

Actuator **RE3004**



RE3004 is a powerful and quiet actuator designed for rehabilitation applications, but can be used also in other applications, demanding the smallest overall dimensions. The RE3004 is perfect for powered wheelchair applications.

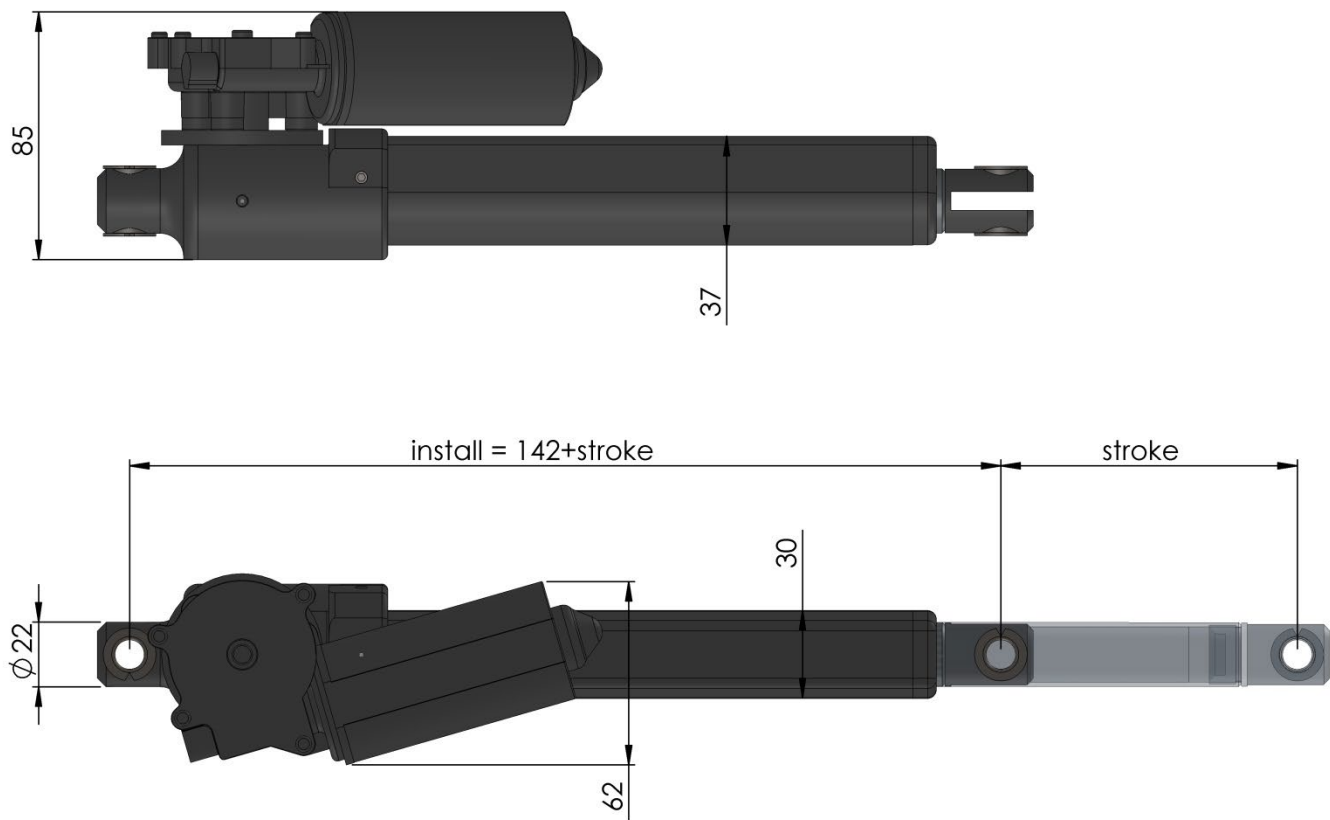
Standard features

Max push force	2500N – 4000N
Max pull force	2500N – 4000N
Max speed (full load)	3,4 – 9,6 mm/s
Max speed (no load)	4,0 – 16,0 mm/s
Min built in length	142mm + stroke
Stroke lengths (mm)	50, 100, 150, 200, 250
IP-class	IPX1
Current consumption (full load)	3,5A – 6,0A
Current consumption (no load)	0,6A – 1,9A
Feedback & switches	Mechanical limit switch
Motor	24VDC fast or strong. Angle: 14°, 16° or 120°
Mounting brackets	cyl 10,2/12,0mm, fork 10,2mm. Angle for rear bracket: 0°, 90°
Connection	Cable 0,5m 2x0,75mm ² (stripped ends)
Operating temperature	+5° to +40°C
Storage temperature	-40° to +70°C
Housing	Steel
Piston	Stainless steel
Color	Black
Duty cycle	10%, max 2 min at continuous use followed by an 18 min rest

Options

Stroke lengths (mm)	Customizable
Mounting brackets	Customizable
Connection & Cables	Customizable
Feedback & switches	Hall sensor feedback, 1 or 2 channels Reed switch Linear potentiometer DigPot

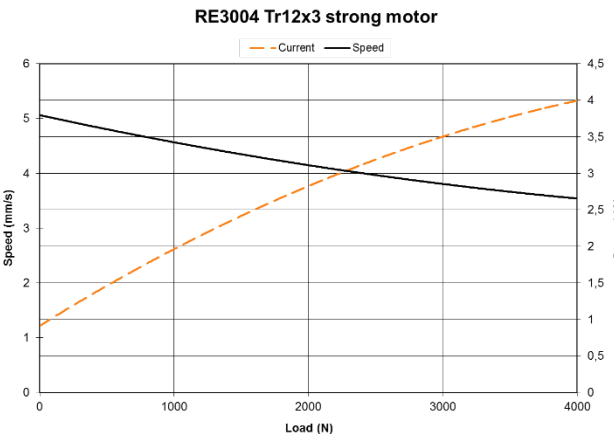
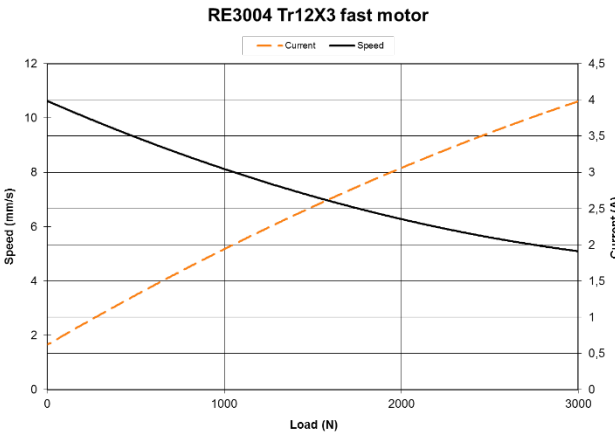
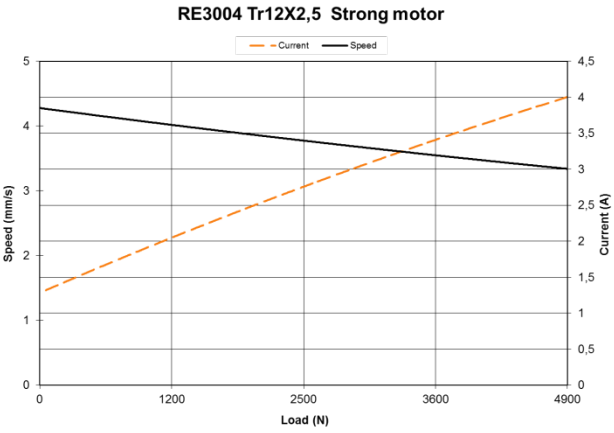
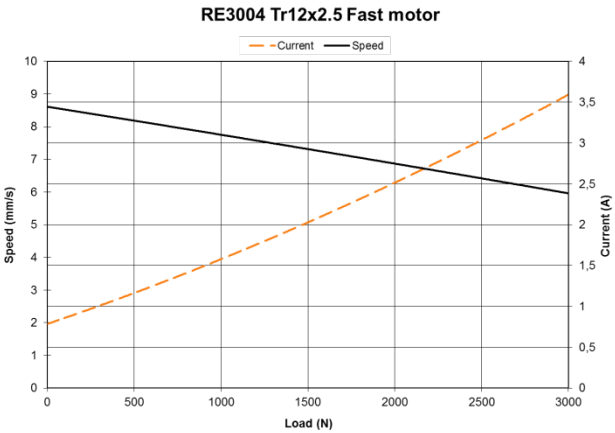
Dimensions



Performance

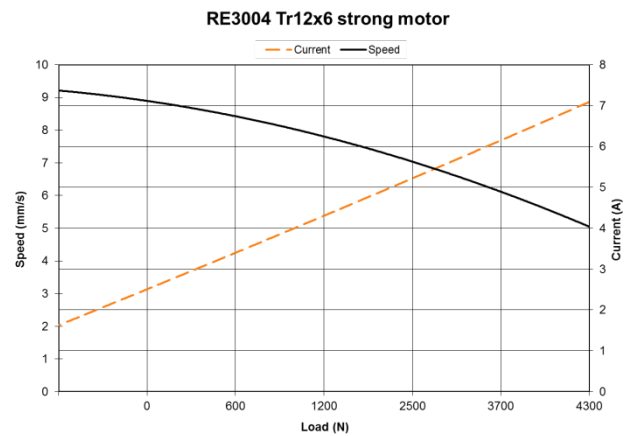
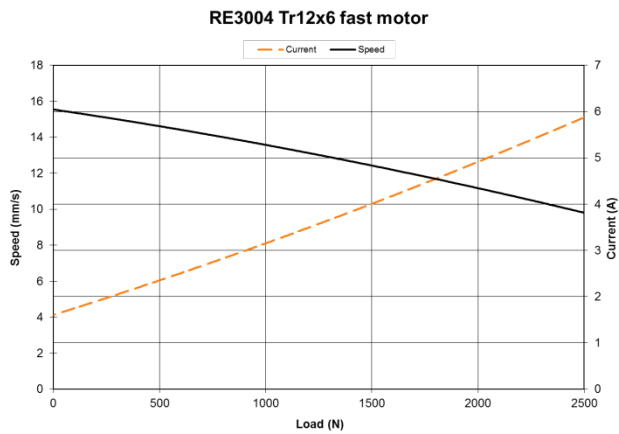
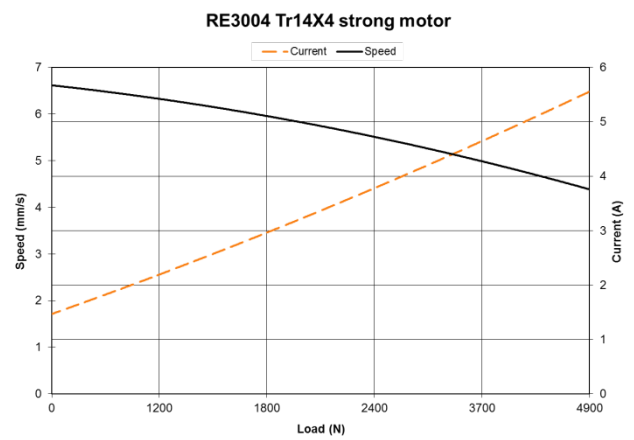
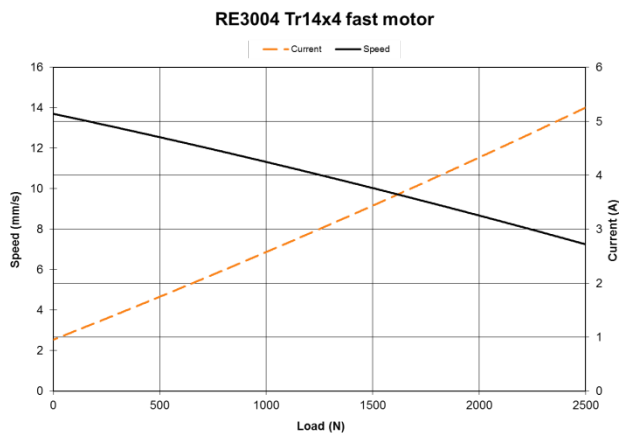
Chart showing force, speed and current for RE3004

Name	Max push force [N]	Speed at no load [mm/s]	Current consumption at no load [A]	Min. build-in length, excl. stroke [mm]	Max pull force [N]	Speed at max. load [mm/s]	Current consumption at max. load [A]	Stroke length std [mm]	IP class	Pitch [mm]
RE3004 Fast	2500	16	1.5	142	2500	9.6	6.0	50-250	IPX1	6.0
RE3004 FAST - 2.5	3000	8.5	0.8	142	3000	5.9	3.5	50-250	IPX1	2.5
RE3004 FAST - 3	3000	10.5	0.6	142	3000	5.0	4.0	50-250	IPX1	3
RE3004 FAST - 4	2500	13.5	0.8	142	2500	7.4	5.4	50-250	IPX1	4
RE3004 STRONG - 2.5	4000	4	1.3	142	4000	3.4	3.5	50-250	IPX1	2.5
RE3004 STRONG - 4	4000	6.5	1.3	142	4000	4.8	4.7	50-250	IPX1	4
RE3004 STRONG - 6	4000	9	1.9	142	4000	6.3	6.0	50-250	IPX1	6
RE3004 STRONG 3	4000	5.0	0.9	142	4000	3.5	4.0	50-250	IPX1	3



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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REAC AB
J A Wettergrens gata 7
421 30 Västra Frölunda, Sweden

REAC Poland Sp. z o.o
Metalowców 10
97-300 Piotrków Trybunalski, Poland

www.reac-group.com
E-mail: info@reac-group.com
Phone: +46 31 350 99 00