

## Actuator RE5003



RE5003 is a quiet, very compact high-power actuator. It is well suited for applications where the build in space is limited, such as seat-lifts, lift-chairs, wheelchair lifting devices etc. The actuator can be controlled by any REAC controller as well as all known third party controllers on the market.

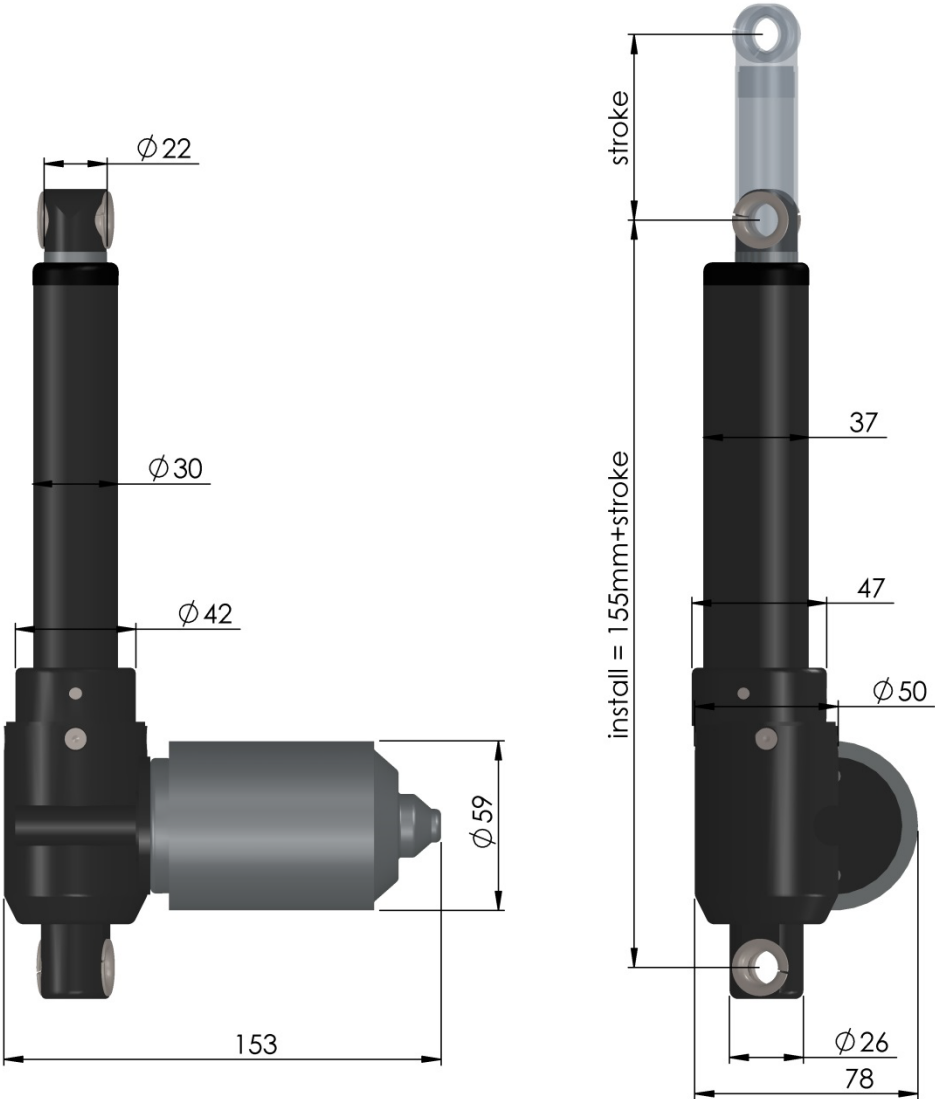
**Standard features**

Max push force	3000N – 6000N
Max pull force	3000N – 4000N
Max speed (full load)	3,7 – 8,9 mm/s
Max speed (no load)	4,5 – 12,0 mm/s
Min built in length	175mm + stroke
Stroke lengths (mm)	50, 100, 150, 200, 250
IP-class	IPX1
Current consumption (full load)	3,0A – 5,2A
Current consumption (no load)	0,6A – 1,5A
Feedback & switches	Mechanical limit switch
Motor	24VDC standard, fast Angle: fixed 90°
Mounting brackets	cyl 10,0/12,0mm, fork 10,1mm. Angle for rear bracket: 0° or 90°
Connection	Cable 0,5m 2x0,75mm <sup>2</sup> (stripped ends)
Operating temperature	+5° to +40°C
Storage temperature	-40° to +70°C
Housing	Steel
Piston	Steel
Color	Black
Duty cycle	10%, max 2 min at continuous use followed by an 18 min rest

**Options**

Stroke lengths (mm)	Customizable
Protection class	-
Mounting brackets	Customizable
Connection & Cables	Customizable
Color	Customizable
Feedback & switches	Reed switch Hall sensor feedback, 1 or 2 channels Linear potentiometer
Motor	24VDC compact (outer diameter 45mm)

Dimensions

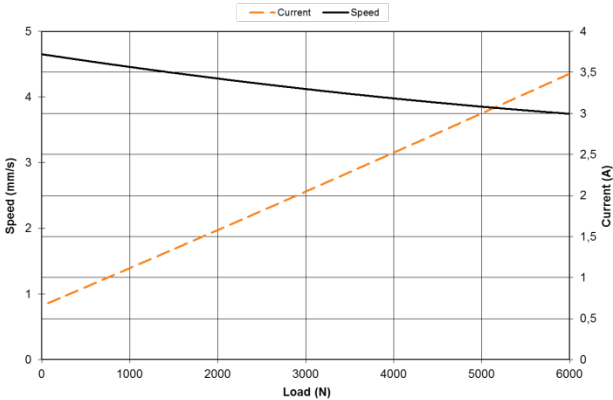


# Performance

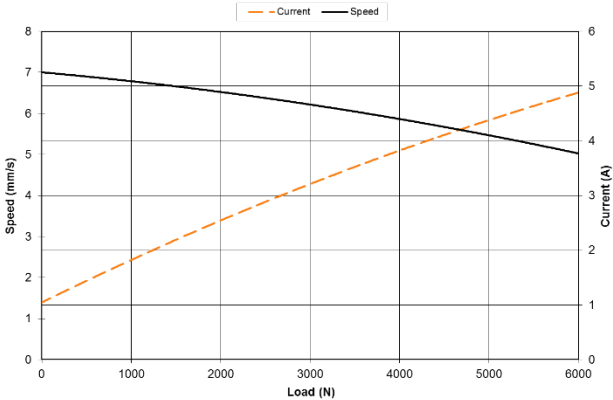
Chart showing force, speed and current for RE5003

Name	Max push force [N]	Speed at no load [mm/s]	Current consumption at no	Min. build-in length, excl. stroke [mm]	Max pull force [N]	Speed at max. load [mm/s]	Current consumption at	Stroke length std [mm]	IP class	Pitch [mm]
RE5003 COMPACT - 3	4000	8	1.5	155	4000	5.5	4.8	50-250	IPX1	3
RE5003 FAST - 2.5	6000	4.5	1	155	4000	4.3	4.5	50-250	IPX1	2.5
RE5003 FAST - 3	6000	7	1	155	4000	5.0	5.0	50-250	IPX1	3
RE5003 FAST - 4	6000	8	1.2	155	4000	6.0	5.2	50-250	IPX1	4
RE5003 FAST - 6	3000	12	1.2	155	3000	8.9	4.8	50-250	IPX1	6
RE5003 STD - 3	6000	4.5	0.6	155	4000	3.7	3.5	50-250	IPX1	3
RE5003 STD - 4	6000	5.5	0.8	155	4000	4.6	4.5	50-250	IPX1	4
RE5003 STD - 6	3000	7.5	1	155	3000	6.8	3.0	50-250	IPX1	6

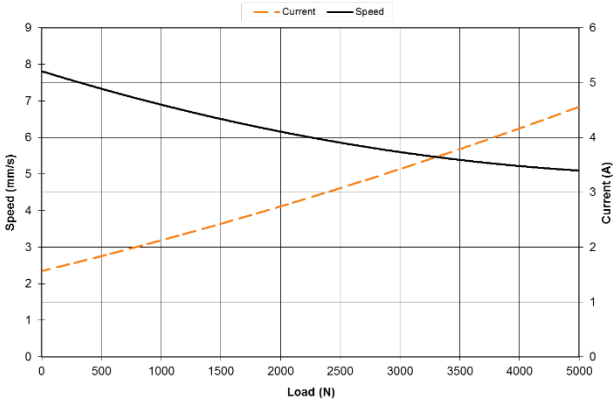
**RE5003 Tr12x3 standard motor**



**RE5003 Tr12x3 fast motor**



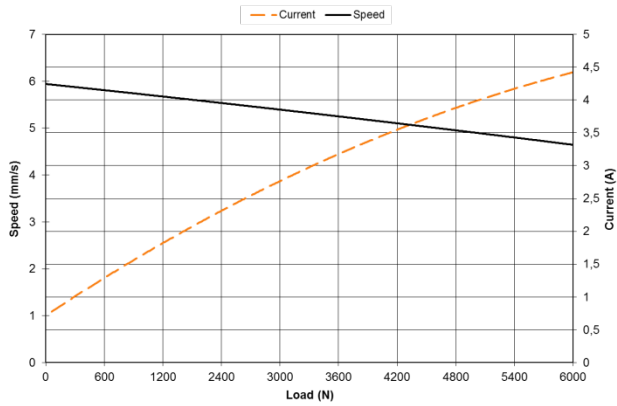
**RE5003 Tr12x3 Compact motor**



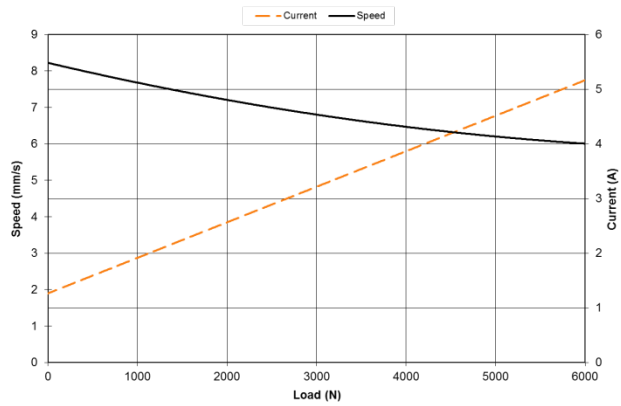
Charts show average figures for 24V actuator using stabilized power supply. All figures with ambient temperature of 20°C. Accuracy: ±5.

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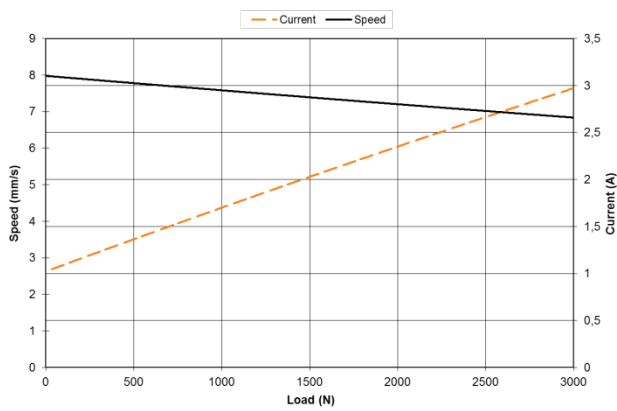
RE5003 Tr14x4 standard motor



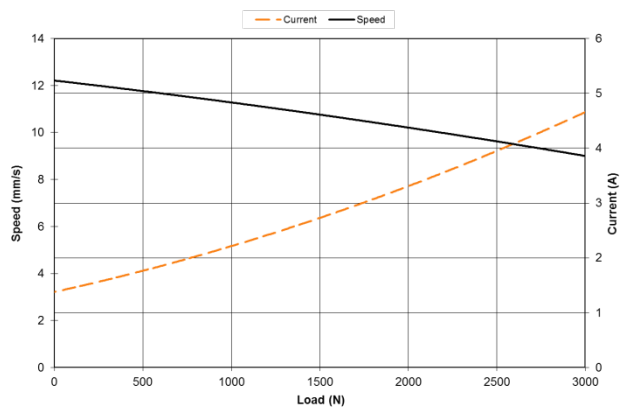
RE5003 Tr14x4 fast motor



RE5003 Tr12x6 standard motor



RE5003 Tr12x6 fast motor



Charts show average figures for 24V actuator using stabilized power supply. All figures with ambient temperature of 20°C. Accuracy: ±5.

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