EXPERTLY DESIGNED, DELIVERED TO PERFORM

Powered by nearly 70 years of relentless problem-solving and steadfast reliability, Bishop-Wisecarver delivers innovative motion solutions around the world that thrive in harsh and extreme conditions. Our linear and rotary motion solutions, custom complex assemblies, and embedded intelligence systems lead the manufacturing industry, and they are backed by The Signature Experience promise of expert guidance, confidence and customer satisfaction.

PERFECT FOR HARSH AND EXTREME ENVIRONMENTS

When you purchase from Bishop-Wisecarver, you aren't just getting a product that works; you're getting products, systems, and industry-leading expertise you can trust, especially in harsh conditions and critical environments—always exceeding our customers’ reliability requirements.

Our Motion Products and Solutions Are Also Perfect For:

- Harsh Environments
- Long Length
- Low Noise
- High/Low Temperature
- Low Total Cost of Ownership
- Smooth, Low Friction Motion
- Moist Environments
- Food Grade
- Clean Room
- Vacuum
INTRODUCTION

Based on DualVee Motion Technology®, the QuickTrak® product line from Bishop-Wisecarver is a 90° vee guide wheel based linear motion platform which can be utilized across many industries and unique applications, enabling smooth and reliable motion in any environment from very clean to heavily debris-laden.

Design Benefits

- Systems are built from kits of modular components and sub-assemblies, enabling quick design and installation on finished products and production equipment
- Mount to T-slot aluminum extrusions with minimal machine shop support and assemble with only simple hand tools
- Modular extrusion based wheel plate assemblies with customizable width and wheel span
- Track assembly is mounted with standard fasteners onto extrusions
- Components can be customized for specific end-user application requirements
- Based on DualVee® guide wheels and vee-edge track in size 2 and size 3

Key Features

- Track assembly saves installation time and design costs
- Compatible with MCS machine construction system

Why Choose QUICKTRAK®

- Customizable solution
- Compatible with T-slot aluminum extrusions
- Quick design and installation
- Expedited assembly time
- Very durable

Need Help

Application + Design Assistance
925.439.8272

3D Modeling + CAD Drawing
BWC.com
PRODUCT OVERVIEW

How to Specify a Linear Guidance System

QuickTrak® is available fully assembled, including user-specified configurations and modifications. Contact our Application Engineers to discuss your needs!

QuickTrak® is also available as individual parts and kits for users to assemble. Simply order using the part numbers in this catalog.

QuickTrak® Features

• Anodized 6063 aluminum compact extrusion
• Permanently assembled linear guide surfaces in the form of DualVee® track made of AISI 1045 carbon steel hardened to 53 HRc minimum
• Double-edge track assemblies are a fixed width but single-edge track assemblies can span wider distances
• Single-edge track assemblies can be mounted to T-slot aluminum framing or slotted surface (can be quickly aligned using the extruded locating feature on the bottom surface of the track assembly)
• Length of the track assembly is user specified and can be supplied in any length up to 6 meters long (no joints in the track running surfaces)
• Wheel mounting kits contain snap-fit wheel covers with lubricated wiper foam, and mounting hardware
• Brake kits contain an adjustment handle, brake calipers, and mounting hardware
• Low cost T-slot aluminum extrusion based wheel plates designed for rapid assembly
DOUBLE-EDGE SYSTEMS

System Specifications

- Basic load capacity of double-edge QTD2 in the wheels’ axial direction is 564 lbf and 1192 lbf radially with an L10 rated life of 87km of travel
- Basic load capacity of double-edge QTD3 in the wheels’ axial direction is 1528 lbf and 2652 lbf radially with an L10 rated life of 130km of travel
- Utilizing DualVee® wheels and track sizes 2 and 3
- Refer to the DualVee® Series Guide Wheel and Track catalog for additional wheel and track details
- Mounts to T-slot aluminum extrusion or flat surface
- Available with optional brake kit (page 8)

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* Final part number is assigned by a Bishop-Wisecarver Applications Engineer; please call for assistance

Dimensions

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Dimensions are shown in inches and [millimeters]
Drawings are not to scale
DOUBLE-EDGE TRACK ASSEMBLIES

Product Features

- Mount track over any T-slot aluminum extrusion or flat surface quickly and easily with simple hand tools and common fasteners
  - Size 2 designed for 8mm T-slots and M6 flat head screws
  - Size 3 designed for 10mm T-slots and M8 flat head screws
- Inherently parallel track surfaces eliminate alignment issues
- Patented track clamp wedge with flexible fingers permanently holding the steel track without adhesives
- Made from clear anodized 6063 aluminum with hardened and polished AISI 1045 carbon steel DualVee® track (53 HRc minimum)
- Supplied permanently assembled and cut to length up to 6m maximum
- Extruded end holes can be threaded

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Dimensions

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Dimensions are shown in inches and (millimeters)
Drawings are not to scale
DOUBLE-EDGE WHEEL MOUNTING KITS

Product Features

- Kits contain all parts needed to assemble your own wheel plate onto T-slot aluminum extrusions (recommended 2 kits per assembly)
- Insert T-bar into T-slot extrusion to mount guide wheels for use with QTD double-edge track assembly
- QuickTrak® wheel bushings made from 303 stainless steel have large flanges to span T-slot openings and have a slot to capture the wheel cover
- Wheel covers with lubricating wiper foams snap-fit onto the wheel bushing slot and attach to the T-bar with nylon bolts
- Includes a bottle of lubricating oil and all required hardware

Kit Contents:
1. DualVee® wheels
2. AISI 303 stainless steel bushings (1 eccentric, 1 concentric)
3. T-bar
4. Bottle of lubrication oil
5. Snap-on wheel covers with track-wiping foam

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<td>Wheel Kit for QuickTrak® Double-Edge Size 3</td>
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DOUBLE-EDGE BRAKE KIT

Product Features

• Kits contain all parts needed to add a manual position locking brake to wheel plate assemblies
• Brake calipers flex to contact the track assemblies for holding wheel plate position
• Compatible with the edge T-slots on QuickTrak® wheel plate extrusions
• Includes adjustable position handle and an adjustment gage for setting the proper gap between the caliper and the track
• QTD version has standard thread rod length and is compatible with QTD assemblies

Kit Contents:
1 Brake calipers, hard anodized 6063-T6 aluminum
2 Manual, adjustable-position handle
3 Mounting fasteners, washers and T-nuts
4 Installation adjustment gage
5 Threaded rod and T-nut

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APPLICATION EXAMPLE

This assembly depicts how a customized QuickTrak® system is being used to move a coating applicator back and forth onto printed materials. The ease of installation and durable motion of DualVee Motion Technology® in the QuickTrak® system proved to be the ideal linear guide solution.
### SINGLE-EDGE SYSTEMS

**System Specifications**

- Load capacity of single-edge QTS2 and QTS3 is dependent upon the user configured wheel plate span and resulting wheel spacing
- Utilizing DualVee® wheels and track sizes 2 and 3
- Refer to the DualVee® Series Guide Wheel and Track catalog for additional wheel and track details
- Mounts to T-slot aluminum extrusion or slotted surface
- Available with optional brake kits (page 12)

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<td>QTS3</td>
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* Final part number is assigned by a Bishop-Wisecarver Applications Engineer; please call for assistance

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### Dimensions

#### WHEEL PLATE & BRAKE DIMENSIONS

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Dimensions are shown in inches and [millimeters].
Drawings are not to scale.
SINGLE-EDGE TRACK ASSEMBLIES

Product Features

• Mount track over any T-slot aluminum extrusion or slotted surface quickly and easily with simple hand tools and common fasteners
  — Size 2 designed for 8mm T-slots and M6 flat head screws
  — Size 3 designed for 10mm T-slots and M8 flat head screws
• The locating tab feature on the bottom surface allows for precise alignment
• Patented track clamp wedge with flexible fingers permanently holds the steel track without adhesives
• Made from clear anodized 6063 aluminum with hardened and polished AISI 1045 carbon steel DualVee® track (53 HRC minimum)
• Supplied permanently assembled and cut to length up to 6 m maximum

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Dimensions

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Dimensions are shown in inches and [millimeters]
Drawings are not to scale
SINGLE-EDGE WHEEL MOUNTING KITS

Product Features
• Kits contain all parts needed to assemble your own wheel plate onto T-slot aluminum extrusions (recommended 2 kits per assembly)
• Insert T-bar into T-slot extrusions at custom span lengths to mount guide wheels (see wheel plate extrusion sold per meter on page 13)
• QuickTrak® wheel bushings made from 303 stainless steel have large flanges to span T-slot openings and have a slot to capture the wheel cover
• Wheel covers with lubricating wiper foams snap-fit onto the wheel bushing slot and attach to the T-bar with nylon bolts
• Includes a bottle of lubricating oil and all required hardware

Kit Contents:
1 DualVee® wheels
2 AISI 303 stainless steel bushings (1 eccentric, 1 concentric)
3 T-bar
4 Bottle of lubrication oil
5 Snap-on wheel covers with track-wiping foam

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SINGLE-EDGE BRAKE KIT

Product Features
• Kits contain all parts needed to add a manual position locking brake to wheel plate assemblies
• Brake calipers flex to contact the track assemblies for holding wheel plate position
• Compatible with the edge T-slots on QuickTrak® wheel plate extrusions
• Includes adjustable position handle and an adjustment gage for setting the proper gap between the caliper and the track
• QTD version has custom length thread rod up to 1 meter long to accommodate various track assembly spans

Kit Contents:
1 Brake calipers, hard anodized 6063-T6 aluminum
2 Manual, adjustable-position handle
3 Mounting fasteners, washers and T-nuts
4 Installation adjustment gage
5 Threaded rod and T-nut

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<tr>
<td>QTS3BK</td>
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WHEEL PLATE EXTRUSION

Product Features

- Low profile and wide extrusion is designed for use as wheel plates and structural support
- T-slots on the bottom surface for attaching QuickTrak® wheel kits, T-slots on the side surfaces for attaching QuickTrak® brake kits, and T-slots on the top surface for attaching to equipment
- Made from 6063 aluminum with clear hard anodized coating
- Available cut to standard lengths for QuickTrak® double-edge systems or cut to any length up to 3.0 meters for QuickTrak® single-edge
- Assemble linear motion systems quickly with simple hand tools

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QTD2WPE standard cut length is 5.354 in (136.00mm)

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QTD3WPE standard cut length is 7.717 in (196.00mm)

Key Feature
Quick and easy mounting to your application

Key Feature
Wheel mounting location is adjustable by user without drilling

Dimensions

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Dimensions are shown in inches and [millimeters]
Drawings are not to scale
**HOW TO ORDER**

Please call us directly: 925.439.8272 | email: sales@bwc.com

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PRODUCT SUMMARY

Track Assemblies
QTD and QTS track assemblies allow an end user to quickly and easily mount linear guide wheel motion components onto aluminum T-slot extrusions from any manufacturer with simple hand tools and common fasteners.

Wheel Plate Extrusions
Inexpensive, recyclable, 6063 aluminum, corrosion resistant, easy to cut to length, flexible mounting applications, compatible with other commercially available T-slot hardware.

Wheel Kits
The kit provides all of the parts and supplies for mounting wheels to a T-slot extruded aluminum wheel plate including wheels, bushings, wheel covers, lubricating foams and oil, and mounting hardware. These kits make it convenient for the end user to order and assemble QuickTrak linear guides.

Brake Kits
The kit provides all of the parts and supplies for mounting a brake to a T-slot extruded aluminum wheel plate including brake calipers, adjustment gage, handle, threaded rod, and all of the necessary bolts, washers and T-nuts. The brake kit can be used to allow position locking of the wheel plate on the track at any location along the travel length of the system.

System Assemblies
Easily mountable, already assembled, durable, long-lasting, highly efficient.

T-slot Extrusion Profiles

* Commonly used extrusion profiles are shown above

For aluminum extrusions and connection hardware, see the HepcoMotion MCS Catalog
Components & Accessories
DualVee®
MadeWell®
GV3
SL2
PRT2
HDS2
HDRT
MCS
Motor Mounts
Gantry Brackets
Wrenches

Manual Linear Guide Systems
DualVee®
UtiliTrak®
MinVee®
GV3
Simple Select®
SL2
HDS2
MHD
HTS

Actuated Linear Guide Systems
LoPro®
XLA™
ECO60™
SlickStick™
SteadyRail™
HDSL
HDCS
PDU2
DAPDU2
SBD
PSD
SDM
DLS

Rotary Guide Systems
PRT2
DTS2
DTS
DTS+
ALR
HDRT
1-Trak
GFX

Robot Transfer Units
DualVee® RTU
LoPro® RTU

Custom Solutions
Extruded Profile Guides
Custom Bearings
Custom Subassemblies
Engineering Services
Large Diameter Ring Guides and Track

Certifications & Compliance
• EN 9100:2018
• JISQ 9100:2016
• ISO 13485 & GMP Compliance
• Responsible Minerals Initiative
• RoHS
• International Traffic in Arms Regulations Compliant

Quality Certifications
• Certified Bay Area Green Business
• Certified Evergreen

Women’s Business Enterprise
• Certified WOSB

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