

# Electrak® Non-driven Actuator FA14

Load up to 6800 N



## Standard Features and Benefits

- Actuator with a flange where a customer supplied motor can be mounted
- Rugged and robust
- Withstands very harsh environments
- Stainless steel extension tube
- Corrosion free aluminium cover tube
- Acme or ball screw drive
- Trunnion mounting possible
- Overload clutch for mid and end of stroke protection
- T-slot grooves in the cover tube for magnetic sensors
- Maintenance free

## General Specifications

Parameter	FA14
Screw type	acme or ball
Internally restrained	yes
Manual override	no, optional
Holding brake	
acme screw versions	no, self-locking
ball screw versions	yes
End of stroke protection	overload clutch
Mid stroke protection	overload clutch
Certificates	CE
Options	<ul style="list-style-type: none"> <li>• manual override</li> <li>• alternative adaptor positions</li> <li>• custom color*</li> </ul>

\* Contact customer support

## Performance Specifications

Parameter		FA14	
Maximum load, dynamic / static	[N]		
	FA14-05A65 (acme screw)	1100 / 11350	
	FA14-10A65 (acme screw)	2250 / 11350	
	FA14-20A65 (acme screw)	2250 / 11350	
	FA14-05B65 (ball screw)	2250 / 18000	
	FA14-10B65 (ball screw)	4500 / 18000	
	FA14-20B65 (ball screw)	4500 / 18000	
Maximum speed at max. load*	[mm/s]		
	FA14-05A65 (acme screw)	32	
	FA14-10A65 (acme screw)	18	
	FA14-20A65 (acme screw)	12	
	FA14-05B65 (ball screw)	37	
Maximum input torque	[Nm]	1,8	
	FA14-10B65 (ball screw)	19	
	FA14-20B65 (ball screw)	12	
	FA14-21B65 (ball screw)	11	
Maximum input speed	[rpm]	3000	
Standard stroke lengths	[mm]	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600	
	Operating temperature limits	[°C]	-25 – +65
	End play, maximum	[mm]	1,0
	Restraining torque	[Nm]	0

\* Recommended maximum speed



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## FA14

1	2	3	4	5
FA14 -	10A65M	35	M2	N

### 1. Model

FA14 - = Electrak FA14

### 2. Dynamic / static load capacity and screw type

05A65M = 1100 / 11350 N, acme  
 10A65M = 2250 / 11350 N, acme  
 20A65M = 2250 / 11350 N, acme  
 05B65M = 2250 / 18000 N, ball  
 10B65M = 4500 / 18000 N, ball  
 20B65M = 4500 / 18000 N, ball  
 21B65M = 6800 / 18000 N, ball

### 3. Stroke

05 = 50 mm  
 10 = 100 mm  
 15 = 150 mm  
 20 = 200 mm  
 25 = 250 mm  
 30 = 300 mm  
 35 = 350 mm  
 40 = 400 mm  
 45 = 450 mm  
 50 = 500 mm  
 55 = 550 mm  
 60 = 600 mm

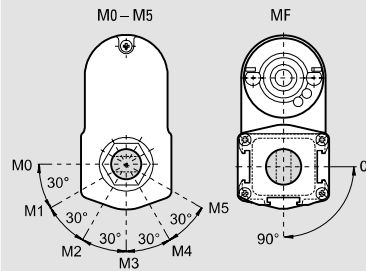
### 4. Rear / front adapter hole position<sup>1</sup>

M0 = both adaptors at 0° (standard)  
 M1 = rear adaptor at 30°, front at 0°  
 M2 = rear adaptor at 60°, front at 0°  
 M3 = rear adaptor at 90°, front at 0°  
 M4 = rear adaptor at 120°, front at 0°  
 M5 = rear adaptor at 150°, front at 0°  
 MF = rear and front adaptor at 90°

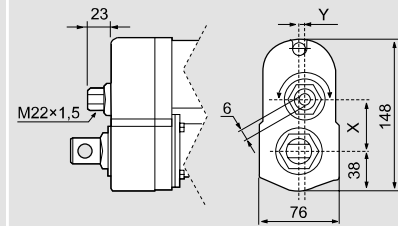
### 5. Options

N = no option  
 HW = manual override<sup>2</sup>

<sup>1</sup> Definition of adapter hole positions.



<sup>2</sup> Dimensions for manual override option.



Model	X	Y
05A(B)65M	49,6	0,0
10A(B)65M	43,3	5,2
20(21)A(B)65M	38,9	0,0

## Flanges for FA14

Description	Part Number	Description	Part Number
Nema 23	D390887	IL348	D389819
Nema 34	D389984	Akm3x-AN	D390930
IEC 63 B14	D390820	Akm4x-AN	D389939
Servo 80, S80	D390822		