

Specifications - PC32



Standard Features and Benefits

- Compact, robust and reliable
- Stroke up to 1200 mm
- Load up to 3200 N
- Speed up to 1 m/s
- Stainless steel extension tube
- IP65 as standard
- Mounting accessories according to pneumatic ISO standard

General Specifications

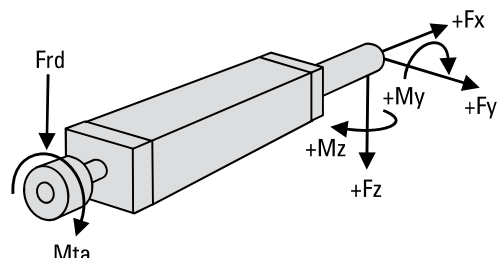
Parameter	PC32
Profile size (w × h) [mm]	45 × 45
Type of screw	ball screw
Protection class	IP65
Lubrication	one point lubrication of ball screw

Performance Specifications

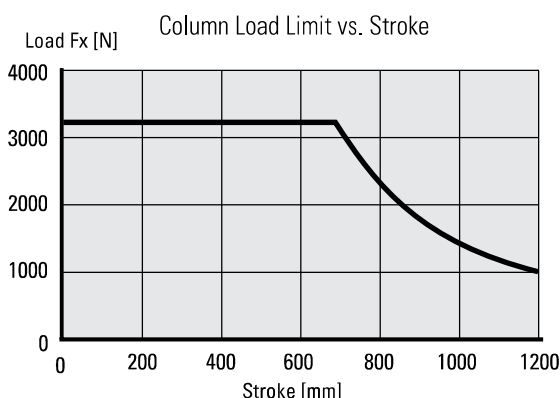
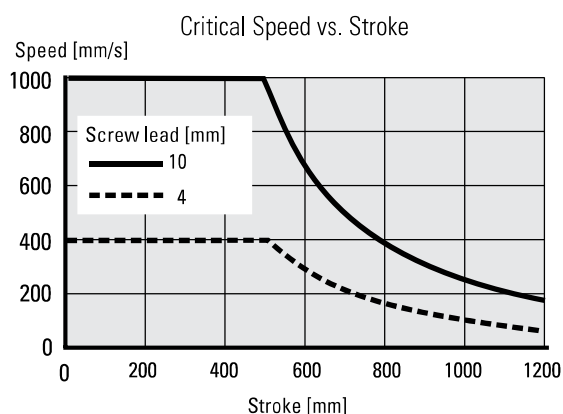
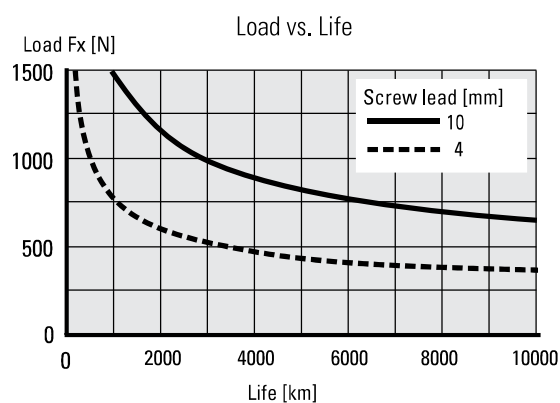
Parameter	PC32
Stroke length (S max), minimum - maximum [mm]	80 - 1200 *
Linear speed, maximum [m/s]	1
Acceleration, maximum [m/s²]	10
Repeatability [± mm]	0.01
Input speed, maximum [rpm]	6000
Operation temperature limits [°C]	-20 – +70
Dynamic load (Fx), maximum [N]	3200
Dynamic load (Fy), maximum [N]	20
Dynamic load (Fz), maximum [N]	20
Dynamic load torque (Mz, My), maximum [Nm]	25
Screw versions, diameter (d0) / lead (p) [mm]	12/04, 12/10
Drive shaft force (Frd), maximum [N]	300
Input torque, maximum (RediMount models) [Nm]	5.1
Drive shaft torque (Mta), maximum [Nm]	9.2

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

Definition of Forces

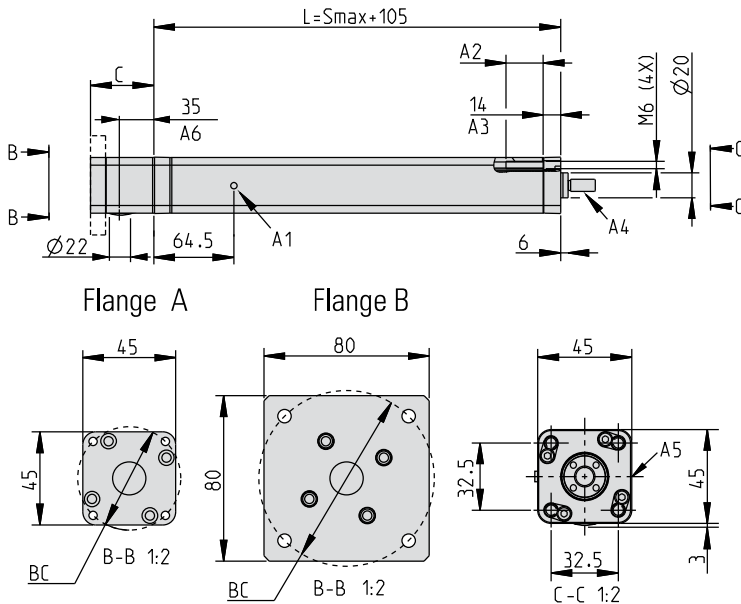


Performance Diagrams



Dimensions - PC32

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	

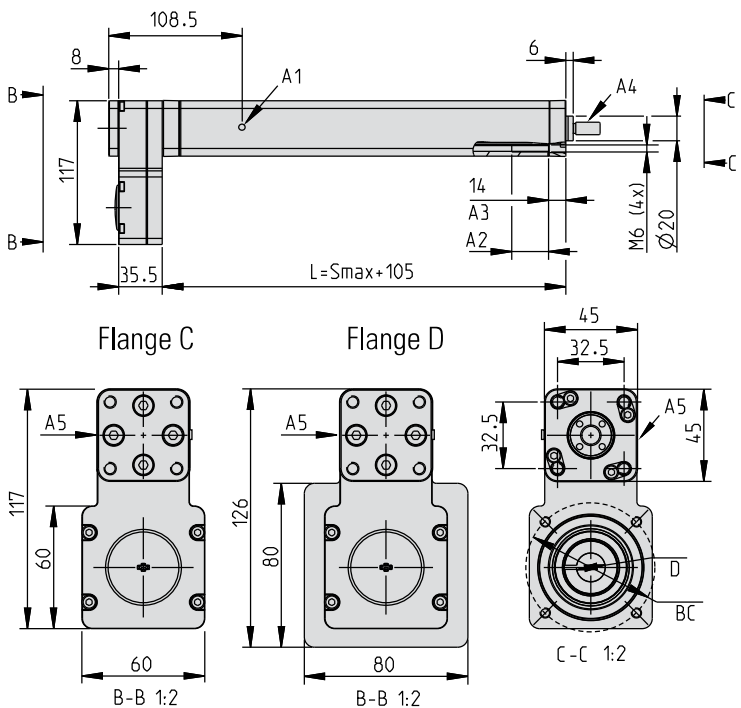
Bell House Length (C)	
Motor shaft length [mm]	C [mm]
20 - 27	59
27 - 34	66
34 - 41	73

RediMount Flange Motor Dimensions Compatibility*		
Motor data	Flange A [mm]	Flange B [mm]
Bolt circle diameter (BC)	37 - 50	50 - 99
Shaft diameter	5 - 19	
Shaft length	20 - 41	
Pilot diameter	16 - 39	16 - 75
Pilot length	max. 4	

Weight of Unit [kg]
$0.681 + (S \text{ [mm]} \times 0.0034)$

Dimensions	Projection
METRIC	

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.

RediMount Flange Motor Dimensions Compatibility*		
Motor data	Flange C [mm]	Flange D [mm]
Bolt circle diameter (BC)	53 - 72	72 - 99
Shaft diameter	5 - 14	
Shaft length	15 - 34	
Pilot diameter	16 - 54	16 - 74
Pilot length	max. 4	
Motor square/diameter	max. 82.5	

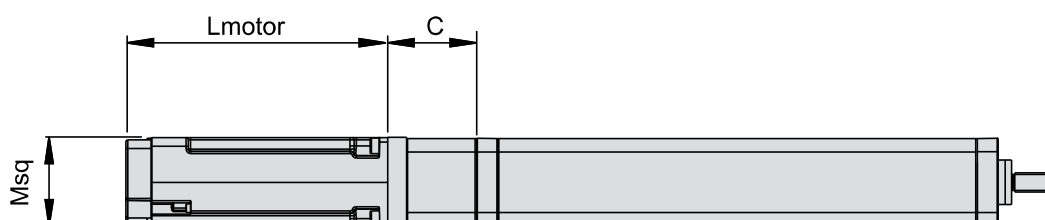
Weight of Unit [kg]
$1.221 + (S \text{ [mm]} \times 0.0034)$

* 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 - PC32 with AKM Servo Motors

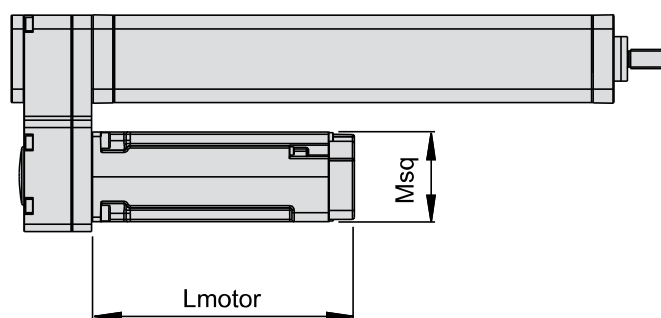
PC32 with Inline Mounted AKM Servo Motor						
Unit Type	Motor Model*	RediMount Flange Type	Bell House Length (C) [mm]	Motor Length (Lmotor) [mm]	Motor Square Size (Msq) [mm]	Total Weight of Unit with Flange and Motor [kg]
PC32LX004B	AKM24F-ANBNR-00	B	59	143.2	58	$1.66 + 0.681 + (S \text{ [mm]} \times 0.0034)$
PC32LX004B	AKM24D-ANBNR-00	B	59	143.2	58	$1.66 + 0.681 + (S \text{ [mm]} \times 0.0034)$
PC32LX001B	AKM33E-ANCNR-00	B	66	171.8	70	$2.9 + 0.681 + (S \text{ [mm]} \times 0.0034)$
PC32LX001B	AKM33H-ANCNR-00	B	66	171.8	70	$2.9 + 0.681 + (S \text{ [mm]} \times 0.0034)$

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



PC32 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]
PC32PA004B	AKM24F-ANBNR-00	C	—	143.2	58	$1.66 + 1.221 + (S \text{ [mm]} \times 0.0034)$
PC32PA004B	AKM24D-ANBNR-00	C	—	143.2	58	$1.66 + 1.221 + (S \text{ [mm]} \times 0.0034)$
PC32PA001B	AKM33E-ANCNR-00	D	—	171.8	70	$2.9 + 1.221 + (S \text{ [mm]} \times 0.0034)$
PC32PA001B	AKM33H-ANCNR-00	D	—	171.8	70	$2.9 + 1.221 + (S \text{ [mm]} \times 0.0034)$

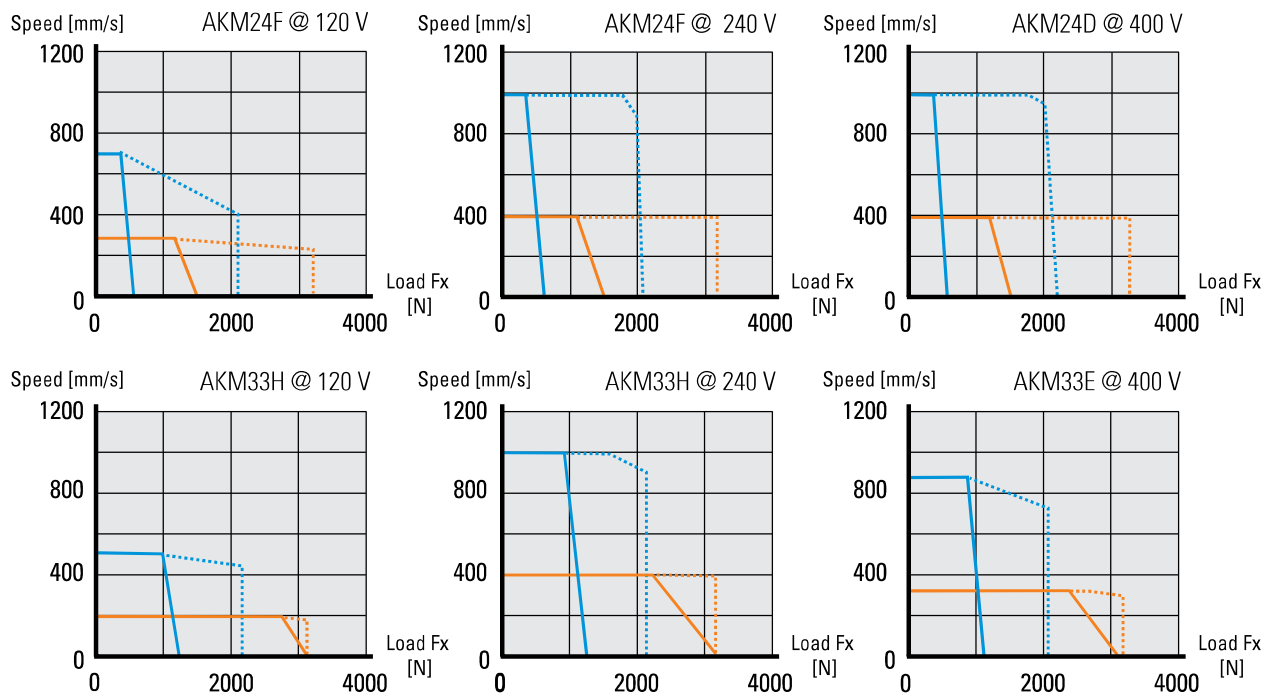
* Motors listed have no brake and are equipped with resolver. Other motor models may have different dimensions and weight.



Performance Diagrams - PC32 with AKM Servo Motors

PC32 with Inline Mounted AKM Servo Motor

Continuous operation Intermittent operation
— Lead 10 mm - - - Lead 10 mm
— Lead 4 mm - - - Lead 4 mm



PC32 with Parallel Mounted AKM Servo Motor

Continuous operation Intermittent operation
— Lead 10 mm - - - Lead 10 mm
— Lead 4 mm - - - Lead 4 mm

