

Syntace

WHEELSET W25 MX

Feathery weight and super strong

With 25mm outer width, the Syntace W25 MX is equally wide as conventional XC wheels. For riders that choose to ignore the benefits of wider rims because they place their primary focus on maximised weight saving.

System wheels vs. systematic fine tuning

Agreed - system wheels look very chic. But should you have to put up with their fundamental drawbacks? For example low spoke counts, which prevent any continuation of a ride when a spoke is broken? In an emergency non readily available spokes and nipples? Heavy and less stiff wheels? We believe not. The Syntace W-series relies on the results of a wheel configuration which has proven superior for over a century.

Configuration

Asymmetrical Syntace W-Series MX rims with custom drilling and spoke angle matched hub flanges. Sapim CX Ray bladed spokes, 28 per wheel, triple crossed, Sapim alloy nipples. Hand lacing quality.

1295g

for the 25 mm wide, spur geared Syntace W25-MX wheelset 26". Approved for a rider weight of up to 100kg. Recommended for a max. tyre width of 2.1" for CC/Marathon riders who put weight saving before ride quality.

Mix und match

You can combine all available Syntace W-Series front and rear wheels, completely to your personal preference in terms of rim width, spoke count, axle standard, ... simply configure, order, and assemble. By changing the end caps you can adapt your wheel to any of the current axle standards. No matter how exotic your combination is, you just pay the one regular Syntace wheelset price.

Tubeless-Ready

With Yellow tape or the Syntace Tubeless system (in development).

NEW



Syntace

RIM W25 MX

Black aluminium instead of carbon.

The ductile material aluminium has its rightful place in two finger wide rims rolling over sharp rocks, roots and steps. If it were just possible to bend sufficiently light weight rims. It is possible.

Light weight... and tougher than carbon rims

Thanks to the Syntace precision profile made of a custom high strength alloy, welded and multiply cold worked and heat treated. Stress reducing asymmetrical Syntace W-Series profile design with side step drilling pattern. Mere 350g on the scale for the 25mm wide W25 MX rims (26") speak a clear language. Who can compete with that?

Tailor made

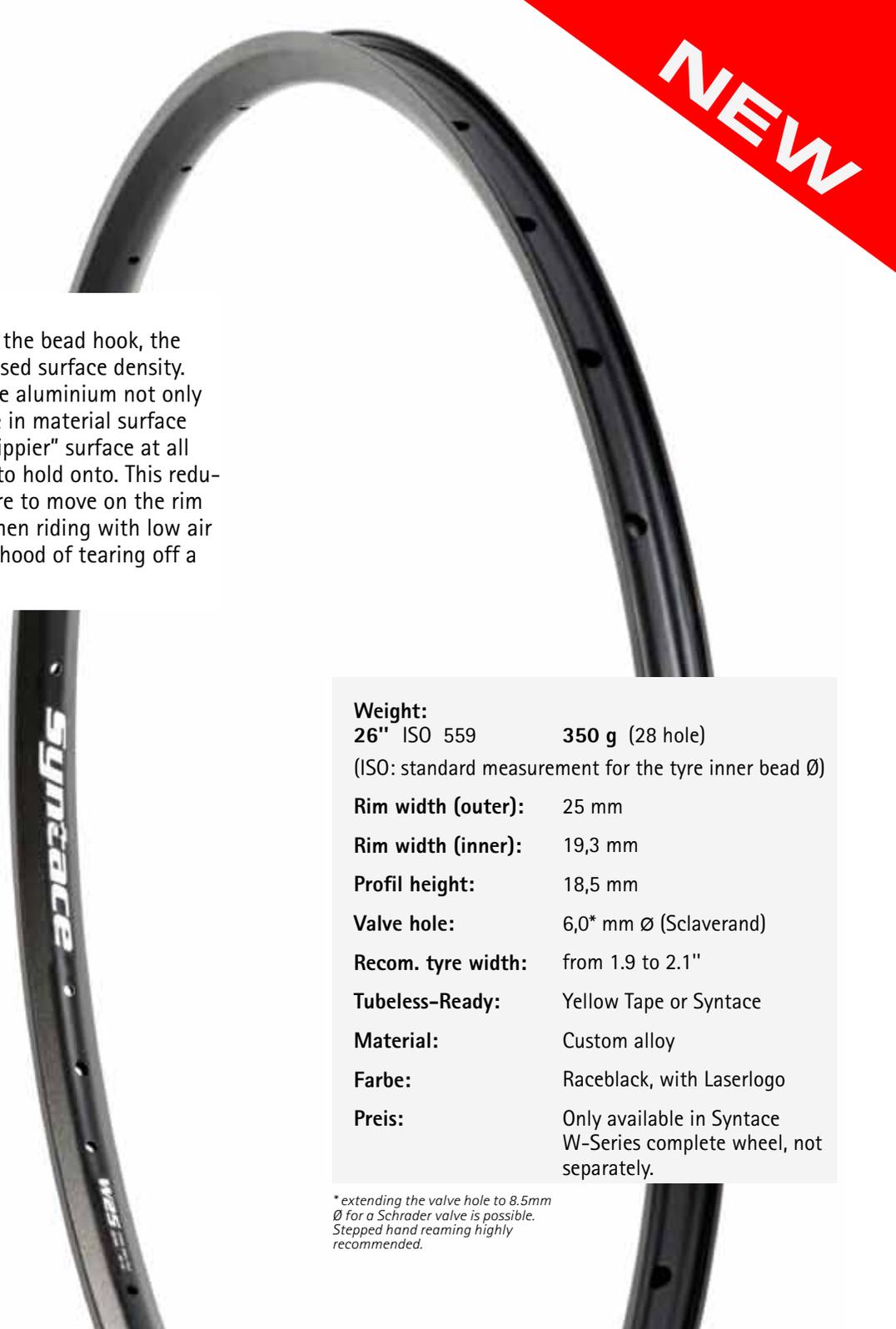
The Syntace W-Series MX rims are available with the largest multitude of sizes: four widths, two spoke counts, and as a world first Syntace also offers the same rims in four diameters. Namely, 24", 26", 27.5" (650B) and 29". We go to this extend, simply so that if you don't fit the "norm sizing" you can still build the best possible mountain bike for yourself.

Recommended use

For XC riders, for whom only weight counts and riders who use tyres of up to 2.1".

360° Syntace ToughSkin™

All round, meaning even inside the bead hook, the rims are shot peened for increased surface density. This cold working process of the aluminium not only achieves a measurable increase in material surface hardness but also creates a "grippier" surface at all tyre contact areas for the tyre to hold onto. This reduces the likelihood of the tyre to move on the rim under large loads, especially when riding with low air pressure. And reduces the likelihood of tearing off a valve.



Weight:	
26" ISO 559	350 g (28 hole)
(ISO: standard measurement for the tyre inner bead Ø)	
Rim width (outer):	25 mm
Rim width (inner):	19,3 mm
Profil height:	18,5 mm
Valve hole:	6,0* mm Ø (Sclaverand)
Recom. tyre width:	from 1.9 to 2.1"
Tubeless-Ready:	Yellow Tape or Syntace
Material:	Custom alloy
Farbe:	Raceblack, with Laserlogo
Preis:	Only available in Syntace W-Series complete wheel, not separately.

* extending the valve hole to 8.5mm Ø for a Schrader valve is possible. Stepped hand reaming highly recommended.

NEW

Syntace

HiTorque MX

**The toughest hub we know of.
On climbs and descents.**

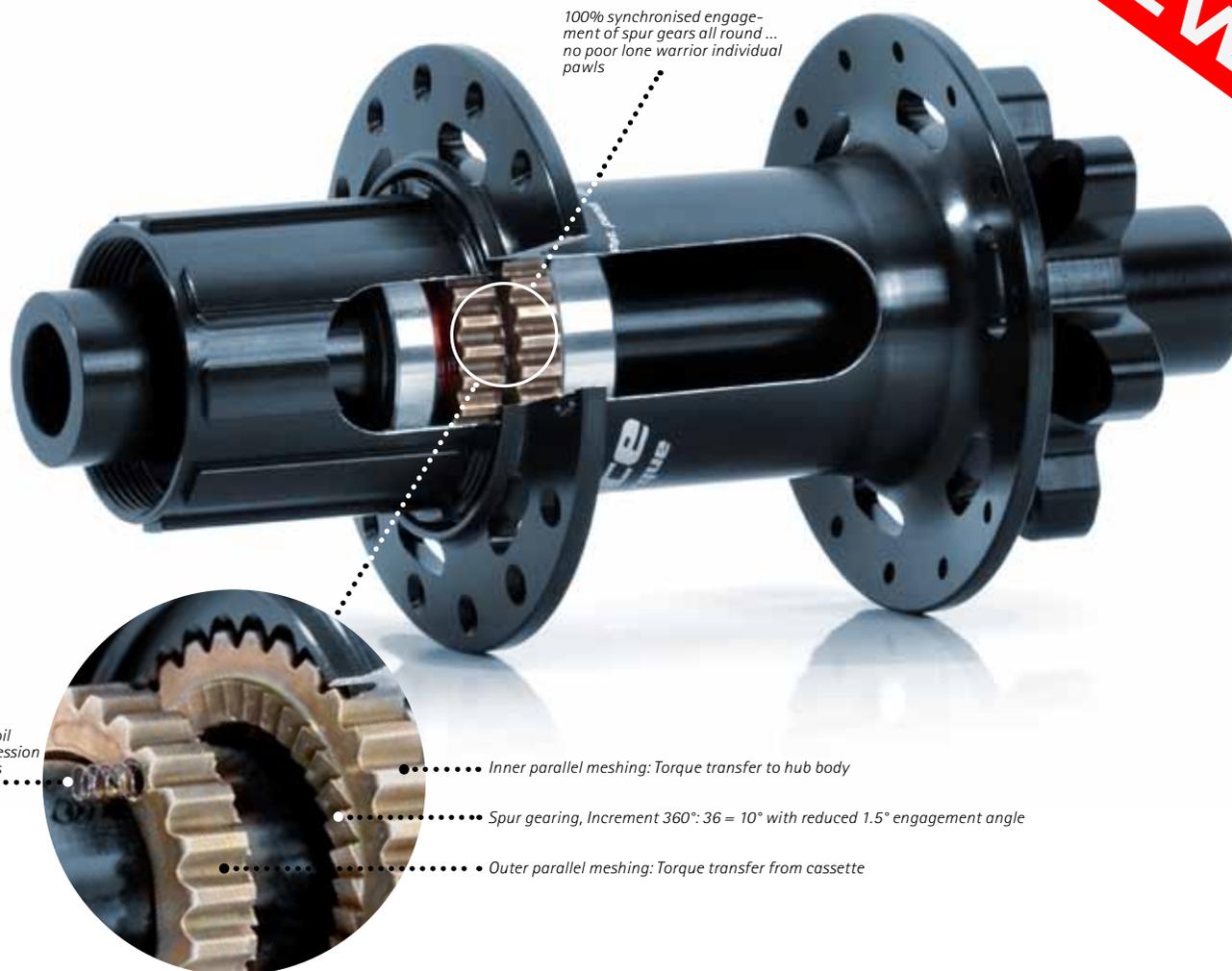
The heart of the Syntace wheelsets are the Syntace developed and manufactured Syntace Hi-Torque MX hubs (Pat. pend.). Finest turning and machining, inconspicuous appearance, but with superior inner qualities.

Spur gearing: all or none!

The name and the crisp sound already lead to the presumption: the freewheel mechanism of this Syntace hub will withstand more than others. The spur gear mechanism principle which we have further refined, guarantees that force transmitting teeth can't engage individually and as a result are overloaded. In exactly that moment when one tooth wants to engage, all teeth inevitably engage in synchronisation. The 36tooth, in Germany precision machined high strength spur gears, are driven by four spiral springs. The result in the rough every day mtb use: the German uphill master Jan Lämmel has been using the same rear hub in his Liteville 301 since fall 2011. Without any maintenance, just like the hub in the rear wheel of World Trails Champion Thomas Öhler. Just for comparison's sake: conventional pawl free-wheel bodies are completely destroyed within four weeks of being in one of these boys' bikes - regardless of the number of pawls. Trial riders - not to be confused with trail riders - know exactly what is meant here.

Winter resilient

Even with icy cold winter temperatures the Syntace Hi-Torque MX shows no engagement denials or signs of "chain-push" issues with consequent chain wrap attacks. No slippage, and long lifespan spur gears.



100% synchronised engagement of spur gears all round... no poor lone warrior individual pawls

Four coil compression springs

Inner parallel meshing: Torque transfer to hub body

Spur gearing, Increment 360°: 36 = 10° with reduced 1.5° engagement angle

Outer parallel meshing: Torque transfer from cassette

In Europe - as opposed to sunshine states such as California - for every committed mountain biker an absolute must, as we believe.

Robust flange

High strength 7075 alloy, fatigue test machine optimised dimensioning and spoke angle matched flanges.

Strong heart

Butted 17mm oversize axle, intelligent bearing positioning for maximum stiffness and life span at lightest possible weight. Adaptable to all current axle standards by simply changing the end caps.

NEW

HiTorque MX Rear 12

- Butted 17mm oversize axle, for maximum stiffness, durability and lowest possible weight
- Hub body with two double sealed 17x30x7 precision cartridge bearings, Freewheel with two double sealed 17x26x5 precision cartridge bearings
- Perfect engagement by use of 4 spiral springs and optimised spur gear shape
- Spur geared freewheel with 10° pitch (36 tooth), with reduced 1.5° engagement freeplay. Total engagement angle approx. 11.5°
- Choice of axle standard by swapping end caps (one set of your choice included)



Weight:	225 g
Spoke count:	28 or 32
Disc standard:	6 hole
Axle standard:	142x12 und X-12, 135x12, QR
Material:	Aluminium 7075
Color:	Black with laser logo
Price:	Only available in Syntace W-Series complete wheel, not separately.

HiTorque MX Rear 12 Wide

- 15 mm wider hub
- Butted 17mm oversize axle, for maximum stiffness, durability and lowest possible weight
- Hub body with two double sealed 17x30x7 precision cartridge bearings
- Freewheel with two double sealed 17x26x5 precision cartridge bearings
- Perfect engagement by use of 4 spiral springs and optimised spur gear shape
- Spur geared freewheel with 10° pitch (36 tooth), with reduced 1.5° engagement freeplay. Total engagement angle approx. 11.5°
- Choice axle standard by swapping end caps (one set of your choice included)



Weight:	248 g
Spoke count:	32
Disc standard:	6 hole
Axle standard:	157x12, 150x12
Material:	Aluminium 7075
Color:	Black with laser logo
Price:	Only available in Syntace W-Series complete wheel, not separately.

NEW

HiTorque MX Front 15

- 17mm oversize axle
- Two double sealed 26x17x5 precision cartridge bearings
- Choice of axle standard by swapping end caps (one set of your choice included)

Tipp: for extreme use and heavy riders, we recommend the use of the 20 mm 32 hole Hi-Torque MX Front 20 hub even if you had planned to use either a QR or QR15 axle for extended bearing life.



Weight:	99 g
Spoke count:	28
Disc standard:	6 hole
Axle standard:	QR, Ø15 mm
Material:	Aluminium 7075
Color:	Black with laser logo
Price:	Only available in Syntace W-Series complete wheel, not separately.

HiTorque MX Front 20

- 25mm oversize axle
- Two double sealed 37x25x7 precision cartridge bearings
- Choice of axle standard by swapping end caps (one set of your choice included)



Weight:	150 g
Spoke count:	32
Disc standard:	6 hole
Axle standard:	QR, Ø20 mm, Ø15 mm
Material:	Aluminium 7075
Color:	Black with laser logo
Price:	Only available in Syntace W-Series complete wheel, not separately.

Syntace

Complete wheelset W25 MX

Complete wheelset weight:	1295 g (26", 28 hole)
Rim width (outer):	25 mm
Rim width (inner):	19,3 mm
Disc standard:	6 hole
Spokes:	28 pcs Sapim CX-Ray, black
Nipples:	Sapim Alu double square, black
Spoke pattern:	3 cross
Rim material:	Custom Alu
Hub material:	7075 alloy, custom heat treatment
Tubeless-Ready:	Yellow Tape or Syntace
Max. rider weight:	100 kg
Color:	Raceblack with laserlogo
Price:	€ 998,-



Wheel warranty 3+7

For all wheels Syntace gives s 10 year warranty on all material and manufacturing defects. This is free of charge within the first 3 warranty years, and a 50% discount on the respective current retail price is offered for the remainder of the 10 year warranty period. The warranty does not cover normal wear of consumable parts or high impact damage on rim etc.

Rear W25 MX:

Weight:	28-hole:
26" ETRTO 559	710 g
Hub type / axle:	see separate sheet
Price:	€ 599,-

Front W25 MX:

Weight:	28-hole:
26" ETRTO 559	585 g
Hub type / axle:	see separate sheet
Price:	€ 399,-

NEW

REAR W-SERIES

Breite	Größe	Speichen	Nabe	Achse	Artikelnr
W25 MX Rear Wheel	559 (26")	28	HiTorque MX Rear12	135x12	112667
				142x12	111233
				QR 135	111301

W30 MX Rear Wheel	507 (24")	28	HiTorque MX Rear12	135x12	113367
				142x12	112087
				QR 135	112094
	559 (26")			135x12	112681
				142x12	111318
				QR 135	111325
		32		135x12	112674
				142x12	111356
				QR 135	111363
	584 (27.5")	28		135x12	113381
				142 x12	111417
				QR 135	111424
		32		135 x12	113404
				142x12	111455
				QR 135	111462
	622 (29")	28		135x12	113411
				142x12	112629
				QR 135	112636
		32		135x12	112643
				142x12	111493
				QR 135	111509

W35 MX Rear Wheel	507 (24")	28	HiTorque MX Rear12	135x12	113374
				142x12	112100
				QR 135	112117
	559 (26")			135x12	112698
				142x12	111332
				QR 135	111349
		32		135x12	112568
				142x12	111370
				QR 135	111387
			HiTorque MX Rear12Wide	150x12	112575
				157x12	112582
	584 (27.5")	28	HiTorque MX Rear12	135x12	113398
				142x12	111431
				QR 135	111448
		32		142 x12	111479
				QR 135	111486
	622 (29")	28		135x12	113428
				142x12	112650
				QR 135	113435
		32		135x12	113442
				142x12	111516
				QR 135	111523

W40 MX Rear Wheel	559 (26")	32	HiTorque MX Rear12	135 x12	112599
				142 x12	111394
				QR 135	111400
			HiTorque MX Rear12Wide	150x12	112605
				157x12	112612

FRONT W-SERIES

Breite	Größe	Speichen	Nabe	Achse	Artikelnr
W25 MX Front Wheel	559 (26")	28	HiTorque MX Front15	15 mm	110922
				QR 100	110939

W30 MX Front Wheel	507 (24")	28	HiTorque MX Front15	15 mm	112520
				QR 100	112537
	559 (26")	28	HiTorque MX Front15	15 mm	110946
				QR 100	110953
		32	HiTorque MX Front20	15 mm	110984
				20 mm	110991
				QR 100	111004
	584 (27.5")	28	HiTorque MX Front15	15 mm	111073
				QR 100	111080
		32	HiTorque MX Front20	15 mm	111110
				20 mm	111127
				QR 100	111134
	622 (29")			15 mm	111172
				20 mm	111189
				QR 100	111196

W35 MX Front Wheel	507 (24")	28	HiTorque MX Front15	15 mm	112544
				QR 100	112551
	559 (26")			15 mm	110960
				QR 100	110977
		32	HiTorque MX Front20	15 mm	111011
				20 mm	111028
				QR 100	111035
	584 (27.5")	28	HiTorque MX Front15	15 mm	111097
				QR 100	111103
		32	HiTorque MX Front20	15 mm	111141
				20 mm	111158
				QR 100	111165
	622 (29")			15 mm	111202
				20 mm	111219
				QR 100	111226

W40 MX Front Wheel	559 (26")	32	HiTorque MX Front20	15 mm	111042
				20 mm	111059
				QR 100	111066

Syntace

Stand: 16. 08.2012