



QuickTrak[®] Series

***AN EXTRUDED PROFILE
GUIDE SYSTEM***

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



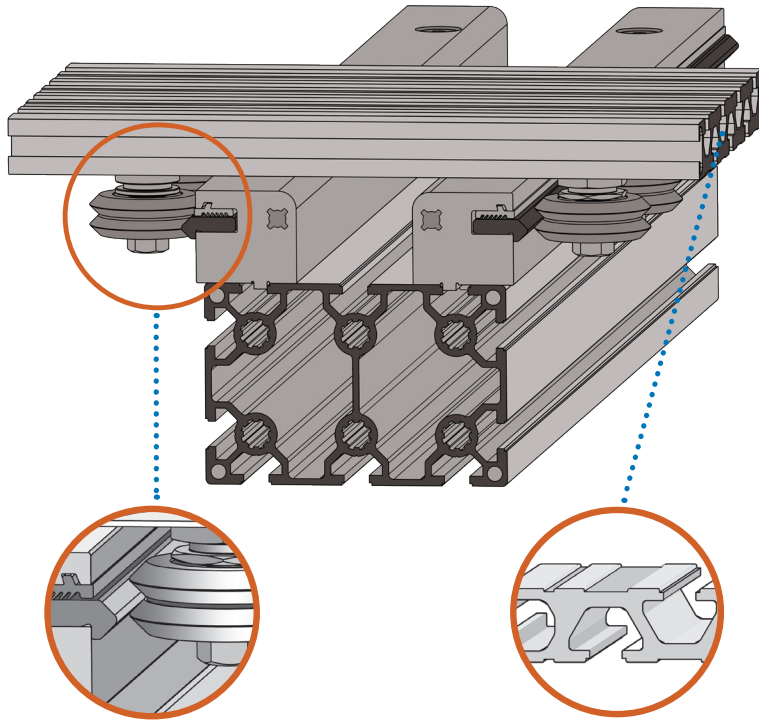
CLEAN ROOM



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.



QTS Single-Edge Configuration:
DualVee® wheels are a featured benefit in this QuickTrak® assembly

QuickTrak® wheel plate extrusion

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

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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

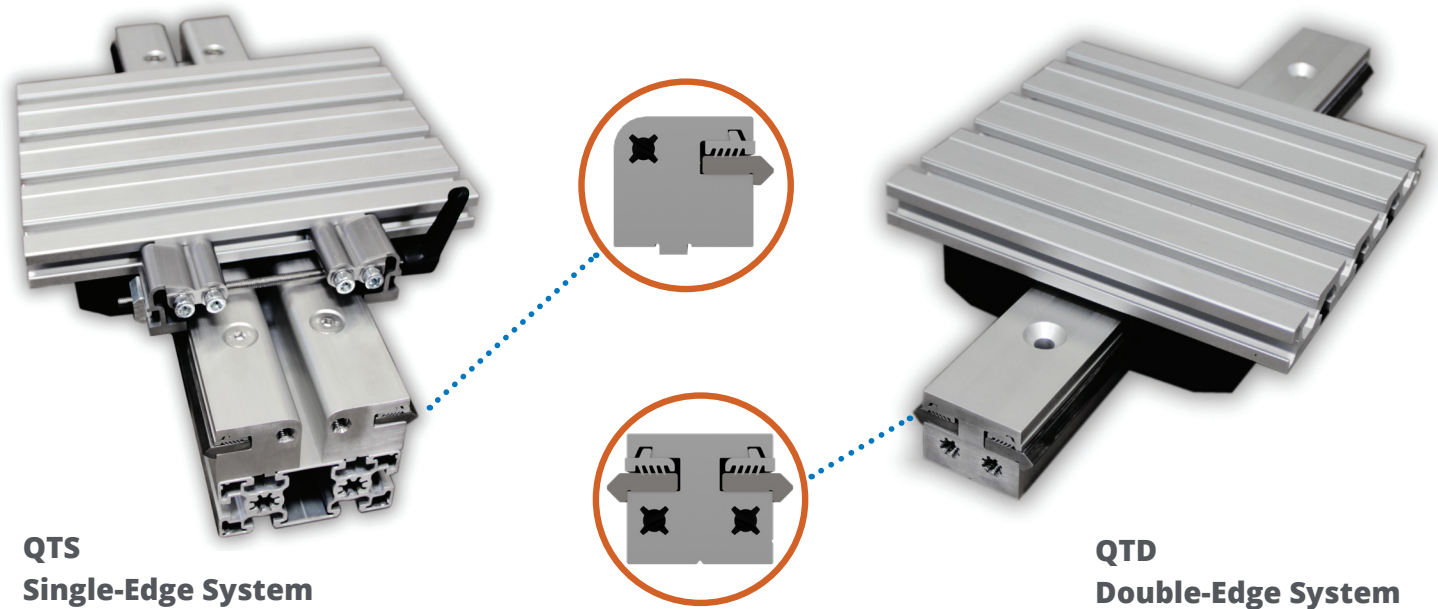
3D Modeling + CAD Drawing
BWC.com

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.



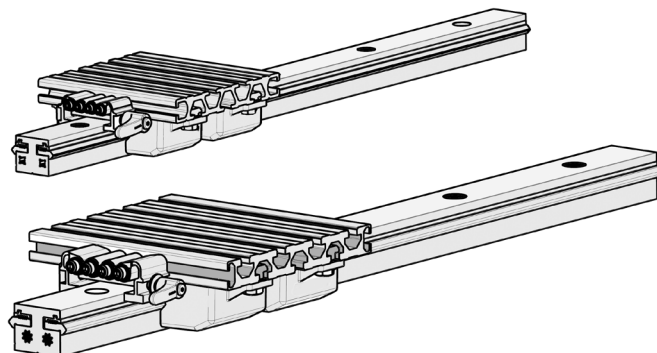
QuickTrak® Features

- 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

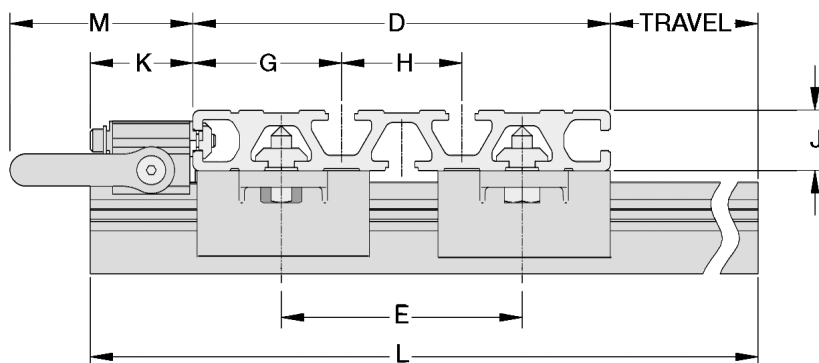
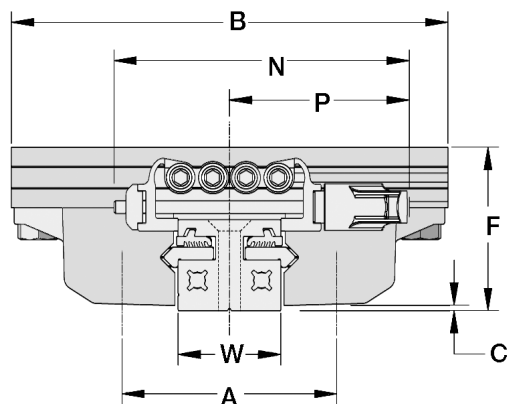
System Specifications

- 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)



STOCK CODE	DESCRIPTION	UNITS
QTD2 _____*	System assembly — QuickTrak® Double-Edge Size 2	ea
QTD3 _____*	System assembly — QuickTrak® Double-Edge Size 3	ea

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



Dimensions

WHEEL PLATE & BRAKE DIMENSIONS															TRACK	
SIZE	STOCK CODE	A	B	C	D	E	F	G	H	J	K	M	N	P	L	W
2	QTD2	2.634 [66.90]	5.354 [136.0]	0.066 [1.67]	5.118 [130.0]	2.953 [75.00]	2.000 [50.79]	1.821 [46.25]	1.476 [37.50]	0.738 [18.75]	1.260 [32.00]	2.284 [58.01]	4.026 [102.26]	2.432 [61.78]	TRAVEL + D + K	12.60 [32.00]
3	QTD3	3.771 [95.78]	7.717 [196.00]	0.111 [2.81]	7.087 [180.00]	3.543 [90.00]	2.553 [64.85]	0.886 [22.50]	1.772 [45.00]	0.886 [22.50]	1.730 [43.95]	2.475 [62.87]	5.207 [132.26]	3.087 [78.41]		1.772 [45.00]

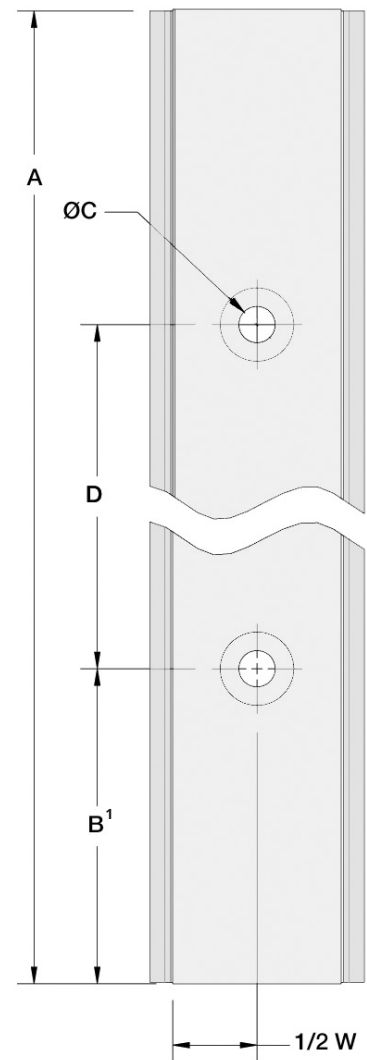
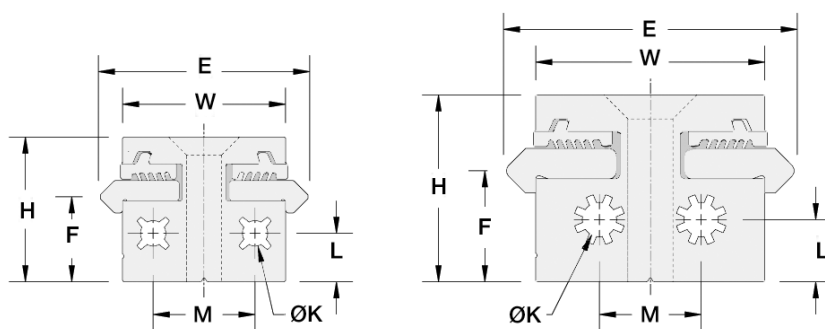
Dimensions are shown in inches and [millimeters]
Drawings are not to scale

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

STOCK CODE	DESCRIPTION	UNITS
QTD2TA	Track Assembly — QuickTrak® Double-Edge Size 2	meter
SHFLM6X35SS	Mounting Screw — Flat Head M6 x 35mm stainless	ea
12421026	Mounting T-nut — M6 thread for 8mm T-slot	ea
QTD3TA	Track Assembly — QuickTrak® Double-Edge Size 3	meter
SHFLM8X45SS	Mounting Screw — Flat Head M8 x 45mm stainless	ea
12421002	Mounting T-nut — M8 thread for 10mm T-slot	ea



B'. Minimum end spacing 7.25mm for size 2 and 9.45mm for size 3

Dimensions

TRACK ASSEMBLY DIMENSIONS

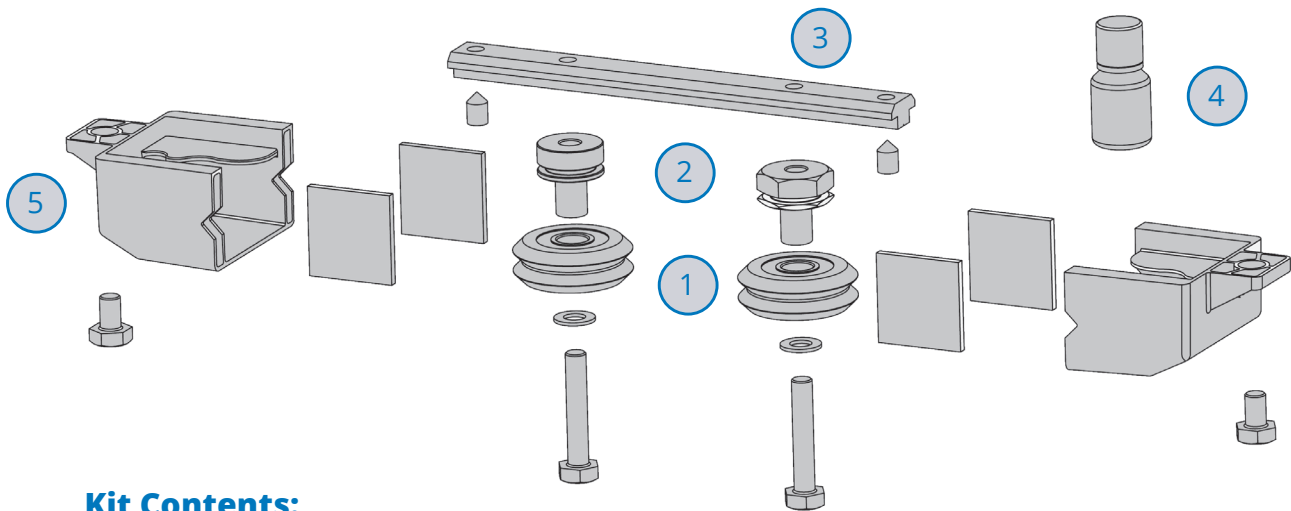
SIZE	STOCK CODE	A	B	C	D	E	F	W	H	K	L	M
2	QTD2TA	Specify length per meter up to 6.0 maximum	(A-# of D spaces x D) / 2	0.272 [6.90]	4.724 [120.00]	1.634 [41.50]	0.656 [16.66]	1.260 [32.00]	1.118 [28.40]	0.197 [5.00]	0.374 [9.50]	0.787 [20.00]
3	QTD3TA			0.348 [8.84]	5.906 [150.00]	2.272 [57.71]	0.857 [21.77]	1.772 [45.00]	1.444 [36.68]	0.266 [6.80]	0.480 [12.19]	0.787 [20.00]

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:

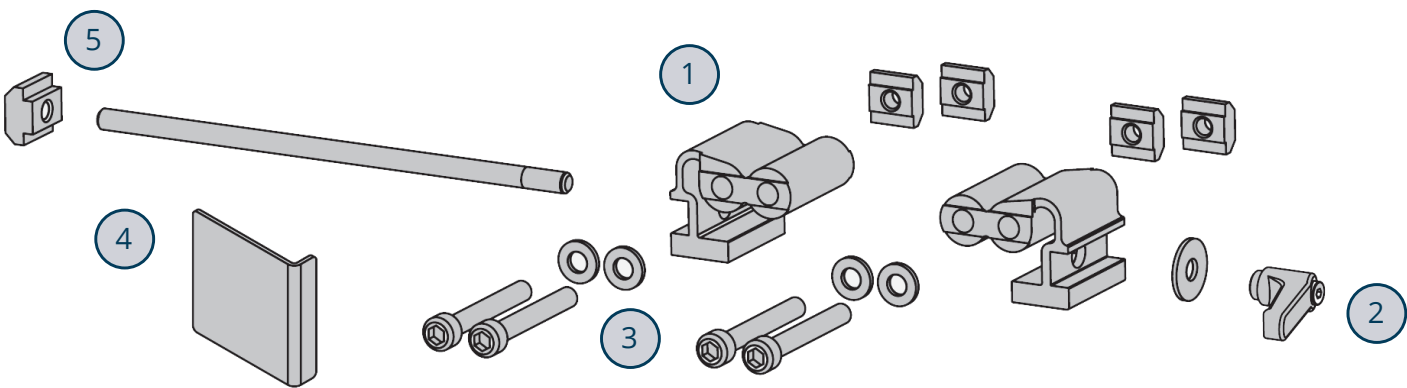
- 1 DualVee® wheels
- 2 AISI 303 stainless steel bushings (1 eccentric, 1 concentric)
- 3 T-bar
- 4 Bottle of lubrication oil
- 5 Snap-on wheel covers with track-wiping foam

STOCK CODE	DESCRIPTION	UNITS
QTD2WK	Wheel Kit for QuickTrak® Double-Edge Size 2	ea
QTD3WK	Wheel Kit for QuickTrak® Double-Edge Size 3	ea

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



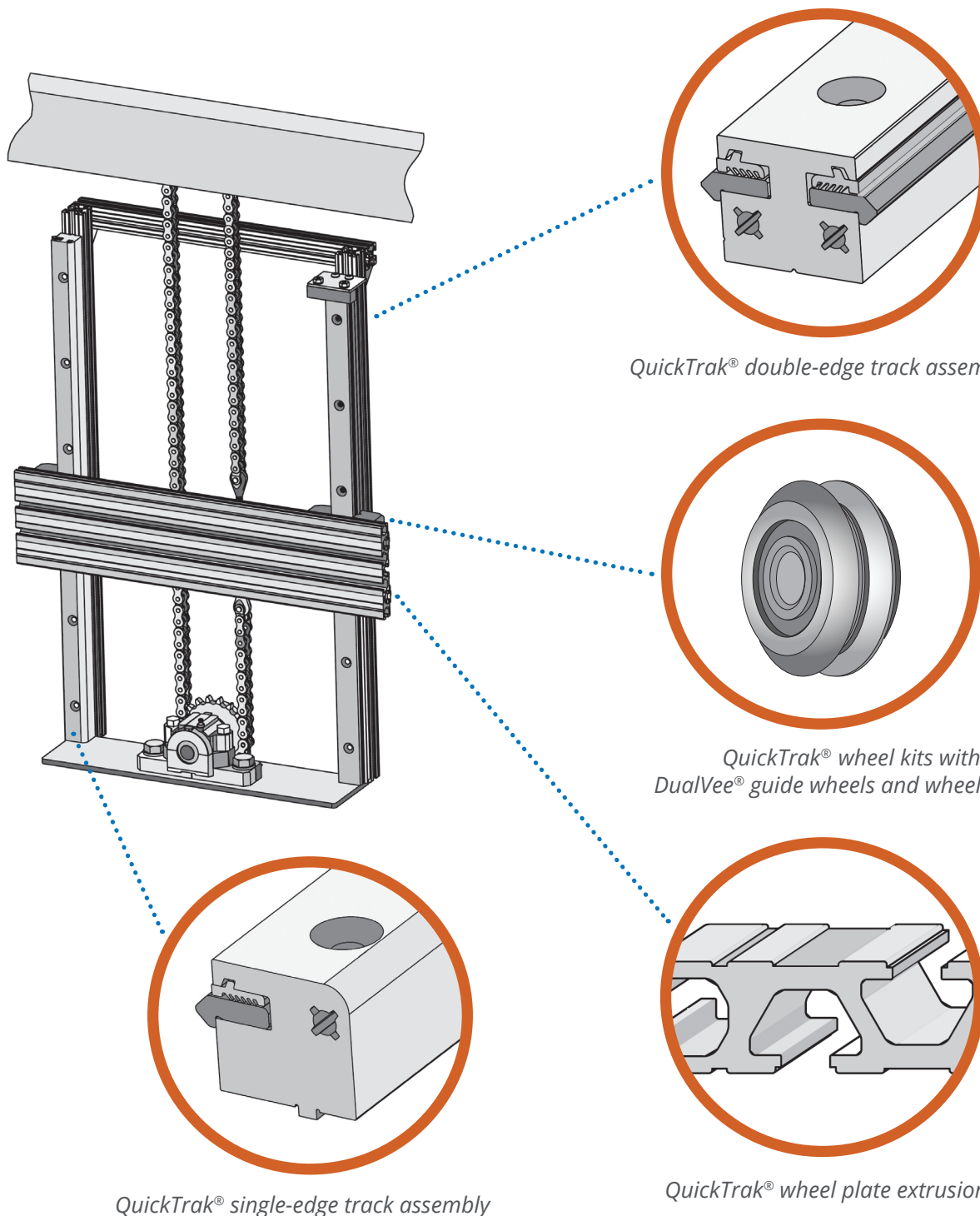
Kit Contents:

- 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

STOCK CODE	DESCRIPTION	UNITS
QTD2BK	Wheel Kit for QuickTrak® Double-Edge Size 2	ea
QTD3BK	Wheel Kit for QuickTrak® Double-Edge Size 3	ea

APPLICATION EXAMPLE

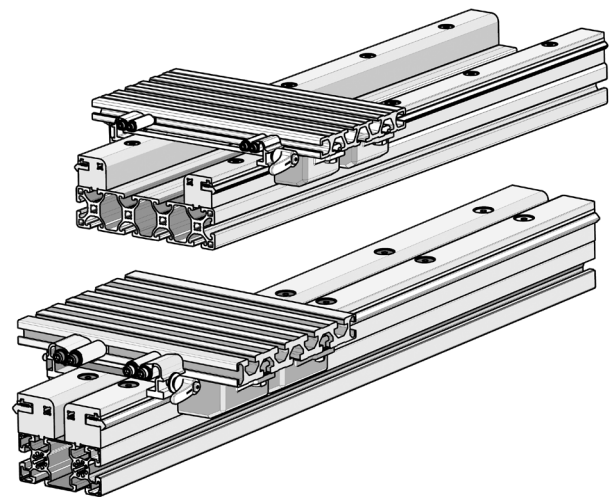
This assembly depicts how a customized QuickTrak® system is being used to move a coating applicator back and forth onto printed materials. The ease of installation and durable motion of DualVee Motion Technology® in the QuickTrak® system proved to be the ideal linear guide solution.



SINGLE-EDGE SYSTEMS

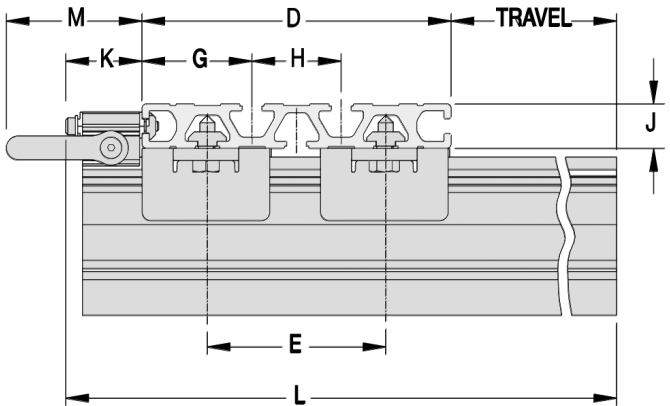
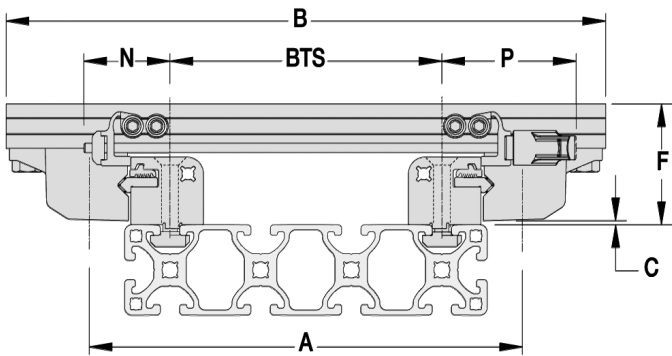
System Specifications

- 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)



STOCK CODE	DESCRIPTION	UNITS
QTS2_____*	System assembly — QuickTrak® Single-Edge Size 2	ea
QTS3_____*	System assembly — QuickTrak® Single-Edge Size 3	ea

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



Dimensions																
WHEEL PLATE & BRAKE DIMENSIONS																TRACK
SIZE	STOCK CODE	BTS	A	B	C	D	E	F	G	H	J	K	M	N	P	L
2	QTS2	User Specified T-slot spacing	BTS+2.668 [BTS+67.77]	BTS+5.421 [BTS+137.70]	0.066 [1.67]	5.118 [130.00]	2.953 [75.00]	2.000 [50.79]	1.821 [46.25]	1.476 [37.50]	0.738 [18.75]	1.260 [32.00]	2.284 [58.01]	1.425 [36.20]	2.449 [62.20]	Travel + D + K
3	QTS3		BTS+3.826 [BTS+97.18]	BTS+7.795 [BTS+198.00]	0.111 [2.81]	7.087 [180.00]	3.543 [90.00]	2.553 [64.85]	0.886 [22.50]	1.772 [45.00]	0.886 [22.50]	1.730 [43.95]	2.475 [62.87]	2.247 [57.07]	3.114 [79.10]	

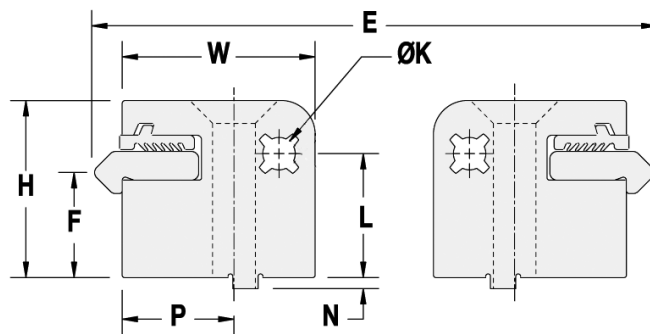
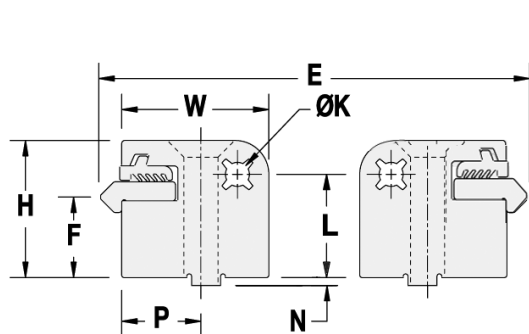
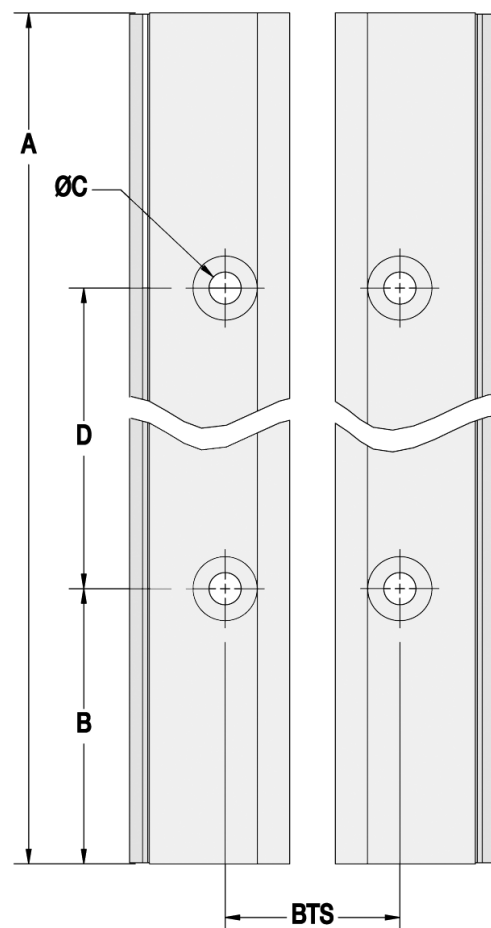
Dimensions are shown in inches and [millimeters]
Drawings are not to scale

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

STOCK CODE	DESCRIPTION	UNITS
QTS2TA	Track Assembly — QuickTrak® Single-Edge Size 2	meter
SHFLM6X35SS	Mounting Screw — Flat Head M6 x 35mm stainless	ea
12421026	Mounting T-nut — M6 thread for 8mm T-slot	ea
QTS3TA	Track Assembly — QuickTrak® Single-Edge Size 3	meter
SHFLM8X45SS	Mounting Screw — Flat Head M8 x 45mm stainless	ea
12421002	Mounting T-nut — M8 thread for 10mm T-slot	ea



Dimensions

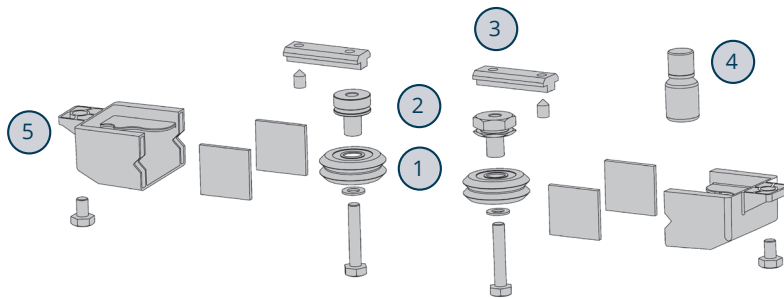
TRACK ASSEMBLY DIMENSIONS													
SIZE	STOCK CODE	A	B	C	D	E	F	H	W	K	L	N	P
2	QTS2TA	Specify length per meter up to 6.0 maximum	(A-# of D spaces x D) / 2	0.272 [6.90]	4.724 [120.00]	BTS + 1.668 [BTS + 42.37]	0.656 [16.66]	1.118 [28.40]	1.201 [30.50]	0.197 [5.00]	0.842 [21.39]	0.065 [1.65]	0.647 [16.43]
3	QTS3TA			0.348 [8.84]	5.906 [150.00]	BTS + 2.326 [BTS + 59.08]	0.857 [21.77]	1.444 [36.68]	1.576 [40.00]	0.266 [6.80]	1.011 [25.68]	0.09 [2.30]	0.913 [23.19]

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:

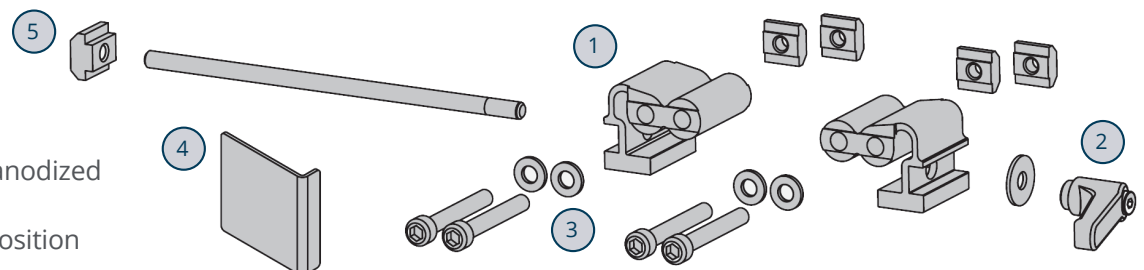
- 1 DualVee® wheels
- 2 AISI 303 stainless steel bushings (1 eccentric, 1 concentric)
- 3 T-bar
- 4 Bottle of lubrication oil
- 5 Snap-on wheel covers with track-wiping foam

STOCK CODE	DESCRIPTION	UNITS
QTS2WK	Wheel Kit for QuickTrak® Single-Edge Size 2	ea
QTS3WK	Wheel Kit for QuickTrak® Single-Edge Size 3	ea

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

STOCK CODE	DESCRIPTION	UNITS
QTS2BK	Wheel Kit for QuickTrak® Single-Edge Size 2	ea
QTS3BK	Wheel Kit for QuickTrak® Single-Edge Size 3	ea

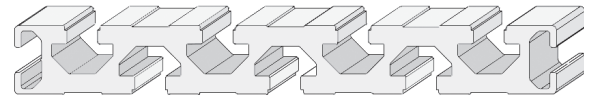
WHEEL PLATE EXTRUSION

Product Features

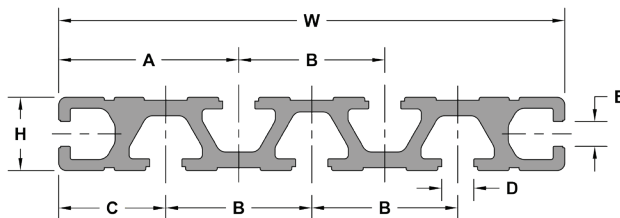
- Low profile and wide extrusion is designed for use as wheel plates and structural support
- T-slots on the bottom surface for attaching QuickTrak® wheel kits, T-slots on the side surfaces for attaching QuickTrak® brake kits, and T-slots on the top surface for attaching to equipment
- Made from 6063 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



Size 2 Wheel Plate Extrusion

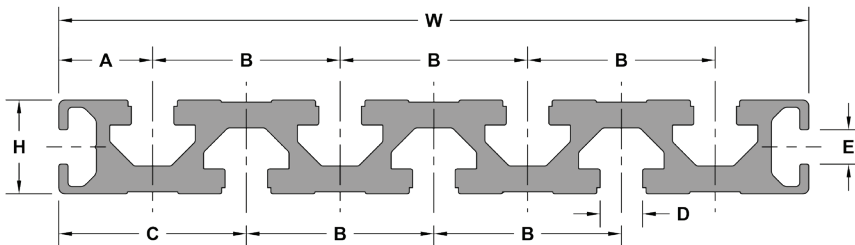


Size 3 Wheel Plate Extrusion



STOCK CODE	DESCRIPTION	UNITS
QT2WPE	Wheel Plate Extrusion Size 2	meter
QTD2WPE	Wheel Plate for QuickTrak® Double-Edge Size 3	ea

QTD2WPE standard cut length is 5.354 in (136.00mm)



STOCK CODE	DESCRIPTION	UNITS
QT3WPE	Wheel Plate Extrusion Size 3	meter
QTD3WPE	Wheel Plate for QuickTrak® Double-Edge Size 3	ea

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

WHEEL PLATE EXTRUSION DIMENSIONS								
SIZE	STOCK CODE	H	W	A	B	C	D	E
2	QT2WPE	.0738 [18.75]	5.118 [130.00]	1.821 [46.25]	1.476 [37.50]	1.083 [27.50]	0.325 [8.26]	0.248 [6.30]
3	QT3WPE	0.866 [22.50]	7.087 [180.00]	0.886 [22.50]	1.772 [45.00]	1.772 [45.00]	0.402 [10.20]	0.323 [8.20]

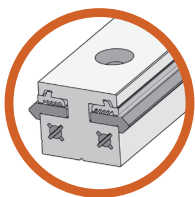
Dimensions are shown in inches and [millimeters]
Drawings are not to scale

HOW TO ORDER

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

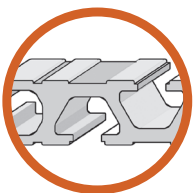
	STOCK CODE	DESCRIPTION	UNITS	QUANTITY
TRACK PLATE ASSEMBLY	QTD2TA	Track Assembly, Double-Edge, Size 2	meter	up to 6 m
	QTD3TA	Track Assembly, Double-Edge, Size 3	meter	up to 6 m
	QTS2TA	Track Assembly, Single-Edge, Size 2	meter	up to 6 m
	QTS3TA	Track Assembly, Single-Edge, Size 3	meter	up to 6 m
	SHFLM6X35SS	Mounting Screw, Size 2, Flat head M6 x 35mm stainless	each	each
	SHFLM8X45SS	Mounting Screw, Size 3, Flat head M8 x 45 mm stainless	each	each
	12421026	Mounting T-nut, Size 2, 8mm T-slot with M6 thread	each	each
	12421002	Mounting T-nut, Size 3, 10mm T-slot with M8 thread	each	each
WHEEL PLATE EXT.	QT2WPE	Wheel Plate Extrusion Size 2	meter	up to 3 m
	QT3WPE	Wheel Plate Extrusion Size 3	meter	up to 3 m
	QTD2WPE	Wheel Plate Ext., Size 2 for QTD2	each	each
	QTD3WPE	Wheel Plate Ext., Size 3 for QTD3	each	each
WHEEL KITS	QTD2WK	Wheel Kit, Double-Edge, Size 2	each	each
	QTD3WK	Wheel Kit, Double-Edge, Size 3	each	each
	QTS2WK	Wheel Kit, Single-Edge, Size 2	each	each
	QTS3WK	Wheel Kit, Single-Edge, Size 3	each	each
BRAKE KITS	QTD2BK	Brake Kit, Double-Edge, Size 2	each	each
	QTD3BK	Brake Kit, Double-Edge, Size 3	each	each
	QTS2BK	Brake Kit, Single-Edge, Size 2	each	each
	QTS3BK	Brake Kit, Single-Edge, Size 3	each	each
SYSTEM ASSEMBLIES	QTD2	Wheel Plate Assembly, Size 2 QTD	each	each
	QTD2 with Brake	Wheel Plate Assembly, Size 2 QTD	each	each
	QTD3	Wheel Plate Assembly, Size 3 QTD	each	each
	QTD3 with Brake	Wheel Plate Assembly, Size 3 QTD	each	each
	QTS2	Wheel Plate Assembly, Size 2 QTS	each	each
	QTS2 with Brake	Wheel Plate Assembly, Size 2 QTS	each	each
	QTS3	Wheel Plate Assembly, Size 3 QTS	each	each
	QTS3 with Brake	Wheel Plate Assembly, Size 3 QTS	each	each
HARDWARE	12421022	T-nut for 6mm T-slot with M3 thread	each	each
	12421023	T-nut for 6mm T-slot with M4 thread	each	each
	12421024	T-nut for 8mm T-slot with M4 thread	each	each
	12421025	T-nut for 8mm T-slot with M5 thread	each	each
	12421026	T-nut for 8mm T-slot with M6 thread	each	each
	12421029	T-nut for 10mm T-slot with M4 thread	each	each
	12421030	T-nut for 10mm T-slot with M5 thread	each	each
	12421001	T-nut for 10mm T-slot with M6 thread	each	each
	12421002	T-nut for 10mm T-slot with M8 thread	each	each

PRODUCT SUMMARY



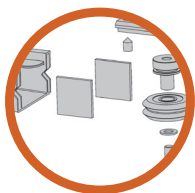
Track Assemblies

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.



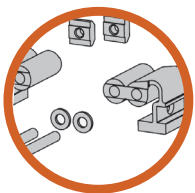
Wheel Plate Extrusions

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



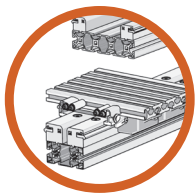
Wheel Kits

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

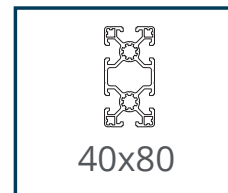
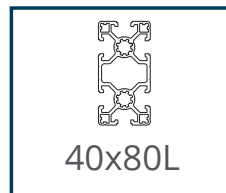
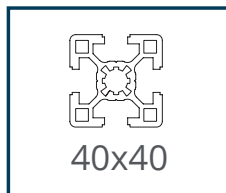
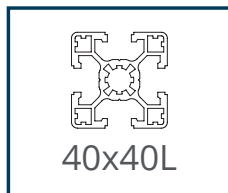
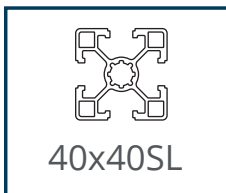
The kit provides all of the parts and supplies for mounting a brake to a T-slot extruded aluminum wheel plate including brake calipers, adjustment gage, handle, threaded rod, and all of the necessary bolts, washers and T-nuts. The brake kit can be used to allow position locking of the wheel plate on 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™
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HDLS
HDCS
PDU2
DAPDU2
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PSD
SDM
DLS

Rotary Guide Systems

PRT2
DTS2
DTS
DTS+
ALR
HDRT
1-Trak
GFX

Robot Transfer Units

DualVee® RTU
LoPro® RTU

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Extruded Profile Guides
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