

Specifications - PC40



Standard Features and Benefits

- Compact, robust and reliable
- Stroke up to 1200 mm
- Load up to 6000 N
- Speed up to 1.66 m/s
- Stainless steel extension tube
- IP65 as standard
- Mounting accessories according to pneumatic ISO standard

General Specifications

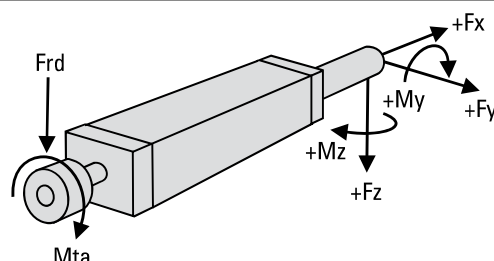
Parameter	PC40
Profile size (w × h) [mm]	55 × 55
Type of screw	ball screw
Protection class	IP65
Lubrication	one point lubrication of ball screw

Performance Specifications

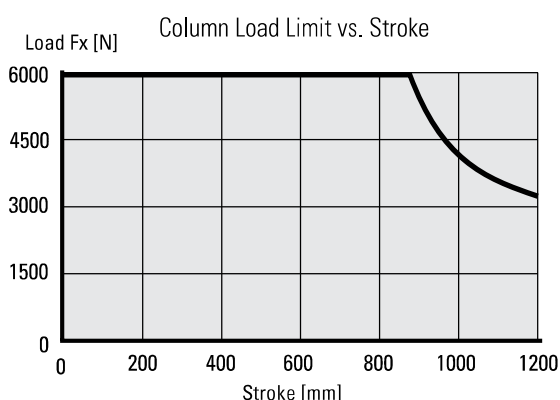
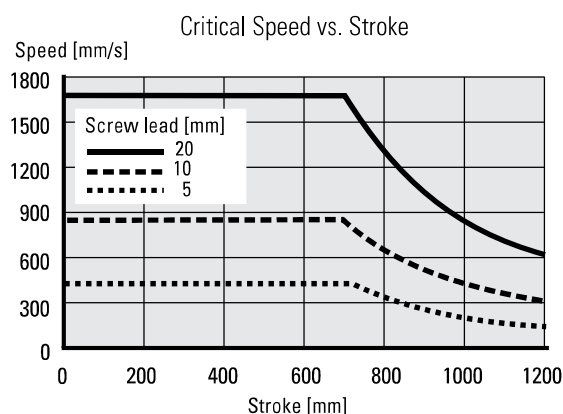
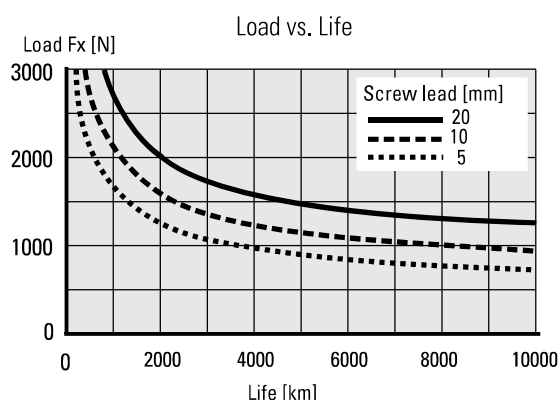
Parameter	PC40
Stroke length (S max), minimum - maximum [mm]	120 - 1200 *
Linear speed, maximum [m/s]	1.66
Acceleration, maximum [m/s²]	10
Repeatability [± mm]	0.01
Input speed, maximum [rpm]	5000
Operation temperature limits [°C]	-20 – +70
Dynamic load (Fx), maximum [N]	6000
Dynamic load (Fy), maximum [N]	50
Dynamic load (Fz), maximum [N]	50
Dynamic load torque (Mz, My), maximum [Nm]	25
Screw versions, diameter (d0) / lead (p) [mm]	20/05, 20/10, 20/20
Drive shaft force (Frd), maximum [N]	650
Input torque, maximum (RediMount models) [Nm]	5.8
Drive shaft torque (Mta), maximum [Nm]	24

* Stroke lengths down to 50 mm possible under certain conditions, contact customer support for more information.

Definition of Forces

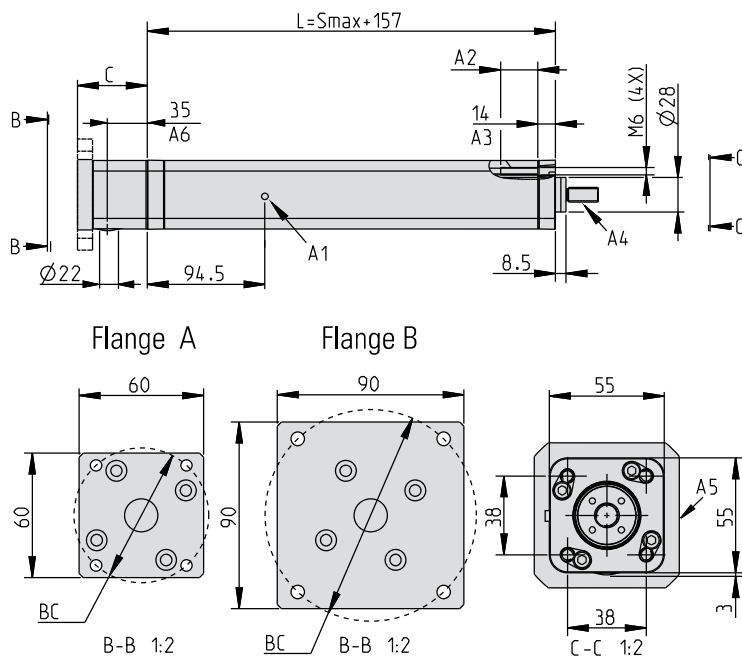


Performance Diagrams



Dimensions and Performance Diagrams - PC40

Dimensions for Inline Style with RediMount Motor Flange



A1: grease port A2: M6 thread, max. depth 30 mm A3: no thread
A4: male threaded rod end shown, see ordering key and accessories for information on all available ends.
A5: side of cover tube for mounting of sensors. A6: distance to center of coupling tightening hole.

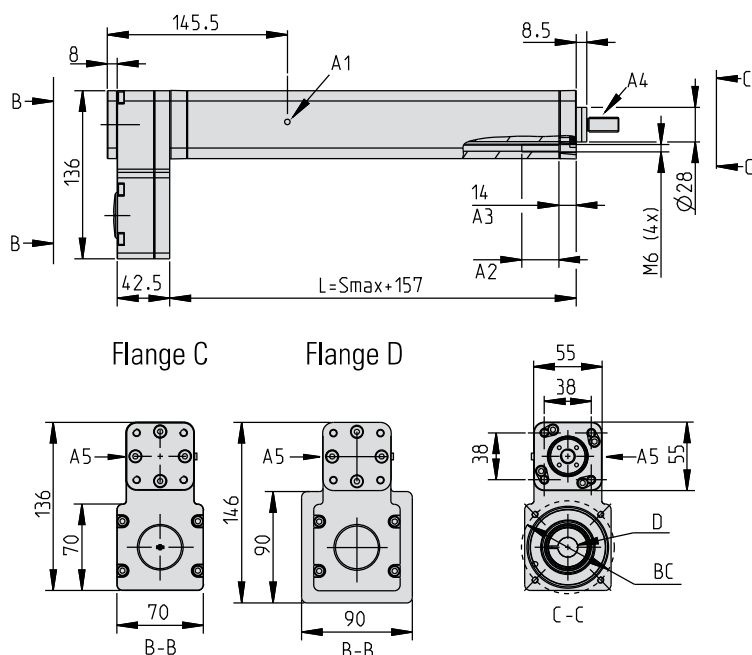
Dimensions	Projection
METRIC	

Bell House Length (C)	
Motor shaft length [mm]	C [mm]
20 - 27	62
27 - 34	69
34 - 41	76

RediMount Flange Motor Dimensions Compatibility*		
Motor data	Flange A [mm]	Flange B [mm]
Bolt circle diameter (BC)	37 - 72	72 - 107
Shaft diameter	5 - 19	
Shaft length	20 - 41	
Pilot diameter	16 - 54	16 - 85
Pilot length	max. 4	

Weight of Unit [kg]
1.853 + (S [mm] × 0.0052)

Dimensions for Parallel Style with RediMount Motor Flange



A1: grease port
A2: M6 thread, max. depth 30 mm A3: no thread
A4: male threaded rod end shown, see ordering key and accessories for information on all available ends.
A5: side of cover tube for mounting of sensors.

Dimensions	Projection
METRIC	

RediMount Flange Motor Dimensions Compatibility*		
Motor data	Flange C [mm]	Flange D [mm]
Bolt circle diameter (BC)	53 - 85	85 - 107
Shaft diameter	5 - 16	
Shaft length	15 - 41	
Pilot diameter	16 - 64	16 - 85
Pilot length	max. 4	
Motor square/diameter	max. 90.5	

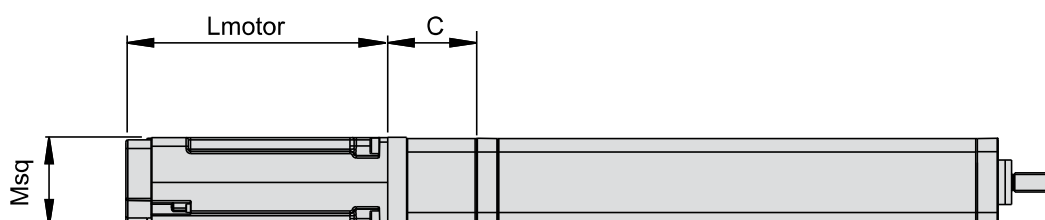
Weight of Unit [kg]
2.318 + (S [mm] × 0.0052)

* The Dimensions tables only take motors/gears with through-hole face mount under consideration. Contact Customer Service for compatibility information for motors /gears with threaded hole face mount.

Specifications - PC40 with AKM Servo Motors

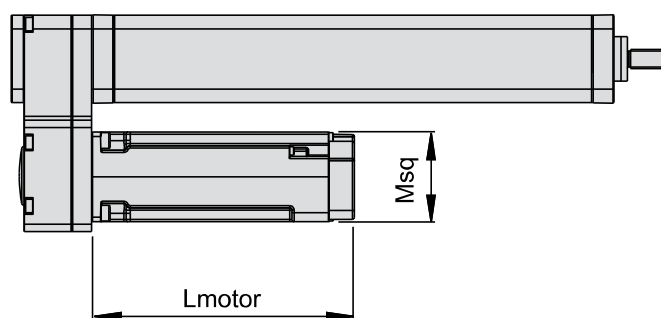
PC40 with Inline Mounted AKM Servo Motor						
Unit Type	Motor Model*	RediMount Flange Type	Bell House Length (C) [mm]	Motor Length (Lmotor) [mm]	Motor Square Size (Msq) [mm]	Total Weight of Unit with Flange and Motor [kg]
PC40LX001B	AKM33E-ANCNR-00	B	69	171.8	70	$2.9 + 1.853 + (S \text{ [mm]} \times 0.0052)$
PC40LX001B	AKM33H-ANCNR-00	B	69	171.8	70	$2.9 + 1.853 + (S \text{ [mm]} \times 0.0052)$
PC40LX023B	AKM44H-HNCNR-00	B	69	205.8	84	$5.3 + 1.853 + (S \text{ [mm]} \times 0.0052)$
PC40LX023B	AKM44K-HNCNR-00	B	69	205.8	84	$5.3 + 1.853 + (S \text{ [mm]} \times 0.0052)$

* Motors listed have no brake and are equipped with resolver. Other motor models may have different dimensions and weight.



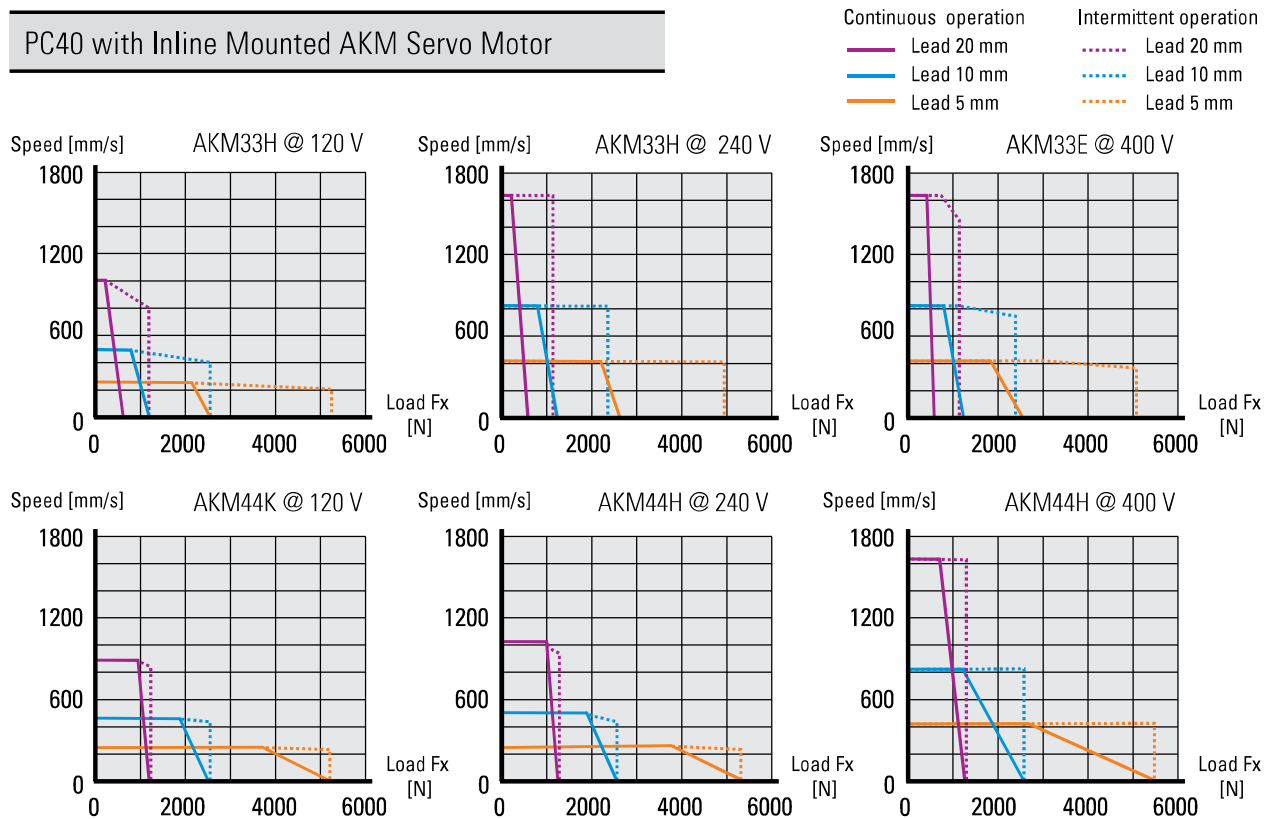
PC40 with Parallel Mounted AKM Servo Motor						
Unit Type	Motor Model*	RediMount Flange Type	Bell House Length (C) [mm]	Motor Length (Lmotor) [mm]	Motor Square Size (Msq) [mm]	Total Weight of Unit with Flange and Motor [kg]
PC40PA001B	AKM33E-ANCNR-00	C	—	171.8	70	$2.9 + 2.318 + (S \text{ [mm]} \times 0.0052)$
PC40PA001B	AKM33H-ANCNR-00	C	—	171.8	70	$2.9 + 2.318 + (S \text{ [mm]} \times 0.0052)$
PC40PA023B	AKM44H-HNCNR-00	D	—	205.8	84	$5.3 + 2.318 + (S \text{ [mm]} \times 0.0052)$
PC40PA023B	AKM44K-HNCNR-00	D	—	205.8	84	$5.3 + 2.318 + (S \text{ [mm]} \times 0.0052)$

* Motors listed have no brake and are equipped with resolver. Other motor models may have different dimensions and weight.



Performance Diagrams - PC40 with AKM Servo Motors

PC40 with Inline Mounted AKM Servo Motor



PC40 with Parallel Mounted AKM Servo Motor

