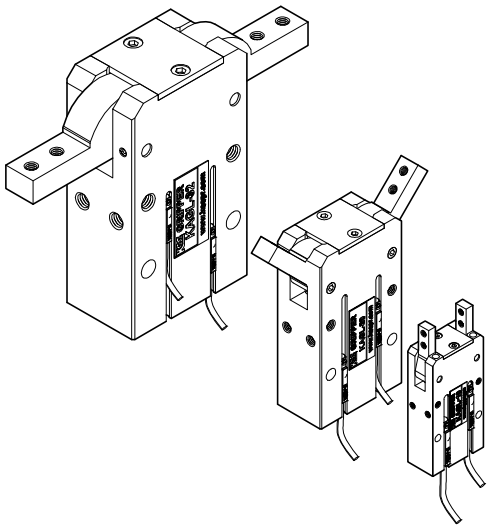
KAGL



특 징

- 광각 (廣角) 각도 개폐형 그리퍼
- 전제품 오토 스위치 부착 가능
- Body의 경질 아노다이징 처리로 표면경도 및 내구성 향상
- ANG , KPG01 외 부품 공용화로 경제성을 향상시킨 제품
- BODY 밑면의 4개소 탭+2개소 핀 구조로 견고한 장착가능

형식 기호

KAGL - 20 + A93 x 2
① ② ③ ④

① 시리즈

KAGL	Kcc Angular Gripper-L series

② 실린더 직경

제품명	KAGL-10	KAGL-16	KAGL-20
실린더 직경	Φ10	Φ16	Φ20

제품명	KAGL-25	KAGL-32	
실린더 직경	Φ25	Φ32	

③ 오토스위치(마그네틱 센서) 종류

유접점		무접점		참고사항
주문기호	제품명	주문기호	제품명	
A93(V)	D-A93(V)K	F9□(V)	D-F9□(V)K	□=N,P,B
A93N	D-A93KN	F9□(V)S	D-F9□(V)K-S	
A93(V)S	D-A93(V)K-S	F8□ V	D-F8□ VK	

※ 센서는 지속적으로 신제품이 개발되고 있으므로 홈페이지 최신 자료를 확인 바라며 일반 규격은 센서사양 페이지(ETC-01page)를 참조 바랍니다.

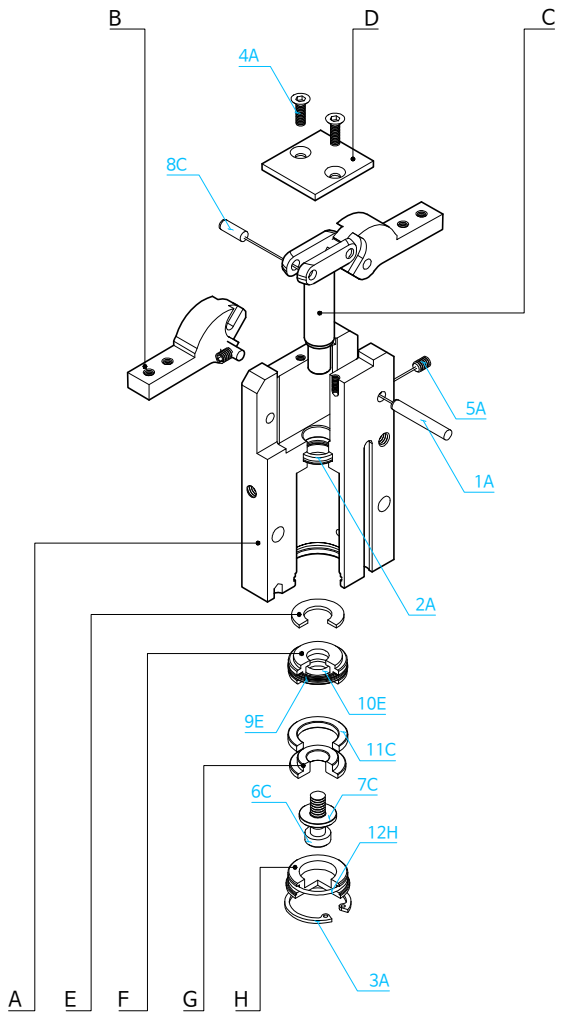
④ 오토스위치(마그네틱 센서) 수량

제품 사양

항 목 \ 제 품		KAGL-10	KAGL-16	KAGL-20	KAGL-25	KAGL-32	단 위	참 고 사 항
사용 유체		청정 공기						
주위 허용온도		0 ~ 60					℃	
급유		불필요 (급유시 터빈유 1종 [ISO VG32] 상당)						
개폐 범위		-3°~180°						JAW 2개 합산각도
사용 압력범위		0.2~0.7 / 2~7		0.1~0.7 / 1 ~ 7			[MPa] / [kgf / ㎠]	
제품 중량		0.07	0.15	0.32	0.56	1	kg	
관 접속구경		M5				Rc(PT) 1/8		
공기 소비량		1.2	4.4	8.7	17.9	33.4	cc	1 Cycle 당
최대 작용점 거리		20	32	40	50	65	mm	
연속 사용 횟수		20		15		10	회 / 분	
파지력	Open	$\frac{29.4xP}{1+0.043xL}$	$\frac{78.98xP}{1+0.035xL}$	$\frac{122.22xP}{1+0.027xL}$	$\frac{196.27xP}{1+0.022xL}$	$\frac{304.03xP}{1+0.018xL}$	N	P (압력) = [MPa] L (작용점) = [mm]
	Close	$\frac{18.82xP}{1+0.043xL}$	$\frac{59.24xP}{1+0.035xL}$	$\frac{91.66xP}{1+0.027xL}$	$\frac{151.05xP}{1+0.022xL}$	$\frac{228.02xP}{1+0.018xL}$		

KAGL

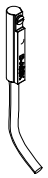
제품 구조도



센서 추가 기호

A93

③



A93계열 (형식기호 참조)
전면 2개소 부착가능

부품 사양

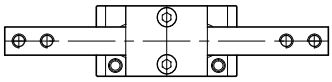
	부 품 명	재 질	비 고
A	GRIPPER BODY	알루미늄 합금	경질 아노다이징
B	JAW	합금강	
C	PLUNGER	합금강	
D	DUST COVER	알루미늄 합금	
E	DAMPER	우레탄 러버	
F	PISTON	알루미늄 합금	
G	MAGNET COVER	알루미늄 합금	
H	END COVER	알루미늄 합금	
I			
J			
K			

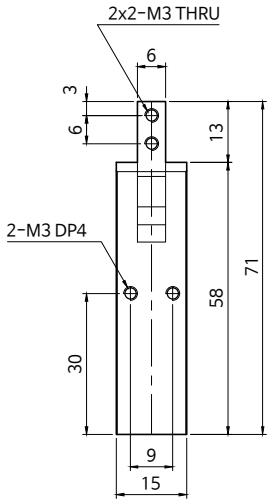
	부 품 명	비 고
1A	DOWEL PIN	
2A	ROD PACKING	
3A	SNAP RING	
4A	접시머리 볼트	
5A	무두 볼트	
6C	PISTON 체결볼트	
7C	WASHER	
8C	DOWEL PIN	
9E	PISTON PACKING	
10E	O-RING	
11C	네오듐 자석	
12H	O-RING	

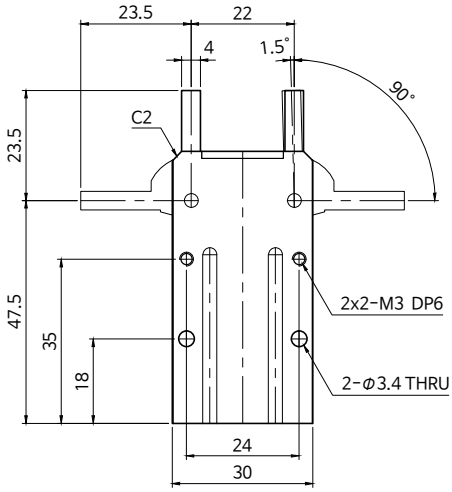
KAGL-10

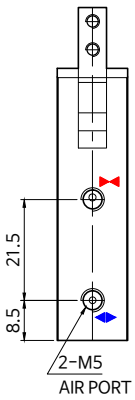
외형 치수도 기본형 (Standard basic model)

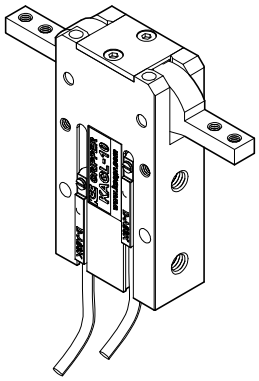
◈ KAGL-10

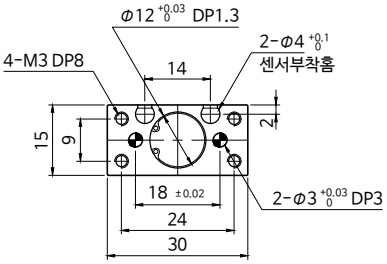








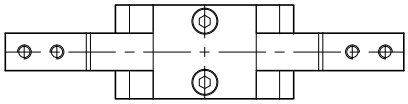


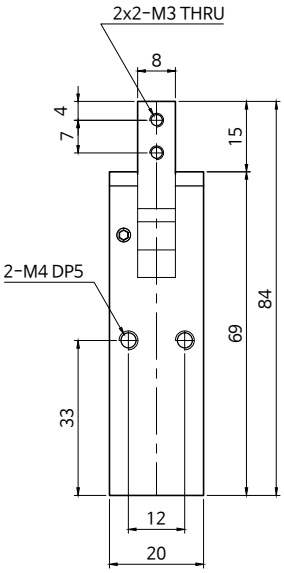


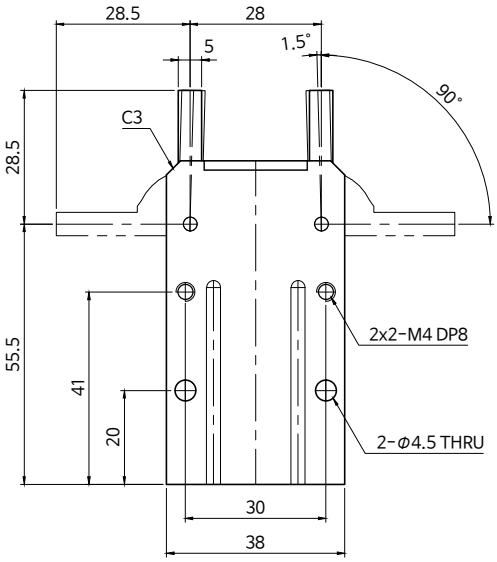
KAGL-16

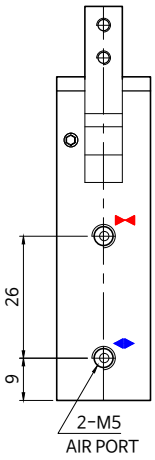
외형 치수도 기본형 (Standard basic model)

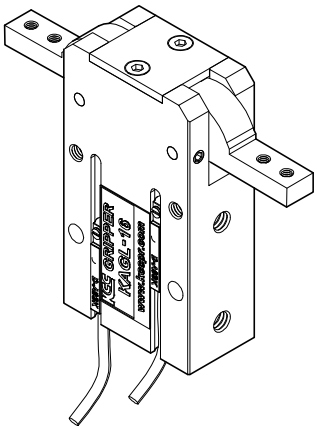
◈ KAGL-16

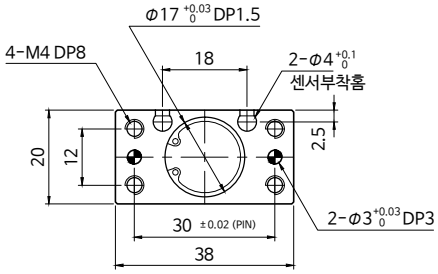








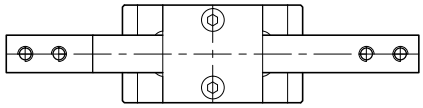


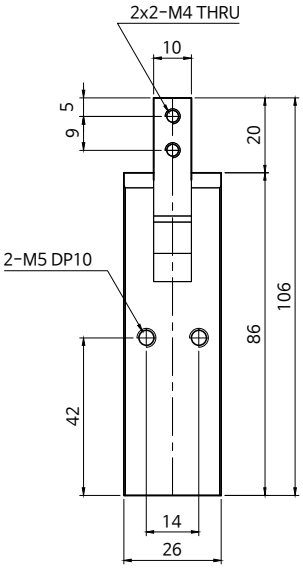


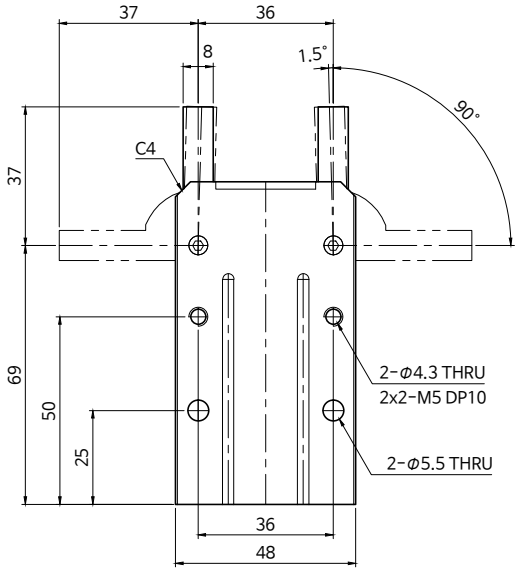
KAGL-20

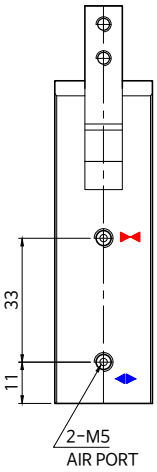
외형 치수도 기본형 (Standard basic model)

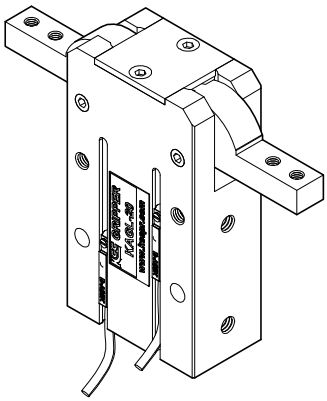
◈ KAGL-20

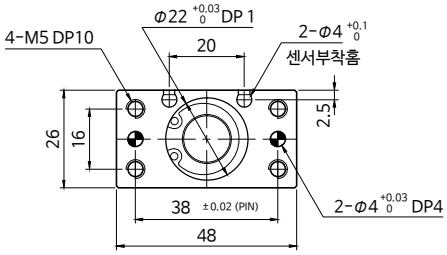








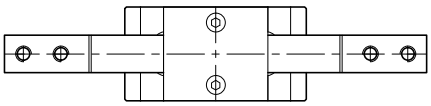


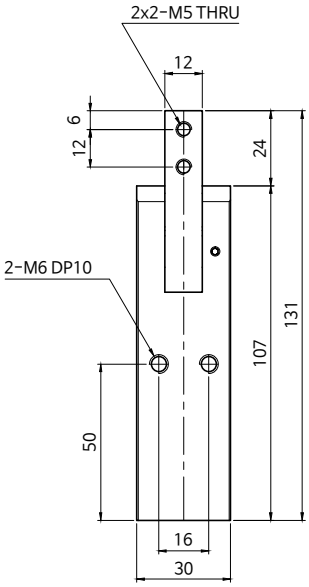


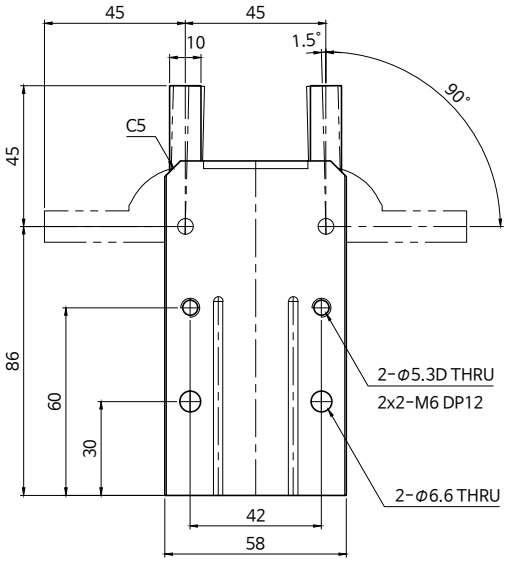
KAGL-25

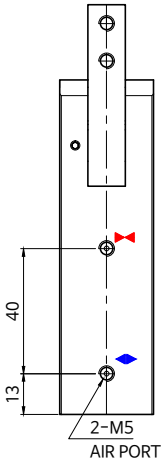
외형 치수도 기본형 (Standard basic model)

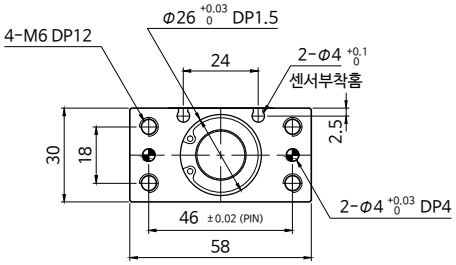
◈ KAGL-25

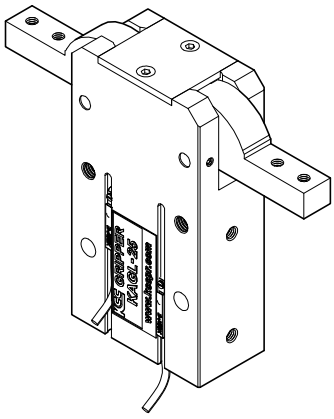








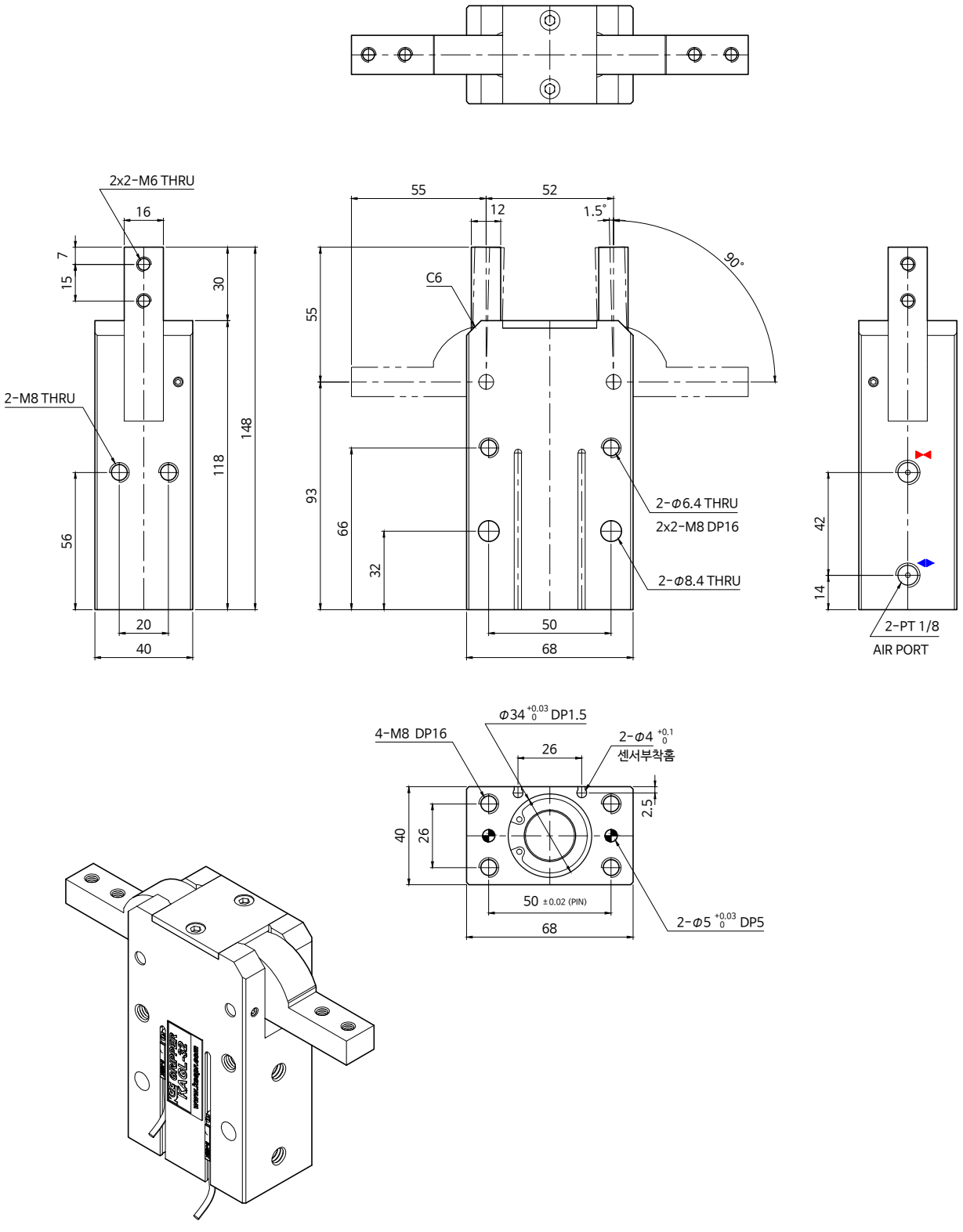




KAGL-32

외형 치수도 기본형 (Standard basic model)

◈ KAGL-32



KAGL

파지력 그래프

◈ 압력=0.5 [MPa] 일때의 Gripping force [N]

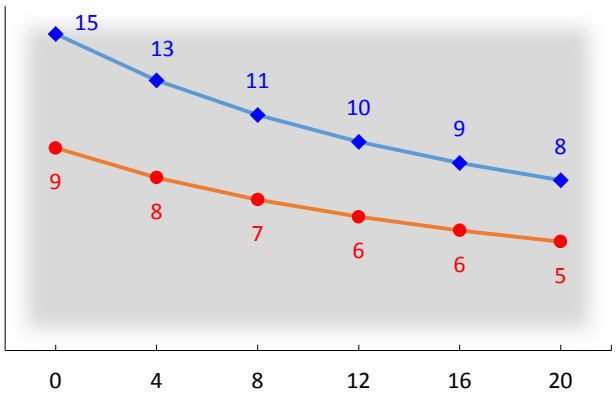
◆ : Open | ● : Close

◈ 사용 조건별 WORK의 중량 계산법

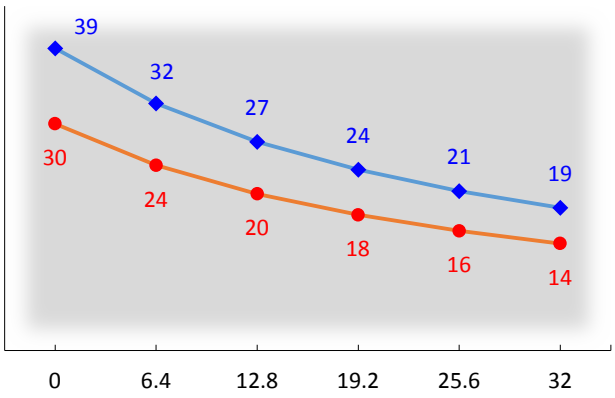
사용조건

1. 고정 또는 저속 이동 : 그래프상 파지력 x 1/5
2. 직선 운동등의 일반적인 감,가속시 x 1/10
3. 로봇 선단 이나 회전등의 급격한 감,가속시 x 1/20

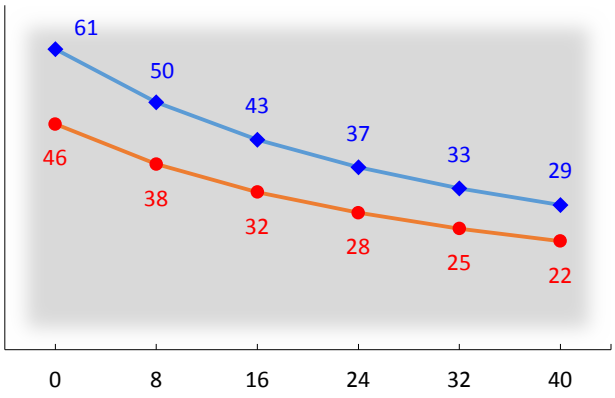
◈ KAGL-10



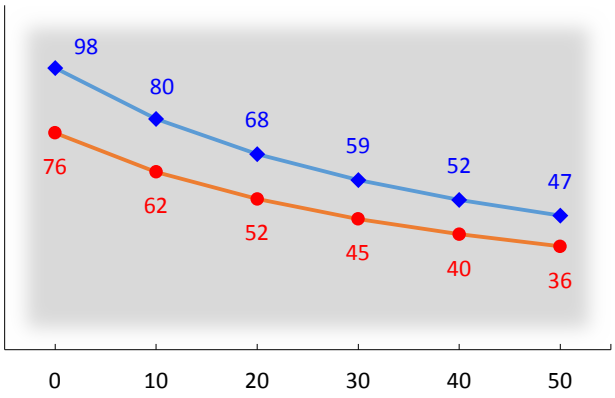
◈ KAGL-16



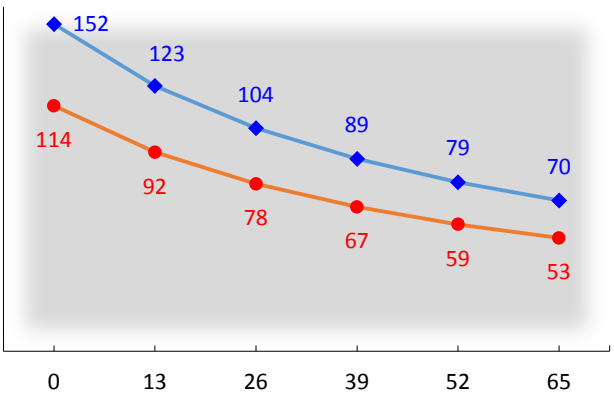
◈ KAGL-20



◈ KAGL-25



◈ KAGL-32



→ L = 작용점 위치 [mm] (Jaw의 끝단에서 WORK 파지점 까지의 거리)