

The SCN5 model Mechatronics Cylinders were developed in response to popular demand for a compact, affordable servo linear actuator. The cost of SCN5 actuators is roughly equivalent to that of air cylinders with accessories such as FRL, flow controls, reed switches, valves, etc.

With speed up to 400mm/s and stroke up to 300mm, SCN5 actuators are suited to a wide variety of applications. Different speeds and positions can be programmed as necessary, and it is also possible to control the force applied to the workpiece!

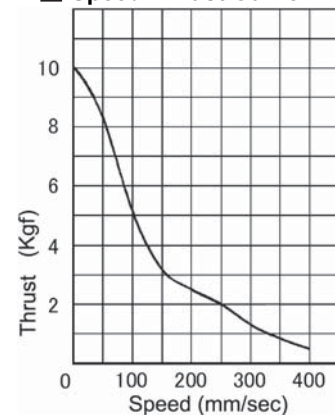
SCN5 actuators have extruded aluminum bodies and are assembled using socket-head machine screws to provide the toughness required in industrial environments.

## Specifications

Models	SCN5-010-050AS03	SCN5-010-100AS03	SCN5-010-150AS03	SCN5-010-200AS03	SCN5-010-250AS03	SCN5-010-300AS03
Stroke (mm)	50	100	150	200	250	300
Max. Thrust	100 (N) / 10.2 (Kgf)					
Push force mode (N)	70					
Max. Thrust (kgf)	7.1					
Max. Speed (mm/s) * Typ.	400					
Radial Load Capacity (N)	15	10	5	4	3	2.5
Rod Diameter (mm)	Ø15					
Rod Tip Thread	M10 Pitch 1.25 (303SS)					
Weight (kg)	1.1	1.2	1.4	1.6	1.8	2.0

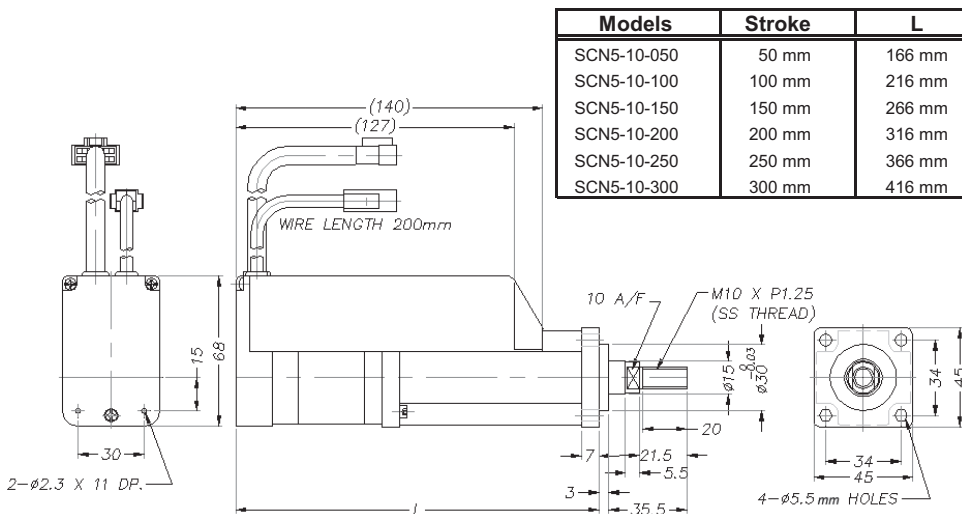
Note : Max vertical load is the same as the maximum force in push mode.  
12 VDC Operation also permitted - Please contact Mirai for specs.

## Speed-Thrust Curve



(Note) Vertical thrust is 7 kgf Max.

## Dimensions (in mm)



## Accessories



### Parallel Cables (power & I/O)

RP9100-030:  
3m for SCN5 (\$48)

RP9120-030:  
3m for other M.C. (\$59)



### Thruster

- Simple thruster guides available
- Call to discuss your application



### Brackets

FT001: \$20  
- For SCN5

FT002: \$25  
- For SCN6

## Conversion Quick Reference

Type	Conversion	Multiplier	Reference Example
Force	N -> lbf	0.225	100 N = 22.5 lbf
Force	kgf -> lbf	2.2	10.2 kgf = 22.5 lbf
Torque	Nm -> in-lbf	8.85	5 Nm = 44.3 in-lbs
Inertia	kg-m <sup>2</sup> -> oz-in <sup>2</sup>	54678	0.269x10 <sup>-4</sup> kg-m <sup>2</sup> = 1.47 oz-in <sup>2</sup>
Inertia	kg-m <sup>2</sup> -> oz-in-s <sup>2</sup>	141.6	0.269x10 <sup>-4</sup> kg-m <sup>2</sup> = 0.003809 oz-in-s <sup>2</sup>
Distance	mm -> inch	0.03937	100mm = 3.937"

## OTHER ACCESSORIES

We can help you with the following:

- Mounting plates
- Rod eyes and Clevises
- Thread Adapters
- Rod Couplers
- Pinch Rollers
- Others - just ask!