

# Lifting Column DLC1

DLC1 is a quiet 3-part in-line lifting column with robust design, which is applicable to dental chair, hospital bed, treatment table, lifting table, workstation...etc. DLC1 can be used as a single column or combined columns as synchronization system. The special transmission mechanism makes it move smoothly and rapidly.



## Features and Options

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**Main applications:** Medical, homecare, furniture

**Standard features:**

- Input voltage: 24V DC
- Max. load: 2000N (Push)
- Typical speed at no load: 10.9 mm/sec
- Typical speed at full load: 9.8 mm/sec (2000N load)
- Stroke: 50 ~ 400 mm
- Bending moment: 500Nm (static) / 250Nm (dynamic)
- Duty cycle: 10%, max. 1 min. continuous operation in 10 min.
- Noise level:  $\leq 50$ dB
- IP Protection level: IPX4
- Anodized aluminum body
- Cable inwards
- Cable length: 1000mm straight
- Preset limit switches
- Ambient operation temperature: 0°C ~ +45°C
- Certified: CE marking, EN 60601-1-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-8

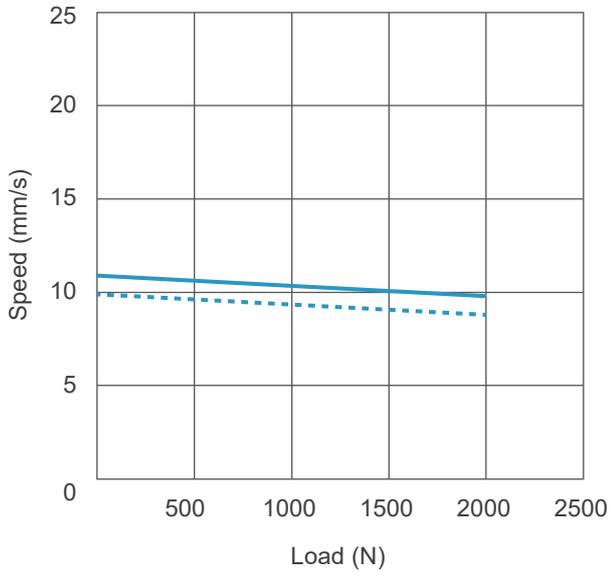
**Options:**

- Positioning signal feedback with Hall effect sensor x 2
- Cable outwards
- Cable length: 2000 mm straight
- IPX6 Protection level

## Performance Data

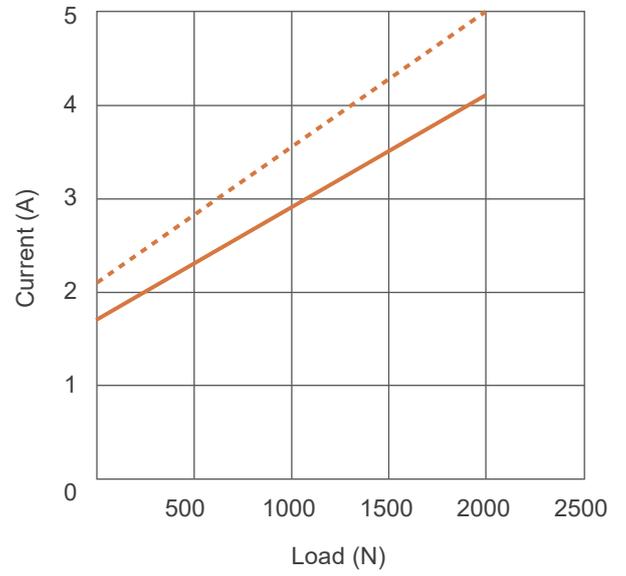
Model No.	Push Max. (N)	Typical Speed (mm/s)		Typical Current (A) @ 24V	
		No Load	Full Load	No Load	Full Load
DLC1-24RH-350.750-XXXXX	2000	10.9	9.8	1.7	4.1

Speed vs. Load



— Typical Speed    - - - Min. Speed

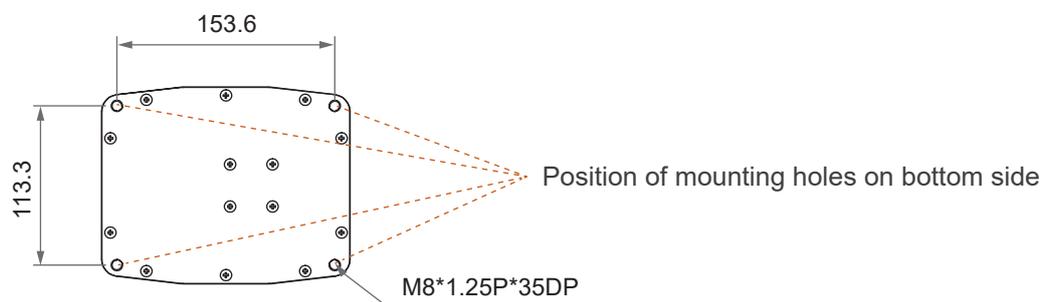
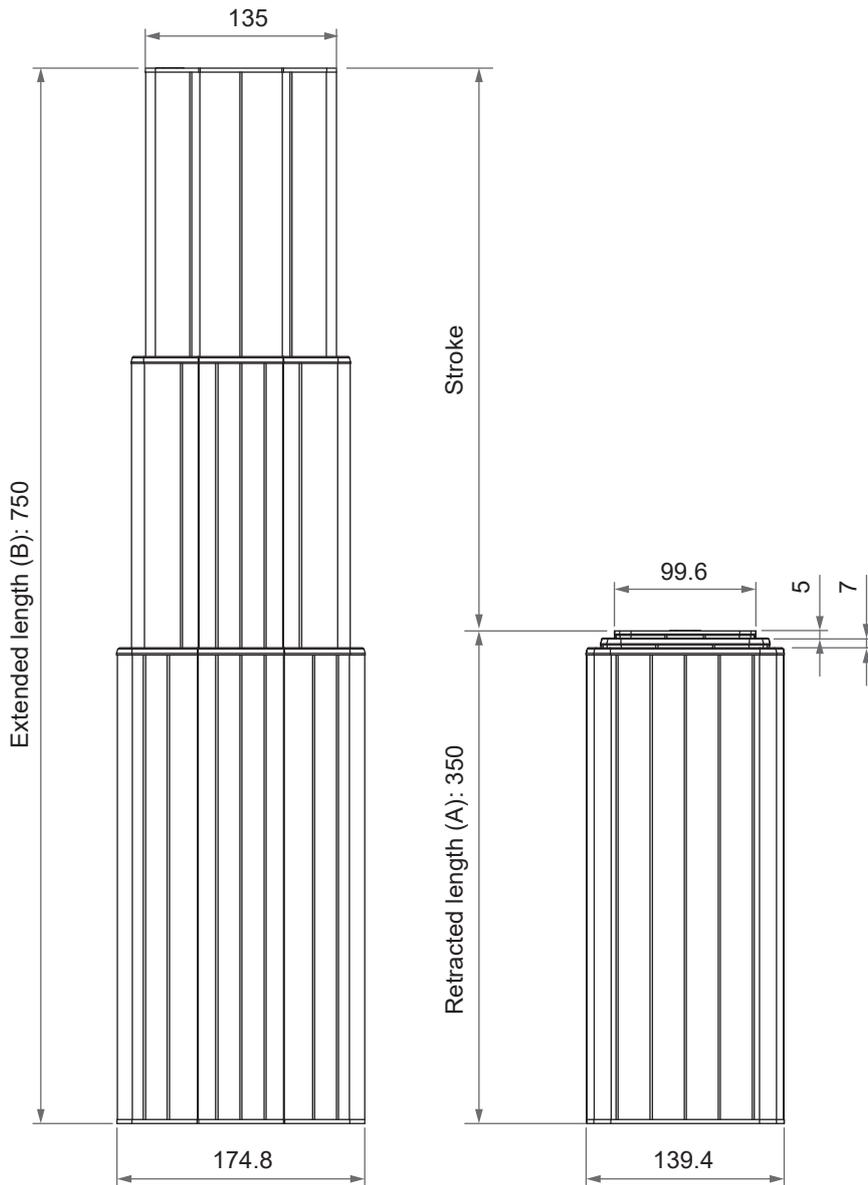
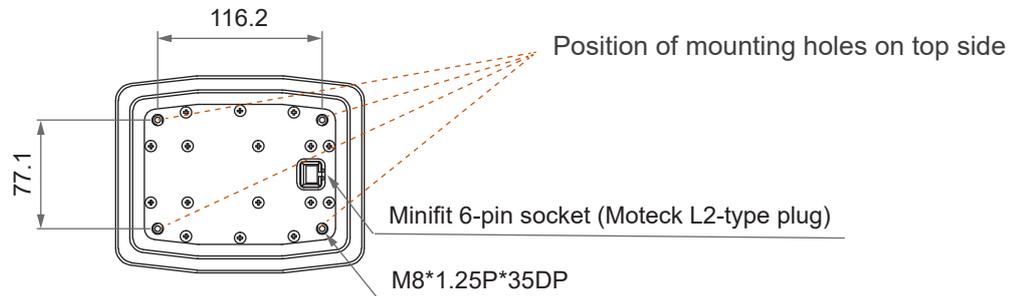
Current vs. Load



— Typical Current    - - - Max. Current

# Dimensions

- Available stroke (S) = 50 ~ 400 mm
- Retracted length (A) = 350 mm
- Extended length (B)  $\leq$  750 mm

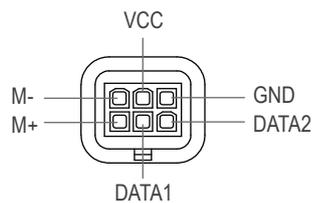


## Compatibility

Product	Model	DLC1 spec
Control box	MD6C	- Without positioning feedback - Moteck H-type 4-pin DIN plug
	MD6C-M, CB4P	- With dual Hall effect sensors - Moteck H-type 6-pin DIN plug
	CB5P-M	- With dual Hall effect sensors - Moteck LR-type 6-pin minifit plug

## Cable Plug

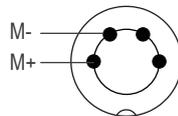
### • Lifting Column onnector: with Moteck L2-type



Moteck L2-type 6-pin minifit plug

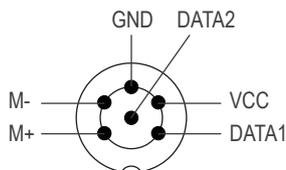
### • Connector for control box: with Moteck H-type or LR-type

- Without dual Hall effect sensors

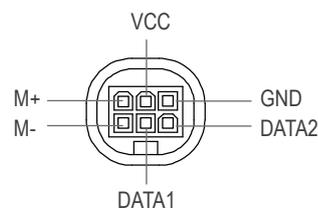


Moteck H-type 4-pin DIN plug

- With dual Hall effect sensors



Moteck H-type 6-pin DIN plug



Moteck LR-type 6-pin minifit plug

### • Note:

	Definition	Comments
Power	M+	Connect M+ to "+" & M- to "-" of DC power, the actuator will extend.
	M-	
Signal	Vin	Voltage input range (Vin): 5 ~ 20V
	Hall 1 output	High= Input - 1.2V ( $\pm 0.6V$ ) Low= GND Hall signal data:
	Hall 2 output	Hall effect sensor resolution: 3.78 pulses/mm
GND		



L2-type



H-type



LR-type

## Ordering Key

**DLC1 - 24 RH - 350 . 750 - 0 H 4 0 1**

<b>Input voltage</b>	<b>24:</b> 24V DC
<b>Motor and Spindle type</b>	<b>RH:</b> 2950rpm/16.9mm pitch (Refer to Performance Data)
<b>Retracted length</b>	<b>XXX</b> (Refer to Dimensions)
<b>Extended length</b>	<b>XXX</b> (Refer to Dimensions)
<b>Reserved</b>	<b>0</b>
<b>Positioning feedback</b>	<b>0:</b> None <b>H:</b> With dual Hall effect sensors
<b>IP Protection level</b>	<b>4:</b> IPX4 (standard) <b>6:</b> IPX6
<b>Cable direction</b>	<b>0:</b> Standard (Inwards toward the center of the column) <b>R:</b> Outward
<b>Cable length</b>	<b>1:</b> 1000 mm Straight (standard) <b>2:</b> 2000 mm Straight



**Cable inwards**



**Cable outwards**