HRYES **BENCHMARKING BLACKBOOK** HRYES **su**nringlé HAYES www.HAYESCOMPONENTS.com





- All-weather performance born of extensive cold temperature testing (-15°C/0°F and colder)
- 34mm stanchion provide class leading stiffness
- Travel up to 150mm
- Tire Clearance up to
 26 x 5.15in and 27.5 x 4.5in
- Fits all 26 and 27.5in tires currently available including Vee Rubber Snowshoe XXL
- Pro and Comp levels available

HRYES





Mastodon Fit Class Leading

Building off the success of the Mattoc, Manitou has taken the same platform and stretched it to accommodate 5 inch tires. Available in up to 150mm of travel.

At Hayes, we know cold. Borrowing from our heritage in snowmobile racing, we know the seals and fluids to keep your suspension working in the coldest of climates. Just because its freezing out, doesn't mean your fork should freeze out.













- •Up to 150mm of travel
- •Two ride height configurations
- Standard- Direct replacement for competition
- EXT- Extended ride height to accommodate the largest tires available (26inx5in, 27.5inx4.5in, etc.)

	Ride Height (mm)								
	Competition	Mast	odon	Mastod	on EXT				
Travel		Pro	Comp	Pro	Comp				
(mm)		PIU	Comp	FIU	Collip				
80	491	492	492	513	513				
100	511	511	511	531	530				
120	531	531	530	551	550				
140	-	551	551	571	571				
150	-	561	_	581	-				

Mastodon Fit Largest Range

Mastodon has the largest range of travel for the fat tire market. With two models to choose from, 26in and 27.5in, travel ranges from 80mm to 150mm.













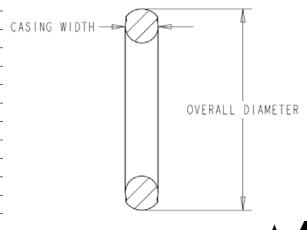
Allowable Tire Sizes Per Fork									
Max	Max	Max							
Overall	Overall	Overall							
Diameter	Diameter	Diameter							
764	756	796							
Max Casing Width5	Max Casing Width5	Max Casing Width6							
127	131	131							

Brand	Tire	Size	Competition	Mastodon Std	Mastodon EXT	Max. Overall Diameter	Max Casing Width
45NRTH	Dillinger 4	26X4	Х	Х	x	745	106
	Dillinger 5	26X4	Х		X	759	102
	Dunderbeist	26X4.6	Х		X	760	116
	Flowbeist	26X4.6	Х		Х	760	115
	Husker Du	26X4	Х	Х	Х	728	105
	Vanhelga	26X4	Х	х	х	744	108
Bontrager	Barbegazi2	27.5X4.5			Х	791	116
Kenda	Juggernaut2	26X4.5			Х	778	117
Maxxis	Minion FBF3	27.5X3.8	Х	х	Х	755	97.5
	Big Fat Larry	26X4.7	Х	х	Х	756.5	118
	Black Floyd	26X3.8	Х		Х	735.5	111
	Bud	26X4.8		х	Х	775.5	125
	Endomorph	26X3.7		х	Х	736	106
Surly	Knard 3.8	26X3.8			Х	742	107
,	Knard 4.8	26X4.8		х	Х	771.5	126
	Larry	26X3.8	Х		х	745	111
	Lou	26X4.7		х	Х	778	124
	Nate	26X3.8	Х	х	Х	745	112
Schwalbe	Jumbo Jim	26x4.8			Х		
VeeRubber	Snowshoe 2XL4	26X5.05		Х	х	791	116

Mastodon Fit Fits All Tire Sizes

Designed to take on the entirety of fat tires available, Mastodon comfortably accepts 26in x 5.15in or 27.5in x 4.5in as well as a 29in x 3in width.

TIRE CROSS-SECTION

















Mastodon Pro Spec Technology Derived from Mattoc Pro

							WHEELSIZE x MAX TIRE SIZE				
							St	andard	EX	KT	
								Crown		Crown	
Chassis	Spring	Compression Damping	Rebound Damping	Standard Colors	Options	Offset	Travel	to Axle	Travel	to Axle	Weight
1.5T Alloy Steerer, Deep Bore Hollow Crown, 34mm Tapered 7050 Black Alloy Stanchions, Post Mount for 180mm Rotor, Hexlock SL 150mm Axle		New System Derived from MC2:	Externally Adjustable	Matte	1 1/8 Steerer, Custom		100	511	100	531	2210g
	Dorado						120	531	120	551	
	Adjust,	TPC Cartridge Rebound	Black	Graphics, Custom Colors,	51	140	551	140	571	(26in 100mm)	
	Low Speed			Custom Configs		150	561	150	581		













Mastodon Pro Spec Technology Derived from Mattoc Comp

								IEELSIZE :			
							St	andard	E	(T	
Chassis	Conina	Compression	Rebound	Standard Colors	Ontions	Offset	Travel	Crown to Axle	Tuessel	Crown to Axle	Waiaht
CildSSIS	Spring	Damping	Damping	Colors	Options	Oliset	ITavei	Axie	Travel	Axie	Weight
1.5T Alloy Steerer, 34mm 6066 AL					1 1/8 Steerer,		80	492	80	513	
Straightwall Black Alloy Stanchions,	ISOAIR	Absolute+	Externally Adjustable	Matte	Custom Graphics,	51	100	511	100	530	2430g
Post Mount for 180mm Rotor, HexlockSL150mm		Tuned for Fat Bike	TPC Rebound	Black	Custom Colors, Custom		120	531	120	550	(26in100mm)
Axle					Configs		140	551	140	571	
											l



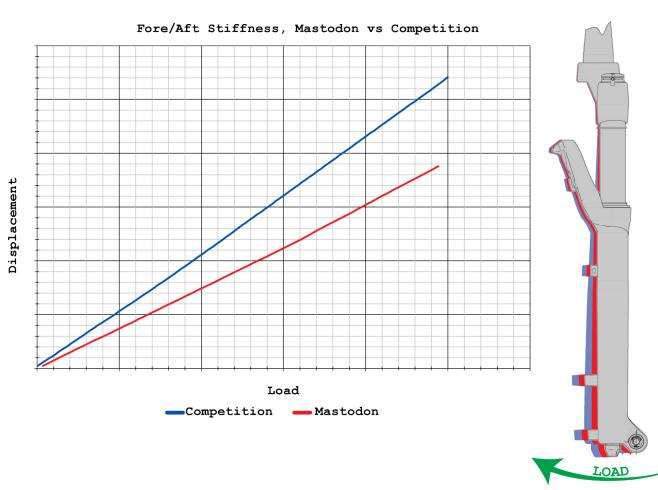












Mastodon Stiffness Precision Under Braking

Mastodon is 26% stiffer fore-aft than the competition. This stiffness gives the rider improved stability, increased precision, and more consistent rebound and compression performance under braking and cornering loads.



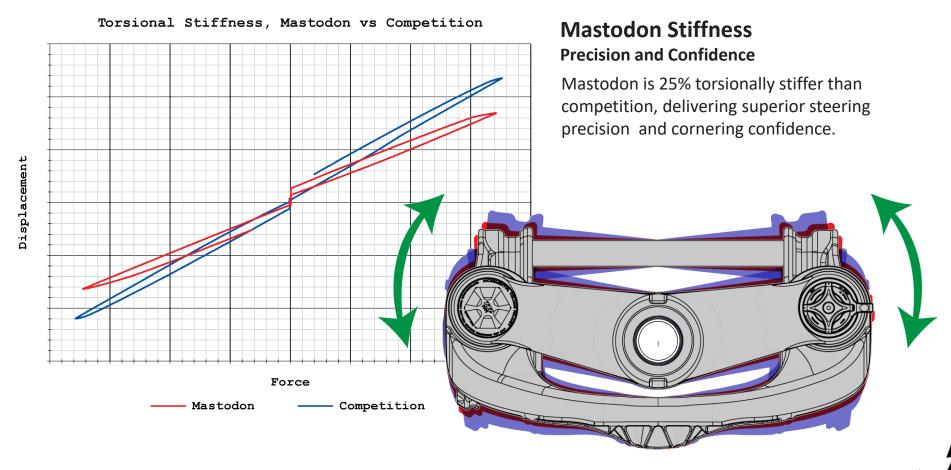
















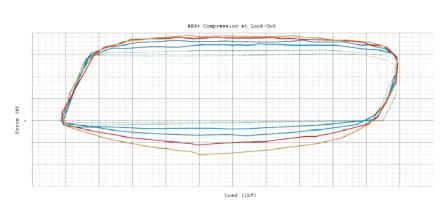


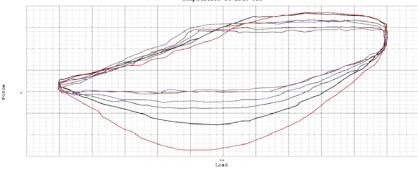












Mastodon Stiffness Firm Platform - Better Control

Mastodon has more robust internal components that are more active than the competition for better traction. Mastodon's firm platform delivers precise damping and predictable wheel travel.

- Firm Lock-Out
- Consistent, Predictable **Performance**
- **Shim-Based Tuneability**
- **Pro Level with Hi-Lo Speed Adjustment**





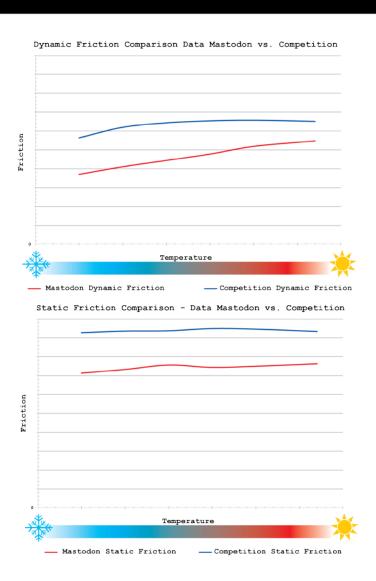












Mastodon Friction Less Friction, Smoother Ride

Mastodon has less static breakaway and dynamic friction, coupling a smoother ride with its superior handling.

- Low friction across all temperature ranges
- 34.3% less dynamic friction than competition @ 20°F
- 15.9% less dynamic friction than competition @ 74°F (ambient)
- 23.1% less static friction than competition @20 degrees
- 18.3% less static friction than competition @74° (ambient)

















Mastodon Upgrade Infinite Rate Tune Kit

Infinite Rate Tune (IRT) allows the rider to control mid-stroke rate independent from bottom-out.

The closest thing available to the feel of a perfectly chosen coil spring without additional weight.

- Optional upgrade for Mastodon
- Allows the rider to control midstroke rate, independent from bottom-out
- IRT is for riders and racers who have more extensive understanding of air spring function who want to custom tune spring rate for more sensitive initial stroke AND more supportive mid-stroke













