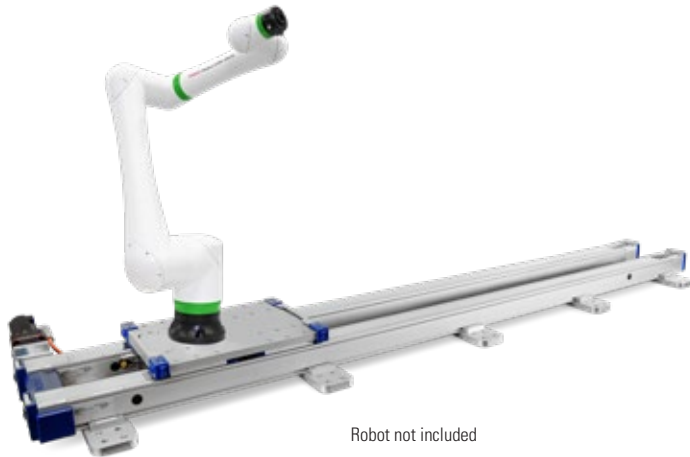


## Get moving with the first collaborative 7<sup>th</sup> axis

The Thomson Movotrak cobot transfer unit (CTU) is a plug-and-play system with up to 10 meters of horizontal operating range, which can help boost productivity for various robotic functions. With flexible mounting options, it's compatible with the largest sized cobots on the market.



Robot not included

### Features & Benefits

- User-adjustable collision detection settings allow users to set the sensitivity of the 7<sup>th</sup> axis per the application requirements.
- 7<sup>th</sup> axis Freedrive mode allows hand-driven movements to set linear waypoints during programming.
- Dual-linear-unit design delivers maximum moment load and stiffness, even when the cobot arm is fully extended.
- Flexible mounting options (horizontal, inverted, wall-mounted) allow users to optimize their work spaces.

### Additional Resources



Watch the Movotrak CTU  
in action



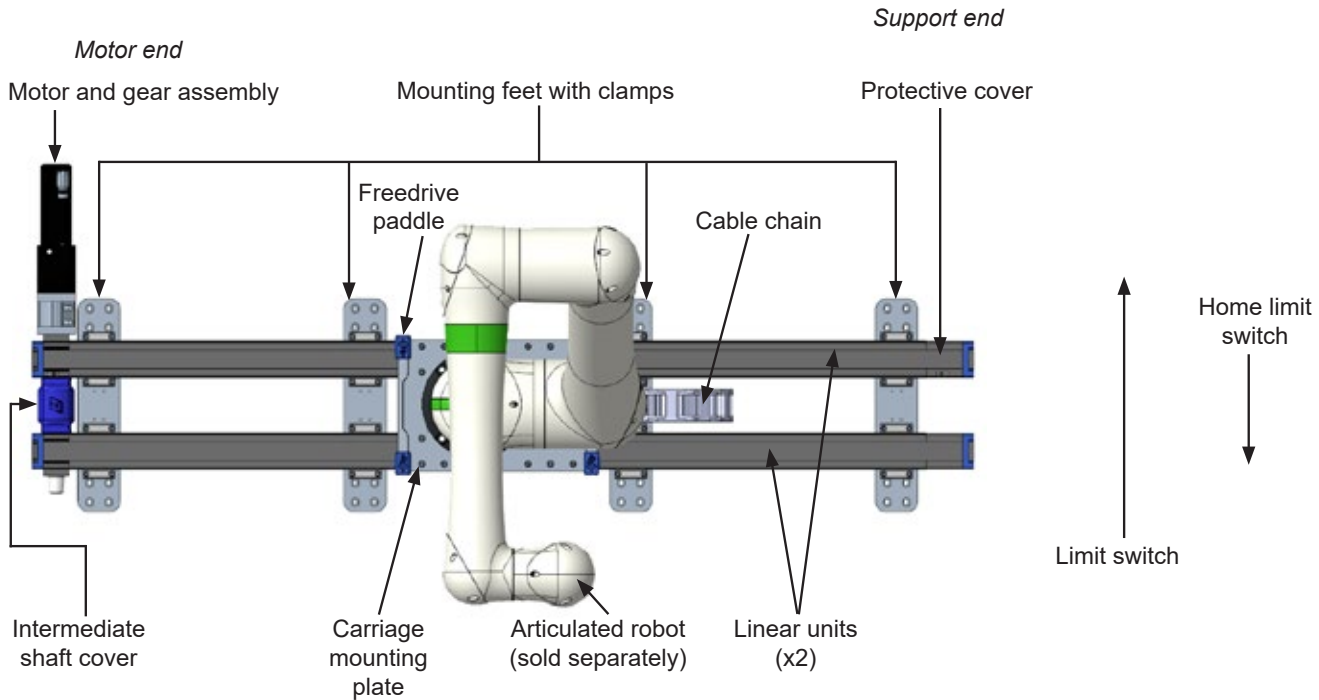
Sign up for a live demo

### Applications

- Large part testing and inspection
- Machine tending
- Material handling (bin picking, palletizing and packaging)
- Large-scale welding, soldering, sanding and dispensing



# 7<sup>th</sup> Axis Mechanical Assembly



Included: Dual linear units, Kollmorgen servo motor, precision gearhead, carriage mounting plate for robot, Freedrive paddles, end-of-stroke limit switches, cable management, control box and software with 7th axis collision detection. A plug-in is available for interacting directly with the FANUC teach pendant.

## Ordering Key

Position	1	2	3	4	5	6	7	8	9	10
Example	CT7	R	I	3600	FN30	A	STB	1U	M	-
<p>1. CTU type and size CT7 = Movotrak CTU size 07 (Movopart M75 linear unit)</p> <p>2. Motor configuration L = motor on left side R = motor on right side</p> <p>3. Gearhead I = Inline, 7:1 ratio R = Right-angle, 6:1 ratio</p> <p>4. Stroke length XXXX = stroke in millimeters</p> <p>5. Brand and size of articulated robot<sup>1</sup> UR7 = Universal Robots UR5/7e UR12 = Universal Robots UR10/12/16e UR15 = Universal Robots UR8/15/18 UR20 = Universal Robots UR20/30 FN5 = FANUC CRX-5iA FN2S = FANUC CRX-10/20iA FN30 = FANUC CRX-30iA AB5 = ABB GoFa5 AB12 = ABB GoFa10/12</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>1. Contact Thomson for other robot brands and sizes. 2. Thomson provides mounting fixtures and bracketry for the cable chain. Cable chains are purchased separately from IGUS.</p> </div>					<p>6. Base plate A = 4 x M8 holes on a 45x45 mm pattern B = 4 x M8 holes on a 50x50 mm pattern C = 2 x M10 holes for weldment D = M8 holes with 3 in or 90 mm extrusion F = 4 x M8 holes on a 40x40 mm pattern</p> <p>7. Chain style<sup>2</sup> STB = Standard horizontal mounting up to 5 m stroke (cable chain included) LTB = Horizontal mounting, long stroke lengths (5-10 m) INV = Bracketry for inverted/ceiling mount WMT = Bracketry for wall-mounted units (5 m max stroke)</p> <p>8. Voltage 1U = Single phase, 110 VAC 2E = Single phase, 230 VAC</p> <p>9. Communication type M = Modbus (for use with Universal Robots models) N = Ethernet/IP (for use with FANUC models) D = Digital I/O (for use with ABB models)</p>					

## Notes

- Repeatability of  $\pm 25 \mu\text{m/m}$  of stroke.
- Light washdown options available. Contact Thomson for details.

[thomsonlinear.com/ctu](http://thomsonlinear.com/ctu)

Movotrak\_CTU\_BREN-0050-06 | 20260313KB  
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