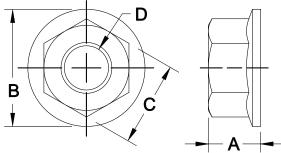


## **DUALVEE® FLANGE NUTS**

Flange nuts are general purpose fastening hardware that is ideal for use where compact assembly heights are required. These thin height flange nuts are compatible with DualVee® SWS and SWI series eccentric studded wheels and are recommended for most applications. Physical dimensions are defined by DIN 6923. Assemble using metric socket wrench and tighten to the recommended fastening torque. Made from carbon steel with Zinc plating.

- Use to attach DualVee SWS and SWI series eccentric guide wheels
- Metal flange nut is steel with Zinc plating
- Low profile for compact space requirements
- · Assemble using metric socket wrench
- Always tighten to the recommended fastening torque



Dimen.	sions								
SIZE	STOCK CODE	MATERIAL	OVERALL HEIGHT	OVERALL DIAMETER	HEX	THREAD	RECOMMENDED ASSEMBLY TORQUE		
			A	В	С	D			
0	NUTHXFLM5	Carbon Steel	.197 [5.00]	Ø.465 [11.80]	8 mm	M5 X 0.8	6 lb-ft [8 N-m]		
1	NUTHXFLM6	Carbon Steel	.236 [6.00]	Ø.559 [14.20]	10 mm	M6 X 1.0	8 lb-ft [11 N-m]		
2	NUTHXFLM8	Carbon Steel	.315 [8.00]	Ø.705 [17.90]	13 mm	M8 X 1.25	19 lb-ft [25 N-m]		
3	NUTHXFLM10	Carbon Steel	.394 [10.00]	Ø.858 [21.80]	15 mm	M10 X 1.5	30 lb-ft [41 N-m]		
4	NUTHXFLM12	Carbon Steel	.472 [12.00]	Ø1.024 [26.00]	18 mm	M12 X 1.75	45 lb-ft [61 N-m]		

### Notes:

- 1. Material is carbon steel with Zinc plating.
- 2. RoHS compliant.

Part I	lumber Scheme:	

PREFIX	TYPE	STYLE	SIZE	MATERIAL / FINISH
NUT	HX	Blank	M#	Blank
	PT	FL		SS
				CH

### **Part Number Example:**

NUTXHFLM8 = Nut, Hex, Flanged, M8 NUTPTM10SS = Nut, Prevailing Torque, M10, Stainless Steel

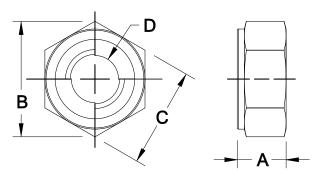
## Notes:

1. Fewer than every combination is available.

# **DUALVEE® PREVAILING TORQUE LOCK NUTS**

Prevailing torque lock nuts feature a stainless steel friction ring that makes contact with the threads on studded guide wheels to prevent loosening. These thin height lock nuts are compatible with SWS and SWI series eccentric studded wheels and are recommended for use on applications where additional eccentric preload retention is desired. The all-metal design is reusable and able to withstand high and low temperature environments and can be used where exposure to chemicals is expected. Available in either 1018 carbon steel with chromate finish, or in 304 stainless steel for enhanced corrosion resistance. Both material versions are RoHS compliant.

- Use to attach DualVee SWS and SWI series eccentric guide wheels
- All-metal prevailing torque lock nuts are reusable
- Resistance to heat, cold and chemicals
- · Vibration resistant for anti-loosening performance
- Assemble using metric socket wrench



Dimen	sions						
SIZE	STOCK CODE	STOCK CODE MATERIAL		OVERALL WIDTH	HEX	THREAD	RECOMMENDED
			A	В	С	D	ASSEMBLY TORQUE
0 -	<i><b>NUTPTM5CH</b></i>	1018 Carbon Steel	0.1811	0.3622	8 mm	M5 X 0.8	6 lb-ft
0	NUTPTM5SS	304 Stainless Steel	[4.60] [9.20]	[9.20]	8 mm	IVIS A U.8	[8 N-m]
1	<i><b>NUTPTM6CH</b></i>	1018 Carbon Steel	0.2088 [5.10]	0.4528	10 mm	M6 X 1.0	8 lb-ft [11 N-m]
,	NUTPTM6SS	304 Stainless Steel		[11.50]	10 111111		
2	<i><b>NUTPTM8CH</b></i>	1018 Carbon Steel	0.2874	0.5905	13 mm	M8 X 1.25	19 lb-ft [25 N-m]
2	NUTPTM8SS	304 Stainless Steel	[7.30]	[15.00]	13 111111	IVI8 X 1.25	
3 -	NUTPTM10CH	1018 Carbon Steel	0.3268	0.7717		M10 X 1.5	30 lb-ft [41 N-m]
3	NUTPTM10SS	304 Stainless Steel	[8.30]	[19.60]	17 mm		
4	NUTPTM12CH	1018 Carbon Steel	0.4134	0.8622	19 mm	M12 V 1 7F	45 lb-ft
4	NUTPTM12SS	304 Stainless Steel	[10.50]	[21.90]	HIIII	M12 X 1.75	[61 N-m]

### Notes:

- 1. Material of steel version is 1018 carbon steel with chromate finish.
- 2. Material of stainless steel version is 304 stainless steel.
- RoHS compliant.

**Contact** 



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# **UTILITRAK® WHEEL PLATE ASSEMBLIES WITH LOCK NUTS**

The UtiliTrak® SW Series, PW Series, and VC Series wheel plates contain flange nuts on the eccentric wheel as standard and are suited for most applications and conditions due to their higher overall strength characteristics. Optional prevailing torque lock nuts are available for use in more challenging conditions where additional eccentric preload retention is needed. The all metal lock nuts are vibration resistant and will not fall off the threaded stud when loosened. Available as a complete assembly with lock nuts pre-installed.



Vee Wheels & Crown Wheels

## PW, VC, and SW Series Wheel Plate Assemblies

- · Compatible with all wheel plate sizes and versions
- Size 0, 1, 2, and 3
- 3-wheel, 4-wheel and 5-wheel versions
- · Vee wheels, crown wheels, vee/crown wheels
- Not available for CR Series wheel plate assemblies

## **Key Features**

- · Additional friction retains preload adjustment
- Vibration resistant for anti-loosening performance
- All metal lock nuts made from 304 stainless steel
- · Resistant to heat, cold and chemicals



Vee/Crown Wheels



**Polymer Wheels** 

Part Number Scheme:								
PREFIX	SERIES	SIZE	WHEELS	ASSEMBLY	PROTECTION	PROFILE	# OF WHEELS	
UT	Blank	0	Blank	Blank	Blank	Blank	Blank	
	VC	1	X	WPA	X	R	4	
	CCA	2	SS	WPLA	Р	S	4A	
		3	SSX				5	
			227				5A	
			SS227					
			SS300					

## Part Number Example:

UT1WPLAXR-5A = SW Series, Size 1, Carbon Steel, Lock Nuts, Sealed, Crown Roller, 5 Wheels UTVC3XWPLA4 = VC Series, Size 3, Carbon Steel, Lock Nuts, Sealed, 90-Degree, 4 Wheels

### Notes:

- WPLA specifies assembly with lock nut option.
- 2. Fewer than every combination is available.
- 3. Lock nut option is not available for the CR Series wheel plate assemblies because a thinner jam nut is used.

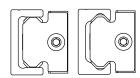


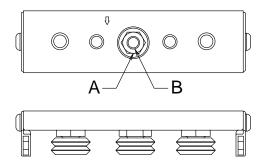
UtiliTrak Wheel Plate
With Prevailing Torque
Lock Nut

# **UTILITRAK® WHEEL PLATE ASSEMBLIES**

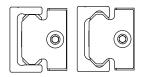
The hex feature of the lock nut option is larger than the standard flange nut on the size 3 versions and requires a larger socket wrench to assemble and adjust the eccentric wheel offset. The wheel plate counter bore diameters on older wheel plates are too small to accept the size 3 socket wrench and are therefore not backwards compatible with lock nut upgrades. New revision wheel plates are recommended.

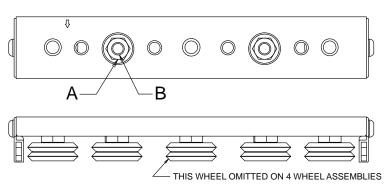
## Wheel Plates with 3 Guide Wheels





## Wheel Plates with 4 or 5 Guide Wheels





Dimens	ions					
SIZE	ECCENTRIC NUT	MATERIAL	NUT HEX	NUT THREAD	RECOMMENDED	
			A	В	ASSEMBLY TORQUE	
0	Flange Nut	Carbon Steel with Chromate Finish	8 mm	MEVOO	6 lb-ft	
	Lock Nut	304 Stainless Steel		M5 X 0.8	[8 N-m]	
	Flange Nut	Carbon Steel with Chromate Finish	40	MCV10	8 lb-ft	
'	Lock Nut	304 Stainless Steel	10 mm	M6 X 1.0	[11 N-m]	
2	Flange Nut	Carbon Steel with Chromate Finish		M0 V 1 25	19 lb-ft	
2	Lock Nut	304 Stainless Steel	13 mm	M8 X 1.25	[25 N-m]	
,	Flange Nut	Carbon Steel with Chromate Finish	15 mm	M10 V 1 F	30 lb-ft	
3	Lock Nut	304 Stainless Steel	17 mm	M10 X 1.5	[41 N-m]	

### Notes:

1. All nuts are RoHS compliant.

**Contact** 



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# LOPRO® BASIC WHEEL PLATE ASSEMBLIES WITH LOCK NUTS

The LoPro linear actuator product line includes complete actuator assemblies and sub-assemblies. Wheel plates contain flange nuts on the eccentric guide wheels as standard and are suited for most applications and conditions due to their higher overall strength characteristics. Optional prevailing torque lock nuts are available for use in more challenging conditions where additional eccentric preload retention is needed. The all metal lock nuts are vibration resistant and will not fall off the threaded stud when loosened. Available as a wheel plate assembly with lock nuts pre-installed on an actuator.



LoPro Basic Wheel Plate
Assembly

## **Assemblies with Lock Nuts**

- · Compatible with the basic wheel plate versions
- · All actuator sizes including 1, 2, 3 and 4
- Belt, chain, lead screw and ball screw drive versions
- · All wheel versions including polymer, steel and stainless
- Not available for the wiper wheel plate assemblies

# E.

LoPro Actuator with Basic Wheel Plate

## **Key Features**

- Additional friction retains preload adjustment
- Vibration resistant for anti-loosening performance
- All metal lock nuts made from 304 stainless steel
- · Resistant to heat, cold and chemicals
- Reusable for repeated eccentric adjustment



LoPro Undriven With Prevailing Torque Lock Nuts

Part Number Scheme:										
PREFIX	DRIVE	SIZE	MATERIAL	CARRIAGE	WHEEL	OPTION	DRIVE	BEAM	VERSION	TRAVEL
LP	В	1Z	С	W	С	Z	А, В, С	U	А	0.1mm Increments
	С	2Z	S	С	S	R	D, E, F	А	В	
	L	25		D	Н	L	G, L, R	S		
	S	2L		L	L	Υ		D		
	U	3Z		M	W					
		4Z			V					

### **Part Number Example:**

LPB3ZSMHZLAB 250.0 = Actuator, Belt Drive, Size 3, Stainless, Basic Wheel Plate w/ Lubricators and Lock Nuts, Stainless SS227 Wheels, No Sensor Flags, Left Hand Output Shaft, Aluminum Beam, Version B, 250.0mm Travel Length

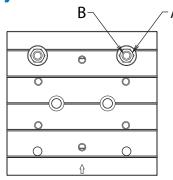
### Notes

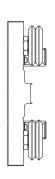
- 1. Carriage type D is for basic wheel plate w/ wheel covers and lock nuts.
- 2. Carriage type M is for basic wheel plate w/ lubricators and lock nuts.
- 2. Fewer than every combination is available.
- 3. Lock nut option is not available for wiper wheel plate versions.

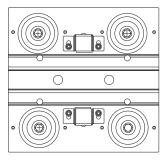
# LOPRO® WHEEL PLATE ASSEMBLIES

The hex feature of the lock nut option is larger than the standard flange nut on the size 3 versions and requires a larger socket wrench to assemble and adjust the eccentric wheel offset. The wheel plate counter bore diameters on older wheel plates are too small to accept the size 3 socket wrench and are therefore not backwards compatible with lock nut upgrades. New revision wheel plates are recommended.

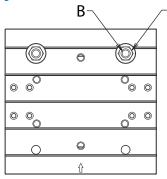
## Wheel Plates for Belt/Chain Drive

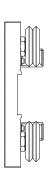


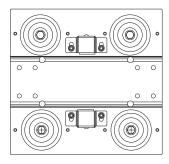




## Wheel Plates for Lead Screw/Ball Screw Drive







## **Dimensions**

SIZE	ECCENTRIC NUT	MATERIAL	NUT HEX	NUT THREAD	RECOMMENDED	
0.22		marana.	A	В	ASSEMBLY TORQUE	
	Flange Nut	Carbon Steel with Chromate Finish	10	M6 X 1.0	8 lb-ft	
1	Lock Nut	304 Stainless Steel	10 mm	IVIO A 1.0	[11 N-m]	
	Flange Nut	Carbon Steel with Chromate Finish	42	M8 X 1.25	19 lb-ft	
2	Lock Nut	304 Stainless Steel	13 mm		[25 N-m]	
	Flange Nut	Carbon Steel with Chromate Finish	15 mm	M410 V 1 F	30 lb-ft	
3	Lock Nut	304 Stainless Steel	17 mm	M10 X 1.5	[41 N-m]	
4	Flange Nut	Carbon Steel with Chromate Finish	18 mm	M12 V 1 7E	45 lb-ft	
4	Lock Nut	Lock Nut 304 Stainless Steel		M12 X 1.75	[61 N-m]	

## Part Number Example:

 $BWP3XSWSTLBCL = Basic\ Wheel\ Plate,\ W3X\ Carbon\ Steel\ Wheels,\ SWS\ Series\ Studs,\ Track\ Lubricators,\ Belt/Chain,\ w/\ Lock\ Nuts$ 

### Notes

- 1. All nuts are RoHS compliant.
- 2. All part numbers for wheel plate versions with lock nuts have an "L" character at the end.



Contact

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# MINVEE® WHEEL PLATE ASSEMBLIES WITH LOCK NUTS

The MinVee® wheel plate assemblies contain flange nuts on the concentric and eccentric guide wheels as standard and are suited for most applications and conditions due to their higher overall strength characteristics. Optional prevailing torque lock nuts are available for use in more challenging conditions where additional eccentric preload retention is needed. The all metal lock nuts are vibration resistant and will not fall off the threaded stud when loosened. Available as a complete assembly with lock nuts pre-installed.

## **Key Features**

- Additional friction retains preload adjustment
- · Vibration resistant for anti-loosening performance
- All metal lock nuts made from 304 stainless steel
- Resistant to heat, cold and chemicals
- Reusable for repeated eccentric adjustment
- · Assemble and adjust using metric socket wrench



MinVee Wheel Plate
On Double Edge Track

Dimensions						
SIZE ECCENTRIC NUT		MATERIAL	NUT HEX NUT THREAD		RECOMMENDED ASSEMBLY TORQUE	
	Flange Nut	Carbon Steel with Chromate Finish	9 mm	M5 X 0.8	6 lb-ft	
0	Lock Nut	304 Stainless Steel	8 mm	IVI5 X U.8	[8 N-m]	

### Notes:

<sup>1.</sup> All nuts are RoHS compliant.

Part Nui	Part Number Scheme:							
PREFIX	SIZE	ASSEMBLY	WHEELS & PROTECTION					
MV	0	WPA	Blank (Carbon, Shielded)					
		WPLA	X (Carbon, Sealed)					
			P (Polymer)					
			SS227 (Stainless)					

### **Part Number Example:**

MV0WPAX = MinVee, Size 0, Flange Nuts, Carbon Steel, Sealed MV0WPLA-SS227 = MinVee, Size 0, Lock Nuts, Stainless Steel SS227 Wheels

## Notes:

1. WPLA specifies assembly with lock nut option.



MinVee Wheel Plate With Prevailing Torque Lock Nuts **Contact** 

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