CAMCO iQue™

Intelligent Conveyor Powered by iTrak™

CAMCO iQue™ Intelligent Conveyor is today’s solution for motion control challenges, providing flexibility while enhancing performance significantly. iTRAK independent movers give machine designers the opportunity to design a ‘pitchless’ machine that can be easily adjusted to your specific application.

The iTRAK™ technology is the next step in motion control, eliminating the rotary driven chains, belts and gears of the past. It replaces mechanics with simple, effective software profiles redefining speed and flexibility in automation.

Product Highlights/Options

- Reduced machine footprint
- Three coil lengths available
- Modular and scalable
- Increased flexibility with a single design
- Allows flexible production scheduling

Features, Markets and Applications

<table>
<thead>
<tr>
<th>Features</th>
<th>Markets and Applications</th>
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<tbody>
<tr>
<td><strong>SPEED</strong></td>
<td>• Increased production rates – 50% or more!</td>
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<tr>
<td></td>
<td>• Faster changeover with on-the-fly programming</td>
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<td></td>
<td>• Faster machines because of new capabilities</td>
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<td><strong>PERFORMANCE</strong></td>
<td>• Multiple processes can be set up for maximum productivity</td>
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<td>• Change between products at the push of a button</td>
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<td>• Continuous and intermittent processes can be mixed on one machine</td>
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<td><strong>LOW MAINTENANCE</strong></td>
<td>• Predictable, infrequent maintenance</td>
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<td></td>
<td>• Reduced operator interaction with internal parts of machine</td>
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<td>• Robust direct-drive mechanical system</td>
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Dimensions and technical information are subject to change without notice.
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Straight & 90° curve linear motor sections available in standard 400mm lengths

Available in 50mm, 100mm & 150mm coil size

Combine for racetrack, square or circle configurations at any length

Additional benefit from the iTRAK™ Technology

- Modular, adaptable and scalable for any application
- Upgrade easily by reducing complex tooling
- Operate faster with less downtime
- Reduce energy consumption through direct drive

CAMCO iQue™ Conveyor’s flexible design allows the conveyor system to be orientated horizontally or vertically with an axial or radial configuration.

Carousel Conveyor

Over/Under Conveyor

90° Standing Over/Under Conveyor

Minimum Mover Pitch 65 mm

Acceleration > 10g

Repeatability < 50 µm

System Length 12m per Gateway

Payload Only limited by bearings and F=ma

Certifications UL, CE

Ingress Protection IP65

Feedback Type Absolute

Section Length 400 mm

<table>
<thead>
<tr>
<th>Motor Size</th>
<th>Maximum Speed</th>
<th>Maximum Force</th>
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<tbody>
<tr>
<td>50 mm</td>
<td>&gt; 5 m/s</td>
<td>264 N</td>
</tr>
<tr>
<td>100 mm</td>
<td>4 m/s</td>
<td>529 N</td>
</tr>
<tr>
<td>150 mm</td>
<td>2.75 m/s</td>
<td>793 N</td>
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The CAMCO iQue™ Conveyor’s iTRAK™ programmable linear drive allows independent control of multiple magnetically-propelled movers along a straight or curvilinear paths. Movers can be moved along the conveyor in forward or reverse motion at varying speeds, and in individual, continuous, batch and asynchronous motion sequences, dependent on customer specifications.

Batch Piece Flow

Batch to Single Piece Flow

Asynchronous Piece Flow

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