

DC Motor 90W(□ 90mm)

90W DC Motor 90W(□ 90mm)

Motor 사양

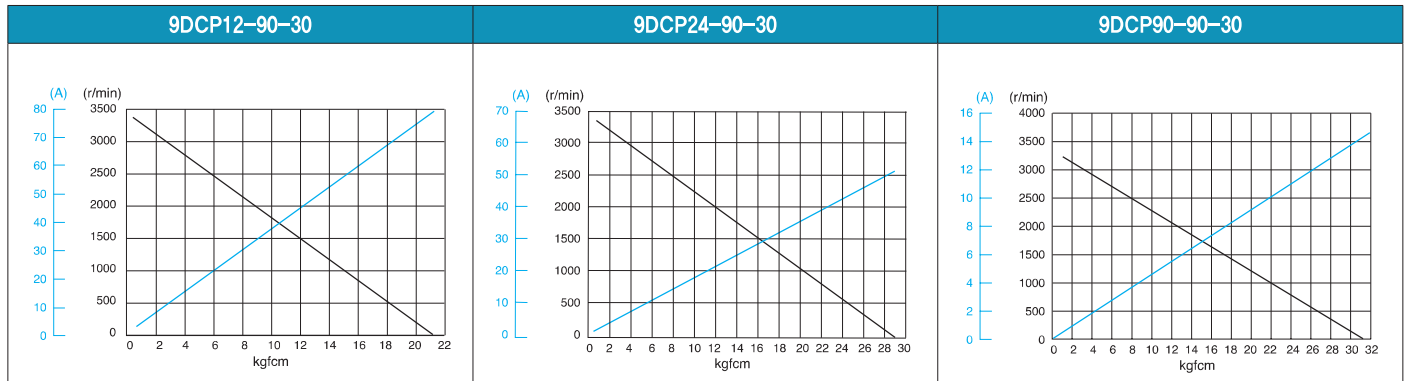
Model 9DCP(W)*-90-30: Gear Type Shaft 9DCD*-90-30: D-Cut Type Shaft 9DCK*-90-30: Key Type Shaft	Output W	Voltage V	No Load		Starting Torque		Starting Current A	Rated Load			
			Speed r/min	Current A	kgfcm	N.m		Speed r/min	Current A	kgfcm	N.m
9DC◇12-90-30	90	12	3400	3.50	21.00	2.100	67.00	3000	11.00	2.92	0.292
9DC◇24-90-30	90	24	3050	1.10	25.50	2.550	33.00	2700	5.00	2.92	0.292
9DC◇90-90-30	90	90	3200	0.30	31.90	3.190	14.50	3000	1.50	2.92	0.292

1) 모터 모델명 * 자리에는 전압코드가 들어갑니다.

2) 모터 모델명 ◇ 자리에는 모터의 출력축 타입명이 들어갑니다.

3) Gear Type Shaft는 감속기 부착용이며 D-Cut 및 Key Type Shaft는 모터 단독 사용시의 출력축입니다.

Performance Curve



감속기 부착 시 최대허용토크

Motor Model	Gearbox Model	감속비	2	3	3.6	5	6	7.5	9	10	12.5	15	18	20
		r/min	1500	1000	833	600	500	400	333	300	240	200	167	150
9DCP*-90-30	9PBK□BH 9PFK□BH	kgfcm	4.7	7.1	8.5	11.8	14.2	17.7	21.3	23.7	26.6	32.0	38.4	42.6
		N.m	0.46	0.70	0.83	1.16	1.39	1.74	2.09	2.32	2.61	3.13	3.76	4.18

Motor Model	Gearbox Model	감속비	25	30	36	40	50	60	75	90	100	120	150	180	200
		r/min	120	100	83	75	60	50	40	33	30	25	20	17	15
9DCP*-90-30	9PBK□BH 9PFK□BH	kgfcm	48.2	57.8	69.4	77.1	96.4	115.6	129.2	155.1	172.3	200.0	200.0	200.0	200.0
		N.m	4.72	5.67	6.80	7.55	9.44	11.33	12.66	15.20	16.88	19.60	19.60	19.60	19.60

Motor Model	Gearbox Model	감속비	10	12	15	18	25	30	36	50	60
		r/min	300	250	200	167	120	100	83	60	50
9DCW*-90-30	9WD□BL/□BR/□BRL	kgfcm	23.9	28.0	33.7	38.9	51.1	57.8	67.3	87.6	96.4
		N.m	2.35	2.75	3.31	3.81	5.01	5.67	6.59	8.58	9.44

1) 모터 모델명 * 자리에는 전압코드가 들어갑니다.

2) 감속기 모델명 □ 안에는 감속비가 들어갑니다.

3) 위의 표에서 색칠된 범위의 감속비를 선택했을 때 감속기의 출력축은 모터의 출력축과 같은 방향으로 회전합니다.

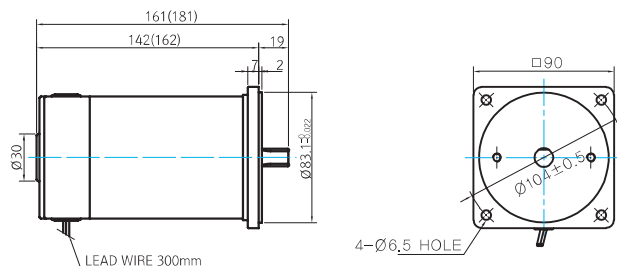
흰색 바탕 범위의 감속비에서는 감속기 출력축은 모터 출력축의 회전방향과 반대방향으로 회전합니다.

4) 회전속도(r/min)는 모터의 동기회전속도(50Hz:1500r/min, 60Hz:1800r/min)를 감속비로 나누어 계산합니다. 실제 회전속도는 부하의 크기에 따라 표시보다 2~20% 정도 느립니다.

Dimensions

MOTOR ONLY

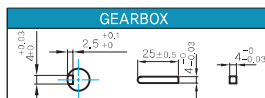
- MOTOR MODEL: 9DC□-90-30



MOTOR OUTPUT SHAFT

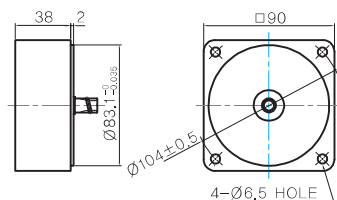
MODEL	SPEC
D-CUT TYPE	37 30 ^{+0.2} ₋₀ 1 ^{+0.1} ₋₀ Ø12 ^{+0.08} ₋₀
KEY TYPE	37 25 ^{+0.2} ₋₀ Ø12 ^{+0.08} ₋₀
9DC□-90-30	
9DCK□-90-30	

KEY SPEC



중간감속기

- MODEL: 9XD10□□



142(162)-Table1

SIZE(mm)	MOTOR VOLTAGE
142	24V, 90V
162	12V

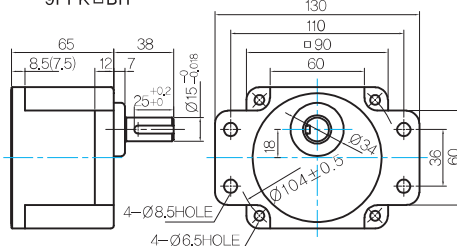
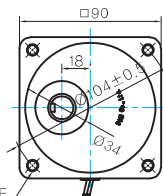
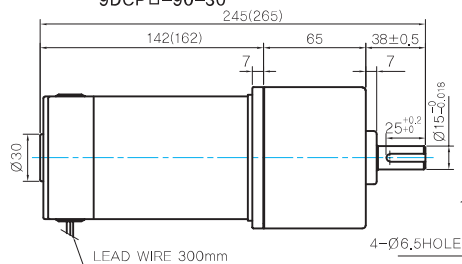
GEARED MOTOR

P TYPE GEARBOX

- MOTOR MODEL: 9DCP□-90-30

- GEARBOX MODEL: 9PBK□BH

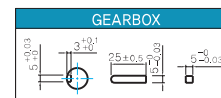
- GEARBOX MODEL: 9PFK□BH



GEARBOX OUTPUT SHAFT

MODEL	SPEC
KEY TYPE	38 25 ^{+0.2} ₋₀ Ø12 ^{+0.08} ₋₀
9PBK□BH	
9PFK□BH	

KEY SPEC

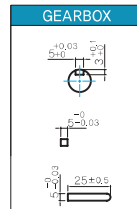
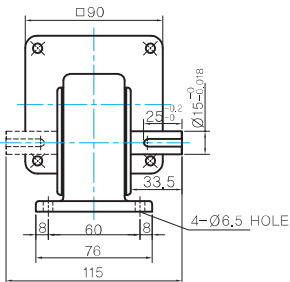
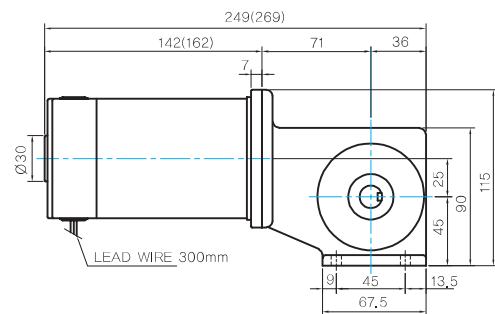


W TYPE GEARBOX

- MOTOR MODEL: 9DCW□-90-30

- GEARBOX MODEL: 9WD□BL/BR/BRL

KEY SPEC



WEIGHT

PART	WEIGHT(kg)
MOTOR	2.1
9PB(F)K2BH ~ 9PB(F)K10BH	1.28
9PB(F)K12.5BH ~ 9PB(F)K20BH	1.3
9PB(F)K25BH ~ 9PB(F)K60BH	1.45
9PB(F)K75BH ~ 9PB(F)K200BH	1.47
9WD□BL/BR/BRL	1.0
9XD10□□	0.6

Motor Images

