603
59,1	1339	1,0	23,70	B103	132MB4	20568	5877
52,8	1498	1,0	26,51	B103	132MB4	21042	6012
45,8	1726	0,9	30,55	B103	132MB4	21613	6175
42,3	1868	0,9	33,07	B103	132MB4	21914	6261
175,8	450	3,3	7,97	B123	132MB4	21978	6279
145,5	543	3,3	9,62	B123	132MB4	23109	6603
135,5	584	3,4	10,33	B123	132MB4	23543	6726
112,2	705	2,8	12,48	B123	132MB4	24688	7054
101,1	782	2,7	13,84	B123	132MB4	25316	7233
91,0	869	2,4	15,38	B123	132MB4	25950	7414
75,4	1049	2,1	18,58	B123	132MB4	27064	7733
67,9	1164	2,1	20,61	B123	132MB4	27660	7903
61,5	1287	2,2	22,78	B123	132MB4	28217	8062
54,1	1462	1,9	25,89	B123	132MB4	28897	8256
50,9	1554	1,8	27,51	B123	132MB4	29204	8344
45,5	1739	1,6	30,79	B123	132MB4	29744	8498
44,8	1766	1,6	31,26	B123	132MB4	29813	8518
40,4	1959	1,4	34,68	B123	132MB4	30000	8646
34,5	2289	1,2	40,53	B123	132MB4	30000	8810
31,2	2536	1,2	44,89	B123	132MB4	30000	8896
28,1	2813	1,1	49,80	B123	132MB4	30000	8962
25,8	3067	1,0	54,30	B123	132MB4	30000	8999
23,6	3353	1,0	59,36	B123	132MB4	30000	9016
22,4	3535	0,9	62,59	B123	132MB4	30000	9016
96,7	818	3,8	14,49	B143	132MB4	27921	27921
82,2	962	3,3	17,04	B143	132MB4	29121	29121
75,0	1054	3,4	18,66	B143	132MB4	29792	29792
66,7	1186	3,4	21,00	B143	132MB4	30666	30666
61,5	1286	3,4	22,77	B143	132MB4	31264	31264
54,6	1447	3,2	25,63	B143	132MB4	32127	32127
51,0	1550	3,0	27,44	B143	132MB4	32620	32620
46,6	1697	2,8	30,05	B143	132MB4	33263	33263
42,4	1864	2,5	33,01	B143	132MB4	33916	33916
38,2	2071	2,3	36,67	B143	132MB4	34623	34623
34,7	2276	2,1	40,29	B143	132MB4	35229	35229
31,7	2494	1,9	44,16	B143	132MB4	35792	35792
29,0	2731	1,8	48,35	B143	132MB4	36316	36316
26,3	3002	1,7	53,16	B143	132MB4	36821	36821
25,6	3085	1,6	54,63	B143	132MB4	36958	36958
23,7	3333	1,5	59,02	B143	132MB4	37322	37322
21,6	3665	1,4	64,88	B143	132MB4	37714	37714
19,9	3978	1,3	70,43	B143	132MB4	38000	38000
18,2	4356	1,1	77,12	B143	132MB4	38249	38249
16,4	4832	1,0	85,54	B143	132MB4	38436	38436
14,9	5316	0,9	94,13	B143	132MB4	38503	38503
33,1	2389	3,3	42,30	B153	132MB4	58558	58558
29,5	2685	3,0	47,53	B153	132MB4	60587	60587
27,7	2856	2,8	50,56	B153	132MB4	61679	61679
25,6	3086	2,6	54,64	B153	132MB4	63066	63066
24,4	3235	2,5	57,27	B153	132MB4	63917	63917
23,0	3441	2,3	60,92	B153	132MB4	65000	65000
22,1	3585	2,2	63,47	B153	132MB4	65000	65000
19,7	4018	2,0	71,15	B153	132MB4	65000	65000
18,1	4362	1,8	77,22	B153	132MB4	65000	65000
16,7	4738	1,7	83,89	B153	132MB4	65000	65000



### 9,2 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
16,0	4951	1,6	87,65	<b>B153</b>	132MB4	65000	65000
15,0	5255	1,5	93,05	<b>B153</b>	132MB4	65000	65000
13,6	5824	1,4	103,12	<b>B153</b>	132MB4	65000	65000
11,3	6997	1,1	123,88	<b>B153</b>	132MB4	65000	65000
10,4	7584	1,1	134,27	<b>B153</b>	132MB4	65000	65000
9,4	8431	0,9	149,26	<b>B153</b>	132MB4	65000	65000



### 11,0 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
179,3	527	0,9	7,81	<b>B083</b>	132MC4	11809	3374
162,4	582	1,0	8,62	<b>B083</b>	132MC4	12055	3444
133,4	709	0,9	10,49	<b>B083</b>	132MC4	12519	3577
120,8	783	1,0	11,59	<b>B083</b>	132MC4	12737	3639
172,3	549	1,5	8,13	<b>B103</b>	132MC4/160S4	15513	4432
156,1	606	1,5	8,97	<b>B103</b>	132MC4/160S4	15919	4548
128,2	738	1,4	10,92	<b>B103</b>	132MC4/160S4	16739	4783
116,2	814	1,2	12,05	<b>B103</b>	132MC4/160S4	17149	4900
93,4	1012	1,2	14,99	<b>B103</b>	132MC4/160S4	18048	5156
81,1	1166	1,2	17,27	<b>B103</b>	132MC4/160S4	18619	5320
73,5	1287	1,1	19,06	<b>B103</b>	132MC4/160S4	19005	5430
175,8	538	2,8	7,97	<b>B123</b>	132MC4/160S4	21573	6164
145,5	650	2,8	9,62	<b>B123</b>	132MC4/160S4	22621	6463
135,5	698	2,9	10,33	<b>B123</b>	132MC4/160S4	23018	6576
112,2	843	2,4	12,48	<b>B123</b>	132MC4/160S4	24054	6872
101,1	935	2,2	13,84	<b>B123</b>	132MC4/160S4	24613	7032
91,0	1039	2,0	15,38	<b>B123</b>	132MC4/160S4	25169	7191
75,4	1254	1,8	18,58	<b>B123</b>	132MC4/160S4	26121	7463
67,9	1392	1,8	20,61	<b>B123</b>	132MC4/160S4	26613	7604
61,5	1538	1,8	22,78	<b>B123</b>	132MC4/160S4	27060	7731
54,1	1748	1,6	25,89	<b>B123</b>	132MC4/160S4	27582	7881
50,9	1858	1,5	27,51	<b>B123</b>	132MC4/160S4	27807	7945
45,5	2080	1,3	30,79	<b>B123</b>	132MC4/160S4	28180	8051
44,8	2111	1,3	31,26	<b>B123</b>	132MC4/160S4	28225	8064
40,4	2342	1,2	34,68	<b>B123</b>	132MC4/160S4	28499	8143
34,5	2737	1,0	40,53	<b>B123</b>	132MC4/160S4	28777	8222
31,2	3032	1,0	44,89	<b>B123</b>	132MC4/160S4	28856	8245
28,1	3363	1,0	49,80	<b>B123</b>	132MC4/160S4	28839	8240
118,0	801	3,9	11,87	<b>B143</b>	132MC4/160S4	25998	25998
96,7	978	3,2	14,49	<b>B143</b>	132MC4/160S4	27347	27347
82,2	1151	2,8	17,04	<b>B143</b>	132MC4/160S4	28445	28445
75,0	1260	2,9	18,66	<b>B143</b>	132MC4/160S4	29052	29052
66,7	1418	2,8	21,00	<b>B143</b>	132MC4/160S4	29834	29834
61,5	1538	2,9	22,77	<b>B143</b>	132MC4/160S4	30361	30361
54,6	1731	2,7	25,63	<b>B143</b>	132MC4/160S4	31110	31110
51,0	1853	2,5	27,44	<b>B143</b>	132MC4/160S4	31531	31531
46,6	2029	2,3	30,05	<b>B143</b>	132MC4/160S4	32071	32071
42,4	2229	2,1	33,01	<b>B143</b>	132MC4/160S4	32607	32607
38,2	2477	1,9	36,67	<b>B143</b>	132MC4/160S4	33169	33169
34,7	2721	1,8	40,29	<b>B143</b>	132MC4/160S4	33632	33632
31,7	2982	1,6	44,16	<b>B143</b>	132MC4/160S4	34041	34041
29,0	3265	1,5	48,35	<b>B143</b>	132MC4/160S4	34398	34398
26,3	3590	1,4	53,16	<b>B143</b>	132MC4/160S4	34713	34713
25,6	3689	1,4	54,63	<b>B143</b>	132MC4/160S4	34792	34792



### 11,0 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
23,7	3985	1,3	59,02	<b>B143</b>	132MC4/160S4	34981	34981
21,6	4382	1,1	64,88	<b>B143</b>	132MC4/160S4	35141	35141
19,9	4757	1,1	70,43	<b>B143</b>	132MC4/160S4	35207	35207
18,2	5208	1,0	77,12	<b>B143</b>	132MC4/160S4	35191	35191
55,6	1701	4,0	25,19	<b>B153</b>	132MC4/160S4	49720	49720
46,1	2049	3,9	30,35	<b>B153</b>	132MC4/160S4	52556	52556
41,6	2271	3,5	33,63	<b>B153</b>	132MC4/160S4	54166	54166
33,1	2856	2,8	42,30	<b>B153</b>	132MC4/160S4	57873	57873
29,5	3210	2,5	47,53	<b>B153</b>	132MC4/160S4	59817	59817
27,7	3415	2,3	50,56	<b>B153</b>	132MC4/160S4	60859	60859
25,6	3690	2,2	54,64	<b>B153</b>	132MC4/160S4	62181	62181
24,4	3868	2,1	57,27	<b>B153</b>	132MC4/160S4	62988	62988
23,0	4114	1,9	60,92	<b>B153</b>	132MC4/160S4	64055	64055
22,1	4286	1,9	63,47	<b>B153</b>	132MC4/160S4	64767	64767
19,7	4805	1,7	71,15	<b>B153</b>	132MC4/160S4	65000	65000
18,1	5215	1,5	77,22	<b>B153</b>	132MC4/160S4	65000	65000
16,7	5665	1,4	83,89	<b>B153</b>	132MC4/160S4	65000	65000
16,0	5919	1,4	87,65	<b>B153</b>	132MC4/160S4	65000	65000
15,0	6284	1,3	93,05	<b>B153</b>	132MC4/160S4	65000	65000
13,6	6964	1,1	103,12	<b>B153</b>	132MC4/160S4	65000	65000
11,3	8366	1,0	123,88	<b>B153</b>	132MC4/160S4	65000	65000
40,0	2365	3,4	35,02	<b>B153</b>	160S4	54808	54808
36,1	2621	3,1	38,81	<b>B153</b>	160S4	56463	56463
31,0	3045	3,9	45,09	<b>B163</b>	160S4	80000	65000
27,5	3444	3,8	51,00	<b>B163</b>	160S4	80000	65000
26,1	3622	3,6	53,63	<b>B163</b>	160S4	80000	65000
23,7	3982	3,3	58,97	<b>B163</b>	160S4	80000	65000
20,1	4712	2,8	69,78	<b>B163</b>	160S4	80000	65000
18,2	5181	2,5	76,72	<b>B163</b>	160S4	80000	65000
16,0	5912	2,2	87,54	<b>B163</b>	160S4	80000	65000
14,5	6500	2,0	96,25	<b>B163</b>	160S4	80000	65000
13,5	7019	1,9	103,93	<b>B163</b>	160S4	80000	65000
12,3	7717	1,7	114,27	<b>B163</b>	160S4	80000	65000
11,1	8528	1,5	126,29	<b>B163</b>	160S4	80000	65000
10,1	9377	1,4	138,85	<b>B163</b>	160S4	80000	65000
9,0	10456	1,2	154,83	<b>B163</b>	160S4	80000	65000



### 15,0 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
172,3	748	1,1	8,13	<b>B103</b>	160L4	14939	4268
156,1	826	1,1	8,97	<b>B103</b>	160L4	15286	4367
128,2	1006	1,0	10,92	<b>B103</b>	160L4	15968	4562
116,2	1110	0,9	12,05	<b>B103</b>	160L4	16298	4656
175,8	734	2,0	7,97	<b>B123</b>	160L4	20674	5907
145,5	886	2,0	9,62	<b>B123</b>	160L4	21535	6153
135,5	952	2,1	10,33	<b>B123</b>	160L4	21851	6243
112,2	1149	1,7	12,48	<b>B123</b>	160L4	22645	6470
101,1	1275	1,6	13,84	<b>B123</b>	160L4	23050	6586
91,0	1417	1,5	15,38	<b>B123</b>	160L4	23433	6695
75,4	1711	1,3	18,58	<b>B123</b>	160L4	24024	6864
67,9	1898	1,3	20,61	<b>B123</b>	160L4	24287	6939
61,5	2098	1,3	22,78	<b>B123</b>	160L4	24489	6997
54,1	2384	1,2	25,89	<b>B123</b>	160L4	24660	7046



### 15,0 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
50,9	2533	1,1	27,51	<b>B123</b>	160L4	24702	7058
45,5	2836	1,0	30,79	<b>B123</b>	160L4	24704	7058
44,8	2879	1,0	31,26	<b>B123</b>	160L4	24696	7056
129,2	998	3,0	10,84	<b>B143</b>	160L4	24433	24433
118,0	1093	2,8	11,87	<b>B143</b>	160L4	24952	24952
96,7	1334	2,3	14,49	<b>B143</b>	160L4	26070	26070
82,2	1569	2,0	17,04	<b>B143</b>	160L4	26943	26943
75,0	1718	2,1	18,66	<b>B143</b>	160L4	27408	27408
66,7	1934	2,1	21,00	<b>B143</b>	160L4	27983	27983
61,5	2097	2,1	22,77	<b>B143</b>	160L4	28354	28354
54,6	2360	1,9	25,63	<b>B143</b>	160L4	28852	28852
51,0	2527	1,8	27,44	<b>B143</b>	160L4	29113	29113
46,6	2767	1,7	30,05	<b>B143</b>	160L4	29423	29423
42,4	3040	1,5	33,01	<b>B143</b>	160L4	29697	29697
38,2	3377	1,4	36,67	<b>B143</b>	160L4	29937	29937
34,7	3710	1,3	40,29	<b>B143</b>	160L4	30081	30081
31,7	4067	1,2	44,16	<b>B143</b>	160L4	30149	30149
29,0	4453	1,1	48,35	<b>B143</b>	160L4	30137	30137
26,3	4895	1,0	53,16	<b>B143</b>	160L4	30028	30028
25,6	5031	1,0	54,63	<b>B143</b>	160L4	29977	29977
23,7	5435	0,9	59,02	<b>B143</b>	160L4	29780	29780
110,7	1164	3,9	12,64	<b>B153</b>	160L4	39788	39788
99,9	1290	3,9	14,01	<b>B153</b>	160L4	41049	41049
90,9	1418	3,5	15,40	<b>B153</b>	160L4	42237	42237
75,4	1709	3,5	18,56	<b>B153</b>	160L4	44652	44652
68,1	1894	3,4	20,56	<b>B153</b>	160L4	46024	46024
58,7	2197	3,0	23,86	<b>B153</b>	160L4	48057	48057
55,6	2319	2,9	25,19	<b>B153</b>	160L4	48812	48812
49,6	2600	3,1	28,23	<b>B153</b>	160L4	50425	50425
46,1	2795	2,9	30,35	<b>B153</b>	160L4	51462	51462
41,6	3097	2,6	33,63	<b>B153</b>	160L4	52955	52955
40,0	3225	2,5	35,02	<b>B153</b>	160L4	53546	53546
36,1	3574	2,2	38,81	<b>B153</b>	160L4	55065	55065
33,1	3895	2,1	42,30	<b>B153</b>	160L4	56349	56349
29,5	4377	1,8	47,53	<b>B153</b>	160L4	58104	58104
27,7	4656	1,7	50,56	<b>B153</b>	160L4	59038	59038
25,6	5032	1,6	54,64	<b>B153</b>	160L4	60212	60212
24,4	5274	1,5	57,27	<b>B153</b>	160L4	60925	60925
23,0	5610	1,4	60,92	<b>B153</b>	160L4	61861	61861
22,1	5845	1,4	63,47	<b>B153</b>	160L4	62480	62480
19,7	6552	1,2	71,15	<b>B153</b>	160L4	64199	64199
18,1	7111	1,1	77,22	<b>B153</b>	160L4	65000	65000
16,7	7725	1,0	83,89	<b>B153</b>	160L4	65000	65000
16,0	8072	1,0	87,65	<b>B153</b>	160L4	65000	65000
15,0	8569	0,9	93,05	<b>B153</b>	160L4	65000	65000
48,6	2652	3,8	28,80	<b>B163</b>	160L4	80000	65000
40,9	3154	3,8	34,25	<b>B163</b>	160L4	80000	65000
37,2	3468	3,5	37,66	<b>B163</b>	160L4	80000	65000
34,4	3744	3,4	40,65	<b>B163</b>	160L4	80000	65000
31,0	4152	2,9	45,09	<b>B163</b>	160L4	80000	65000
27,5	4697	2,8	51,00	<b>B163</b>	160L4	80000	65000
26,1	4939	2,6	53,63	<b>B163</b>	160L4	80000	65000
23,7	5430	2,4	58,97	<b>B163</b>	160L4	80000	65000
20,1	6426	2,0	69,78	<b>B163</b>	160L4	80000	65000
18,2	7065	1,8	76,72	<b>B163</b>	160L4	80000	65000
16,0	8061	1,6	87,54	<b>B163</b>	160L4	80000	65000
14,5	8863	1,5	96,25	<b>B163</b>	160L4	80000	65000
13,5	9571	1,4	103,93	<b>B163</b>	160L4	80000	65000

### 15,0 kW



n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
12,3	10523	1,2	114,27	<b>B163</b>	160L4	80000	65000
11,1	11630	1,1	126,29	<b>B163</b>	160L4	80000	65000
10,1	12787	1,0	138,85	<b>B163</b>	160L4	80000	65000
9,0	14258	0,9	154,83	<b>B163</b>	160L4	80000	65000

### 18,5 kW



n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
175,8	905	1,7	7,97	<b>B123</b>	180M4	19887	5682
145,5	1093	1,6	9,62	<b>B123</b>	180M4	20585	5881
135,5	1174	1,7	10,33	<b>B123</b>	180M4	20830	5952
112,2	1417	1,4	12,48	<b>B123</b>	180M4	21412	6118
101,1	1572	1,3	13,84	<b>B123</b>	180M4	21683	6195
91,0	1747	1,2	15,38	<b>B123</b>	180M4	21913	6261
75,4	2110	1,0	18,58	<b>B123</b>	180M4	22189	6340
67,9	2341	1,1	20,61	<b>B123</b>	180M4	22251	6358
61,5	2587	1,1	22,78	<b>B123</b>	180M4	22239	6354
54,1	2940	1,0	25,89	<b>B123</b>	180M4	22103	6315
129,2	1231	2,4	10,84	<b>B143</b>	180M4	23597	23597
118,0	1348	2,3	11,87	<b>B143</b>	180M4	24037	24037
96,7	1645	1,9	14,49	<b>B143</b>	180M4	24953	24953
82,2	1935	1,7	17,04	<b>B143</b>	180M4	25629	25629
75,0	2119	1,7	18,66	<b>B143</b>	180M4	25969	25969
66,7	2385	1,7	21,00	<b>B143</b>	180M4	26364	26364
61,5	2586	1,7	22,77	<b>B143</b>	180M4	26598	26598
54,6	2911	1,6	25,63	<b>B143</b>	180M4	26875	26875
51,0	3117	1,5	27,44	<b>B143</b>	180M4	26996	26996
46,6	3412	1,4	30,05	<b>B143</b>	180M4	27106	27106
42,4	3749	1,3	33,01	<b>B143</b>	180M4	27152	27152
38,2	4165	1,2	36,67	<b>B143</b>	180M4	27108	27108
34,7	4576	1,0	40,29	<b>B143</b>	180M4	26974	26974
31,7	5016	1,0	44,16	<b>B143</b>	180M4	26743	26743
29,0	5492	0,9	48,35	<b>B143</b>	180M4	26408	26408
133,4	1192	3,8	10,49	<b>B153</b>	180M4	37248	37248
110,7	1436	3,1	12,64	<b>B153</b>	180M4	39390	39390
99,9	1591	3,1	14,01	<b>B153</b>	180M4	40608	40608
90,9	1749	2,9	15,40	<b>B153</b>	180M4	41751	41751
75,4	2107	2,8	18,56	<b>B153</b>	180M4	44067	44067
68,1	2336	2,8	20,56	<b>B153</b>	180M4	45375	45375
58,7	2710	2,5	23,86	<b>B153</b>	180M4	47305	47305
55,6	2861	2,4	25,19	<b>B153</b>	180M4	48018	48018
49,6	3206	2,5	28,23	<b>B153</b>	180M4	49535	49535
46,1	3447	2,3	30,35	<b>B153</b>	180M4	50506	50506
41,6	3820	2,1	33,63	<b>B153</b>	180M4	51895	51895
40,0	3977	2,0	35,02	<b>B153</b>	180M4	52442	52442
36,1	4408	1,8	38,81	<b>B153</b>	180M4	53842	53842
33,1	4804	1,7	42,30	<b>B153</b>	180M4	55016	55016
29,5	5399	1,5	47,53	<b>B153</b>	180M4	56606	56606
27,7	5743	1,4	50,56	<b>B153</b>	180M4	57444	57444
25,6	6206	1,3	54,64	<b>B153</b>	180M4	58490	58490
24,4	6505	1,2	57,27	<b>B153</b>	180M4	59120	59120
23,0	6919	1,2	60,92	<b>B153</b>	180M4	59940	59940
22,1	7209	1,1	63,47	<b>B153</b>	180M4	60480	60480
19,7	8081	1,0	71,15	<b>B153</b>	180M4	61957	61957





### 18,5 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
18,1	8771	0,9	77,22	<b>B153</b>	180M4	62988	62988
57,9	2745	3,8	24,17	<b>B163</b>	180M4	75782	65000
52,7	3019	3,7	26,58	<b>B163</b>	180M4	77894	65000
48,6	3271	3,1	28,80	<b>B163</b>	180M4	79709	65000
45,3	3512	3,3	30,92	<b>B163</b>	180M4	80000	65000
40,9	3890	3,1	34,25	<b>B163</b>	180M4	80000	65000
37,2	4277	2,9	37,66	<b>B163</b>	180M4	80000	65000
34,4	4617	2,8	40,65	<b>B163</b>	180M4	80000	65000
31,0	5121	2,3	45,09	<b>B163</b>	180M4	80000	65000
27,5	5792	2,2	51,00	<b>B163</b>	180M4	80000	65000
26,1	6091	2,1	53,63	<b>B163</b>	180M4	80000	65000
23,7	6697	1,9	58,97	<b>B163</b>	180M4	80000	65000
20,1	7925	1,6	69,78	<b>B163</b>	180M4	80000	65000
18,2	8713	1,5	76,72	<b>B163</b>	180M4	80000	65000
16,0	9942	1,3	87,54	<b>B163</b>	180M4	80000	65000
14,5	10931	1,2	96,25	<b>B163</b>	180M4	80000	65000
13,5	11804	1,1	103,93	<b>B163</b>	180M4	80000	65000
12,3	12979	1,0	114,27	<b>B163</b>	180M4	80000	65000
11,1	14343	0,9	126,29	<b>B163</b>	180M4	80000	65000



### 22,0 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
175,8	1076	1,4	7,97	<b>B123</b>	180L4	19101	5457
145,5	1299	1,4	9,62	<b>B123</b>	180L4	19634	5610
135,5	1396	1,4	10,33	<b>B123</b>	180L4	19810	5660
112,2	1686	1,2	12,48	<b>B123</b>	180L4	20180	5766
101,1	1870	1,1	13,84	<b>B123</b>	180L4	20316	5804
91,0	2078	1,0	15,38	<b>B123</b>	180L4	20394	5827
61,5	3077	0,9	22,78	<b>B123</b>	180L4	19989	5711
129,2	1464	2,0	10,84	<b>B143</b>	180L4	22761	22761
118,0	1603	1,9	11,87	<b>B143</b>	180L4	23122	23122
96,7	1956	1,6	14,49	<b>B143</b>	180L4	23836	23836
82,2	2302	1,4	17,04	<b>B143</b>	180L4	24315	24315
75,0	2520	1,4	18,66	<b>B143</b>	180L4	24530	24530
66,7	2836	1,4	21,00	<b>B143</b>	180L4	24745	24745
61,5	3076	1,4	22,77	<b>B143</b>	180L4	24842	24842
54,6	3461	1,3	25,63	<b>B143</b>	180L4	24899	24899
51,0	3706	1,2	27,44	<b>B143</b>	180L4	24880	24880
46,6	4058	1,2	30,05	<b>B143</b>	180L4	24789	24789
42,4	4458	1,1	33,01	<b>B143</b>	180L4	24606	24606
38,2	4953	1,0	36,67	<b>B143</b>	180L4	24280	24280
133,4	1417	3,2	10,49	<b>B153</b>	180L4	36917	36917
110,7	1708	2,6	12,64	<b>B153</b>	180L4	38991	38991
99,9	1892	2,6	14,01	<b>B153</b>	180L4	40166	40166
90,9	2080	2,4	15,40	<b>B153</b>	180L4	41266	41266
75,4	2506	2,4	18,56	<b>B153</b>	180L4	43482	43482
68,1	2777	2,3	20,56	<b>B153</b>	180L4	44727	44727
58,7	3222	2,1	23,86	<b>B153</b>	180L4	46553	46553
55,6	3402	2,0	25,19	<b>B153</b>	180L4	47224	47224
49,6	3813	2,1	28,23	<b>B153</b>	180L4	48645	48645
46,1	4099	2,0	30,35	<b>B153</b>	180L4	49549	49549
41,6	4543	1,8	33,63	<b>B153</b>	180L4	50835	50835
40,0	4730	1,7	35,02	<b>B153</b>	180L4	51339	51339
36,1	5241	1,5	38,81	<b>B153</b>	180L4	52618	52618



### 22,0 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
33,1	5713	1,4	42,30	<b>B153</b>	180L4	53683	53683
29,5	6420	1,2	47,53	<b>B153</b>	180L4	55108	55108
27,7	6829	1,2	50,56	<b>B153</b>	180L4	55850	55850
25,6	7380	1,1	54,64	<b>B153</b>	180L4	56767	56767
24,4	7736	1,0	57,27	<b>B153</b>	180L4	57314	57314
23,0	8229	1,0	60,92	<b>B153</b>	180L4	58020	58020
22,1	8573	0,9	63,47	<b>B153</b>	180L4	58479	58479
70,2	2695	4,0	19,96	<b>B163</b>	180L4	70883	65000
63,8	2964	3,5	21,94	<b>B163</b>	180L4	72844	65000
57,9	3265	3,2	24,17	<b>B163</b>	180L4	74875	65000
52,7	3590	3,1	26,58	<b>B163</b>	180L4	76896	65000
48,6	3890	2,6	28,80	<b>B163</b>	180L4	78627	65000
45,3	4177	2,8	30,92	<b>B163</b>	180L4	80000	65000
40,9	4626	2,6	34,25	<b>B163</b>	180L4	80000	65000
37,2	5087	2,4	37,66	<b>B163</b>	180L4	80000	65000
34,4	5491	2,3	40,65	<b>B163</b>	180L4	80000	65000
31,0	6090	2,0	45,09	<b>B163</b>	180L4	80000	65000
27,5	6888	1,9	51,00	<b>B163</b>	180L4	80000	65000
26,1	7243	1,8	53,63	<b>B163</b>	180L4	80000	65000
23,7	7964	1,6	58,97	<b>B163</b>	180L4	80000	65000
20,1	9424	1,4	69,78	<b>B163</b>	180L4	80000	65000
18,2	10362	1,3	76,72	<b>B163</b>	180L4	80000	65000
16,0	11823	1,1	87,54	<b>B163</b>	180L4	80000	65000
14,5	12999	1,0	96,25	<b>B163</b>	180L4	80000	65000
13,5	14037	0,9	103,93	<b>B163</b>	180L4	80000	65000



### 30,0 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
129,2	1996	1,5	10,84	<b>B143</b>	200L4	20850	20850
118,0	2186	1,4	11,87	<b>B143</b>	200L4	21030	21030
96,7	2668	1,2	14,49	<b>B143</b>	200L4	21283	21283
82,2	3139	1,0	17,04	<b>B143</b>	200L4	21311	21311
75,0	3436	1,0	18,66	<b>B143</b>	200L4	21242	21242
66,7	3867	1,0	21,00	<b>B143</b>	200L4	21044	21044
61,5	4194	1,0	22,77	<b>B143</b>	200L4	20828	20828
54,6	4720	1,0	25,63	<b>B143</b>	200L4	20382	20382
51,0	5054	0,9	27,44	<b>B143</b>	200L4	20043	20043
133,4	1932	2,3	10,49	<b>B153</b>	200L4	36161	36161
110,7	2328	1,9	12,64	<b>B153</b>	200L4	38080	38080
99,9	2580	1,9	14,01	<b>B153</b>	200L4	39157	39157
90,9	2836	1,8	15,40	<b>B153</b>	200L4	40156	40156
75,4	3418	1,8	18,56	<b>B153</b>	200L4	42145	42145
68,1	3787	1,7	20,56	<b>B153</b>	200L4	43246	43246
58,7	4394	1,5	23,86	<b>B153</b>	200L4	44834	44834
55,6	4639	1,5	25,19	<b>B153</b>	200L4	45410	45410
49,6	5200	1,5	28,23	<b>B153</b>	200L4	46611	46611
46,1	5590	1,4	30,35	<b>B153</b>	200L4	47363	47363
41,6	6194	1,3	33,63	<b>B153</b>	200L4	48411	48411
40,0	6449	1,2	35,02	<b>B153</b>	200L4	48816	48816
36,1	7147	1,1	38,81	<b>B153</b>	200L4	49822	49822
33,1	7790	1,0	42,30	<b>B153</b>	200L4	50635	50635
29,5	8754	0,9	47,53	<b>B153</b>	200L4	51683	51683
117,9	2186	3,5	11,87	<b>B163</b>	200L4	59751	59751
109,3	2359	3,7	12,81	<b>B163</b>	200L4	61084	61084



### 30,0 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
99,4	2594	3,7	14,08	<b>B163</b>	200L4	62768	62768
90,2	2859	3,5	15,52	<b>B163</b>	200L4	64523	64523
85,4	3018	3,3	16,39	<b>B163</b>	200L4	65512	65000
77,7	3318	3,1	18,02	<b>B163</b>	200L4	67261	65000
70,2	3676	2,9	19,96	<b>B163</b>	200L4	69170	65000
63,8	4042	2,6	21,94	<b>B163</b>	200L4	70961	65000
57,9	4452	2,4	24,17	<b>B163</b>	200L4	72801	65000
52,7	4895	2,3	26,58	<b>B163</b>	200L4	74615	65000
48,6	5304	1,9	28,80	<b>B163</b>	200L4	76156	65000
45,3	5695	2,0	30,92	<b>B163</b>	200L4	77522	65000
40,9	6309	1,9	34,25	<b>B163</b>	200L4	79484	65000
37,2	6936	1,8	37,66	<b>B163</b>	200L4	80000	65000
34,4	7487	1,7	40,65	<b>B163</b>	200L4	80000	65000
31,0	8305	1,4	45,09	<b>B163</b>	200L4	80000	65000
27,5	9393	1,4	51,00	<b>B163</b>	200L4	80000	65000
26,1	9877	1,3	53,63	<b>B163</b>	200L4	80000	65000
23,7	10860	1,2	58,97	<b>B163</b>	200L4	80000	65000
20,1	12851	1,0	69,78	<b>B163</b>	200L4	80000	65000
18,2	14130	0,9	76,72	<b>B163</b>	200L4	80000	65000



### 37,0 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
133,4	2383	1,9	10,49	<b>B153</b>	225S4	35500	35500
110,7	2872	1,6	12,64	<b>B153</b>	225S4	37283	37283
99,9	3182	1,6	14,01	<b>B153</b>	225S4	38274	38274
90,9	3498	1,4	15,40	<b>B153</b>	225S4	39186	39186
75,4	4215	1,4	18,56	<b>B153</b>	225S4	40975	40975
68,1	4671	1,4	20,56	<b>B153</b>	225S4	41949	41949
58,7	5419	1,2	23,86	<b>B153</b>	225S4	43330	43330
55,6	5721	1,2	25,19	<b>B153</b>	225S4	43822	43822
49,6	6413	1,2	28,23	<b>B153</b>	225S4	44831	44831
46,1	6894	1,2	30,35	<b>B153</b>	225S4	45449	45449
41,6	7640	1,0	33,63	<b>B153</b>	225S4	46291	46291
40,0	7954	1,0	35,02	<b>B153</b>	225S4	46608	46608
36,1	8815	0,9	38,81	<b>B153</b>	225S4	47376	47376
157,4	2020	3,4	8,89	<b>B163</b>	225S4	54207	54207
132,4	2402	3,3	10,58	<b>B163</b>	225S4	56974	56974
117,9	2696	2,9	11,87	<b>B163</b>	225S4	58860	58860
109,3	2910	3,0	12,81	<b>B163</b>	225S4	60122	60122
99,4	3199	3,0	14,08	<b>B163</b>	225S4	61711	61711
90,2	3526	2,8	15,52	<b>B163</b>	225S4	63357	63357
85,4	3722	2,7	16,39	<b>B163</b>	225S4	64281	64281
77,7	4092	2,5	18,02	<b>B163</b>	225S4	65908	65000
70,2	4533	2,4	19,96	<b>B163</b>	225S4	67672	65000
63,8	4985	2,1	21,94	<b>B163</b>	225S4	69313	65000
57,9	5491	1,9	24,17	<b>B163</b>	225S4	70985	65000
52,7	6037	1,8	26,58	<b>B163</b>	225S4	72619	65000
48,6	6542	1,6	28,80	<b>B163</b>	225S4	73994	65000
45,3	7024	1,6	30,92	<b>B163</b>	225S4	75200	65000
40,9	7781	1,5	34,25	<b>B163</b>	225S4	76912	65000
37,2	8555	1,4	37,66	<b>B163</b>	225S4	78467	65000
34,4	9234	1,4	40,65	<b>B163</b>	225S4	79690	65000
31,0	10243	1,2	45,09	<b>B163</b>	225S4	80000	65000
27,5	11585	1,1	51,00	<b>B163</b>	225S4	80000	65000



### 37,0 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
26,1	12182	1,1	53,63	<b>B163</b>	225S4	80000	65000
23,7	13394	1,0	58,97	<b>B163</b>	225S4	80000	65000



### 45,0 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
133,4	2899	1,6	10,49	<b>B153</b>	225M4	34744	34744
110,7	3493	1,3	12,64	<b>B153</b>	225M4	36373	36373
99,9	3871	1,3	14,01	<b>B153</b>	225M4	37264	37264
90,9	4254	1,2	15,40	<b>B153</b>	225M4	38076	38076
75,4	5126	1,2	18,56	<b>B153</b>	225M4	39638	39638
68,1	5681	1,1	20,56	<b>B153</b>	225M4	40468	40468
58,7	6591	1,0	23,86	<b>B153</b>	225M4	41611	41611
55,6	6958	1,0	25,19	<b>B153</b>	225M4	42007	42007
49,6	7799	1,0	28,23	<b>B153</b>	225M4	42797	42797
46,1	8384	1,0	30,35	<b>B153</b>	225M4	43263	43263
157,4	2457	2,8	8,89	<b>B163</b>	225M4	53444	53444
132,4	2922	2,7	10,58	<b>B163</b>	225M4	56067	56067
117,9	3279	2,3	11,87	<b>B163</b>	225M4	57842	57842
109,3	3539	2,5	12,81	<b>B163</b>	225M4	59023	59023
99,4	3891	2,5	14,08	<b>B163</b>	225M4	60502	60502
90,2	4288	2,3	15,52	<b>B163</b>	225M4	62025	62025
85,4	4527	2,2	16,39	<b>B163</b>	225M4	62875	62875
77,7	4977	2,1	18,02	<b>B163</b>	225M4	64362	64362
70,2	5513	1,9	19,96	<b>B163</b>	225M4	65959	65000
63,8	6062	1,7	21,94	<b>B163</b>	225M4	67430	65000
57,9	6678	1,6	24,17	<b>B163</b>	225M4	68911	65000
52,7	7343	1,5	26,58	<b>B163</b>	225M4	70339	65000
48,6	7957	1,3	28,80	<b>B163</b>	225M4	71522	65000
45,3	8543	1,3	30,92	<b>B163</b>	225M4	72547	65000
40,9	9463	1,3	34,25	<b>B163</b>	225M4	73973	65000
37,2	10405	1,2	37,66	<b>B163</b>	225M4	75235	65000
34,4	11231	1,1	40,65	<b>B163</b>	225M4	76202	65000
31,0	12457	1,0	45,09	<b>B163</b>	225M4	77427	65000
27,5	14090	0,9	51,00	<b>B163</b>	225M4	78731	65000



### 55,0 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
157,4	3002	2,3	8,89	<b>B163</b>	250M4	52490	52490
132,4	3571	2,2	10,58	<b>B163</b>	250M4	54932	54932
117,9	4008	1,9	11,87	<b>B163</b>	250M4	56568	56568
109,3	4325	2,0	12,81	<b>B163</b>	250M4	57649	57649
99,4	4755	2,0	14,08	<b>B163</b>	250M4	58992	58992
90,2	5241	1,9	15,52	<b>B163</b>	250M4	60360	60360
85,4	5533	1,8	16,39	<b>B163</b>	250M4	61117	61117
77,7	6083	1,7	18,02	<b>B163</b>	250M4	62429	62429
70,2	6739	1,6	19,96	<b>B163</b>	250M4	63818	63818
63,8	7410	1,4	21,94	<b>B163</b>	250M4	65076	65000
57,9	8162	1,3	24,17	<b>B163</b>	250M4	66318	65000
52,7	8974	1,2	26,58	<b>B163</b>	250M4	67488	65000



### 55,0 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
48,6	9725	1,0	28,80	<b>B163</b>	250M4	68433	65000
45,3	10442	1,1	30,92	<b>B163</b>	250M4	69230	65000
40,9	11566	1,0	34,25	<b>B163</b>	250M4	70299	65000
37,2	12717	1,0	37,66	<b>B163</b>	250M4	71196	65000
34,4	13727	0,9	40,65	<b>B163</b>	250M4	71841	65000

### 75,0 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
157,4	4094	1,7	8,89	<b>B163</b>	280S4	50582	50582
132,4	4869	1,6	10,58	<b>B163</b>	280S4	52663	52663
117,9	5465	1,4	11,87	<b>B163</b>	280S4	54022	54022
109,3	5898	1,5	12,81	<b>B163</b>	280S4	54901	54901
99,4	6485	1,5	14,08	<b>B163</b>	280S4	55970	55970
90,2	7147	1,4	15,52	<b>B163</b>	280S4	57030	57030
85,4	7545	1,3	16,39	<b>B163</b>	280S4	57602	57602
77,7	8296	1,3	18,02	<b>B163</b>	280S4	58564	58564
63,8	10104	1,0	21,94	<b>B163</b>	280S4	60369	60369
57,9	11130	0,9	24,17	<b>B163</b>	280S4	61132	61132
52,7	12238	0,9	26,58	<b>B163</b>	280S4	61786	61786

### 90,0 kW

n2 [1/min]	M2 [Nm]	f.s.	i			Fr2 (a) [N]	Fr2 (b) [N]
157,4	4913	1,4	8,89	<b>B163</b>	280M4	49152	49152
132,4	5843	1,4	10,58	<b>B163</b>	280M4	50962	50962
117,9	6558	1,2	11,87	<b>B163</b>	280M4	52112	52112
109,3	7077	1,2	12,81	<b>B163</b>	280M4	52840	52840
99,4	7782	1,2	14,08	<b>B163</b>	280M4	53704	53704
90,2	8576	1,2	15,52	<b>B163</b>	280M4	54533	54533
85,4	9054	1,1	16,39	<b>B163</b>	280M4	54966	54966
77,7	9955	1,0	18,02	<b>B163</b>	280M4	55666	55666

IBA/IB – 모터 용량에 따른 분류(입력회전수=1400rpm Fs=1) / Performance(n=1400rpm Fs=1)

**IBA42**

M2 [Nm]	i	P1 [kW]	n2 [1/min]	Fr1 [N]	Fr2 (a) [N]	Fr2 (b) [N]
90	7,62	1,82	183,8	373	-	1814
90	10,62	1,31	131,8	355	-	2027
90	12,95	1,07	108,1	406	-	2165
90	14,46	0,96	96,8	443	-	2246
120	16,47	1,12	85	579	-	2346
120	22,97	0,81	60,9	355	-	2621
120	28,00	0,66	50	406	-	2800
120	31,27	0,59	44,8	443	-	2905
120	33,78	0,55	41,4	458	-	2981
120	47,12	0,39	29,7	355	-	3331
120	57,43	0,32	24,4	406	-	3558
110	64,13	0,26	21,8	406	-	3691
110	78,17	0,22	17,9	406	-	3943

**IBA52**

M2 [Nm]	i	P1 [kW]	n2 [1/min]	Fr1 [N]	Fr2 (a) [N]	Fr2 (b) [N]
160	7,91	3,12	176,9	373	-	1969
160	9,46	2,61	148	414	-	2090
160	11,57	2,13	121	405	-	2235
160	14,63	1,69	95,7	392	-	2416
200	17,11	1,8	81,8	529	-	2546
200	20,46	1,51	68,4	414	-	2702
200	25,03	1,23	55,9	405	-	2890
200	31,63	0,98	44,3	392	-	3124
200	35,10	0,88	39,9	446	-	3235
200	41,97	0,74	33,4	414	-	3433
220	51,34	0,66	27,3	445	-	3672
200	64,87	0,48	21,6	356	-	3970
200	79,07	0,39	17,7	406	-	4000

**IBA53**

M2 [Nm]	i	P1 [kW]	n2 [1/min]	Fr1 [N]	Fr2 (a) [N]	Fr2 (b) [N]
220	73,70	0,49	19	472	-	4000
220	93,33	0,38	15	472	-	4000
220	111,61	0,32	12,5	472	-	4000
220	136,53	0,26	10,3	472	-	4000
220	172,53	0,21	8,1	472	-	4000
220	197,11	0,18	7,1	472	-	4000
220	249,08	0,14	5,6	472	-	4000
220	271,16	0,13	5,2	472	-	4000
220	342,65	0,1	4,1	472	-	4000

**IBA72**

M2 [Nm]	i	P1 [kW]	n2 [1/min]	Fr1 [N]	Fr2 (a) [N]	Fr2 (b) [N]
350	8,36	6,46	167,5	664	5079	2540
350	10,06	5,37	139,2	685	5403	2701
350	12,44	4,34	112,5	667	5800	2900
420	14,91	4,35	93,9	826	6160	3080
420	17,94	3,61	78	685	6552	3276
420	22,19	2,92	63,1	667	7033	3517
420	27,45	2,36	51	667	7550	3775
420	33,04	1,96	42,4	685	8031	4016
400	40,87	1,51	34,3	635	8621	4311
350	45,64	1,18	30,7	646	8944	4472
350	54,94	0,98	25,5	685	9515	4757
350	67,96	0,79	20,6	667	10000	5107

**IBA73**

M2 [Nm]	i	P1 [kW]	n2 [1/min]	Fr1 [N]	Fr2 (a) [N]	Fr2 (b) [N]
450	43,89	1,67	31,9	330	8828	4414
450	52,83	1,39	26,5	411	9391	4696
450	65,35	1,12	21,4	400	10000	5041
450	80,83	0,91	17,3	400	10000	5411
450	97,29	0,75	14,4	411	10000	5500
450	120,34	0,61	11,6	400	10000	5500
450	149,73	0,49	9,4	398	10000	5500
450	180,23	0,41	7,8	411	10000	5500
450	222,93	0,33	6,3	400	10000	5500
450	260,20	0,28	5,4	424	10000	5500
450	321,85	0,23	4,3	400	10000	5500
450	357,95	0,2	3,9	445	10000	5500
450	442,76	0,17	3,2	400	10000	5500

**IB063**

M2 [Nm]	i	P1 [kW]	n2 [1/min]	Fr1 [N]	Fr2 (a) [N]	Fr2 (b) [N]
290	5,71	8,27	245	314	7034	2010
340	6,88	8,05	203,5	337	7335	2096
350	7,32	7,79	191,2	365	7475	2136
460	9,16	8,18	152,8	323	7673	2192
520	10,26	8,25	136,4	315	7774	2221
540	11,03	7,98	127	345	7927	2265
580	12,35	7,65	113,3	380	8142	2326
590	13,15	7,31	106,5	416	8322	2378
590	15,18	6,33	92,3	519	8853	2529
600	17,00	5,75	82,3	581	9248	2642
600	22,39	4,36	62,5	728	10385	2967
600	26,09	3,75	53,7	794	11063	3161
600	28,03	3,49	49,9	821	11393	3255
600	33,43	2,92	41,9	881	12000	3496
600	38,58	2,53	36,3	922	12000	3703
600	43,22	2,26	32,4	951	12000	3874
600	50,81	1,92	27,6	987	12000	4129

**IB063**

M2 [Nm]	i	P1 [kW]	n2 [1/min]	Fr1 [N]	Fr2 (a) [N]	Fr2 (b) [N]
600	56,93	1,72	24,6	1009	12000	4316
600	69,16	1,41	20,2	1041	12000	4654
600	77,48	1,26	18,1	1057	12000	4861
600	90,33	1,08	15,5	1076	12000	5154
600	101,20	0,97	13,8	1089	12000	5380
600	111,74	0,87	12,5	1098	12000	5585
600	124,20	0,79	11,3	1108	12000	5811
600	139,15	0,7	10,1	1116	12000	6062
600	157,42	0,62	8,9	1125	12000	6346

**IB083**

M2 [Nm]	i	P1 [kW]	n2 [1/min]	Fr1 [N]	Fr2 (a) [N]	Fr2 (b) [N]
500	7,81	10,43	179,3	1685	11980	3423
600	8,62	11,33	162,4	1571	12040	3440
650	10,49	10,09	133,4	1728	12807	3659
750	11,59	10,54	120,8	1671	12915	3690
810	14,43	9,14	97	1847	13870	3963
850	16,60	8,34	84,4	1948	14518	4148
850	18,32	7,56	76,4	2047	15115	4319
850	22,82	6,07	61,4	2235	16508	4717
850	26,71	5,18	52,4	2346	17573	5021
850	29,50	4,69	47,5	2408	18000	5220
850	31,80	4,35	44	2451	18000	5376
850	34,49	4,01	40,6	2494	18000	5549
850	39,60	3,5	35,4	2500	18000	5853
850	42,95	3,22	32,6	2500	18000	6039
850	45,44	3,05	30,8	2500	18000	6171
850	51,19	2,7	27,4	2500	18000	6458
850	55,52	2,49	25,2	2500	18000	6660
850	59,96	2,31	23,4	2500	18000	6856
850	63,74	2,17	22	2500	18000	7016
850	69,14	2	20,2	2500	18000	7234
850	73,14	1,89	19,1	2500	18000	7388
850	80,76	1,71	17,3	2500	18000	7666
850	92,19	1,5	15,2	2500	18000	8052
850	100,57	1,38	13,9	2500	18000	8315
850	105,29	1,32	13,3	2500	18000	8457
850	116,25	1,19	12	2500	18000	8771
850	126,76	1,09	11	2500	18000	9053
850	144,77	0,96	9,7	2500	18000	9503

**IB103**

M2 [Nm]	i	P1 [kW]	n2 [1/min]	Fr1 [N]	Fr2 (a) [N]	Fr2 (b) [N]
800	8,13	16,03	172,3	1078	14868	4248
900	8,97	16,35	156,1	1041	15147	4328
1000	10,92	14,92	128,2	1211	16052	4586
1000	12,05	13,52	116,2	1377	16676	4765
1200	14,99	13,04	93,4	1433	17560	5017
1400	17,27	13,2	81,1	1414	17992	5141
1400	19,06	11,97	73,5	1561	18718	5348
1400	23,70	9,62	59,1	1839	20415	5833

**IB103**

M2 [Nm]	i	P1 [kW]	n2 [1/min]	Fr1 [N]	Fr2 (a) [N]	Fr2 (b) [N]
1500	26,51	9,22	52,8	1887	21050	6014
1600	30,55	8,53	45,8	1969	21978	6279
1700	33,07	8,37	42,3	1987	22000	6398
1700	35,87	7,72	39	2065	22000	6610
1700	41,12	6,73	34	2182	22000	6979
1700	44,61	6,21	31,4	2244	22000	7207
1700	47,28	5,86	29,6	2286	22000	7374
1700	50,24	5,51	27,9	2327	22000	7552
1700	53,02	5,22	26,4	2361	22000	7712
1700	58,50	4,73	23,9	2419	22000	8013
1700	64,89	4,27	21,6	2474	22000	8340
1700	68,58	4,04	20,4	2502	22000	8519
1700	72,76	3,81	19,2	2529	22000	8715
1700	78,92	3,51	17,7	2564	22000	8990
1800	83,66	3,5	16,7	2565	22000	9109
1800	92,31	3,18	15,2	2604	22000	9459
1800	105,44	2,78	13,3	2651	22000	9950
1800	114,80	2,55	12,2	2678	22000	10275
1800	120,42	2,43	11,6	2692	22000	10462
1800	132,87	2,21	10,5	2719	22000	10856
1800	144,69	2,03	9,7	2740	22000	11208
1800	165,25	1,77	8,5	2770	22000	11776

**IB123**

M2 [Nm]	i	P1 [kW]	n2 [1/min]	Fr1 [N]	Fr2 (a) [N]	Fr2 (b) [N]
1500	7,97	30,67	175,8	2561	17308	4945
1800	9,62	30,48	145,5	2570	17484	4995
2000	10,33	31,52	135,5	2521	17181	4909
2000	12,48	26,1	112,2	2775	18875	5393
2100	13,84	24,71	101,1	2841	19393	5541
2100	15,38	22,24	91	2957	20420	5834
2200	18,58	19,29	75,4	3095	21892	6255
2500	20,61	19,76	67,9	3073	21629	6180
2800	22,78	20,02	61,5	3061	21364	6104
2800	25,89	17,62	54,1	3174	22840	6526
2800	27,51	16,58	50,9	3223	23562	6732
2800	30,79	14,81	45,5	3306	24944	7127
2800	31,26	14,59	44,8	3316	25133	7181
2800	34,68	13,15	40,4	3384	26458	7559
2800	40,53	11,25	34,5	3473	28532	8152
3000	44,89	10,89	31,2	3490	29033	8295
3200	49,80	10,47	28,1	3510	29606	8459
3200	54,30	9,6	25,8	3550	30000	8825
3200	59,36	8,78	23,6	3589	30000	9214
3300	62,59	8,59	22,4	3598	30000	9319
3300	69,43	7,74	20,2	3638	30000	9795
3500	74,42	7,66	18,8	3641	30000	9859
3500	80,04	7,12	17,5	3667	30000	10211
3500	89,87	6,34	15,6	3703	30000	10788
3500	99,70	5,72	14	3733	30000	11324
3500	106,65	5,35	13,1	3750	30000	11682

### IB123

M2 [Nm]	i	P1 [kW]	n2 [1/min]	Fr1 [N]	Fr2 (a) [N]	Fr2 (b) [N]
3500	119,60	4,77	11,7	3777	30000	12309
3500	129,96	4,39	10,8	3795	30000	12780
3500	144,43	3,95	9,7	3816	30000	13395
3500	160,23	3,56	8,7	3834	30000	14022
3500	180,40	3,16	7,8	3853	30000	14766

### IB143

M2 [Nm]	i	P1 [kW]	n2 [1/min]	Fr1 [N]	Fr2 (a) [N]	Fr2 (b) [N]
3000	10,84	45,08	129,2	2299	17471	17471
3100	11,87	42,55	118	2395	17969	17969
3100	14,49	34,86	96,7	2685	19947	19947
3200	17,04	30,59	82,2	2847	21300	21300
3600	18,66	31,43	75	2815	20860	20860
4000	21,00	31,03	66,7	2830	20767	20767
4400	22,77	31,47	61,5	2813	20285	20285
4600	25,63	29,24	54,6	2898	21002	21002
4600	27,44	27,3	51	2971	21858	21858
4700	30,05	25,48	46,6	3040	22664	22664
4700	33,01	23,19	42,4	3126	23910	23910
4800	36,67	21,32	38,2	3197	24993	24993
4800	40,29	19,41	34,7	3269	26324	26324
4800	44,16	17,7	31,7	3334	27663	27663
5000	48,35	16,84	29	3366	28308	28308
5000	53,16	15,32	26,3	3424	29777	29777
5000	54,63	14,91	25,6	3439	30209	30209
5000	59,02	13,8	23,7	3481	31452	31452
5000	64,88	12,55	21,6	3528	33022	33022
5000	70,43	11,56	19,9	3566	34421	34421
5000	77,12	10,56	18,2	3603	36011	36011
5000	85,54	9,52	16,4	3643	37890	37890
5000	94,13	8,65	14,9	3675	39680	39680
5000	105,83	7,7	13,2	3712	41952	41952
5000	111,94	7,28	12,5	3728	43071	43071
5000	124,62	6,54	11,2	3755	45000	45000
5000	136,44	5,97	10,3	3777	45000	45000
5000	149,59	5,44	9,4	3797	45000	45000
5000	166,53	4,89	8,4	3818	45000	45000
5000	187,24	4,35	7,5	3838	45000	45000

### IB153

M2 [Nm]	i	P1 [kW]	n2 [1/min]	Fr1 [N]	Fr2 (a) [N]	Fr2 (b) [N]
4500	10,49	69,86	133,4	7032	32656	32656
4500	12,64	57,98	110,7	7516	35147	35147
5000	14,01	58,13	99,9	7509	35853	35853
5000	15,40	52,89	90,9	7723	37222	37222
6000	18,56	52,67	75,4	7732	38582	38582
6500	20,56	51,49	68,1	7780	39483	39483
6700	23,86	45,74	58,7	8014	41653	41653
6800	25,19	43,98	55,6	8085	42436	42436
8000	28,23	46,16	49,6	7997	42686	42686
8000	30,35	42,94	46,1	8128	44001	44001

### IB153

M2 [Nm]	i	P1 [kW]	n2 [1/min]	Fr1 [N]	Fr2 (a) [N]	Fr2 (b) [N]
8000	33,63	38,74	41,6	8298	45923	45923
8000	35,02	37,21	40	8361	46696	46696
8000	38,81	33,58	36,1	8509	48712	48712
8000	42,30	30,81	33,1	8621	50453	50453
8000	47,53	27,41	29,5	8759	52896	52896
8000	50,56	25,77	27,7	8826	54227	54227
8000	54,64	23,85	25,6	8904	55937	55937
8000	57,27	22,75	24,4	8949	56996	56996
8000	60,92	21,39	23	9005	58412	58412
8000	63,47	20,53	22,1	9039	59367	59367
8000	71,15	18,32	19,7	9130	62097	62097
8000	77,22	16,87	18,1	9188	64121	64121
8000	83,89	15,53	16,7	9243	65000	65000
8000	87,65	14,87	16	9270	65000	65000
8000	93,05	14	15	9305	65000	65000
8000	103,12	12,64	13,6	9361	65000	65000
8000	123,88	10,52	11,3	9447	65000	65000
8000	134,27	9,71	10,4	9480	65000	65000
8000	149,26	8,73	9,4	9520	65000	65000
8000	165,42	7,88	8,5	9554	65000	65000

### IB163

M2 [Nm]	i	P1 [kW]	n2 [1/min]	Fr1 [N]	Fr2 (a) [N]	Fr2 (b) [N]
6800	8,89	124,57	157,4	7073	46145	46145
7900	10,58	121,68	132,4	7148	47640	47640
7700	11,87	105,67	117,9	7565	50376	50376
8800	12,81	111,91	109,3	7403	50078	50078
9600	14,08	111,03	99,4	7426	50762	50762
10000	15,52	104,94	90,2	7584	52265	52265
9900	16,39	98,41	85,4	7754	53698	53698
10400	18,02	94,03	77,7	7869	55082	55082
10700	19,96	87,33	70,2	8043	57072	57072
10400	21,94	77,2	63,8	8307	60008	60008
10500	24,17	70,75	57,9	8475	62369	62369
11100	26,58	68,03	52,7	8546	63887	63887
10200	28,80	57,69	48,6	8815	67696	65000
11500	30,92	60,58	45,3	8740	67456	65000
11900	34,25	56,59	40,9	8844	69762	65000
12300	37,66	53,2	37,2	8932	71943	65000
12700	40,65	50,89	34,4	8992	73630	65000
12000	45,09	43,35	31	9189	78186	65000
13000	51,00	41,52	27,5	9236	80000	65000
13000	53,63	39,48	26,1	9289	80000	65000
13000	58,97	35,91	23,7	9382	80000	65000
13000	69,78	30,35	20,1	9527	80000	65000
13000	76,72	27,6	18,2	9599	80000	65000
13000	87,54	24,19	16	9688	80000	65000
13000	96,25	22	14,5	9745	80000	65000
13000	103,93	20,37	13,5	9787	80000	65000
13000	114,27	18,53	12,3	9835	80000	65000
13000	126,29	16,77	11,1	9881	80000	65000
13000	138,85	15,25	10,1	9921	80000	65000
13000	154,83	13,68	9	9962	80000	65000

Fr2(a) = FD, FS, FP, SD, SS, SP, UC, UD, US, UP  
 Fr2(b) = FC, FL, FM, SC, SL, SM, UL, UM + B083UC 045

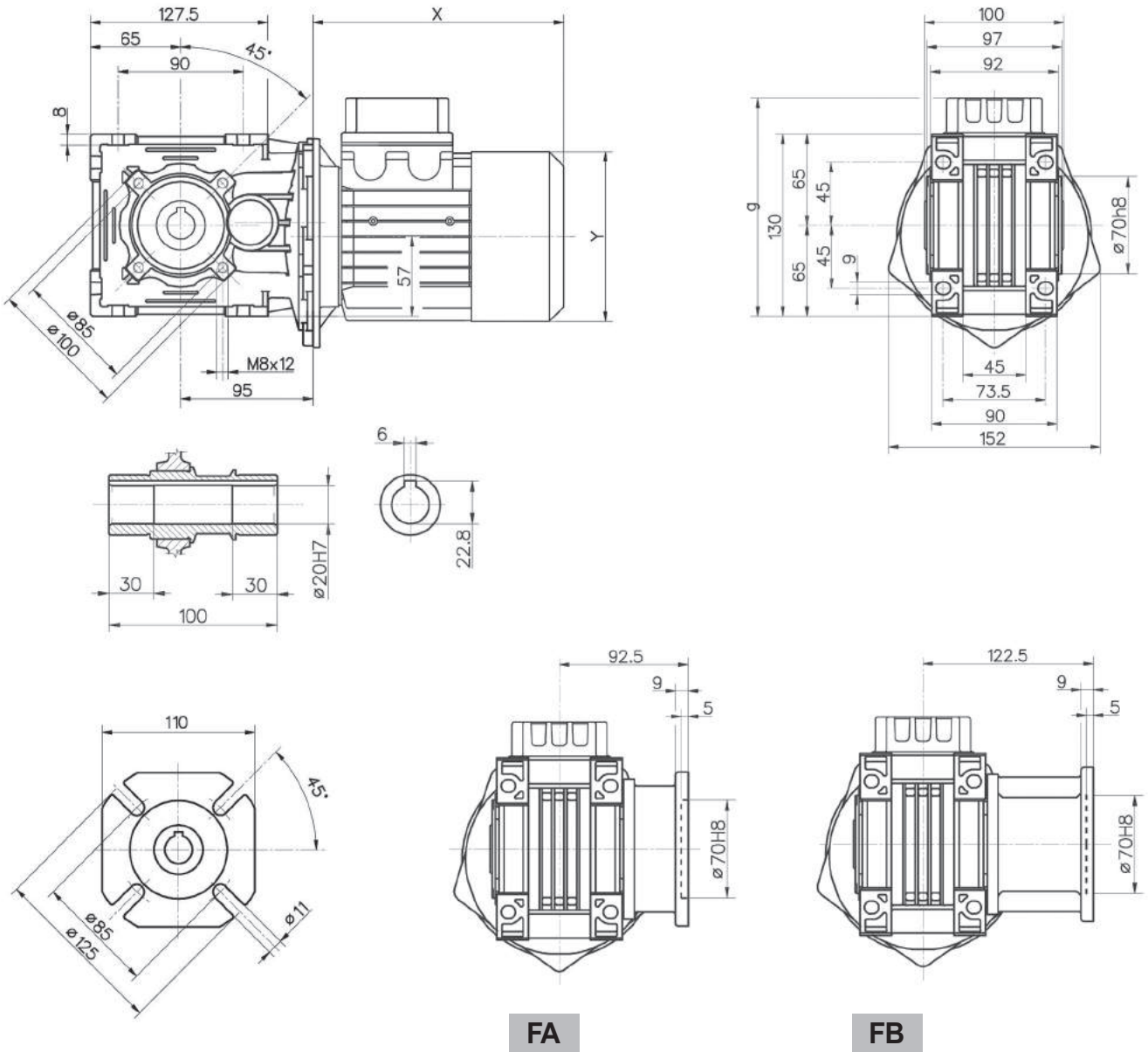


메모 / Notes

Lined area for notes.

A42 차수 / Dimensions

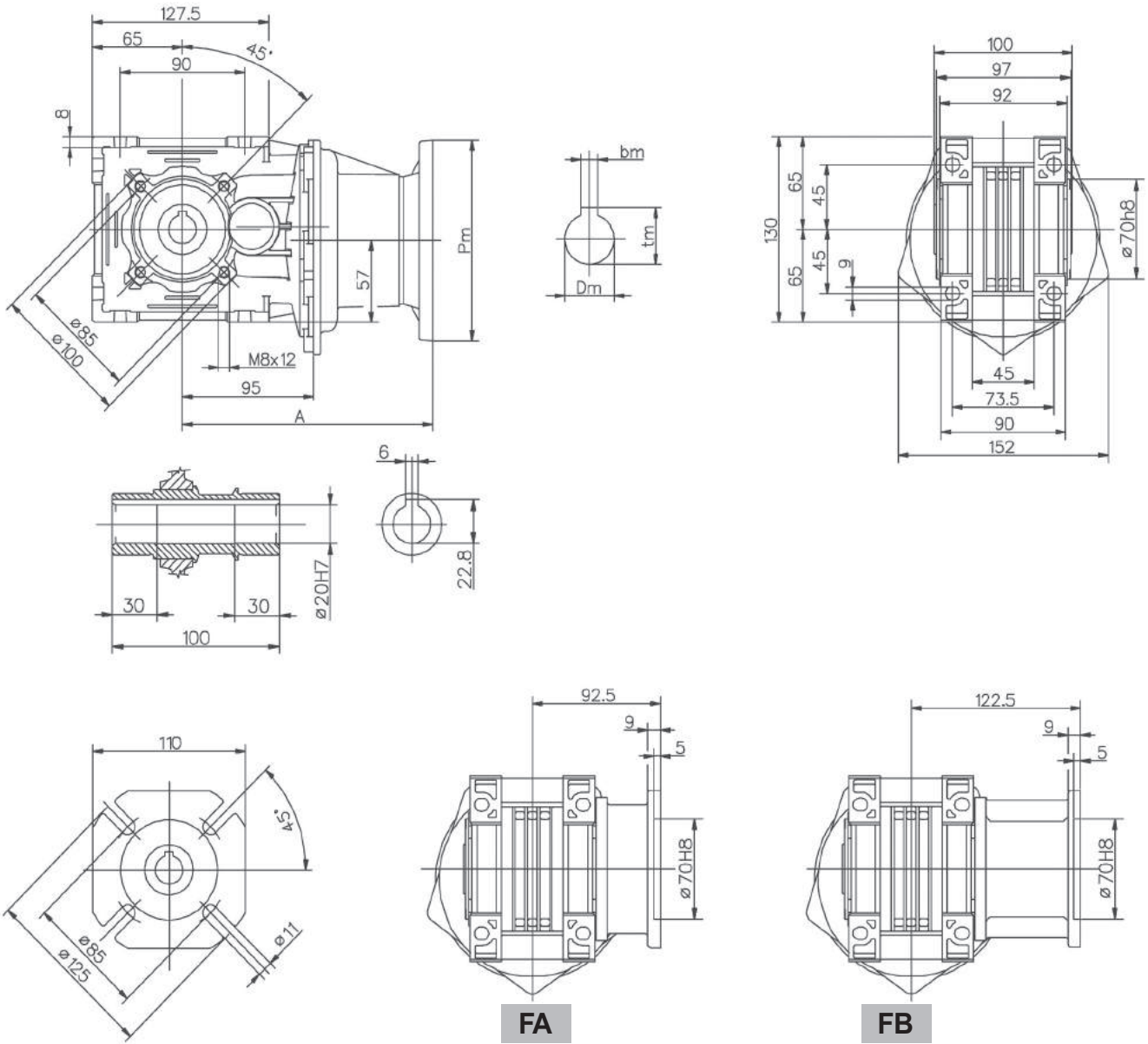
CB



A42	표준모터 / Standard motor				브레이크 모터 / Brake motor			
	g1	X	Y	~Kg	g	X	Y	~Kg
63	161	180	121	7,9	176	238	121	9,3
71	169	205	139	11,8	185	269	139	11,8
80	179	223	158	13,8	194	294	158	16,9

(..) 주문사양  
(..) Only on request

- 모터 포함 무게  
- Weight with motor



PAM	A	Kg
063	150	5
071	150	5,1
080	181	5,3

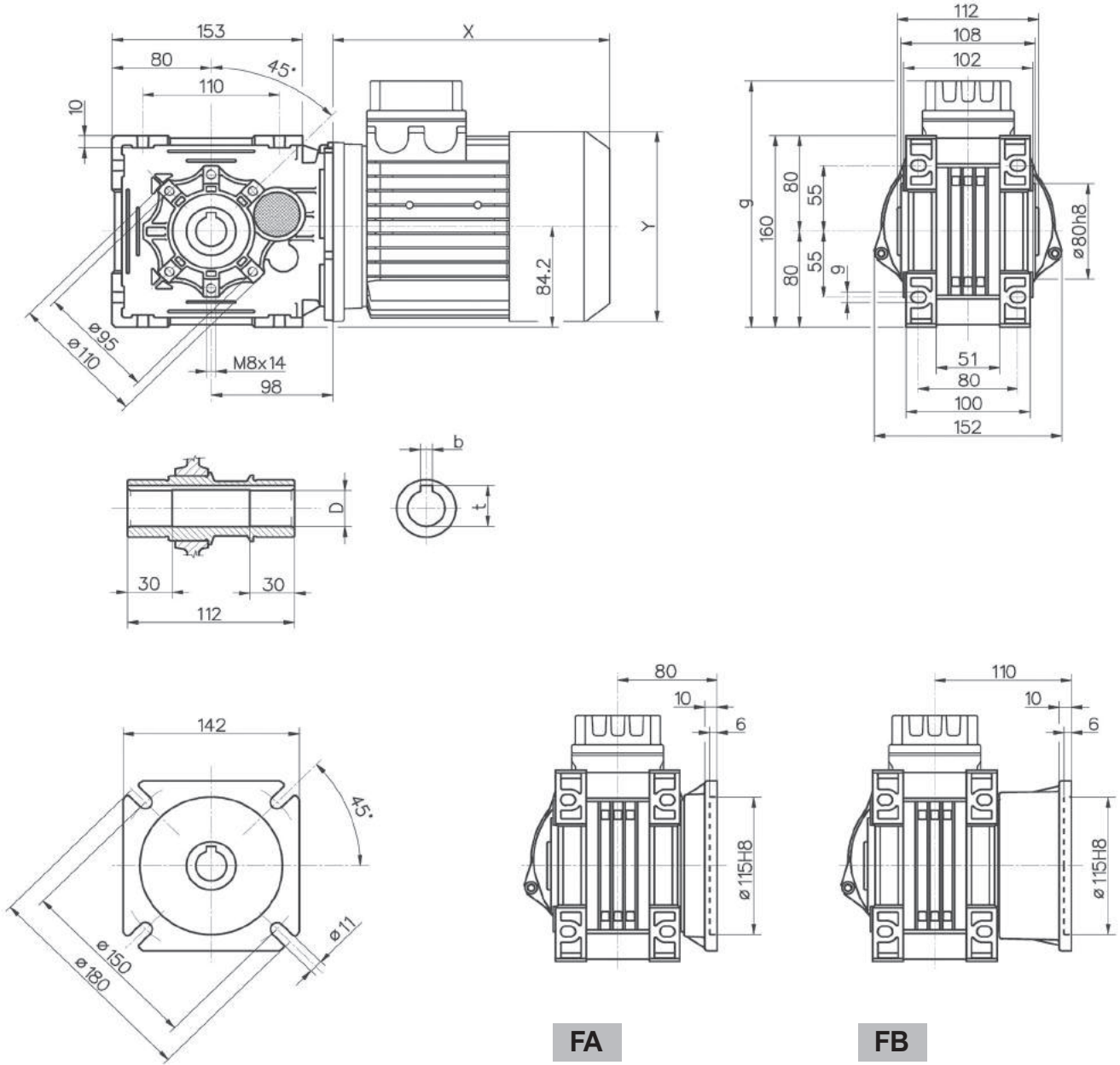
(..)주문사항 - 모터 제외 무게  
(..)Only on request - Weight without motor

감속기에 취부할 모터의 dimensions (Pm,Dm,bm,tm)을 확인하려면 285페이지 참조

For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page 285.

A52 차수 / Dimensions

CB



A52	표준모터 / Standard motor				브레이크 모터 / Brake motor			
	g	X	Y	~Kg	g	X	Y	~Kg
63	188	180	121	8,6	204	238	121	10
71	197	205	139	10,6	213	269	139	12,5
80	206	223	158	14,6	222	294	158	17,7
90S	214	237	173	16,5	214	313	173	21,3
90L	214	262	173	19	214	338	173	23,9

Output Hollow Shaft		
D H7	b	t
25	8	28,3
(28)	(8)	(31,1)

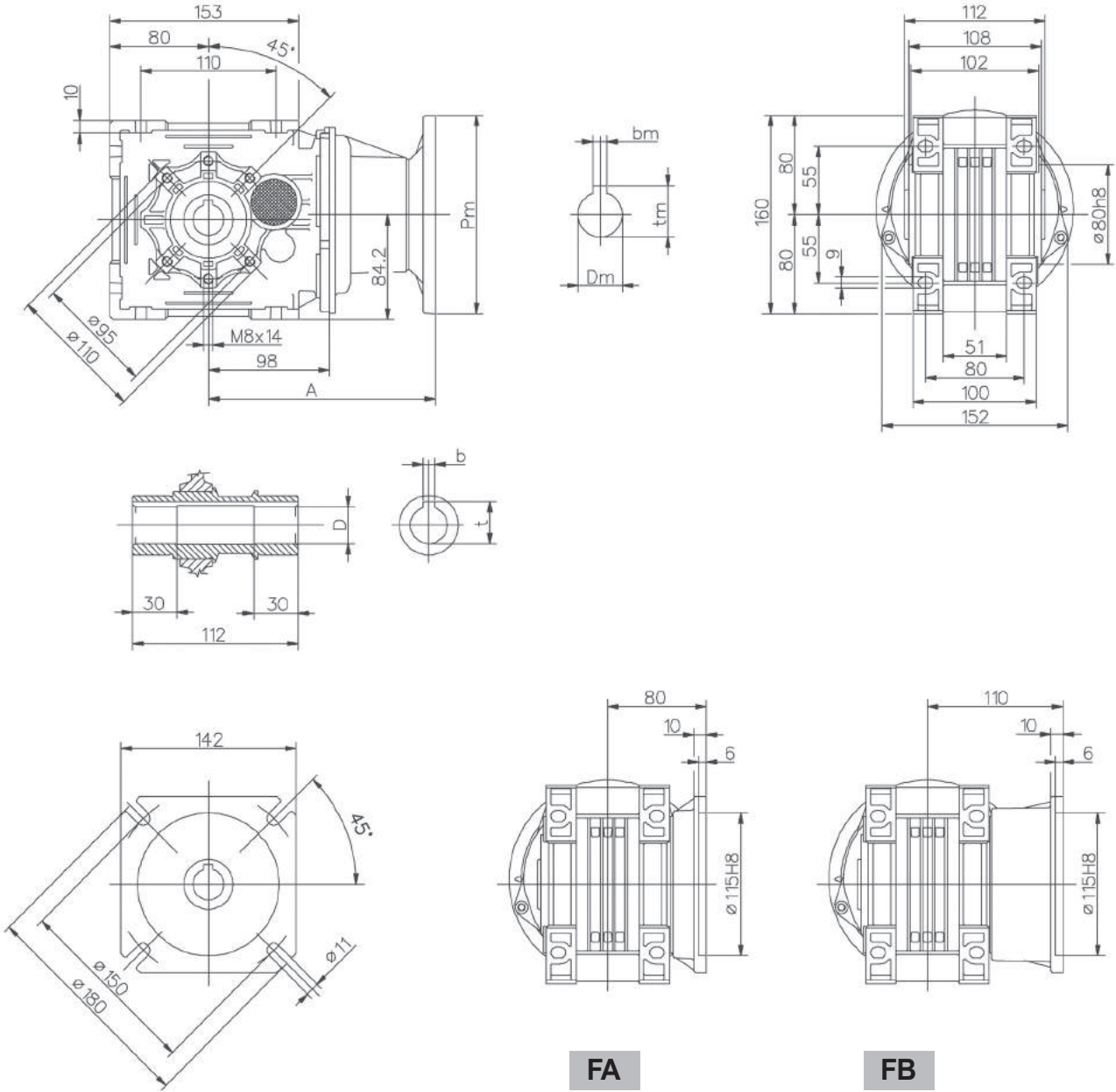
(..) 주문사항  
(..) Only on request

- 모터 포함 무게  
- Weight with motor

**Dimensions / 치수**

**A52**

**B**



Output Hollow Shaft		
D H7	b	t
25	8	28,3
(28)	(8)	(31,1)

PAM	A	Kg
063	153	5,7
071	153	5,8
080 - 090	184	6

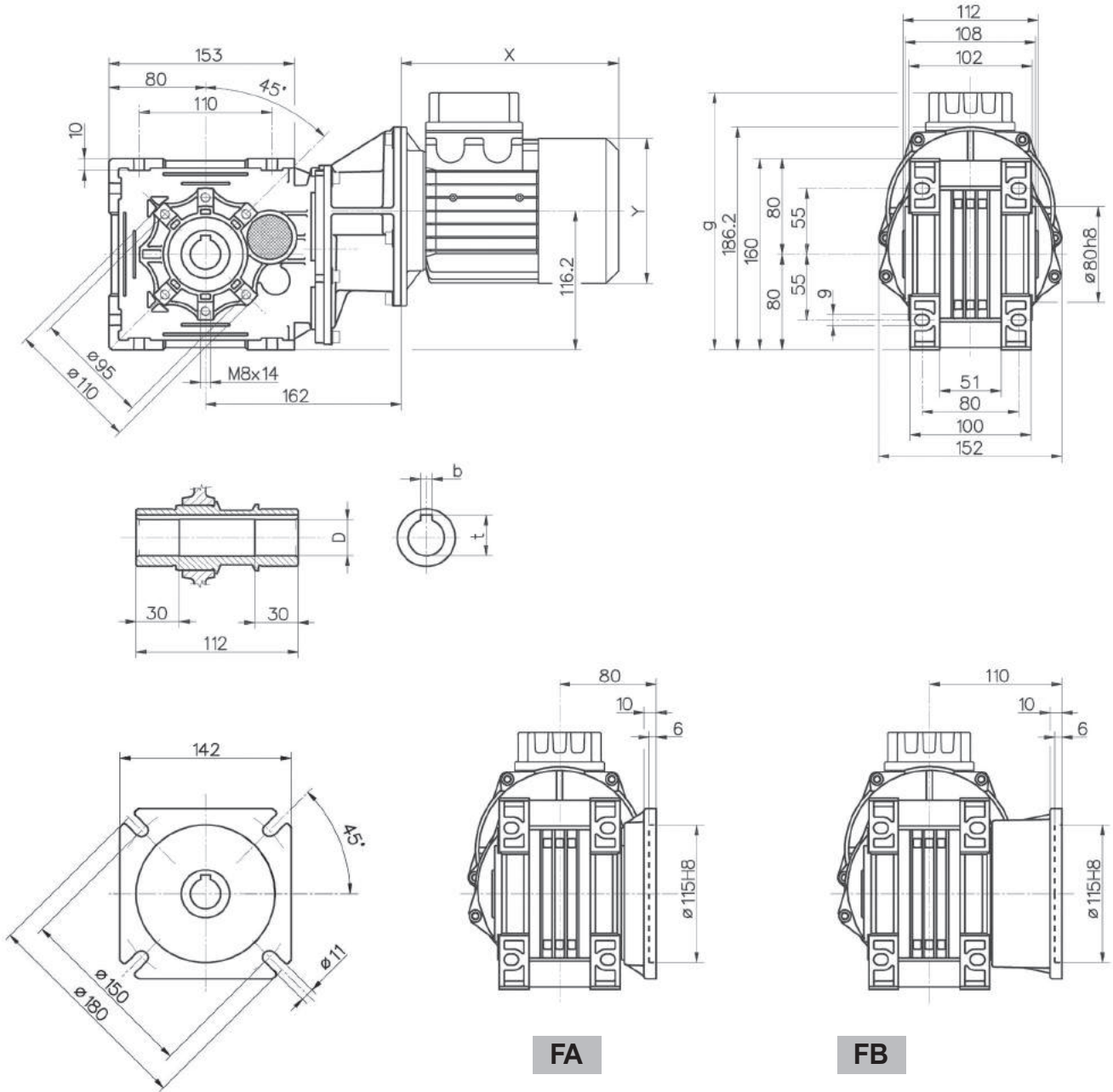
(..)주문사항 - 모터 제외 무게  
(..)Only on request - Weight without motor

감속기에 취부할 모터의 dimensions (Pm,Dm,bm,tm)을 확인하려면 285페이지 참조

For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page 285.

**A53 차수 / Dimensions**

**CB**



A53	표준모터 / Standard motor				브레이크 모터 / Brake motor			
	g	X	Y	~Kg	g	X	Y	~Kg
63	220	180	121	10,4	236	238	121	11,8
71	229	205	139	12,4	245	269	139	14,3
80	238	223	158	16,4	254	294	158	19,5
90S	246	237	173	18,3	246	313	173	23,1
90L	246	262	173	20,8	246	338	173	25,7

Output Hollow Shaft		
D H7	b	t
25	8	28,3
(28)	(8)	(31,1)

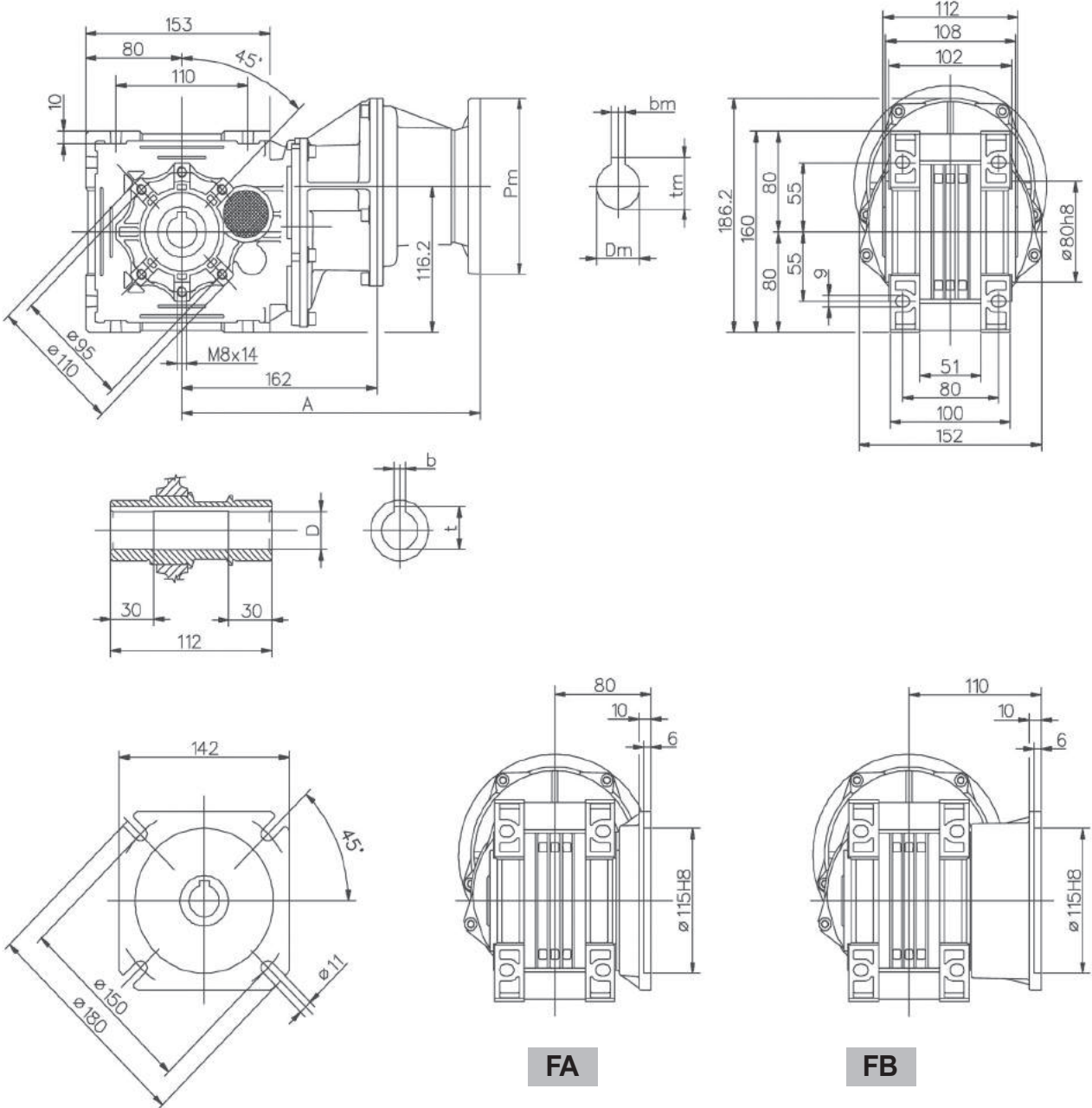
(..) 주문사항  
(..) Only on request

- 모터 포함 무게  
- Weight with motor

**Dimensions / 치수**

**A53**

**B**



Output Hollow Shaft		
D H7	b	t
25	8	28,3
(28)	(8)	(31,1)

PAM	A	Kg
063	217	7,6
071	217	7,7
080	248	9,1

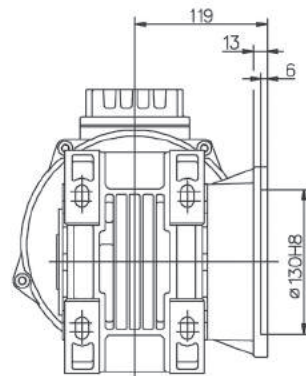
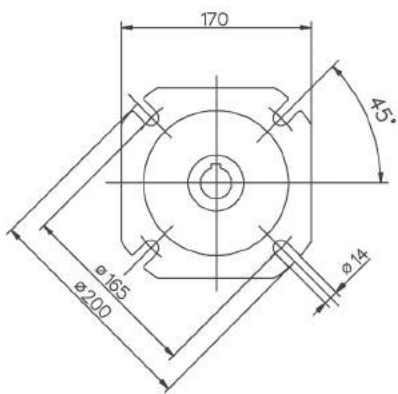
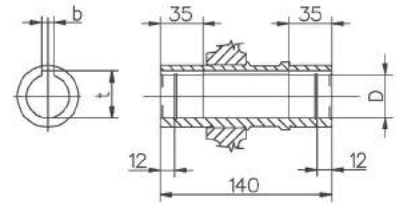
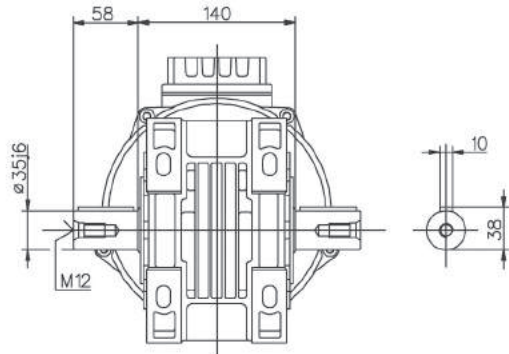
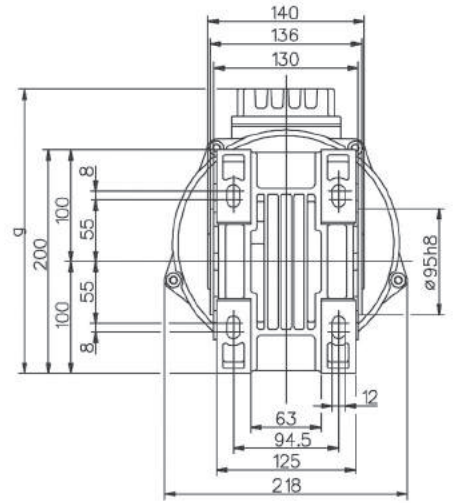
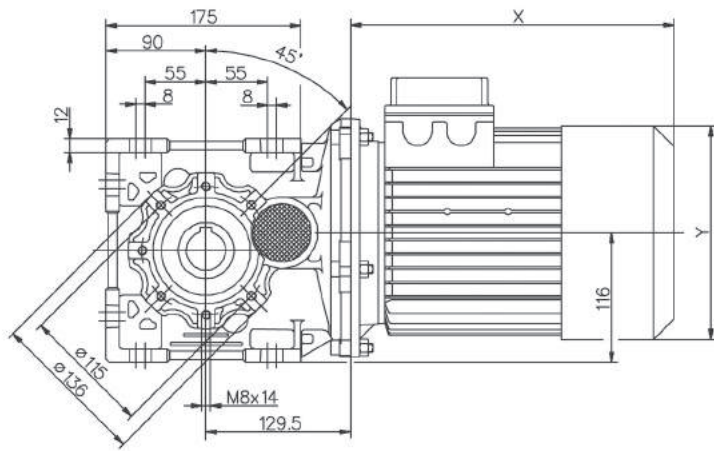
(..) 주문사항  
(..) Only on request

감속기에 취부할 모터의 dimensions (Pm,Dm,bm,tm)을 확인하려면 285페이지 참조

For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page 285.

**A72 차수 / Dimensions**

**CB**



**FA**

A72	표준모터 / Standard motor				브레이크 모터 / Brake motor			
	g	X	Y	~Kg	g	X	Y	~Kg
80	238	218	158	22,6	253	290	158	26,6
90S	246	232	173	24,6	246	309	173	28,1
90L	246	257	173	27,1	246	334	173	32,6
100	255	290	191	35,6	255	372	191	42,6
112	270	302	211	42,6	270	400	211	52,6

Output Hollow Shaft		
D H7	b	t
35	10	38,3
(30)	(8)	(33,3)

(..) 주문사항  
(..) Only on request

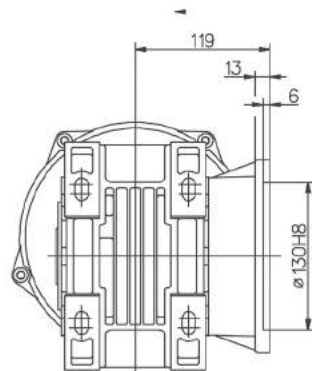
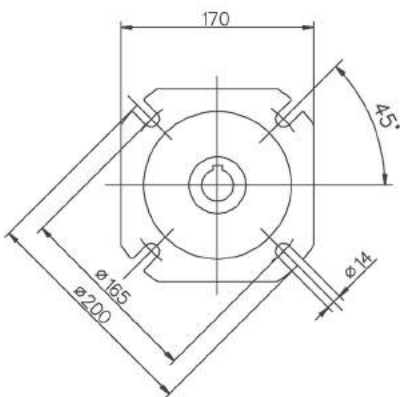
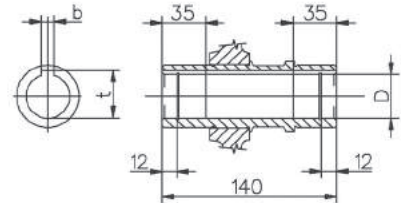
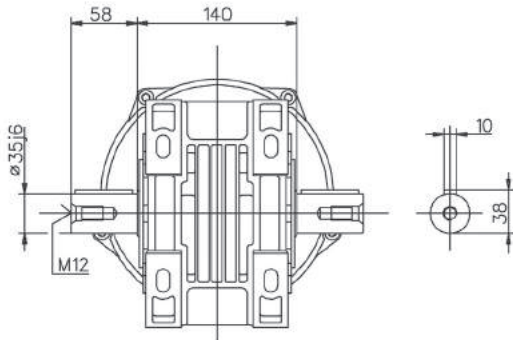
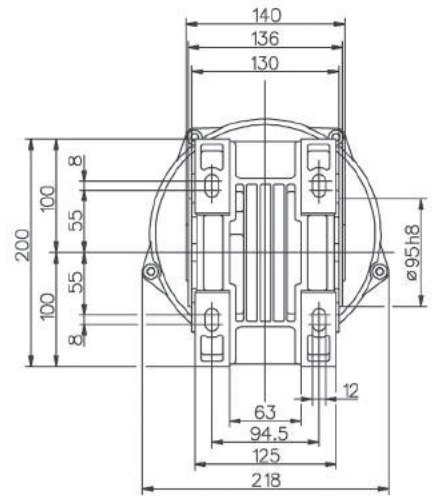
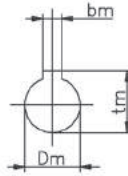
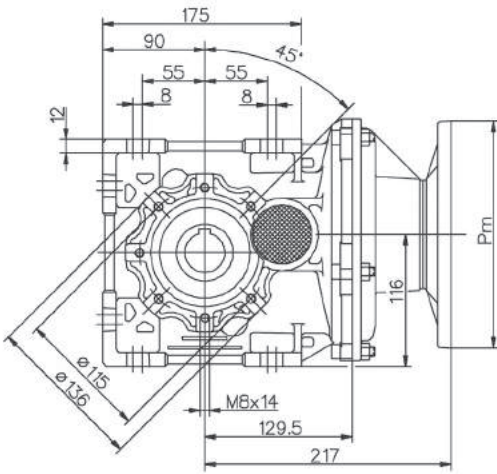
- 모터 포함 무게  
- Weight with motor



**Dimensions / 차수**

**A72**

**B**



**FA**

Output Hollow Shaft		
D H7	b	t
35	10	38,3
(30)	(8)	(33,3)

PAM	Kg
080 - 090	16,1
100 - 112	16,3

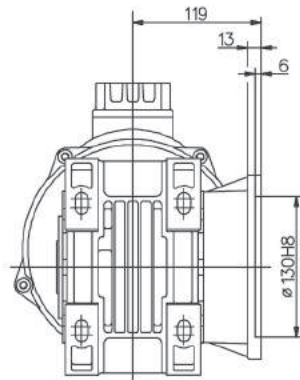
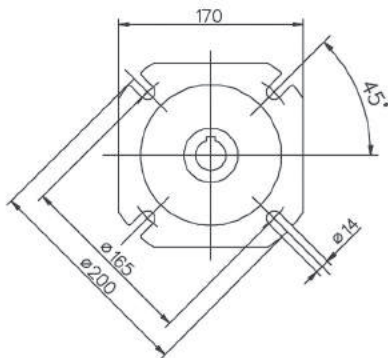
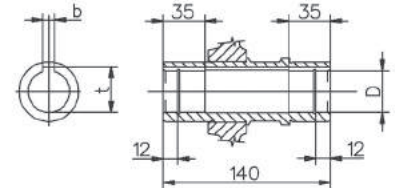
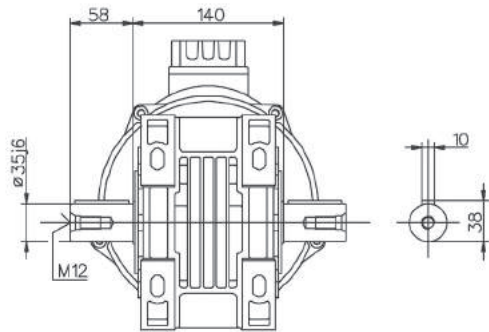
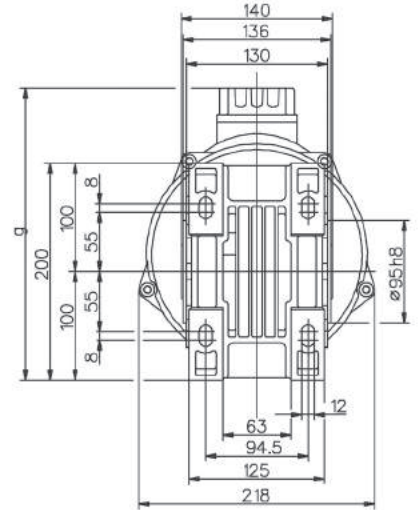
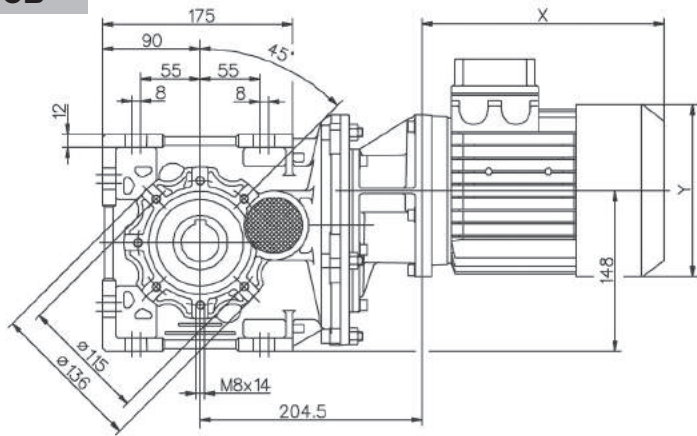
(..)주문사항 - 모터 제외 무게  
(..)Only on request - Weight without motor

감속기에 취부할 모터의 dimensions (Pm,Dm,bm,tm)을 확인하려면 285페이지 참조

For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page 285.

**A73 차수 / Dimensions**

**CB**



**FA**

A73	표준모터 / Standard motor				브레이크 모터 / Brake motor			
	g	X	Y	~Kg	g	X	Y	~Kg
63	252	180	121	18,2	267	238	121	19,7
71	260	205	139	20,2	276	269	139	22,2
80	270	223	158	24,2	285	294	158	28,2
90S	278	237	173	26,2	278	313	173	29,7
90L	278	262	173	28,7	278	338	173	34,2

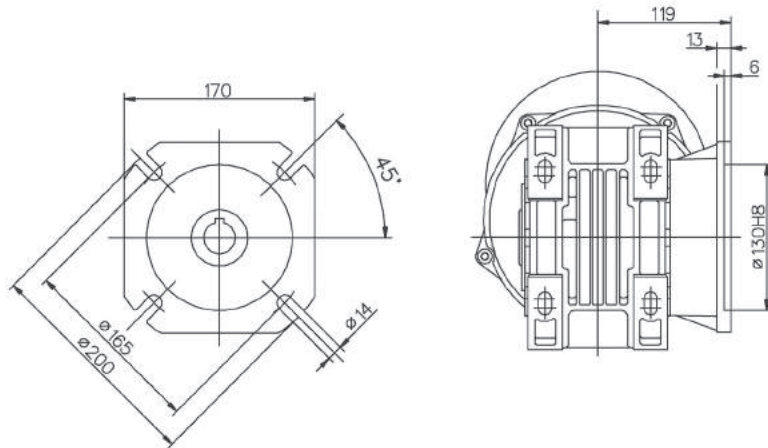
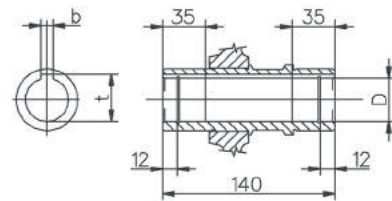
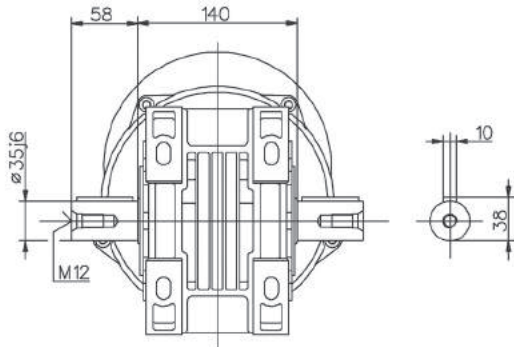
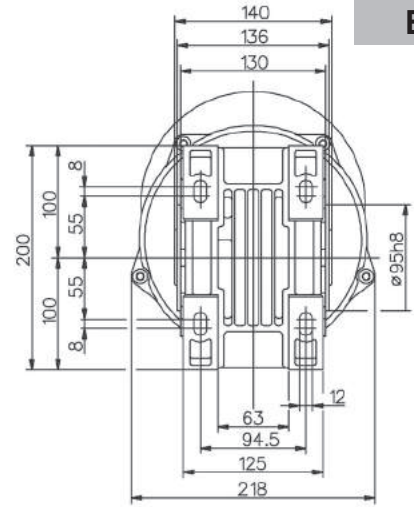
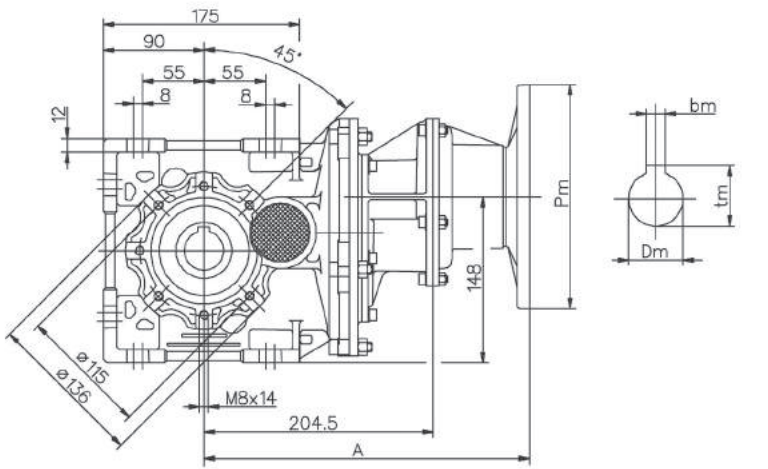
Output Hollow Shaft		
D H7	b	t
35	10	38,3
(30)	(8)	(33,3)

(..) 주문사항  
(..) Only on request

- 모터 포함 무게  
- Weight with motor

**Dimensions / 차수**

**A73**



**FA**

Output Hollow Shaft		
D H7	b	t
35	10	38,3
(30)	(8)	(33,3)

PAM	A	Kg
063	259,5	15,3
071	259,5	15,4
080 - 090	290,5	16,8

(..)주문사항

- 모터 제외 무게

(..)Only on request

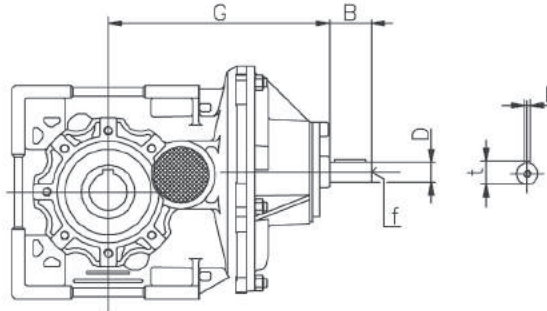
- Weight without motor

감속기에 취부할 모터의 dimensions (Pm,Dm,bm,tm)을 확인하려면 285페이지 참조

For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page 285.

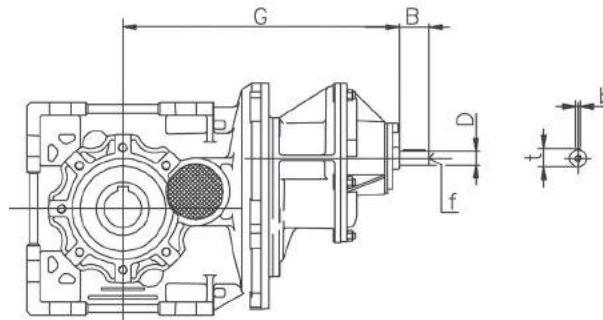
IBA... 차수 / Dimensions

A42 - A52 - A72



	G	Dj6	B	b	t	f	Key
A42	175,5	16	40	5	18	M6	5×5×30mm
A52	179	16	40	5	18	M6	5×5×30mm
A72	210	19	40	6	21,5	M6	6×6×30mm

A53 - A73



	G	Dj6	B	b	t	f	Key
A53	242,5	16	40	5	18	M6	5×5×30mm
A73	285	16	40	5	18	M6	5×5×30mm

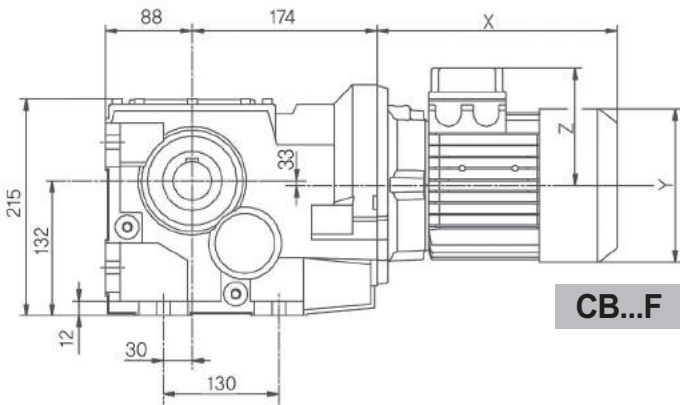
그 밖의 나타나지 않은 부분의 치수는 CBA/BA 감속기부분을 참조.

For the missing dimensions, please consider the drawing of relevant CBA/BA size.

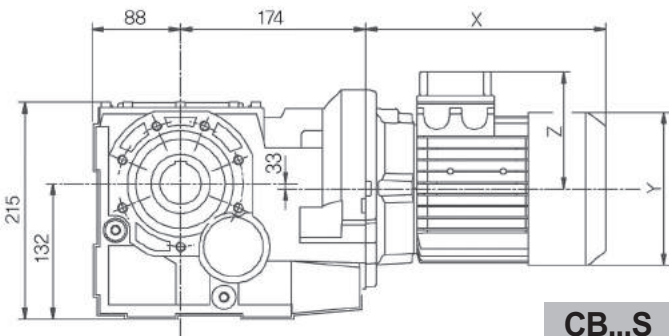
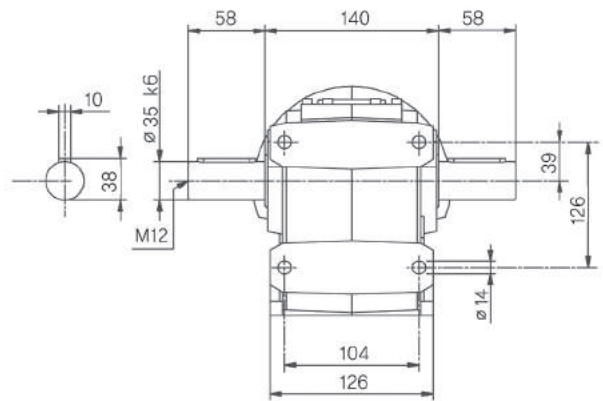


063

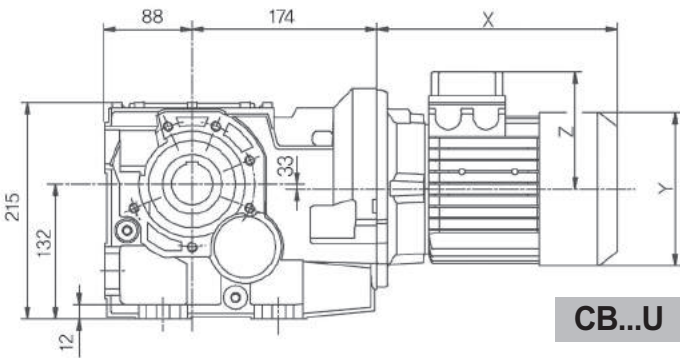
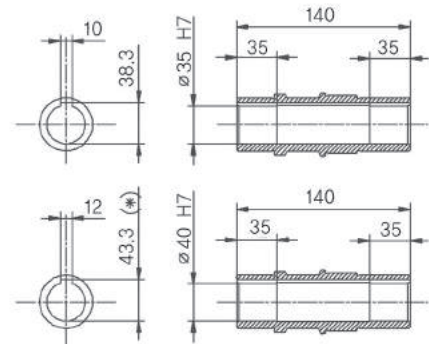
차수 / Dimensions



CB...F



CB...S



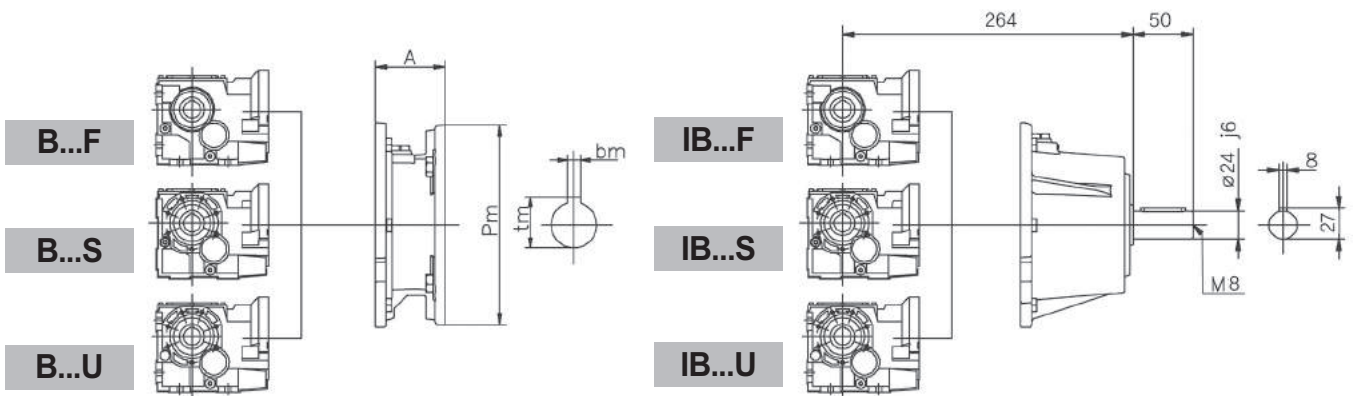
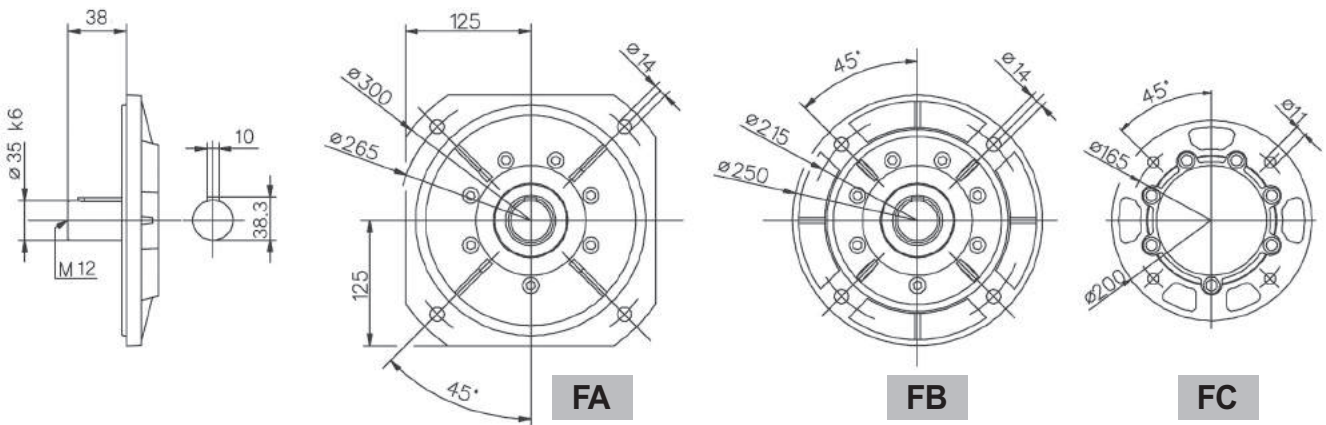
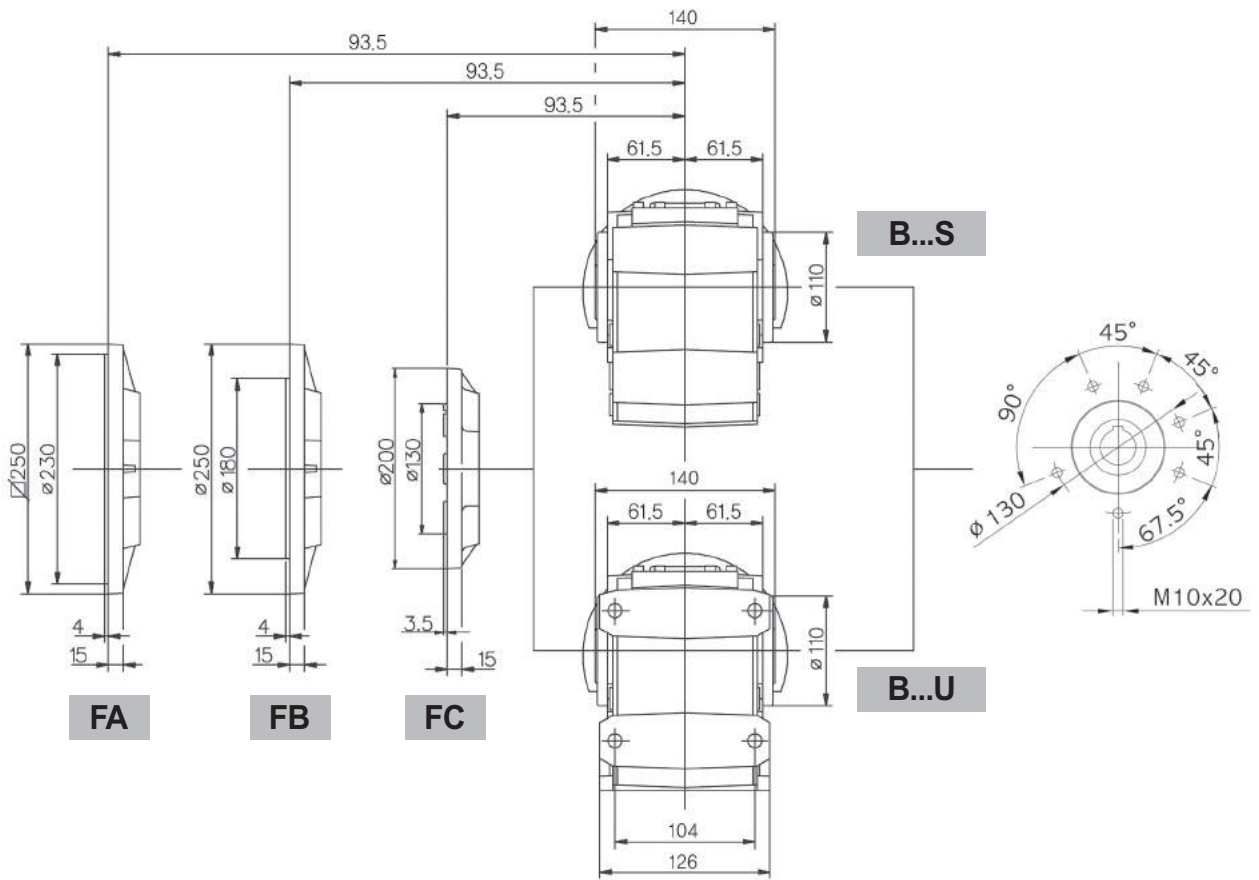
CB...U

(\*) 스페셜 키(높이가 낮은 키) 주문시양  
 (\*) Low profile key-way

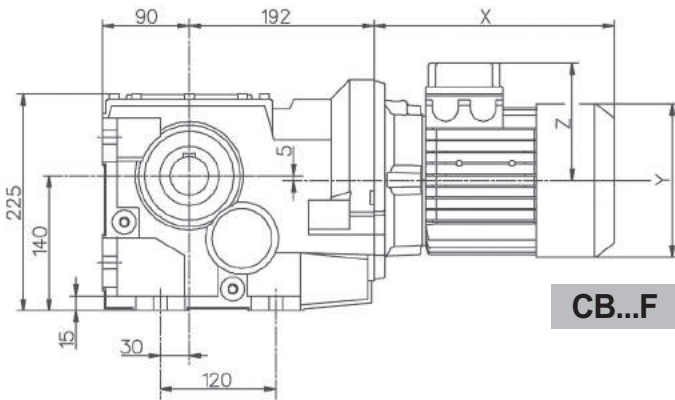
063	IB	PAM		표준모터 / Standard motor				브레이크 모터 / Brake motor			
	~ Kg	A	~ Kg	X	Y	Z	~ Kg	X	Y	Z	~ Kg
063	23,7	57	20,6	215	121	104	24,1	273	121	104	25,6
071		69	21	241	139	112	25	306,5	139	112	27,2
80		90	21,6	268	158	122	29,4	341	158	122	33,2
90s		90	21,6	296	173	130	33,6	373	173	130	39,1
90i		90	21,6	321	173	130	35,6	378	173	130	41,1
100		105	25,9	333	191	139	41,1	415	191	139	46,6
112		105	25,9	351	211	154	52,6	448	211	154	62,3

감속기에 취부할 모터의 dimensions (Pm,Dm,bm,tm)을 확인하려면 285페이지 참조

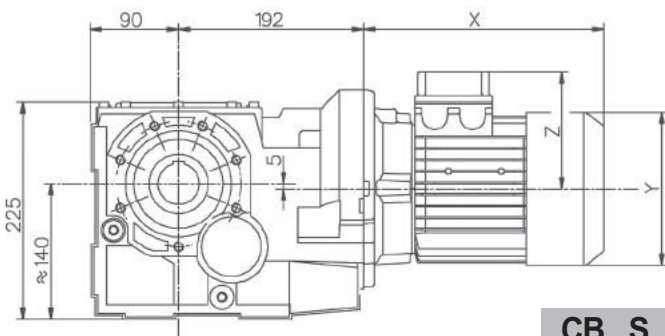
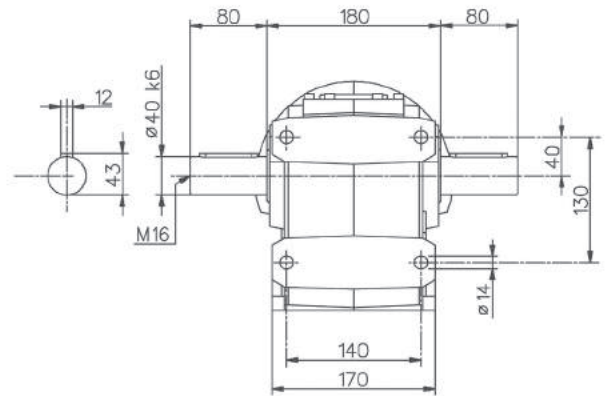
For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page 285.



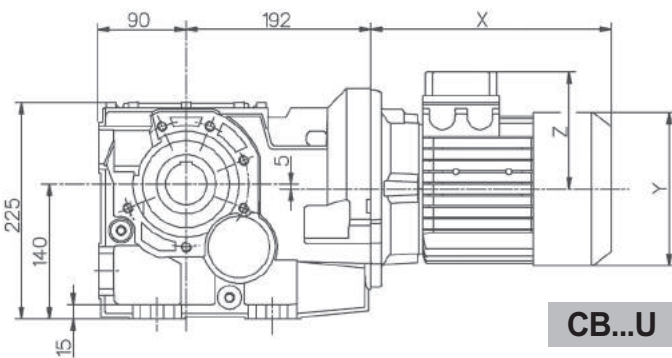
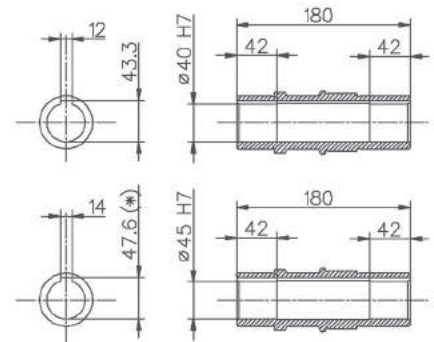
083 차수 / Dimensions



CB...F



CB...S



CB...U

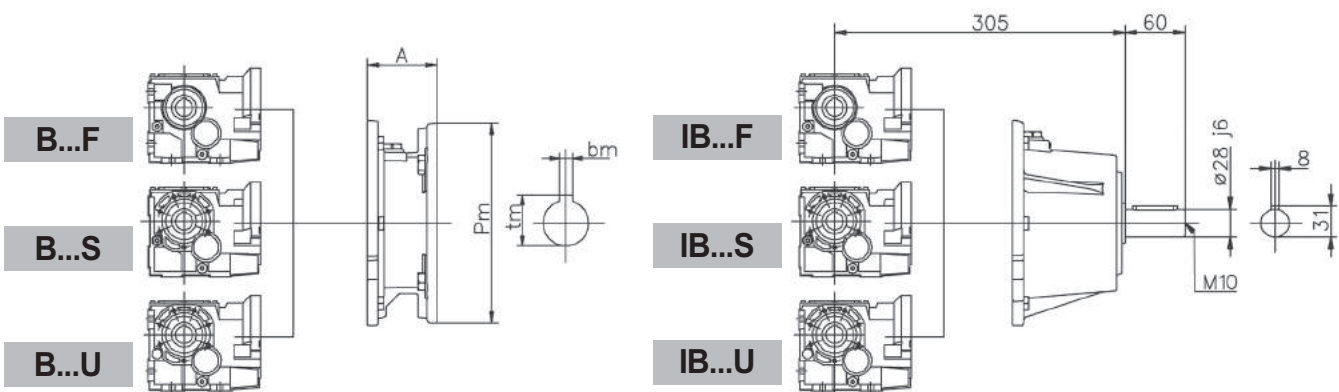
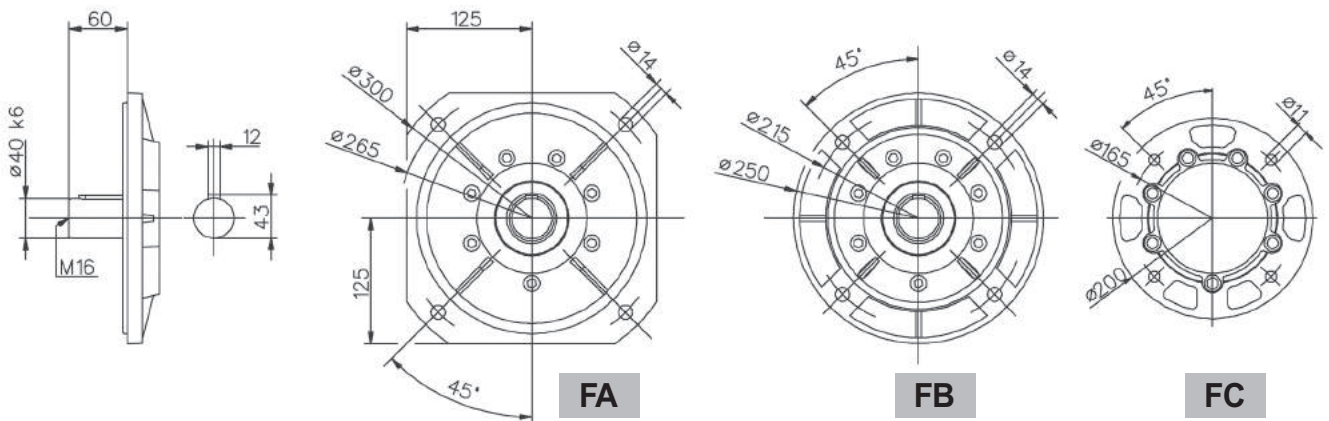
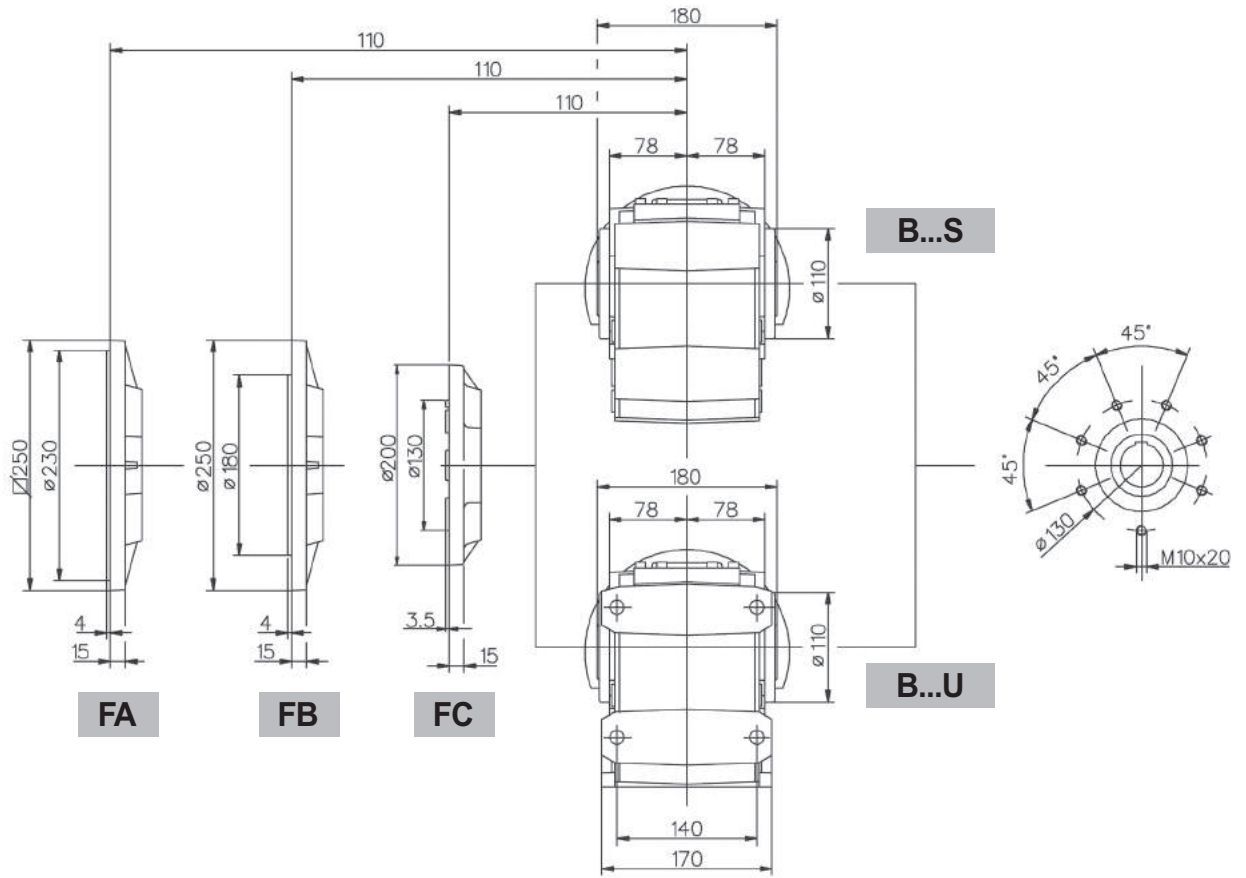
(\*) 스페셜 키(높이가 낮은 키) 주문사양  
 (\*) Low profile key-way

083	IB	PAM		표준모터 / Standard motor				브레이크 모터 / Brake motor			
	~ Kg	A	~ Kg	X	Y	Z	~ Kg	X	Y	Z	~ Kg
80	33,1	70	29,3	248	158	122	35,7	321	158	137	39,2
90s		70	29,3	276	173	130	38,1	353	173	130	43,6
90l		70	29,3	301	173	130	39,6	378	173	130	45,1
100		85	31,3	335	191	139	44,7	417	191	139	50,2
112		85	31,3	356	211	154	56,1	453	211	154	65,8
132s		110	33,8	396	249	194	70,1	495	249	194	80,3
132m		110	33,8	443	249	194	81,7	547	249	194	96,3

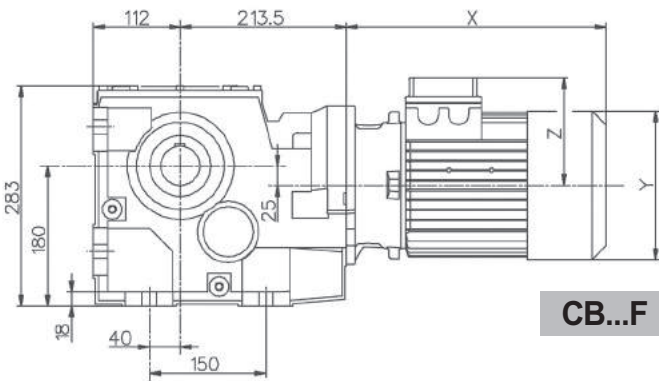
감속기에 취부할 모터의 dimensions (Pm,Dm,bm,tm)을 확인하려면 285페이지 참조

For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page 285.

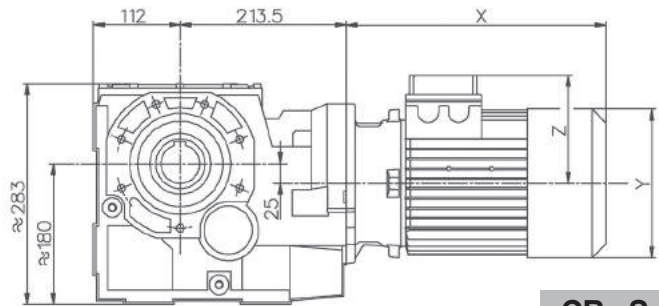
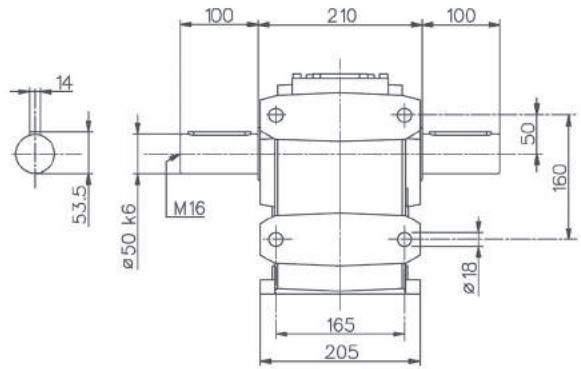




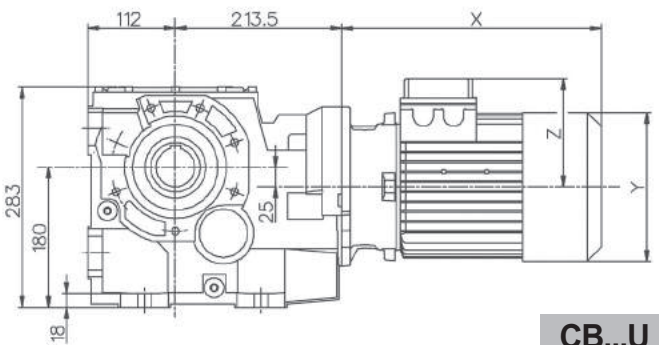
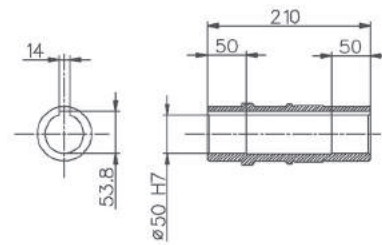
103 차수 / Dimensions



CB...F



CB...S

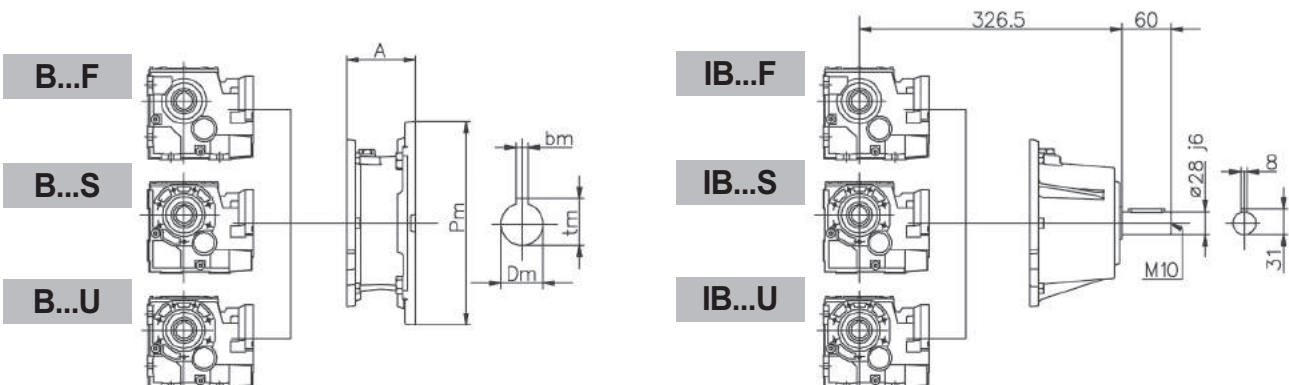
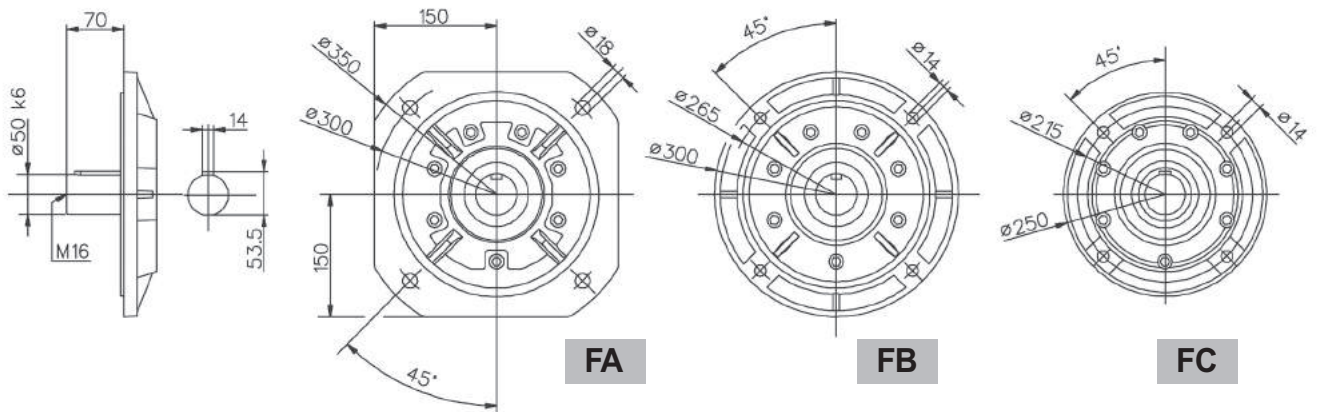
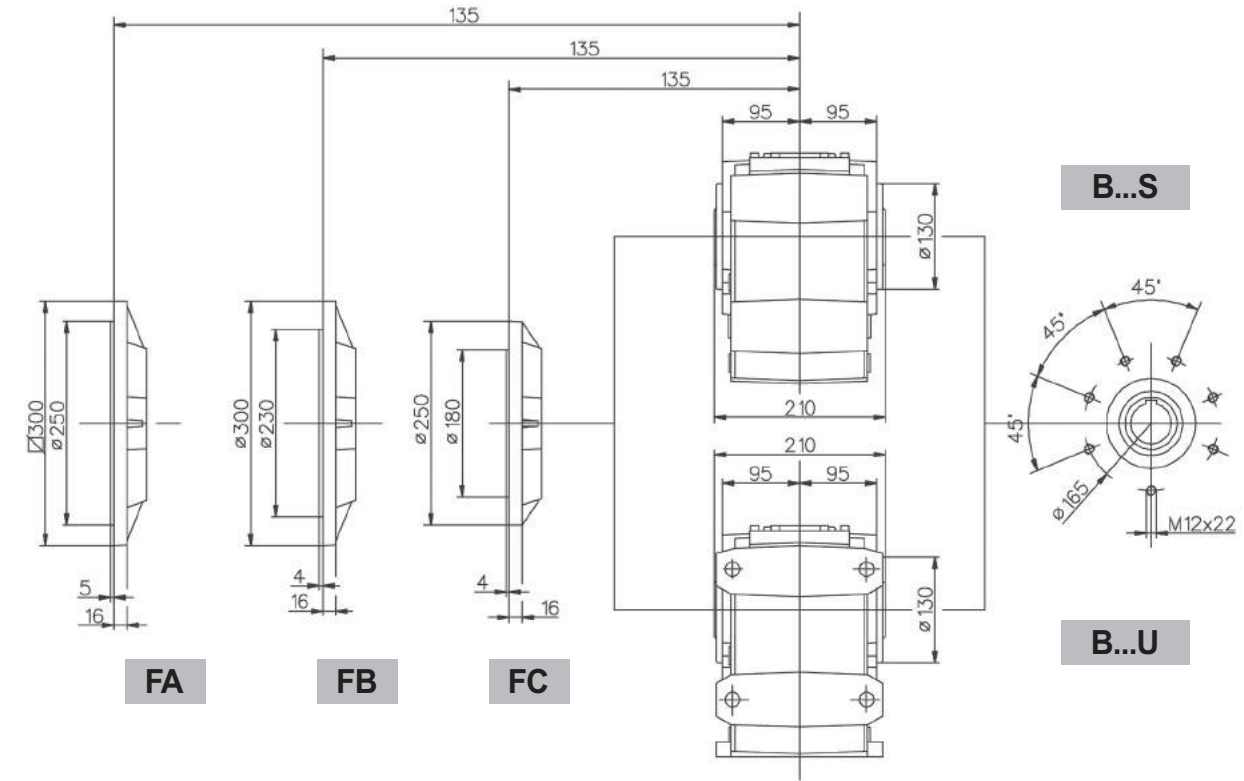


CB...U

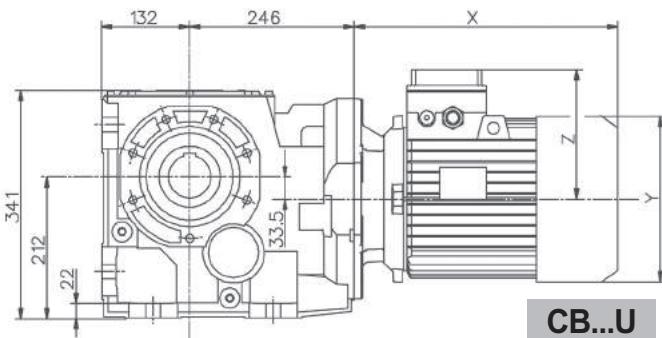
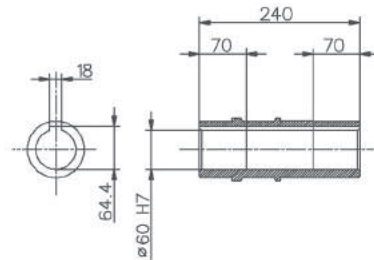
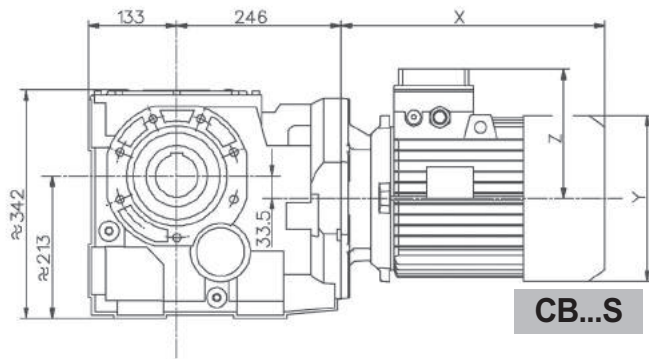
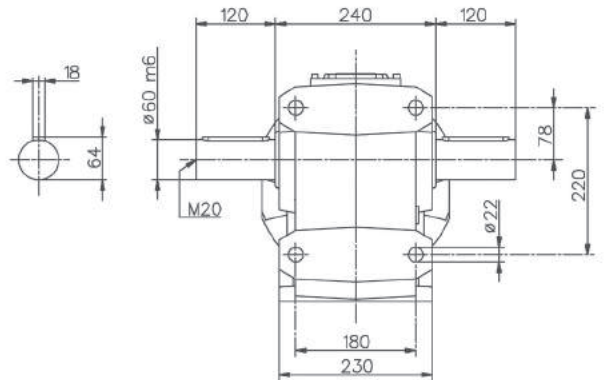
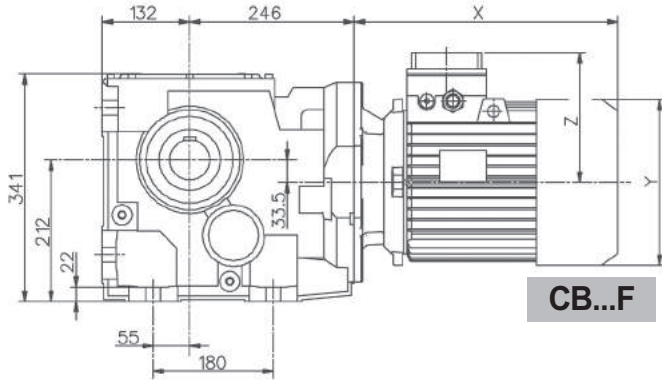
103	IB	PAM		표준모터 / Standard motor				브레이크 모터 / Brake motor			
	~ Kg	A	~ Kg	X	Y	Z	~ Kg	X	Y	Z	~ Kg
80	58,8	70	54,8	248	158	122	61,4	321	158	137	64,8
90s		70	54,8	276	173	130	63,8	353	173	130	69,3
90l		70	54,8	301	173	130	65,3	378	173	130	70,8
100		85	56,8	335	191	139	70,4	417	191	139	75,8
112		85	56,8	356	211	154	81,8	453	211	154	91,5
132s		110	59,5	396	249	194	95,8	495	249	194	106,1
132m		110	59,5	443	249	194	107,4	547	249	194	122,1
160s		158	66,2	522	310	244	-	-	-	-	-
160l	158	66,2	566	310	244	-	-	-	-	-	

감속기에 취부할 모터의 dimensions (Pm,Dm,bm,tm)을 확인하려면 285페이지 참조

For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page 285.



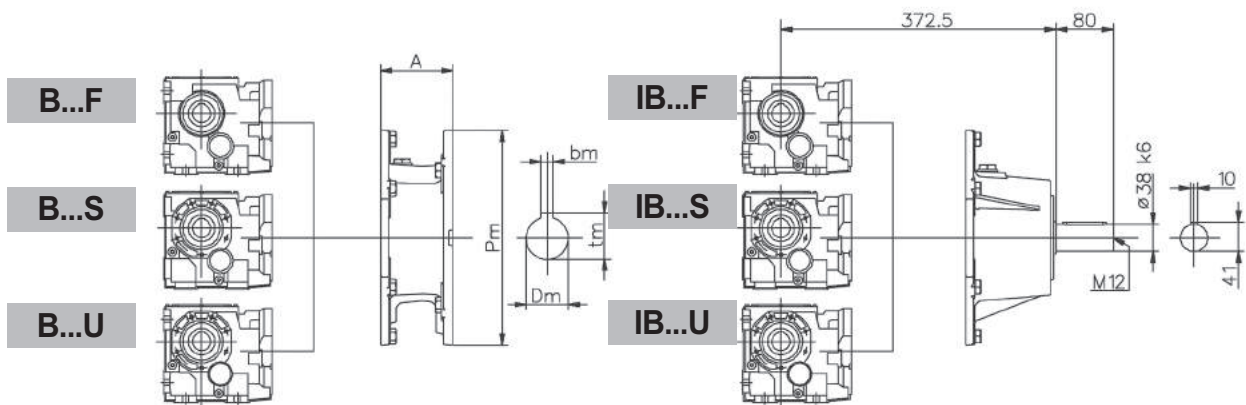
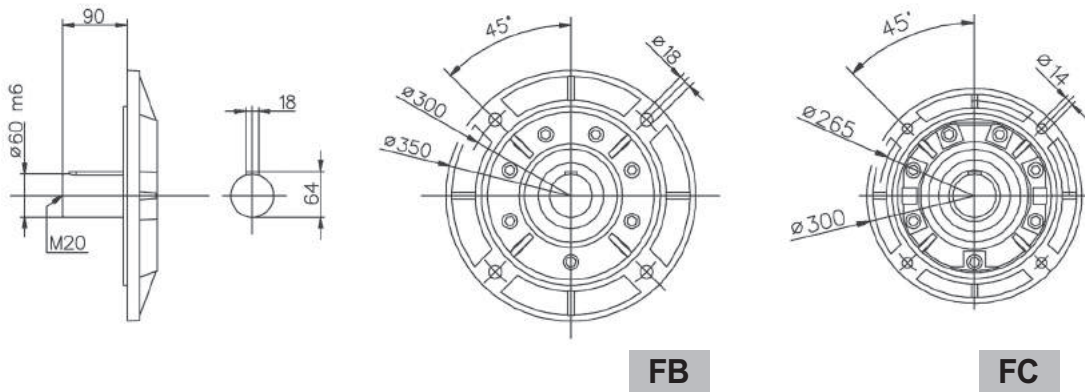
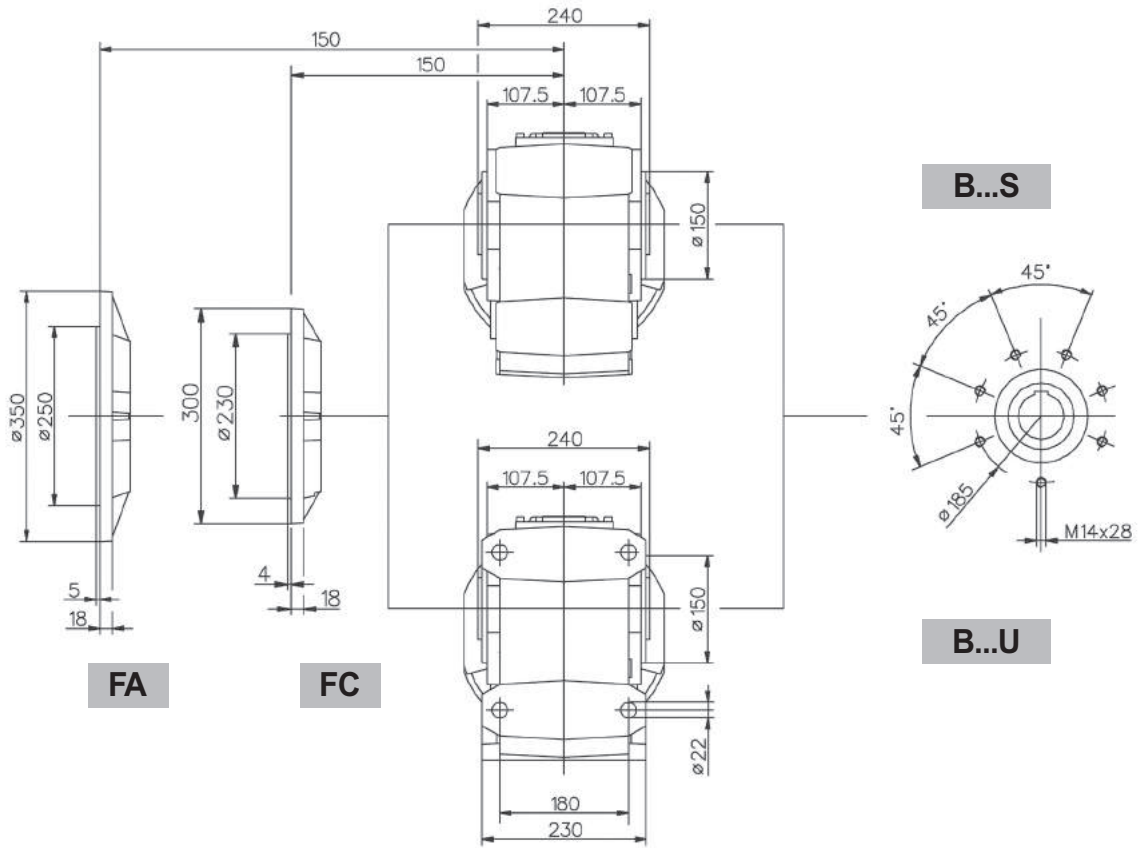
123 차수 / Dimensions



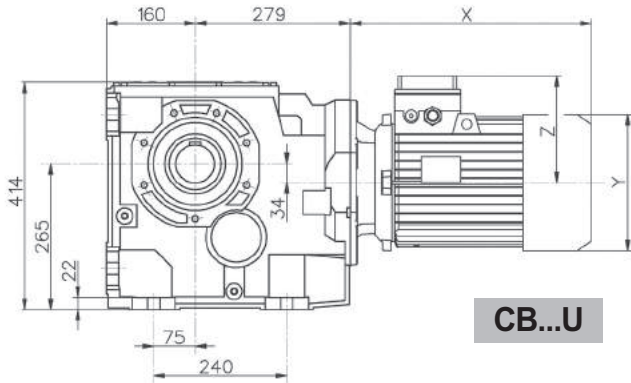
123	IB	PAM		표준모터 / Standard motor			브레이크 모터 / Brake motor				
	~ Kg	A	~ Kg	X	Y	Z	~ Kg	X	Y	Z	~ Kg
90s	86,5	61	76,6	267	173	130	85,7	343	173	130	91,2
90l		61	76,6	292	173	130	86,7	368	173	130	92,2
100		76	79	326	191	139	92,7	407	191	139	98,2
112		76	79	347	211	154	102,7	443	211	154	112,4
132s		101	81,7	386	249	194	117,7	485	249	194	128
132m		101	81,7	434	249	194	126,7	537	249	194	141,4
160s		148	87,7	540	310	244	-	-	-	-	-
160l		148	87,7	584	310	244	-	-	-	-	-
180		148	87,7	641	349	260	-	-	-	-	-

감속기에 취부할 모터의 dimensions (Pm,Dm,bm,tm)을 확인하려면 285페이지 참조

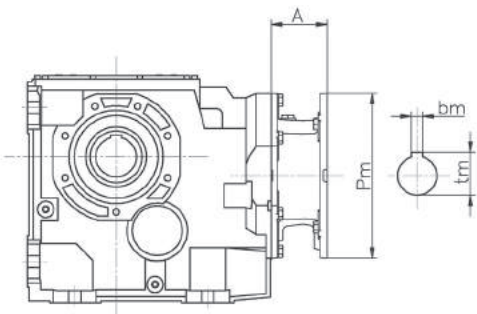
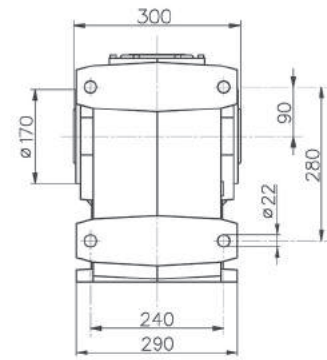
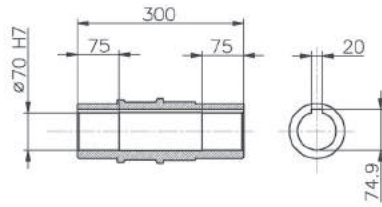
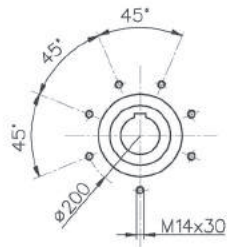
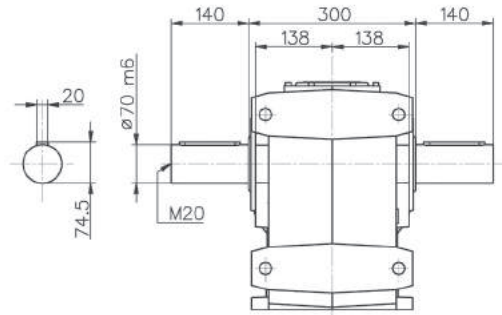
For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page 285.



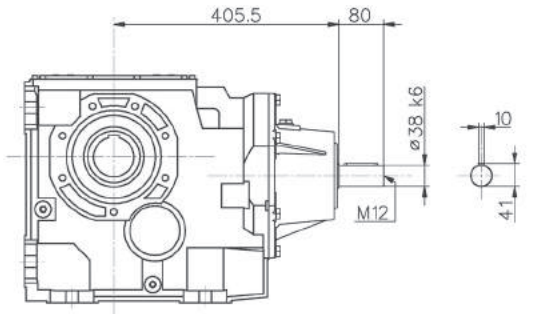
143 차수 / Dimensions



CB...U



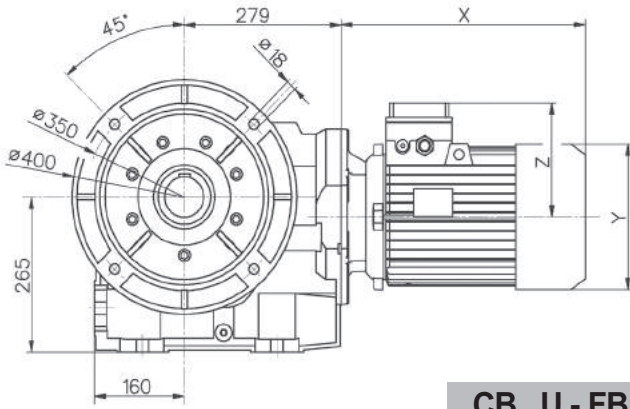
B...U



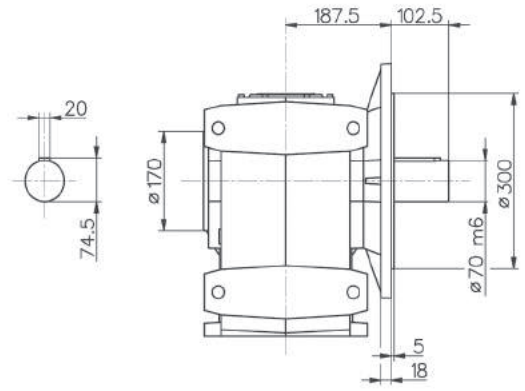
IB...U

143	IB	PAM		표준모터 / Standard motor				브레이크 모터 / Brake motor			
	~ Kg	A	~ Kg	X	Y	Z	~ Kg	X	Y	Z	~ Kg
100	132	76	124	326	191	139	138	407	191	139	143,5
112		76	124	347	211	154	148	443	211	154	158
132s		101	127	386	249	194	163	485	249	194	173
132m		101	127	434	249	194	172	537	249	194	187
160s		148	133	540	310	244	-	-	-	-	-
160l		148	133	584	310	244	-	-	-	-	-
180		148	133	641	349	260	-	-	-	-	-
200		185	148	-	-	-	-	-	-	-	-

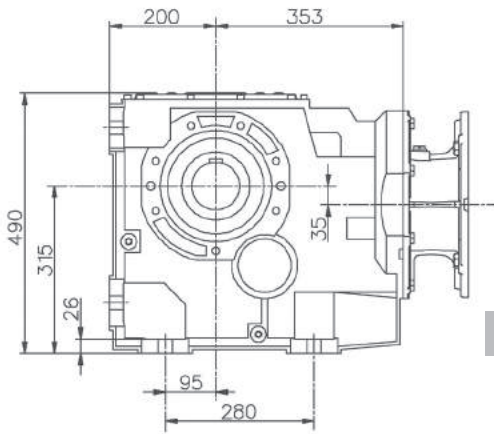
감속기에 취부할 모터의 dimensions (Pm,Dm,bm,tm)을 확인하려면 285페이지 참조  
 For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page 285.



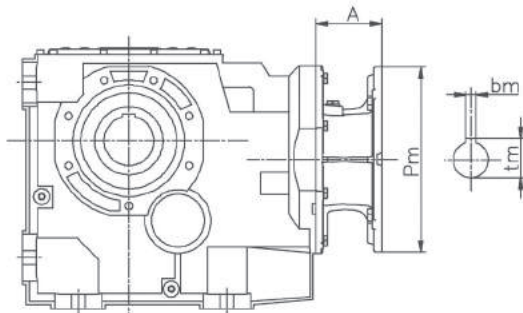
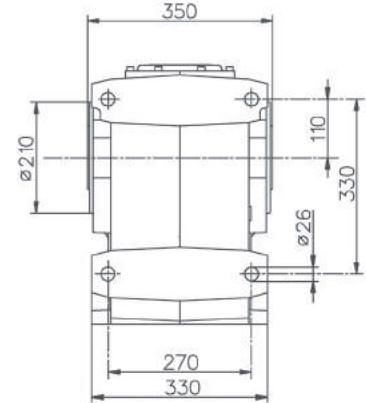
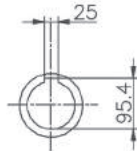
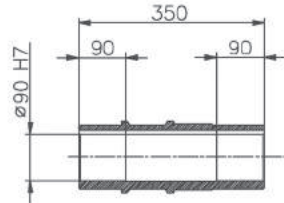
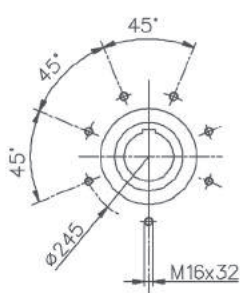
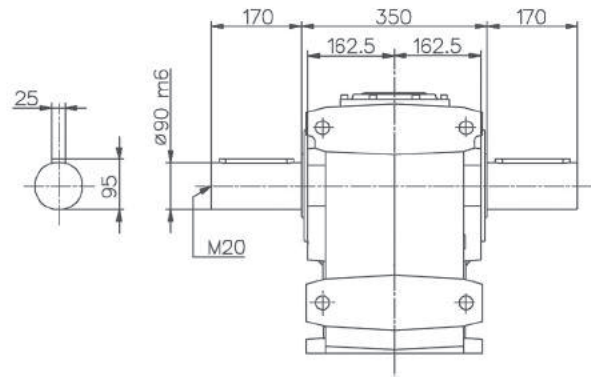
**CB...U - FB**



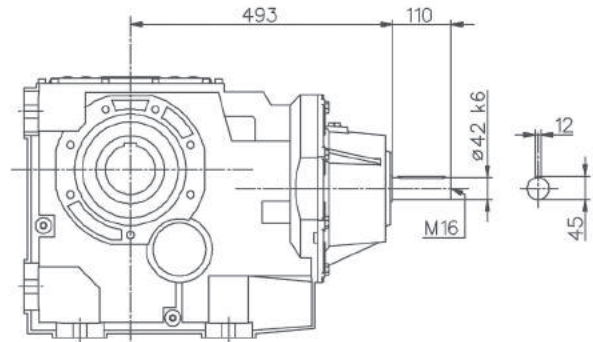
153 차수 / Dimensions



B...U



B...U



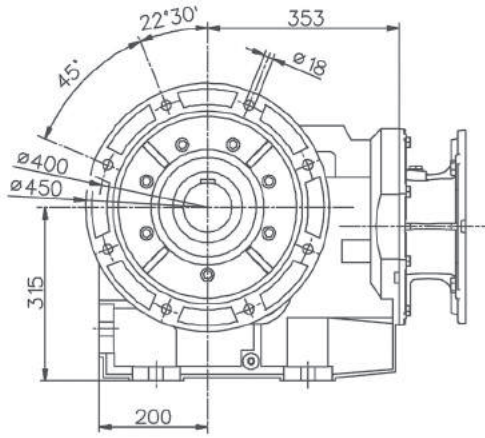
IB...U

153	IB	PAM		표준모터 / Standard motor				브레이크 모터 / Brake motor			
	~ Kg	A	~ Kg	X	Y	Z	~ Kg	X	Y	Z	~ Kg
132s	213	76	199	-	-	-	-	-	-	-	-
132m		76	199	-	-	-	-	-	-	-	-
160s		124	206,5	-	-	-	-	-	-	-	-
160l		124	206,5	-	-	-	-	-	-	-	-
180		124	206,5	-	-	-	-	-	-	-	-
200		161	221	-	-	-	-	-	-	-	-
225		161	223	-	-	-	-	-	-	-	-

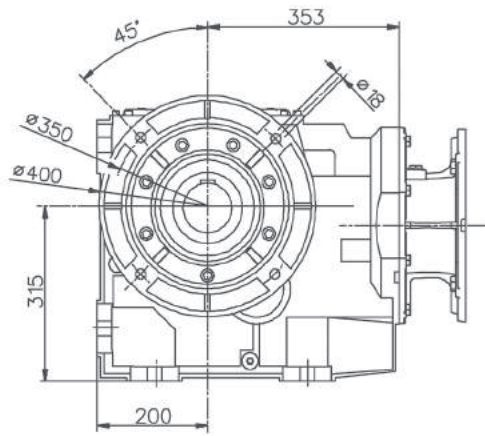
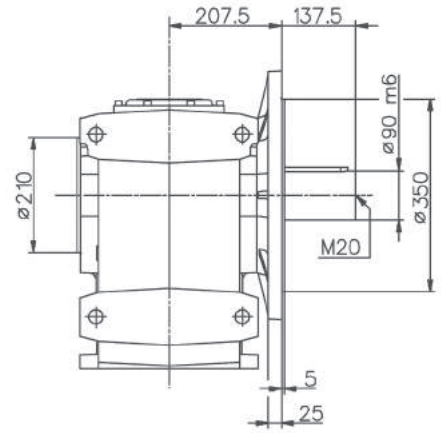
감속기에 취부할 모터의 dimensions (Pm,Dm,bm,tm)을 확인하려면 285페이지 참조

For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page 285.

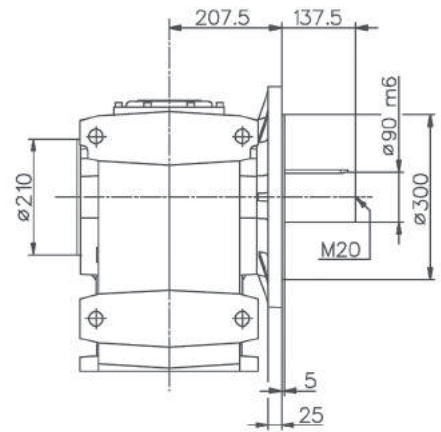




**B...U - FB**

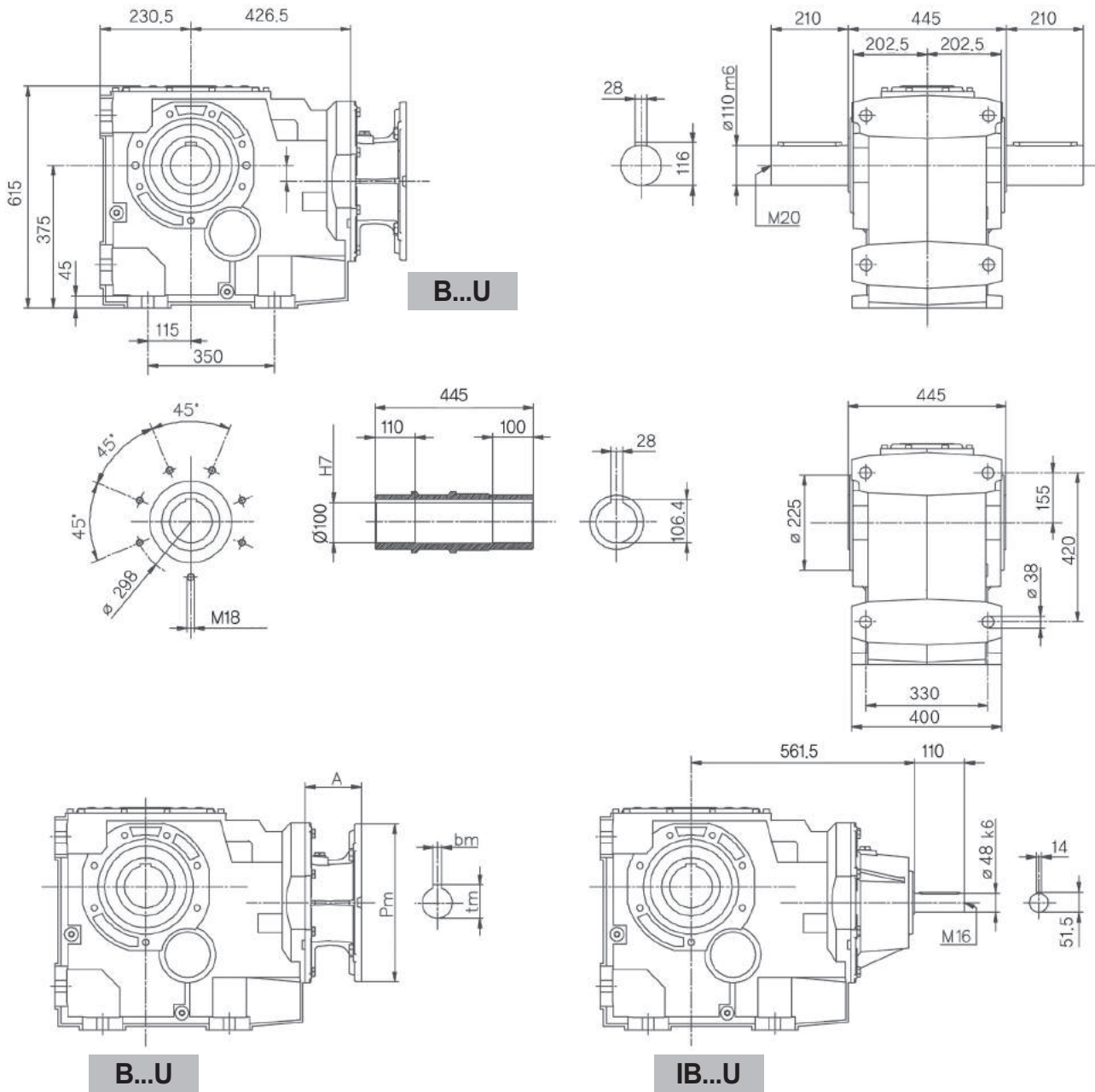


**B...U - FC**



163

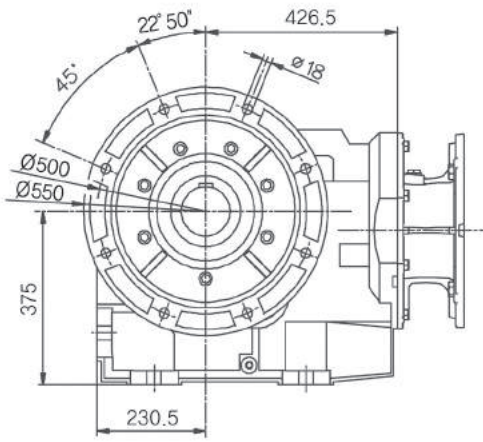
차수 / Dimensions



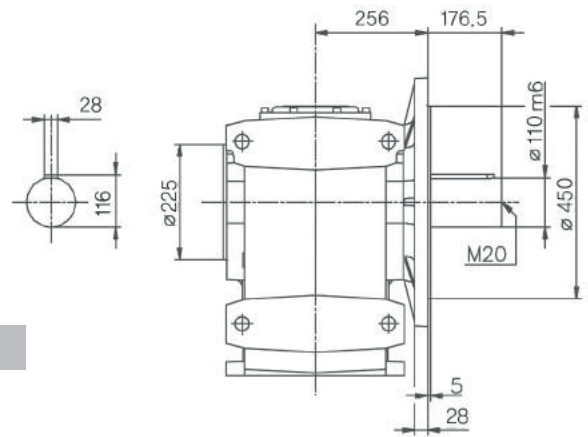
163	IB	PAM		표준모터 / Standard motor				브레이크 모터 / Brake motor			
	~ Kg	A	~ Kg	X	Y	Z	~ Kg	X	Y	Z	~ Kg
160	455,6	109	385,3	-	-	-	-	-	-	-	-
180		109	385,3	-	-	-	-	-	-	-	-
200		146	449,8	-	-	-	-	-	-	-	-
225		146	457,1	-	-	-	-	-	-	-	-
250		175	473,5	-	-	-	-	-	-	-	-
280		175	473,5	-	-	-	-	-	-	-	-

감속기에 취부할 모터의 dimensions (Pm,Dm,bm,tm)을 확인하려면 285페이지 참조

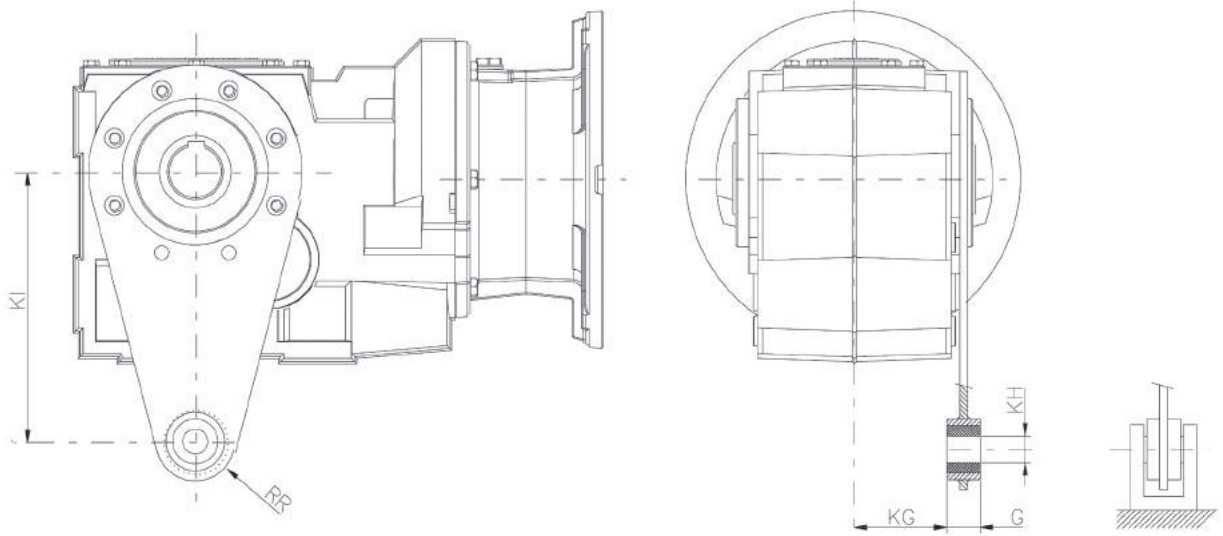
For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page 285.



**B...U - FB**

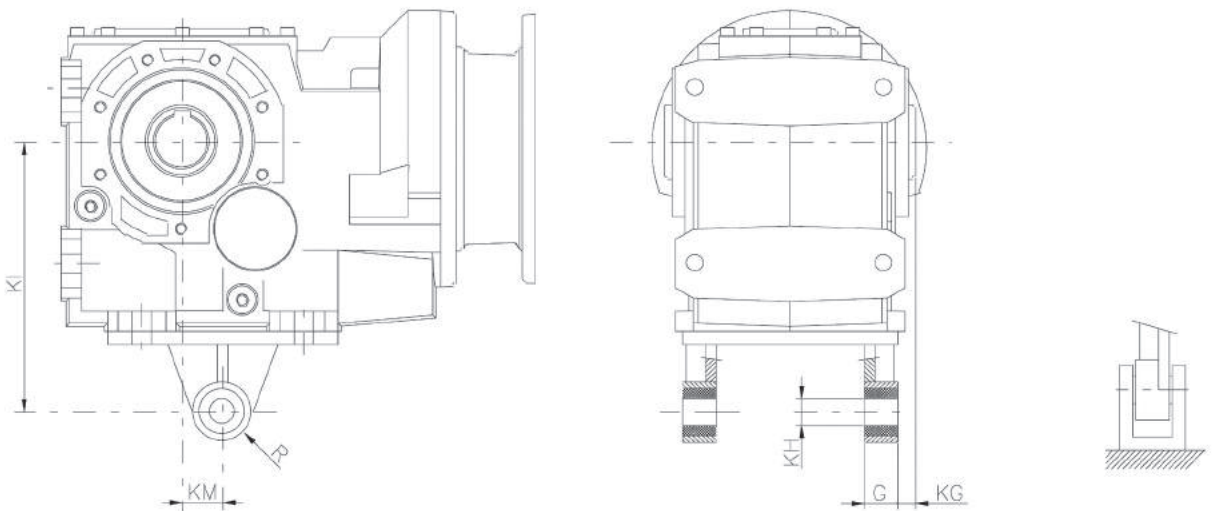


토크 암 / Torque arm



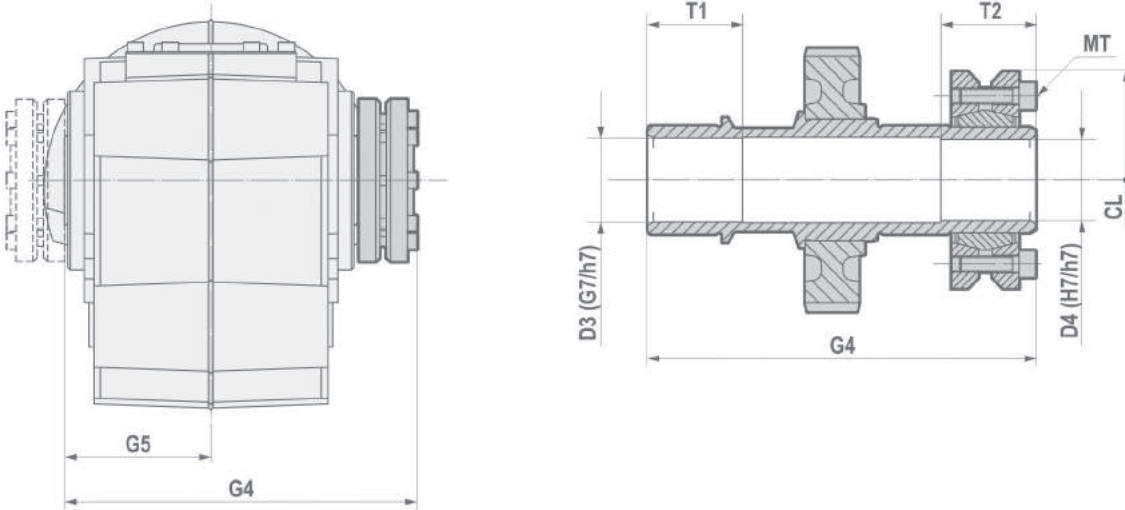
	KI	KG	KH	G	R
<b>A40</b>	100	41	10	14	18
<b>A50</b>	150	47	10	14	18
<b>A70</b>	200	55,5	20	25,5	30
<b>083 S</b>	200	68,5	20	25	30
<b>103 S</b>	250	83	25	30	35
<b>123 S</b>	300	91,5	25	40	40
<b>083 U</b>	200	78,5	20	25	30
<b>103 U</b>	250	95	25	30	35
<b>123 U</b>	300	103,5	25	40	40

토크 암 / Torque arm



	KM	KI	KG	KH	G	R
<b>143</b>	45	350	40	30	60	45
<b>153</b>	45	450	45	30	60	45
<b>163</b>	60	550	7,5	40	110	65

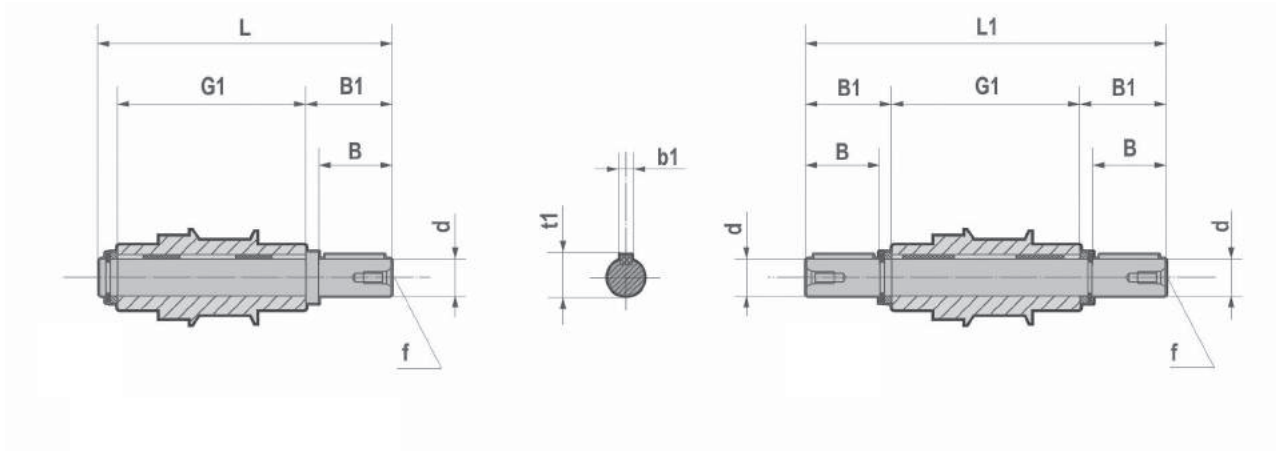
샤링크 디스크 / Shrink disc



	D3	D4	G4	G5	T1	T2	CL	MT 12.9 (Nm)
<b>A40</b>	24	24	130	50	25	35	72	15
<b>A50</b>	31	30	143	56	35	35	80	15
<b>A70</b>	36	35	173	70	40	35	80	15
<b>O63</b>	36	35	173	70	40	35	80	15
<b>O80</b>	41	40	217	90	50	40	100	15
<b>100</b>	51	50	248	105	55	40	115	15
<b>125</b>	61	60	282	120	60	50	145	40
<b>140</b>	72	70	355	150	70	65	170	50
<b>150</b>	92	90	415	175	80	75	184	70
<b>163</b>	102	100	512	222,5	100	100	215	70

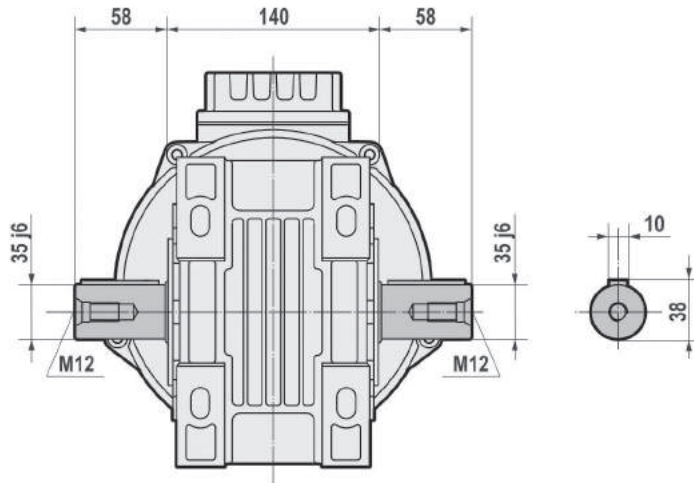
- 사용할 샤프트에 그리스가 묻어 있지 않도록 깨끗이 해야한다.(HT). 상기표에 나타난 토오크로 스크류를 조여야 한다.
- Clean and degrease the surfaces of the shaft to be fitted to. Comply with the indicated tightening torque of screws (MT).

출력 샤프트 / Low speed shafts

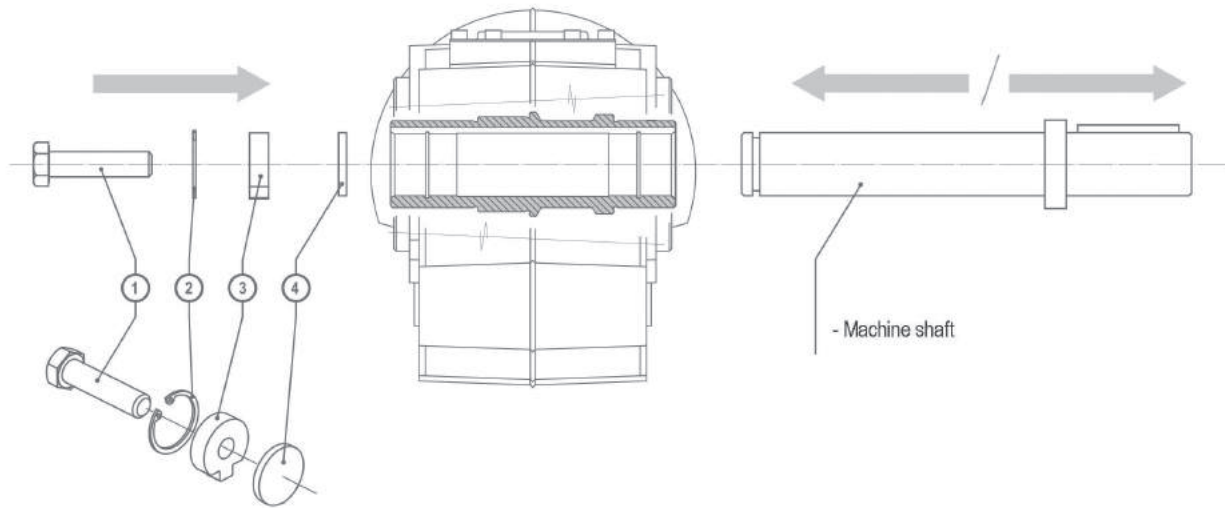


	d h6	B	B1	G1	L	L1	f	b1	t1
<b>A40</b>	20	40	43,5	100	151	187	M6	6	22,5
<b>A50</b>	25	50	53,5	112	173	219	M10	8	58
<b>060</b>	35	58	62	140	210,5	264	M12	10	38
<b>080</b>	40	80	84,25	180	273	348,5	M16	12	43
<b>100</b>	50	100	105	210	325	420	M16	14	53,5
<b>125</b>	60	120	125	240	375	490	M20	18	64
<b>140</b>	70	140	146	300	458	592	M20	20	74,5
<b>150</b>	90	170	176,5	350	540	703	M20	25	95
<b>160</b>	100	210	217,5	445	677	880	M20	28	106

BA70



조립부품 / Assembling/disassembling kit



조립부품  
(Assembling/disassembling kit)

**KO**

마운트/Key way와 증공축 감속기의 분리를 위한 키트. 옵션 사항으로 별도 주문 요청을 하여야 함.

1. Retaining bolt
2. Circlip
3. Fixed nut
4. Forcing washer

Assembling/disassembling kit

**UK**

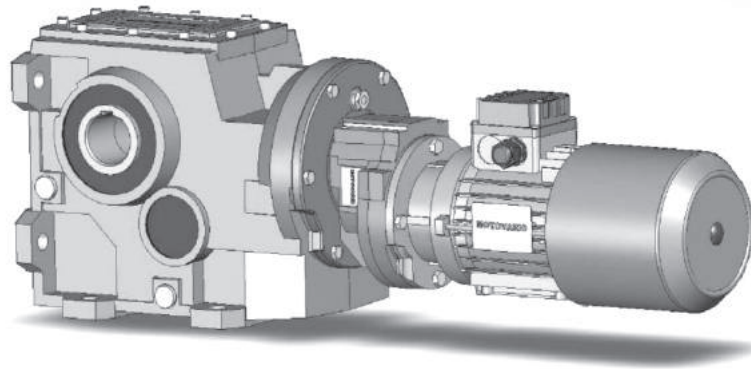
Mounting/dismounting kit for hollow shaft gear reducers with keyway.

On request delivery includes :

1. Retaining bolt
2. Circlip
3. Fixed nut
4. Forcing washer







## 헬리컬 베벨 4단 조합 유닛 Bevel Helical 4 stage units

조합 가능 / 감속 비율

Available ratios

	H041+B083	H041+B103	H061+B123	H061+B143	H081+B153	H101+B163
i	142,1	147,6	142,2	178,3	164,3	166,9
	166,3	172,7	165,5	193,4	188,2	188,7
	198	205,6	179,6	230,6	202,2	215,3
	217,8	226,2	214,1	253,8	236	248,6
	241,2	250,5	235,7	281,5	280	268,6
	305,4	288	261,2	309,8	307,6	317,8
	345,7	342,9	311,6	343,4	337,4	367,5
	421,7	417,7	345,3	408	370,6	434,8
	505,9	574	404	497,7	464,6	547,4
	553,1	631,4	479,2	598,4	510,3	647,6
	612,6	699,2	519,8	713,4	629,2	665,1
	771	880,1	619,8	785,3	743,6	784,2
	880	1004,5	682,3	983	816,8	786,9
	1109,9	1266,9	947,1	1089,4	1007	952,9
	1266,7	1445,9	1049,6	1373,1	1133,8	1060,8
			13213	1568,1	1396,8	1300,6
		1510,9				

**감속 비율에 따른 최대허용 용량**
**Selection table**
**H041 + B083**
**M2max**
**935Nm**

i	P1 (kW)	M2 (Nm)	n2	Fr2(a) n1B (N)	Fr2(b) n1B (N)
142,1	1,11	935	9,9	18.000,0	6.438,3
166,3	0,95	935	8,4	18.000,0	6.438,3
198,0	0,80	935	7,1	18.000,0	6.438,3
217,8	0,72	935	6,4	18.000,0	6.438,3
241,2	0,65	935	5,8	18.000,0	6.438,3
305,4	0,52	935	4,6	18.000,0	7.326,0
345,7	0,46	935	4,0	18.000,0	7.957,4
421,1	0,37	935	3,3	18.000,0	7.957,4
502,9	0,31	935	2,8	18.000,0	9.146,5
553,1	0,28	935	2,5	18.000,0	9.146,5
612,6	0,26	935	2,3	18.000,0	9.146,5
771,0	0,20	935	1,8	18.000,0	9.146,5
880,0	0,18	935	1,6	18.000,0	9.146,5
1109,9	0,14	935	1,3	18.000,0	9.500,0
1266,7	0,12	935	1,1	18.000,0	9.500,0

**Fr2(a)** = FD, FS, FP, SD, SS, SP, UC, UD, US, UP

**Fr2(b)** = FC, FL, FM, SC, SL, SM, UL, UM + B083UC Ø45

감속 비율에 따른 최대허용 용량

Selection table

H041 + B103

M2max

1985Nm

i	P1 (kW)	M2 (Nm)	n2	Fe2(a) n1B (N)	Fe2(b) n1B (N)
147,6	2,14	1870	9,5	9,5	7.676,9
172,7	1,82	1870	8,1	8,1	7.676,9
205,6	1,53	1870	6,8	6,8	7.676,9
226,2	1,39	1870	6,2	6,2	7.676,9
250,5	1,26	1870	5,6	5,6	7.676,9
288,0	1,09	1870	4,9	4,9	9.370,9
342,9	0,92	1870	4,1	4,1	9.370,9
417,7	0,75	1870	3,4	3,4	9.370,9
574,0	0,58	1980	2,4	2,4	11.302,5
631,4	0,53	1980	2,2	2,2	11.302,5
699,2	0,48	1980	2,0	2,0	11.302,5
880,1	0,38	1980	1,6	1,6	11.302,5
1004,5	0,33	1980	1,4	1,4	11.302,5
1266,9	0,26	1980	1,1	1,1	11.776,0
1445,9	0,23	1980	1,0	1,0	11.776,0

Fr2(a) = FD, FS, FP, SD, SS, SP, UC, UD, US, UP

Fr2(b) = FC, FL, FM, SC, SL, SM, UL, UM

**감속 비율에 따른 최대허용 용량**
**Selection table**
**H061 + B123**
**M2max**
**3500Nm**

i	P1 (kW)	M2 (Nm)	n2	Fe2(a) n1B (N)	Fe2(b) n1B (N)
142,2	4,56	3300	9,8	3000,0	9.124,5
165,5	3,92	3300	8,5	3000,0	9.124,5
179,6	3,61	3300	7,8	3000,0	9.124,5
214,1	3,03	3300	6,5	3000,0	9.124,5
235,7	2,75	3300	5,9	3000,0	9.124,5
261,2	2,48	3300	5,4	3000,0	9.124,5
311,6	2,08	3500	4,5	3000,0	10.135,4
345,3	1,88	3500	4,1	3000,0	10.135,4
404,0	1,61	3500	3,5	3000,0	14.058,0
479,2	1,35	3500	2,9	3000,0	14.058,0
519,8	1,25	3500	2,7	3000,0	14.058,0
619,8	1,05	3500	2,3	3000,0	14.058,0
682,3	0,95	3500	2,1	3000,0	14.766,0
947,1	0,68	3500	1,5	3000,0	14.766,0
1049,6	0,62	3500	1,3	3000,0	14.766,0
1323,0	0,49	3500	1,1	3000,0	14.766,0
1510,9	0,43	3500	0,9	3000,0	14.766,0

**Fr2(a)** = FD, FS, FP, SD, SS, SP, UC, UD, US, UP

**Fr2(b)** = FC, FL, FM, SC, SL, SM, UL, UM

감속 비율에 따른 최대허용 용량

Selection table

H061 + B143

M2max

5500Nm

i	P1 (kW)	M2 (Nm)	n2	Fe2(a) n1B (N)	Fe2(b) n1B (N)
178,3	5,20	5500	7,9	31138,8	31.138,8
193,4	4,79	5500	7,2	31138,8	31.138,8
230,6	4,02	5500	6,1	31138,8	31.138,8
253,8	3,65	5500	5,5	31138,8	31.138,8
281,5	3,29	5500	5,0	34597,2	34.597,2
309,8	2,99	5500	4,5	34597,2	34.597,2
343,4	2,70	5500	4,1	34597,2	34.597,2
408,0	2,27	5500	3,4	41679,0	41.679,0
497,7	1,86	5500	2,8	41679,0	41.679,0
598,4	1,55	5500	2,3	45000,0	45.000,0
713,4	1,30	5500	2,0	45000,0	45.000,0
785,3	1,18	5500	1,8	45000,0	45.000,0
983,0	0,94	5500	1,4	45000,0	45.000,0
1089,4	0,85	5500	1,3	45000,0	45.000,0
1373,1	0,67	5500	1,0	45000,0	45.000,0
1568,1	0,59	5500	0,9	45000,0	45.000,0

Fr2(a) = FD, FS, FP, SD, SS, SP, UC, UD, US, UP

Fr2(b) = FC, FL, FM, SC, SL, SM, UL, UM

**감속 비율에 따른 최대허용 용량**
**Selection table**
**H081 + B153**
**M2max**
**8800Nm**

i	P1 (kW)	M2 (Nm)	n2	Fe2(a) n1B (N)	Fe2(b) n1B (N)
164,3	9,02	8800	8,5	59.646,4	59.646,4
188,2	7,88	8800	7,4	59.646,4	59.646,4
202,2	7,33	8800	6,9	59.646,4	59.646,4
236,0	6,28	8800	5,9	59.646,4	59.646,4
280,0	5,30	8800	5,0	59.646,4	59.646,4
307,6	4,82	8800	4,6	59.646,4	59.646,4
337,4	4,39	8800	4,1	64.248,8	64.248,8
370,6	4,00	8800	3,8	64.248,8	64.248,8
464,6	3,19	8800	3,0	65.000,0	65.000,0
510,3	2,91	8800	2,7	65.000,0	65.000,0
629,2	2,36	8800	2,2	65.000,0	65.000,0
743,6	1,99	8800	1,9	65.000,0	65.000,0
816,8	1,82	8800	1,7	65.000,0	65.000,0
1007,0	1,47	8800	1,4	65.000,0	65.000,0
1133,8	1,31	8800	1,2	65.000,0	65.000,0
1396,8	1,06	8800	1,0	65.000,0	65.000,0

**Fr2(a)** = FD, FS, FP, SD, SS, SP, UC, UD, US, UP  
**Fr2(b)** = FC, FL, FM, SC, SL, SM, UL, UM

감속 비율에 따른 최대허용 용량

Selection table

H101 + B163

M2max

14300Nm

i	P1 (kW)	M2 (Nm)	n2	Fe2(a) n1B (N)	Fe2(b) n1B (N)
166,9	14,44	14.300	8,4	65.000,0	80.000,0
188,7	12,77	14.300	7,4	65.000,0	80.000,0
215,3	11,19	14.300	6,5	65.000,0	80.000,0
248,6	96,9	14.300	5,6	65.000,0	80.000,0
268,6	89,7	14.300	5,2	65.000,0	80.000,0
317,8	75,8	14.300	4,4	65.000,0	80.000,0
347,5	65,6	14.300	3,8	65.000,0	80.000,0
434,8	55,4	14.300	3,2	65.000,0	80.000,0
547,4	44,0	14.300	2,6	65.000,0	80.000,0
647,6	37,2	14.300	2,2	65.000,0	80.000,0
665,1	36,2	14.300	2,1	65.000,0	80.000,0
784,2	30,7	14.300	1,8	65.000,0	80.000,0
786,9	30,6	14.300	1,8	65.000,0	80.000,0
952,9	25,3	14.300	1,5	65.000,0	80.000,0
1060,8	22,7	14.300	1,3	65.000,0	80.000,0
1300,6	18,5	14.300	1,1	65.000,0	80.000,0

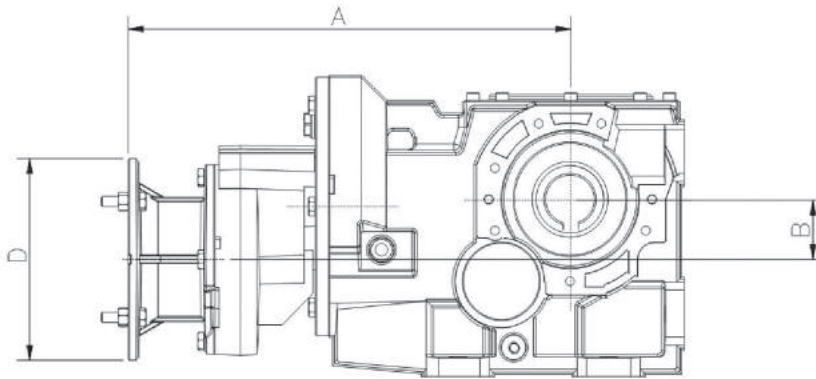
Fr2(a) = FD, FS, FP, SD, SS, SP, UC, UD, US, UP

Fr2(b) = FC, FL, FM, SC, SL, SM, UL, UM



**치수**

**Dimensions**



Gearbox	PAM	A (mm)	B (mm)	D (mm)
<b>H041 + B083</b>	071	352	<b>47</b>	160
	080	373		200
	090	373		200
<b>H041 + B103</b>	071	373,5	<b>67</b>	160
	080	394,5		200
	090	394,5		200
<b>H061 + B123</b>	080	456	<b>93,5</b>	200
	090	456		200
	100-112	471		250
<b>H061 + B143</b>	080	471	<b>94</b>	200
	090	489		200
	100-112	489		250
<b>H081 + B153</b>	080	504	<b>115</b>	200
	090	504		200
	100-112	541		250
	132	541		300
<b>H101 + B163</b>	080	556	<b>147</b>	200
	090	556		200
	100-112	581		250
	132	652,5		300
	160	652,5		350
	180	667,5		350

※ "A"는 상황에 따라 달라질 수 있음.

