

Including MinVee® Miniature Slides



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



FRICTION MOTION

MOIST ENVIRONMENTS



FOOD GRADE



CLEAN ROOM



VACUUM

DESIGN AND BENEFITS

- Double row angular contact ball bearing arrangement for dynamic loading
- 90° dual vee design allows for natural wiping action and clearing of debris
- Eccentric wheels, bushings, & journals allow for fitting without the need of high cost precision machining for mounting holes
- Wheels & track are replaceable, making maintenance simple and easy
- Sealed, shielded, or seal/shield combination to protect against contamination such as dirt, dust, metal chips, wood chips, textile fiber, food, slurry, and deionized water
- Smooth, low friction motion
- Unlimited butt-joining of track for long travel lengths, speeds up to 5.5 m/s and acceleration up to 5 g's
- Temperature ranges from -94°F to +500°F, -70°C to +260°C
- Track can be mounted to a variety of base materials with no need for precision ground or machined surfaces
- **NEW** Lock nut options to maintain wheel-to-track fit-up in moderate vibration settings, such as vehicle mounting
- **NEW** Solid lubricant option for enhanced ingress protection and extended life

*DualVee® guide wheels are designed for use with matching vee guide track, but can also be used on other linear materials such as angle iron. DualVee® guide wheels are designed with 90° contact surfaces and feature

Example mounting and running surfaces

both an internal vee and an external vee.

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Need Help

Application + Design Assistance 925.439.8272

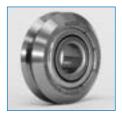
3D Modeling + CAD Drawing BWC.com

DUALVEE® GUIDE WHEELS

For Any Application



Carbon Steel



Stainless Steel



Stainless Steel **High Temperature**



Stainless Steel **Low Temperature**



Studded Wheel **Assemblies**



Stainless Steel Washdown Wheels



Stainless Steel Vacuum Wheel



Stainless Steel Food/Pharma Wheel



Stainless Steel **Solid Lubricant Wheel**



Polymer Studded Wheel Assemblies

WHEEL	PART NUMBER	APPLICATION	APPLICATION	AVAILABLE	PROTECTION	WHEEL	BALL RETAINER	GREASE	TEMPERATURE RANGE
VERSION	SCHEME	CONDITIONS	EXAMPLES	SIZES		MATERIAL	MATERIAL		(°F)
Original Guide	W_	General purpose	AutomationAutomotiveWoodworking	0, 1	Shield	52100 Steel	Nylon 6,6	Shell Alvania EP2	-31° to +248°
Wheels Carbon	W_X	• Factory floor conditions	PrintingPackagingPaper/textiles	0,1,2, 3, 4, 4XL	Seal/shield	52100 Steel	Nylon 6,6	Shell Alvania EP2	-22° to +212°
Original Guide	W SSX	Corrosive conditions	Medical Laboratory	1	Seal	440C	Nylon 6,6	Shell	-22° to +212°
Wheels Stainless	VV_55A	Corrosive conditions	• Food & beverage	2, 3, 4, 4XL	Seal/shield	Stainless	Nylon 6,6	Alvania EP2	-22 (0 +212
Studded Polymer Wheels	SWIP	Corrosive conditions Low noise require- ments	 Electronics Medical Laboratory	0,1, 2	Shield	Polymer (overmold) 440C Stainless	300 Stainless	Kluberplex BEM034-132	-4° to +248°
Vacuum Wheels	W_SSVAC	Vacuum environments	• Material science	1, 2	Shield	440C Stainless	304 Stainless	Lubcon Ultratherm 2000	-31° to +482°
Washdown Wheels	WDW_SSX	Washdown conditions Hygienic environments	Food processingFood packaging	2, 3	Double seal	440C Stainless	Nylon 6,6	Klubersynth UH1 14-151	-22° to +212°
Food/ Pharma Wheels	W_SSXH1	Washdown conditions Food equipment Pharma equipment	Food processingFood packagingPharmaceutical	2, 3	Seal/shield	440C Stainless	Nylon 6,6	Klubersynth UH1 14-151	-22° to +176°
NEW Solid Lubricant	W_SSXH1SL	Washdown conditionsWet / humid conditionsFood equipmentPharma equipment	Food processingFood packagingMedical device manufacturing	1, 2, 3, 4	Seal/shield	440C Stainless	304 Stainless Steel	H1 Food Grade Oil- Filled Polymer Matrix	-40° to +176° [-40° to +80°]
Extreme	W_SS227	High temp. conditions Corrosive conditions	Baking Welding Plasma cutters	0,1, 2, 3, 4	Shield	440C Stainless	304 Stainless	Krytox® GPL227	-22° to +500°
Temperature Wheels	W_SS300	Low temp. conditions Subzero conditions Corrosive conditions	AerospaceRefrigerationFlash freezing	0,1, 2, 3, 4	Shield	440C Stainless	304 Stainless	Kluber Isoflex PDL 300A	-94° to +230

Wheel hardness between 56 - 64 HRC Shield material is 300 series stainless steel Seal material is NBR

Seal/shield materials are 300 series stainless steel and NBR combination

Wheels can be assembled with user specified grease lubricants; call for more information Shell Alvania is owned by Royal Dutch Shell Ultratherm is owned by Lubcon

Kluberplex, Klubersynth, and Isoflex are owned by Kluber Lubrication Krytox® is owned by DuPont

ORIGINAL GUIDE WHEELS

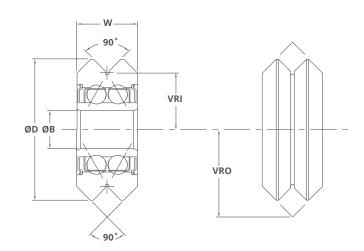
Product Features

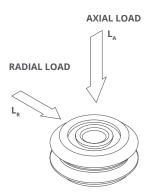
From factory automation projects to OEM designs, **DualVee Motion Technology**® components and assemblies provide the design flexibility for virtually any guided motion application. Based on the **DualVee**® guide wheel, this technology offers a level of reliability that is unmatched in the industry.

	DUALVEE WHEEL	OUTER DIAMETER	WIDTH	BORE DIAMETER	VEE RADIUS INSIDE	VEE RADIUS OUTSIDE	WEIGHT (g)	
	SIZE	D	w	В	VRI	VRO	(8)	_
	0	Ø0.584 [Ø14.83]	.250 [6.35]	Ø.1575+.0000/0003 [Ø4.000+.000/008]	.234 [5.94]	.359 [9.12]	5.1	 0E steel
IONS	1	Ø0.771 [Ø19.58]	.310 [7.87]	Ø.1875+.0000/0003 [Ø4.760+.000/008]	.313 [7.95]	.468 [11.89]	11.1	 INCLUDE Carbon st
DIMENSIONS	2	Ø1.210 [Ø30.73]	.438 [11.13]	Ø.3750+.0000/0003 [Ø9.530+.000/008]	.500 [12.70]	.719 [18.26]	39.0	TERIALS Ss steel
Q	3	Ø1.803 [Ø45.80]	.625 [15.88]	Ø.4724+.0000/0003 [Ø12.000+.000/008	.750 [19.05]	1.063 [27.00]	130.2	 MATE Stainless
	4	Ø2.360 [Ø59.94]	.750 [19.05]	Ø.5906+.0000/0003 [Ø15.001+.000/008]	1.000 [25.4]	1.375 [34.93]	276.0	_
	4XL	Ø2.968 [Ø75.39]	1.000 [25.4]	Ø.8661+.0000/0004 [Ø22.000+.000/008]	1.250 [31.75]	1.750 [44.45]	575.0	_

Values are in inches [millimeters]

	DUALVEE WHEEL			AXIAL CAPA	KING LOAD ACITY
	SIZE	N	lbf	N	lbf
TIES	0	650	146	123	28
LOAD CAPACITIES	1	1220	274	252	57
LOAD	2	2650	596	625	141
	3	5900	1326	1701	382
	4	9700	2181	4001	900
	4XL	14300	3215	6552	1473



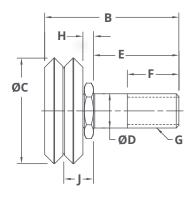


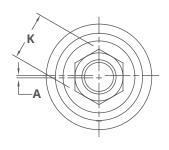
Working Load Capacities

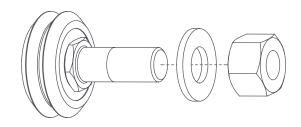
Working load capacities are based on empirical data on guide wheels used in general applications with static and dynamic load conditions. Guide wheels can routinely achieve travel life of one million cycles or higher when these specified load capacities are observed.

SWA SERIES

Studded Guide Wheels | Thru-Hole Style







imensio	ns										
SIZE	ADJUSTABILITY	ECCENTRIC OFFSET	OVERALL LENGTH	WHEEL DIAMETER	JOURNAL DIAMETER	JOURNAL LENGTH	THREAD LENGTH	THREAD	HEX THICKNESS	VEE HEIGHT	HEX SIZE
0.22	ASJOURNALITY	A	В	С	D¹	E	F	G	H²	J	К
	Concentric		0.74	Ø0.584	Ø.1566	.39	.24	M4 x 0.7	.080	.205	.433
0	Eccentric	.024 [.61]	[18.8]	[Ø14.83]	[Ø3.978]	[9.9]	[6.1]	IVI4 X 0.7	[2.03]	[5.2]	[11.0]
	Concentric		1.00	Ø.771	Ø.2352	.59	.35	M6 x1.0	.083	.238	.472
1	Eccentric	.024 [.61]	[25.4]	[Ø19.58]	[Ø5.974]	[15.0]	[8.9]	IVI6 X 1.0	[2.11]	[6.05]	[12.0]
	Concentric		1.54	Ø1.210 [Ø30.73]	Ø.3926	.98	.59	1440 4.5	.104	.323	.551
2	Eccentric	.038 [.97]	[39.1]		[Ø9.972]	[24.9]	[15.0]	M10 x 1.5	[2.64]	[8.2]	[14.0]
	Concentric		1.967	Ø1.803	Ø.4711	1.18	.71		.137	.450	.748
3	Eccentric	.060 [1.50]	[49.96]	[Ø45.80]	[Ø11.966]	[30.0]	[17.9]	M12 x 1.75	[3.48]	[11.4]	[19.0]
4	Concentric		2.477	Ø2.360	Ø.6284	1.58	.95	M16 2.0	.122	.497	.866
4	Eccentric	.060 [1.50]	[62.92]	[59.94]	[Ø15.961]	[40.1]	[24.1]	M16 x 2.0	[3.10]	[12.6]	[22.0]

Notes:

- 1. Tolerance for Journal Diameter (D) are: +.0000/-.0007 [+0/-0.017]
- 2. Tolerance for Hex Thickness (H) are: +/-.001 [+/-0.02]
- 3. Stud material is AISI 303 stainless steel.
- 4. Nut and washer material are 18-8 stainless steel.
- Total weight and load capacity are based upon the wheel version selected, see the Technical Data catalog for additional specifications.
- See the Technical Data catalog for additional wheel dimensions and specifications.

Part Number Scheme:

PREFIX	ADJUSTABILITY	SIZE	WHEEL VERSION
SWA	C (Concentric)	0	Blank
	E (Eccentric)	1	X
		2	SSX
		3	SSXH1
		4	SS227
			SS300
			SSVAC
			WD#SSX*

Part Number Example:

SWAE3SS227 = Studded Wheel Assembly, Eccentric, Size 3, Corrosion Resistant SS227 High Temperature Wheel Version

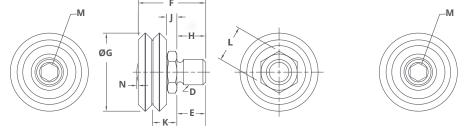
^{*}Washdown wheel version uses a different Part Number Scheme: SWA_WD#SSX. The underscore is for the adjustability variable.

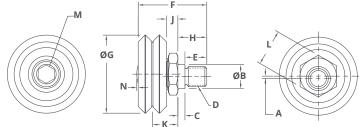
Polymer wheel versions are unavailable in the SWA series.

SWS SERIES

Studded Guide Wheels

Concentric





		'ic

Dim	ensions													
SIZE	ADJUSTABILITY	ECCENTRIC OFFSET	ECCENTRIC SHOULDER DIAMETER	ECCENTRIC SHOULDER LENGTH	THREAD		OVERALL LENGTH	WHEEL DIAMETER	JOURNAL LENGTH	HEX THICKNESS	VEE HEIGHT	HEX SIZE	OPTIONAL END HEX SIZE	MATERIAL PROTRUSION
		A	B¹	С	D¹	E	F	G	н	J ²	K	L	M³	N
0	Concentric				M6 x 1.0	.300 [7.62]	.667	Ø0.584	.300	.117	.242	.375		0.017
	Eccentric	.024 [.61]	Ø.219 [Ø5.56]	.085 [2.16]	M5 x 0.8	.215 [5.46]	[16.95]	[16.95] [Ø14.83]	[7.62]	[2.97]	[6.15]	[9.53]		[.43]
1	Concentric				M8 x 1.25	.319 [8.10]	.761	Ø.771	.319	.132	.287	.4375		0.025
	Eccentric	.024 [.61]	Ø.248 [Ø6.30]	.085 [2.16]	M6 x 1.0	.183 [5.94]	[19.33]	[Ø19.58]	[8.10]	[3.36]	[7.30]	[11.113]		[.64]
2	Concentric				M10 x 1.5	.448 [11.38]	1.046	Ø1.210	.448	.160	.379	.5625	.236	
2	Eccentric	.038 [.97]	Ø.375 [Ø9.53]	.110 [2.79]	M8 x 1.25	.338 [8.59]	[26.57]	[Ø30.73]	[11.38]	[4.07]	[9.63]	[14.288]	[6.0]	
	Concentric				M12 x 1.75	.595 [15.11]	1.444	Ø1.803	.595	.224	.537	.750	.315	
3	Eccentric	.059 [1.50]	Ø.422 [Ø10.72]	.170 [4.32]	M10 x 1.5	.425 [10.80]	[36.68]	[Ø45.80]	[15.11]	[5.69]	[13.63]	[19.05]	[8.0]	
4	Concentric				M14 x 2.0	.748 [19.00]	1.767	Ø2.360	.748	.269	.644	.875	.394	
4	Eccentric	.079 [2.01]	Ø.500 [Ø12.70	.177 [4.50]	M12 x 1.75	.571 [14.50]	[44.88]	[Ø59.94]	[19.00]	[6.83]	[16.36]	[22.23]	[10.0]	

Notes:

- 1. Tolerances for Eccentric Hex Diameter (B) are: +.002/-.000 [+.05/-.00]
- 2. Tolerance for Shoulder Thickness (J) are: +/-.001 [+/-0.02]
- 3. End hex provides easy external means for adjustment.
- 4. Stud material is AISI 303 stainless steel.
- 5. See the Technical Data catalog for recommended mounting geometry.
- Increased vibration resistance and anti-loosening locknuts are available for mounting eccentric SWS/SWI guide wheels. See the <u>Preload Retention Nuts</u> <u>datasheet</u> or contact Bishop-Wisecarver for specific application information.

Part Number Scheme:

PREFIX	ADJUSTABILITY	SIZE	WHEEL VERSION	OPTION END HEX	SUFFIX
SWS	C (Concentric)	0	Blank	Blank	А
	E (Eccentric)	1	X	Н	
		2	SSX		
		3	SSXH1		
		4	SS227		
			SS300		
			SSVAC		
			WD#SSX*		

Part Number Example:

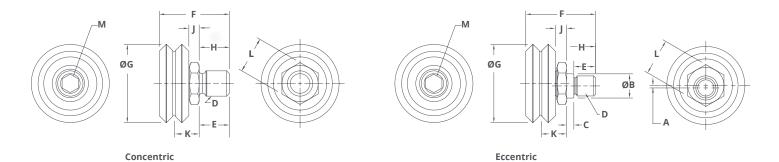
 ${\it SWSE2SS300HA=Studded\ Wheel\ Swaged,\ Eccentric,\ Size\ 1,\ Corrosion\ Resistant\ SS300\ Wheel\ Version,\ with\ Optional\ End\ Hex}$

^{*}Washdown wheel version uses a different Part Number Scheme: SWS_WD#SSXA. The underscore is for the adjustability variable.

Polymer wheel versions are unavailable in the SWS series.

SWI SERIES | POLYMER

Studded Guide Wheels



Dimer	nsions												
CIZE	ADJUSTABILITY	ECCENTRIC OFFSET	ECCENTRIC SHOULDER DIAMETER	ECCENTRIC SHOULDER LENGTH	THREAD	THREAD LENGTH	OVERALL LENGTH	WHEEL DIAMETER	JOURNAL LENGTH	HEX THICKNESS	VEE HEIGHT	HEX SIZE	END HEX SIZE
SIZE	ADJUSTABILITY	A	B¹	С	D	E	F	G	н	J	K²	L	M³
	Concentric				M6 x 1.0	.300 [7.62]	.667	Ø0.584	.300	.117	.242	.433	
0	Eccentric	.032 [.81]	Ø.219 [Ø5.56]	.085 [2.16]	M5 x 0.8	.215 [5.46]	[16.95]	[Ø14.83]	[7.62]	[2.97]	[6.15]	[11.0]	
	Concentric				M8 x 1.25	.319 [8.10]	.761	Ø.771	.319	.132	.287		
1	Eccentric	.033 [.84]	Ø.248 [Ø6.30]	.085 [2.16]	M6 x 1.0	.234 [5.94]	[19.33]	[Ø19.58]	[8.10]	[3.36]	[7.30]		
2	Concentric				M10 x 1.5	.448 [11.38]	1.046	Ø1.210	.448	.160	.379	.551	.158
2	Eccentric	.038 [.97]	Ø.375 [Ø9.53]	.109 [2.78]	M8 x 1.25	.338 [8.59]	[26.57]	[Ø30.73]	[11.38]	[4.07]	[9.63]	[14.0]	[4.0]

Notes

- 1. Tolerances for Eccentric Shoulder Diameter (B) are: +.002/-.000 [+.05/-.00]
- 2. Tolerance for Vee Height (K) are: +/-.004 [+/-.10]
- 3. End hex provides easy external means for adjustment.
- ${\bf 4.}\quad {\bf See\ the\ Technical\ Data\ catalog\ for\ recommended\ mounting\ geometry.}$
- Increased vibration resistance and anti-loosening locknuts are available for mounting eccentric SWS/SWI guide wheels. See the <u>Preload Retention Nuts</u> <u>datasheet</u> or contact Bishop-Wisecarver for specific application information.

Part Number Scheme:

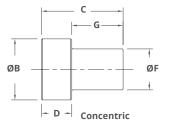
PREFIX	ADJUSTABILITY	SIZE	WHEEL VERSION
SWI	C (Concentric)	0	Р
	E (Eccentric)	1	
		2	

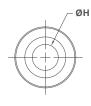
Part Number Example:

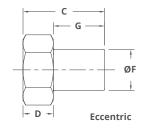
SWIE1P = Studded Wheel Integrated, Eccentric, Size 1, Polymer

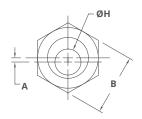
BUSHINGS | IMPERIAL

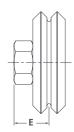
Mounting for Original Guide Wheels











Dimensions

SIZE	HEAD PROFILE	ADJUSTABILITY	ECCENTRIC OFFSET	HEAD SIZE	OVERALL HEIGHT	HEAD THICKNESS	MOUNTING SURFACE TO WHEEL VEE	WHEEL MOUNTING DIAMETER	WHEEL MOUNTING LENGTH	MOUNTING HOLE DIAMETER	RECOMMENDE MOUNTING HARDWARE
			A	В	С	D¹	E	F	G	н	SCREWS
	Ctaradara	Concentric		Ø.440 [Ø11.18]	.550	.250	.405			Ø.1406	#6
1	Standard	Eccentric	.012 [.30]	.438 [11.13]	[13.97]	[6.35]	[10.29]	Ø.1871 [Ø4.75]	.300 [7.62]	[Ø4.75]	#6
,	Low	Concentric		Ø.440 [Ø11.18]	.380	.080	.235	[04.73]	[7.02]	Ø.1570	M4
	LOW	Eccentric	.007 [.18]	.438 [11.13]	[9.65]	[2.03]	[5.97]			[Ø3.99]	1014
	Standard	Concentric		Ø.560 [Ø14.22]	.706	.281	.500			Ø.250 [Ø6.35]	
2	Standard	Eccentric	.024 [.61]	.562 [14.27]	[17.93]	[7.14]	[12.70]	Ø.3746	.425 [10.80]		1/4
-	Low	Concentric		Ø.560 [Ø14.22]	.525	.100	.319	[Ø9.51]			
	LOW	Eccentric	.024 [.61]	.562 [14.27]	[13.34]	[2.54]	[8.10]				
	Standard	Concentric		Ø.750 [Ø19.05]	[25.15] [9.	.375	.688				
3	Staridard	Eccentric	.042 [1.07]	.750 [19.05]		[9.53]	[17.48]	Ø.4720	.615	Ø.3125 [Ø7.94]	5/16
,	Low	Concentric		Ø.750 [Ø19.05]		.125	.438	[Ø11.99]	[15.62]		
	LOW	Eccentric	.042 [1.07]	.750 [19.05]	[18.80]	[3.18]	[11.13]				
	Standard	Concentric		Ø.880 [Ø22.35]	1.177	.437	.812				
4	Staridard	Eccentric	.060 [1.52]	.875 [22.23]	[29.90]	[11.10]	[20.62]	Ø.5902	.740	Ø.3750	3/8
•	Low	Concentric		Ø.880 [Ø22.35]	.865	.125	.500	[Ø14.99]	[18.80]	[Ø9.53]	370
	Low	Eccentric	.060 [1.52]	.875 [22.23]	[21.97]	[3.18]	[12.70]				
	Standard	Concentric		Ø1.250 [Ø31.75]	1.555	.565	1.065				
AYI	Staridard	Eccentric	.060 [1.52]	1.250 [31.75]	[39.50]	[14.35]	[27.05]	Ø.8657 [Ø21.99]	.990	Ø.5625] [Ø14.29]	9/16
4XL Low	Low	Concentric		Ø1.250 [Ø31.75]	1.178	.188	.688		[25.15]		
	Eccentric	.060 [1.52]	1.250 [31.75]	[29.92]	[4.78]	[17.48]					

Notes:

- 1. Tolerance for Head Thickness (D) is: +/-.001 [+/-.03]
- $2. \quad \hbox{Bushing material is AISI 303 stainless steel}.$
- See the Technical Data catalog for recommended mounting geometry.

Part Number Scheme for Standard Head Height

PREFIX	ADJUSTABILITY	SIZE	SUFFIX
В	Blank (Concentric)	1	SS
	X (Eccentric)	2	
		3	
		4	
		4XL	

Part Number Example:

BX3SS = Imperial Bushing, Standard Head Height, Eccentric, Size 3, Stainless Steel

Part Number Scheme for Low Head Height

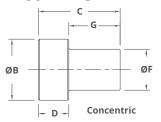
SIZE	SERIES	ADJUSTABILITY
1	PWB	C (Concentric)
2		X (Eccentric)
3		
4		
4XL		

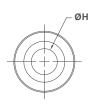
Part Number Example:

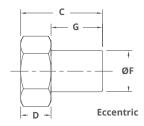
4XLPWBX = Size 4XL, Imperial Bushing, Low Head Height, Eccentric

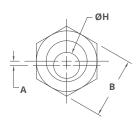
BUSHINGS | METRIC

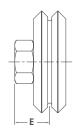
Mounting for Original Guide Wheels











Dimensions

SIZE	HEAD PROFILE	ADJUSTABILITY	ECCENTRIC OFFSET	HEAD SIZE	OVERALL HEIGHT	HEAD THICKNESS	MOUNTING SURFACE TO WHEEL VEE	WHEEL MOUNTING DIAMETER	WHEEL MOUNTING LENGTH	MOUNTING HOLE	RECOMMENDED MOUNTING HARDWARE
			A	В	С	D¹	E	F	G	н	SCREWS
	Standard	Concentric		Ø.440 [Ø11.18]	.545	.245	.400				
1	Staridard	Eccentric	.010 [.30]	.472 [11.99]	[13.84]	[6.22]	[10.16]	Ø.1871	.300	Ø.1570	M4
•	Low	Concentric		Ø.440 [Ø11.18]	.383	.083	.238	[Ø4.75]	[7.62]	[Ø3.99]	101-
	LOW	Eccentric	.007 [.18]	.472 [11.99]	[9.73]	[2.11]	[6.05]				
	Standard	Concentric		Ø.560 [Ø14.22]	.687	.262	.48				
2	Staridard	Eccentric	.024 [.61]	.551 [14.00]	[17.45]	[6.65]	[12.22]	Ø.3746 [Ø9.51]	.425	Ø.2362 [Ø6.00]	M6
-	Low	Concentric		Ø.560 [Ø14.22]	.529	.104	.323 [8.20]		[10.80]		····c
	LOVV	Eccentric	.024 [.61]	.551 [14.00]	[13.44]	[2.64]	[0.20]				
	Standard	Concentric		Ø.750 [Ø19.05]	.988	.373	.686				
3		Eccentric	.042 [1.07]	.748 [19.00]	[25.10]	[9.47]	[17.42]	Ø.4720 [Ø11.99]	.615	Ø.3150 [Ø8.00]	M8
	Low	Concentric		Ø.750 [Ø19.05]	.752	.137	.450		[15.62]		
	2011	Eccentric	.042 [1.07]	.748 [19.00]	[19.10]	[3.48]	[11.43]				
	Standard	Concentric		Ø.880 [Ø22.35]	1.177	.437	.812				
4		Eccentric	.060 [1.52]	.866 [22.00]	[29.90]	[11.10]	[20.62]	Ø.5902	.740	Ø.3937	M10
•	Low	Concentric		Ø.880 [Ø22.35]	.862	.122	.497	[Ø14.99]	[18.80]	[Ø10.00]	WITO
	LOVV	Eccentric	.060 [1.52]	.866 [22.00]	[21.89]	[3.10]	[12.62]				
	Standard	Concentric		Ø1.250 [Ø31.75]	1.555	.565	1.065				M14
4XL	Staridard	Eccentric	.060 [1.52]	1.18 [30.00]	[39.50]	[14.35]	[27.05]	Ø.8657	.990	Ø.5512 [Ø14.00]	
TAL	Low	Concentric		1.181 [Ø30.00]	1.191	.201	.701	[Ø21.99]	[25.15]		
	Low	Eccentric	.060 [1.52]	1.181 [30.33]	[30.25]	[5.11]	[17.81]				

- 1. Tolerance for Head Thickness (D) is: +/-.001 [+/-.03]
- 2. Bushing material is AISI 303 stainless steel.
- See the Technical Data catalog for recommended mounting geometry.

Part Number Scheme for Standard Head Height:

PREFIX	ADJUSTABILITY	SIZE	SUFFIX
MB	Blank (Concentric)	1	SS
	X (Eccentric)	2	
		3	
		4	
		4XL	

Part Number Example:

MBX4SS = Metric Bushing, Standard Head Height, Eccentric, Size 4, Stainless Steel

Part Number Scheme for Low Head Height:

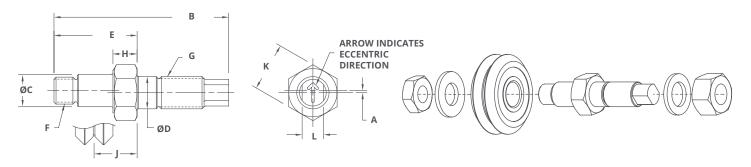
PREFIX	SIZE	SERIES	ADJUSTABILITY
М	1	PWB	C (Concentric)
	2		X (Eccentric)
	3		
	4		
	4XL		

Part Number Example:

M2PWBC = Metric Bushing, Size 2, Low Head Height, Concentric

JOURNALS

Mounting for Original Guide Wheels



Dime	nsions													
SIZE	ADJUSTABILITY	ECCENTRIC OFFSET	OVERALL LENGTH	WHEEL MOUNTING DIAMETER	JOURNAL MOUNTING DIAMETER	JOURNAL LENGTH	WHEEL MOUNT THREAD		HEX THICKNESS	VEE HEIGHT	HEX SIZE	WRENCH FLATS		NG PLATE (NESS
		A	В	С	D¹	E	F	G	н	J	K	L	MIN.	MAX
	Concentric		1.450	Ø.1571	Ø.250	.695] 8-32	1/4-28	.250 [6.35]	.375	.375	.125	.125	.375
0	Eccentric	.010 [.25]	[36.83]	[Ø3.99]	[Ø6.35]	[17.65]				[9.53]	[9.53]	[3.18]	[3.18]	[9.53]
	Concentric		1.540	Ø.1871	Ø.250	.785	10-32	1/4-28	.250	.405	.438	.125	.125	.375
1	Eccentric	.012 [.30]	[39.12]	[Ø4.752]	[Ø6.35]	[19.94]	10 32	17 1 20	[6.35]	[10.29]	[11.11]	[3.18]	[3.18]	[9.53]
	Concentric		2.173 Ø.3746 [55.19] [Ø9.515]	Ø.3746		1.109	5/16-24	2/0.04	.281	.500	.563	.250	.187	.500
2	Eccentric	.024 [.61]		[Ø9.515]		[28.17]	3/10-24	3/8-24	[7.14]	[12.70]	[14.29]	[6.35]	[4.75]	[12.70]
	Concentric		2.620	Ø.4720	Ø.437	1.375			.375 [9.53]	.688 [17.46]	.750 [19.05]	.250	.250	.625
3	Eccentric	.042 [1.07]	[66.55]	[Ø11.989]	[Ø11.10]	[34.93]	7/16-20	7/16-20				[6.35]	[6.35]	[15.88]
	Concentric		3.068	Ø.5904	Ø.500	1.565	4 /0 00		.437	.812 [20.62]	.875 [22.23]	.312 [7.92]	.375	.750 [19.05]
4	Eccentric	.060 [1.52]	[77.93]	[Ø14.996]	[Ø12.70]	[39.75]	1/2-20	1/2-20	[11.10]				[9.53]	
4XL	Concentric		4.070	Ø.8657	Ø.750	2.045	3/4-16	3/4-16	.565	.940	1.250	.437	.750	1.125
4XL	Eccentric	.060 [1.52]	[103.38]	[Ø21.989]	Ø.750 [Ø19.05]	[51.94]	3/4-16	3/4-16	[14.35]	[23.88]	[31.75]	[11.10]	[19.05]	[28.58]

Notes

- 1. Tolerance for Journal Mounting Diameter (D) are: +.000/-.002 [+00/-0.05]
- 2. Journal assemblies are suppled with mounting nuts and washers, without guide wheel.
- 3. Flat washers are stainless steel.
- 4. Journal material is AISI 303 stainless steel.
- 5. Nuts are Nylon locking zinc plated carbon steel.
- 6. Engraved arrow is on the eccentric version only.

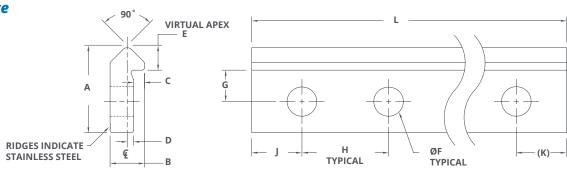
Part Number Scheme:

PREFIX	ADJUSTABILITY	SIZE	SUFFIX
MJ	C (Concentric)	0	А
	X (Eccentric)	1	
		2	
		3	
		4	
		4XL	

Part Number Example:

MJX2A = Journal, Eccentric, Size 2, Assembly

Single Edge



Dimensions

SIZE	OVERALL WIDTH	OVERALL HEIGHT	UNDERCUT DEPTH	UNDERCUT TO VEE	SHOULDER TO VEE APEX	HOLE DIAMETER	SHOULDER TO HOLE	HOLE SPACING	HOLE END SPACING 1	HOLE END SPACING 2	OVERALL LENGTH
	A	В	С	D	E	F	G¹	H²	J³	K⁴	L ⁵
1	.437 [11.10]	.187 [4.75]	.062 [1.57]	.031 [.79]	.125 [3.18]	Ø.156 [Ø3.96]	.156 [3.96]	2.000 [50.8]	.250 [6.35]	.250 [6.35]	
2	.625 [15.88]	.250 [6.35]	.094 [2.39]	.031 [.79]	187 [4.75]	Ø.203 [Ø5.16]	.219 [5.56]	3.000 [76.2]	.315 [8.00]	.315 [8.00]	Standard Versions
3	.875 [22.23]	.343 [8.71]	.109 [2.77]	.062 [1.57]	.250 [6.35]	Ø.281 [Ø7.14]	.313 [7.95]	3.000 [76.2]	.375 [9.53]	.375 [9.53]	or User Specified
4	1.062 [26.97]	.437 [11.10]	.125 [3.18]	.093 [2.36]	.312 [7.92]	Ø.344 [Ø8.74]	.375 [9.53]	4.000 [101.6]	.500 [12.7]	.500 [12.7]	

Notes:

- 1. Tolerance for Shoulder to Hole (G) is: +/-.005 [+/-0.13]
- Tolerance for Hole Spacing (H) are non-cumulative and is: +/-.005 [+/-0.13]
- Tolerance for Hole End Spacing 1 (J) is: +/-.005 [+/-0.13]
- 4. Hole End Spacing 2 (K) depends on the tolerances of dimensions J and L
- Tolerances for Overall Length (L) are: +/-.015 [+/-.38] with holes, and +/-.063 [+/-1.60] when cut to length without holes.
- Carbon steel track material is AISI 1045, available soft at HRc 22-25, or induction hardened 0.01" deep to HRc 53 minimum.
- Stainless steel track material is AISI 420, available soft at HRc 20-22, or induction hardened 0.01" deep to HRc 40 minimum. Call to discuss other material options.
- Track finish is polished and oiled for corrosion resistance.
- Maximum single piece track lengths are 20 feet hardened, or 22 feet soft.

Part Number Scheme:

PREFIX	HARDENED	SIZE	MATERIAL	LENGTH IN INCHES	NUMBER OF HOLES
Т	Blank	1	Blank	See Chart	See Chart
	S	2	SS		
		3			
		4			

Part Number Example:

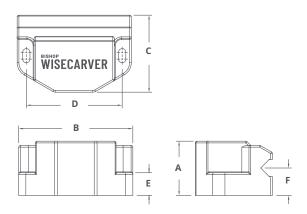
TS2SS606321 = Track, Soft, Size 2, Stainless Steel, 60.63 inches long, 21 holes *Track available by the foot uses a different Part Number Scheme: T_#-##. The underscore is for hard/soft, # for size, and ## for length in feet.

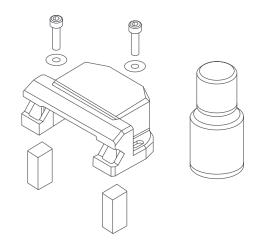
Dimensions

	STANDARD LENGTHS AND HOLES										
SIZE	LENGTH	# OF HOLES	SIZE	LENGTH	# OF HOLES	SIZE	LENGTH	# OF HOLES	SIZE	LENGTH	# OF HOLES
	12.50 [317.5]	7		12.63 [320.8]	5		12.75 [323.9]	5		13.00 [330.2]	4
	24.50 [622.3]	13		24.63 [625.6]	9		24.75 [628.7]	9		25.00 [635.0]	7
	36.50 [927.1]	19		36.63 [930.4]	13		36.75 [933.5]	13		37.00 [939.8]	10
1	48.50 [1231.9]	25	2	48.63 [1235.2]	17	3	48.75 [1238.3]	17	4	49.00 [1244.6]	13
	60.50 [1536.7]	31		60.63 [1540.0]	21		60.75 [1543.1]	21		61.00 [1549.4]	16
	72.50 [1841.5]	37		72.63 [1844.8]	25		72.75 [1847.9]	25		73.00 [1854.2]	19

WHEEL COVERS

SWA Series Studded Wheels & Bushings





Dimensions

Dimens	sions							I		
	MOUNTING COMPATIBILITY	OVERALL HEIGHT	OVERALL LENGTH	OVERALL WIDTH	SLOT SPAN	BASE THICKNESS	MOUNTING SURFACE TO TRACK VEE	MOUNTIN HARDWAI		
SIZE		A	В	С	D	E	F	SCREWS	WASHERS	
	Standard Profile Bushings	.950 [24.13]	2.000 [50.80]	1.350 [34.29]	1.680 [42.67]	.397 [10.08]	.480 [12.19]	M3 x 0.5 x 16 mm	142	
2	Low Profile Bushings SWA Series	.792 [20.12]	2.000 [50.80]	1.350 [34.29]	1.680 [42.67]	.239 [6.07]	.322 [8.18]	M3 x 0.5 x 12 mm	- M3	
	Standard Profile Bushings	1.340 [34.04]	2.670 [67.82]	1.975 [50.17]	2.340 [59.44]	.604 [15.34]	.690 [17.53]	M3 x 0.5 x 20 mm		
3	Low Profile Bushings SWA Series	1.104 [28.04]	2.670 [67.82]	1.975 [50.17]	2.340 [59.44]	.368 [9.35]	.454 [11.53]	M3 x 0.5 x 19 mm	M3	
	Standard Profile Bushings	1.580 [40.13]	3.500 [88.90]	2.500 [63.50]	3.070 [77.98]	.760 [19.30]	.813 [20.65]	M4 x 0.7 x 25 mm		
4	Low Profile Bushings SWA Series	1.265 [32.13]	3.500 [88.90]	2.500 [63.50]	3.070 [77.98]	.445 [11.30]	.498 [12.65]	M4 x 0.7 x 20 mm	M4	

Notes:

- 1. Wheel cover material is black ABS.
- 2. Lubricator felt material is white wool.
- 3. Lubricant is light weight synthetic oil.
- 4. Mounting hardware is stainless steel.

Part Number Scheme:

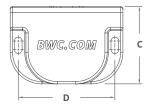
PREFIX	SIZE	VERSION	SUFFIX
WC	2	Blank	А
	3	LP	
	4		

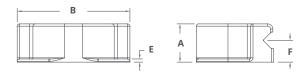
Part Number Example:

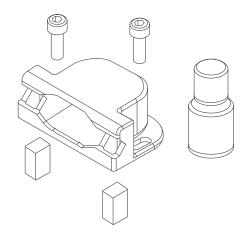
WC4LPA = Wheel Cover, Size 4, Low Profile, Assembly

WHEEL COVERS

SWS/SWI Series Studded Wheels & Bushings







Dimensions

	MOUNTING	OVERALL HEIGHT	OVERALL LENGTH	OVERALL WIDTH	SLOT SPAN	BASE THICKNESS	MOUNTING SURFACE TO TRACK VEE	MOUNTING HARDWARE
SIZE	COMPATIBILITY	А	В	c	D	E	F	SCREWS
1	SWS/SWI Series	.525 [13.34]	1.496 [38.00]	.960 [24.38]	1.250 [31.75]	.055 [1.40]	.287 [7.29]	M3 x 0.5 x 10 mm
2	SWS/SWI Series	.665 [16.89]	1.960 [49.78]	1.345 34.16]	1.680 [42.67]	.055 [1.40]	.379 [9.63]	M3 x 0.5 x 10 mm
3	SWS/SWI Series	.915 [23.24]	2.650 [67.31]	1.970 [50.04]	2.340 [59.44]	.055 [1.40]	.536 [16.61]	M3 x 0.5 x 10 mm
4	SWS/SWI Series	1.155 [29.34]	3.460 [87.88]	2.550 [64.77]	3.070 [77.80]	.055 [1.40]	.644 [16.36]	M4 x 0.7 x 12 mm

Notes:

- 1. Wheel cover material is black Nylon.
- 2. Lubricator felt material is white wool.
- 3. Lubricant is light weight synthetic oil.
- 4. Mounting hardware is stainless steel.

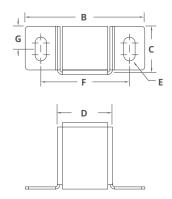
Part Number Scheme:

PREFIX	SIZE	VERSION	SUFFIX
WC	1	SWI	А
	2		
	3		
	4		

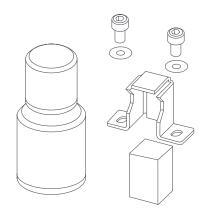
Part Number Example:

WC1SWIA = Wheel Cover, Size 1, Studded Wheels Integrated, Assembly

TRACK LUBRICATORS







imensio	ons		I		I	ı		I	I				I							
	MOUNTING	OVERALL HEIGHT								OVERALL LENGTH	OVERALL WIDTH		SLOT DIAMETER	SLOT SPAN	SLOT CENTER		G SURFACE ACK VEE		MOUNTING HARDWARE	
SIZE	COMPATIBILITY	A	В	С	D	E	F	G	MIN.	MAX.	SIZE	SCREWS	WASHERS							
0	Studded Wheels	360 [9.14]	.670 [17.02]	.300 [7.62]	.230 [5.84]	Ø.094 [Ø2.39]	.472 [11.99]	.115 [2.92]	.205 [5.21]	.242 [6.15]	0	M2 x 0.4 x 4 mm	M2							
	Bushings Standard Journals	.690 [17.53]	1.102 [27.99]	.450 [11.43]	.472 [11.99]	Ø.120 [Ø3.05]	.787 [19.99]	.180 [4.57]	.370 [9.40]	.500 [12.70]	1 M2 x 0 4 x	M2 x 0.4 x 5 mm	M2							
1 & 2	Bushings Low SWA Series	.533 [13.54]	1.102 [27.99]	.450 [11.43]	.472 [11.99]	Ø.120 [Ø3.05]	.787 [19.99]	.180 [4.57]	.213 [5.41]	.343 [8.71]	1	WIZ X U.4 X 5 HIIII								
	SWS Series	.580 [14.73]	1.126 [28.60]	.450 [11.43]	.472 [11.99]	Ø.120 [Ø3.05]	.799 [20.29]	.180 [4.57]	.270 [6.86]	.390 [9.91]	2	M3 x 0.5 x 6 mm	M3							
	Bushings Standard Journals	1.200 [30.48]	1.839 [46.71]	.740 [18.80]	.839 [21.31]	Ø.170 [Ø4.32]	1.339 [34.01]	.290 [7.37]	.638 [16.21]	.867 [22.02]	3	M3 x 0.5 x 6 mm	MO							
3 & 4	Bushings Low	.840	1.839	.740	.839	Ø.170	1.339	.290	.450	.520	3	INIS X 0.3 X 0 IIIIII	M3							
J 0.4	SWA Series	[21.34]	[46.71]	[18.80]	[21.31]	[Ø4.32]	[34.01]	[7.37]	[11.43]	[13.21]	4	M4 v 0 7 v 0 c								
	SWS Series	1.014 [25.76]	1.839 [46.71]	.740 [18.80]	.839 [21.31]	Ø.170 [Ø4.32	1.339 [34.01]	.290 [7.37]	.513 [13.03]	.681 [17.30]	4	4 M4 x 0.7 x 8 mm	M3							

Notes:

- 1. Felt holder material is AISI 300 stainless steel.
- 2. Lubricator felt material is white wool.
- 3. Lubricant is light weight synthetic oil.
- 4. Mounting hardware is stainless steel.

Part Number Scheme:

PREFIX	SIZE	VERSION	SUFFIX		
TL	1	Blank	А		
	2	LP			
	3	BWP			
	4				

Part Number Example:

TL1LPA = Track Lubricator, Size 1, Low Profile, Assembly

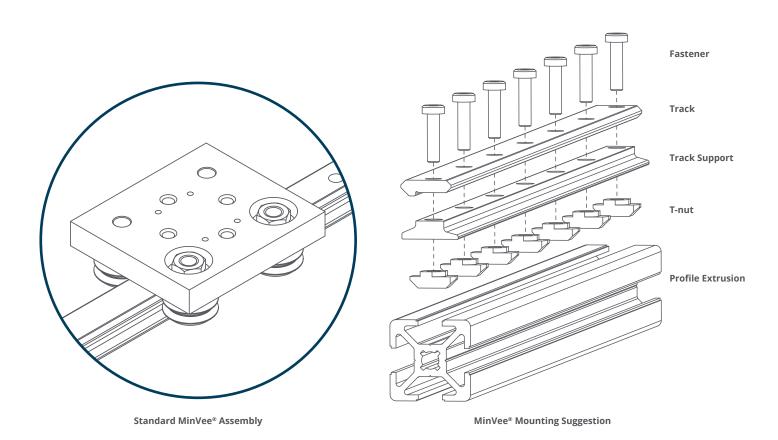
^{*}Size 0 uses a different Part Number Scheme: MV0TLA.

MINVEE® PRODUCT OVERVIEW

MinVee® linear slide systems from Bishop-Wisecarver Corporation are miniature guides consisting of a compact 1.75" wide by 2.00" long wheel plate with AISI 52100 carbon steel or polymer wheels and double vee-edge guide tracks.

When used with available 6063-T6 aluminum track support extrusion, assembled height is 0.788". *MinVee*® double edge track is available in AISI 1045 carbon steel in six standard lengths up to 36.5" with mounting holes predrilled. Axial working capacities are 121.4 lbf for steel wheels and 15 lbf for polymer wheel versions.

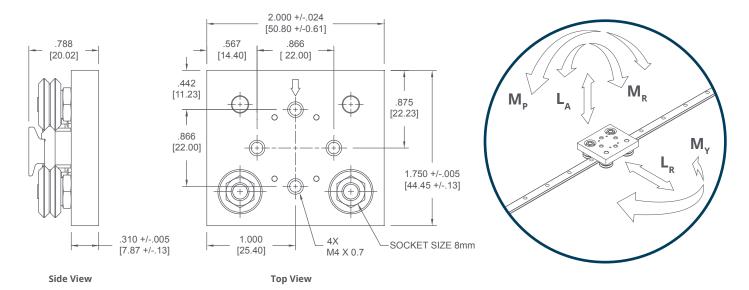
MinVee® is ideal for use in semiconductor, laboratory, and medical applications with compact space requirements.



MINVEE®

Wheel Plates

- 6061-T6 clear anodized aluminum wheel plate with stainless steel lubricator housing and felt lubrication pads.
- Two (2) concentric and two (2) eccentric DualVee® studded wheels.
- · Carbon steel, stainless steel, or polymer over-molded stainless steel bearings
- Optional vibration-resistant lock nuts **NEW**



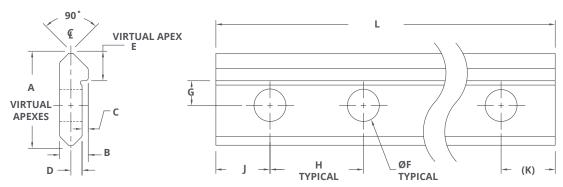
Dimensions										
STOCK CODE*	WHEEL VERSION	TEMPERATURE RANGE	MAXIMUM SPEED	MAXIMUM ACCELERATION	PITCH MOMENT (M _P)	YAW MOMENT (M _y)	ROLL MOMENT (M _R)	WORKING AXIAL LOAD CAPACITY (L _A)	WORKING RADIAL LOAD CAPACITY (L _R)	WEIGHT IN GRAMS (g)
MV0WPAP	Polymer Overmolded AISI 440C Stainless Steel, Shielded	-4°F to 248°F [-20°C to 120°C]	1m/s	3 g [29 m/s²]	1.4 Nm [12.4 lbf-in]	4.5 Nm [39.8 lbf-in]	1 Nm [8.8 lbf-in]	66.7 N [15 lbf]	65 N [14.6 lbf]	72
MV0WPA	AISI 52100 Carbon Steel, Shielded	-31°F to 248°F [-35°C to 120°C]		5g [49 m/s²]	7.9 Nm [69.9 lbf-in]	8.6 Nm [76.1 lbf-in]	6.2 Nm [54.9 lbf-in]	540 N [121.4 lbf]	490 N [110.2 lbf]	84
MV0WPAX	AISI 52100 Carbon Steel, Sealed	-22°F to 212°F [-30°C to 100°C]	5m/s							
MV0WPA-SS227	AISI 440C Stainless Steel, High Temperature, Shielded	-22°F to 500°F [-30°C to 260°C]			6.5 Nm [57.4 lbf-in]	7.1 Nm [63.2 lbf-in]	5.1 Nm [45.1 lbf-in]	444 N [99.8 lbf]	408 N [91.7 lbf]	

Wheel plate assemblies are made from clear anodized 6061-T6 aluminum and include stainless steel lubricator housings with felt track wipers Working load capacities are based on 100 km service life (62.1 miles at 23°C or 73°F and 50% humidity)

^{*} For vibration-resistant lock nut option, replace "WPA" with "WPLA" in stock code. Prevailing torque lock nuts are 304 stainless steel, resistant to high/low temp. and chemicals.

MINVEE® TRACK

Double Edge



Dime	nsions										
	OVERALL WIDTH	OVERALL HEIGHT	UNDERCUT DEPTH	UNDERCUT TO VEE	SHOULDER TO VEE APEX	HOLE DIAMETER	SHOULDER TO HOLE	HOLE SPACING	HOLE END SPACING 1	HOLE END SPACING 2	OVERALL LENGTH
SIZE	A	В	С	D	E	F	G¹	H²	J³	K⁴	L⁵
	.516	.153	.033	.060	.158	Ø.156	.138	2.000	.250	.250	Standard Versions

STANDARD LENTHS AND HOLES								
SIZE	LENGTH	# OF HOLES						
	6.50 [165.1]	4						
	12.50 [317.5]	7						
	18.50 [469.9]	10						
0	24.50 [622.3]	13						
	30.50 [774.7]	16						
	36.50 [927.1]	19						

Notes:

- 1. Tolerance for Shoulder to Hole (G) is: +/-.005 [+/-0.13]
- 2. Tolerance for Hole Spacing (H) are non-cumulative and is: +/-.005 [+/-0.13]
- 3. Tolerance for Hole End Spacing 1 (J) is: \pm -.005 [\pm -0.13]
- 4. Hole End Spacing 2 (K) depends on the tolerances of dimensions J and L
- 5. Tolerances for Overall Length (L) are: +/-.015 [+/-.38] with holes, and +/-.063 [+/-1.60] when cut to length without holes.
- Track material is AISI 1045 carbon steel, available soft at HRc 22-25, or induction hardened 0.01" deep to HRc 53 minimum.
- 7. Track finish is polished and oiled for corrosion resistance.
- 8. Maximum single piece track lengths are 20 feet hardened, or 22 feet soft.

Part N	lumber Sche	me:							
PREFIX	FIX HARDENED SIZE		VERSION	LENGTH IN INCHES	NUMBER OF HOLES				
TD	Blank	0	-	See Chart	See Chart				
	S								

Part Number Example:

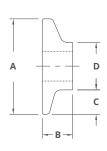
TDS0-245013 = Track Double Edge, Soft, Size 0, 25.50 inches long, 13 holes

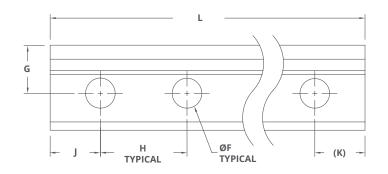
*Track available by the foot uses a different Part Number Scheme: TD_0-##.

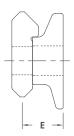
The underscore is for hard/soft, and ## for length in feet.

MINVEE® TRACK SUPPORT

Double Edge







Dime	nsions										
SIZE	OVERALL WIDTH	OVERALL HEIGHT	SURFACE TO EDGE	SURFACE WIDTH	VEE HEIGHT	HOLE DIAMETER	SHOULDER TO HOLE	HOLE SPACING	HOLE END SPACING 1	HOLE END SPACING 2	OVERALL LENGTH
	A	В	С	D	E	F	G¹	H²	J³	K⁴	L ⁵
	.551	.176	.141	.274	.236	Ø.172	.273	2.000	.250	.250	Standard Versions

STANDARD LENGTHS AND HOLES								
SIZE	LENGTH	# OF HOLES						
	6.50 [165.1]	4						
	12.50 [317.5]	7						
	18.50 [469.9]	10						
0	24.50 [622.3]	13						
	30.50 [774.7]	16						
	36.50 [927.1]	19						

Notes:

- 1. Tolerance for Shoulder to Hole (G) is: +/-.005 [+/-0.13]
- 2. Tolerance for Hole Spacing (H) are non-cumulative and is: +/-.005 [+/-0.13]
- 3. Tolerance for Hole End Spacing 1 (J) is: +/-.005 [+/-0.13]
- 4. Hole End Spacing 2 (K) depends on the tolerances of dimensions J and L
- 5. Tolerances for Overall Length (L) is: +/-.063 [+/-1.60]
- 6. Track support material is 6063-T6 aluminum with anodized finish.
- 7. Track support holes and cut to length ends are unfinished bare aluminum.
- 8. Maximum single piece track length is 10 feet.

Part Nu	mber Schen	ne:				
PREFIX	SIZE	DESCRIPTION DASH		LENGTH IN INCHES	DASH	NUMBER OF HOLES
MV	0	TS	-	See Chart	-	See Chart

Part Number Example:

MV0TS-1850-10 = Track Support, Size 0, 18.50 inches long, 10 holes

*Track support available by the foot uses a different Part Number Scheme: MV0TS-##. The ## is for length in feet.



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

BWC.COM

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LoPro®
XLA™
ECO60™
SlickStick™
SteadyRail™
HDLS
HDCS
PDU2
DAPDU2
SBD
PSD

Rotary Guide Systems

PRT2
DTS2
DTS
DTS+
ALR
HDRT
1-Trak
GFX

SDM

DLS

Robot Transfer Units

DualVee® RTU LoPro® RTU

Custom Solutions

Extruded Profile Guides Custom Bearings Custom Subassemblies Engineering Services

Large Diameter Ring Guides and Track

Women's Business Enterprise



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Contact

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Corporate Office

Bishop-Wisecarver 2104 Martin Way Pittsburg, CA 94565

Quality Certifications





- Certified Bay Area Green Business
- Certified Evergreen

Certifications & Compliance

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