



” A tower of strength, without a pillar you have nothing ”

Pillar

Pillar Can Help



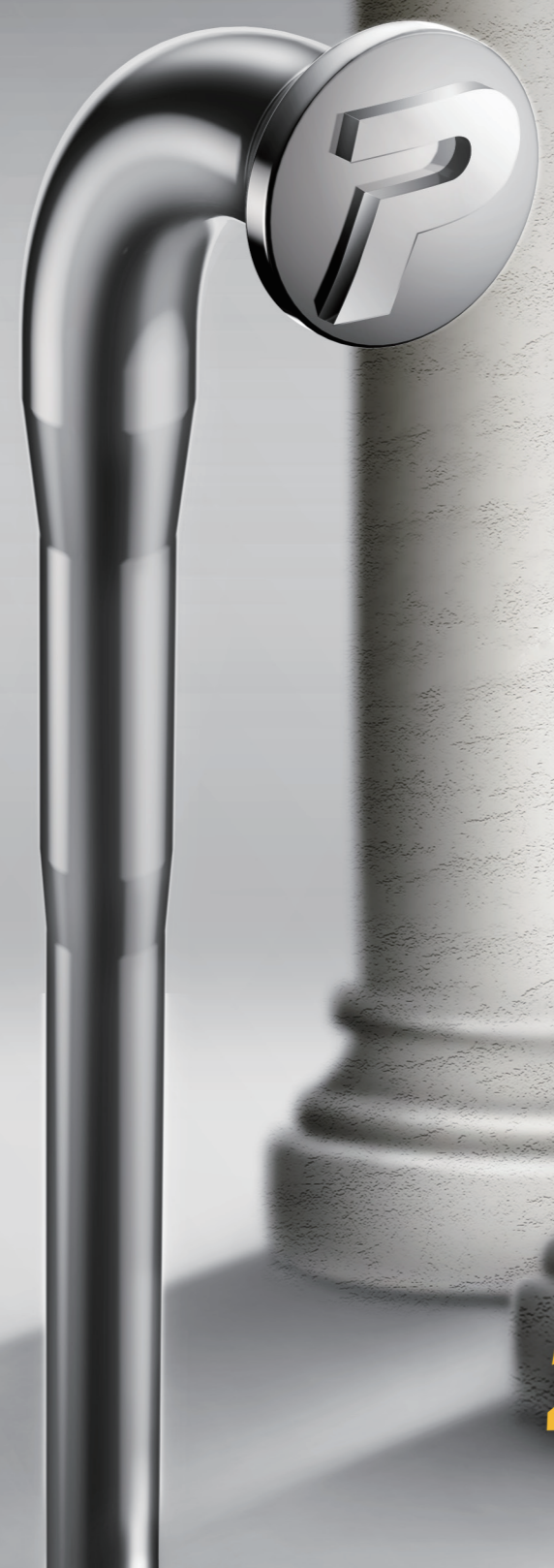
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21' ▶ 22'

A Brief History of Pillar Spokes & Nipples



History

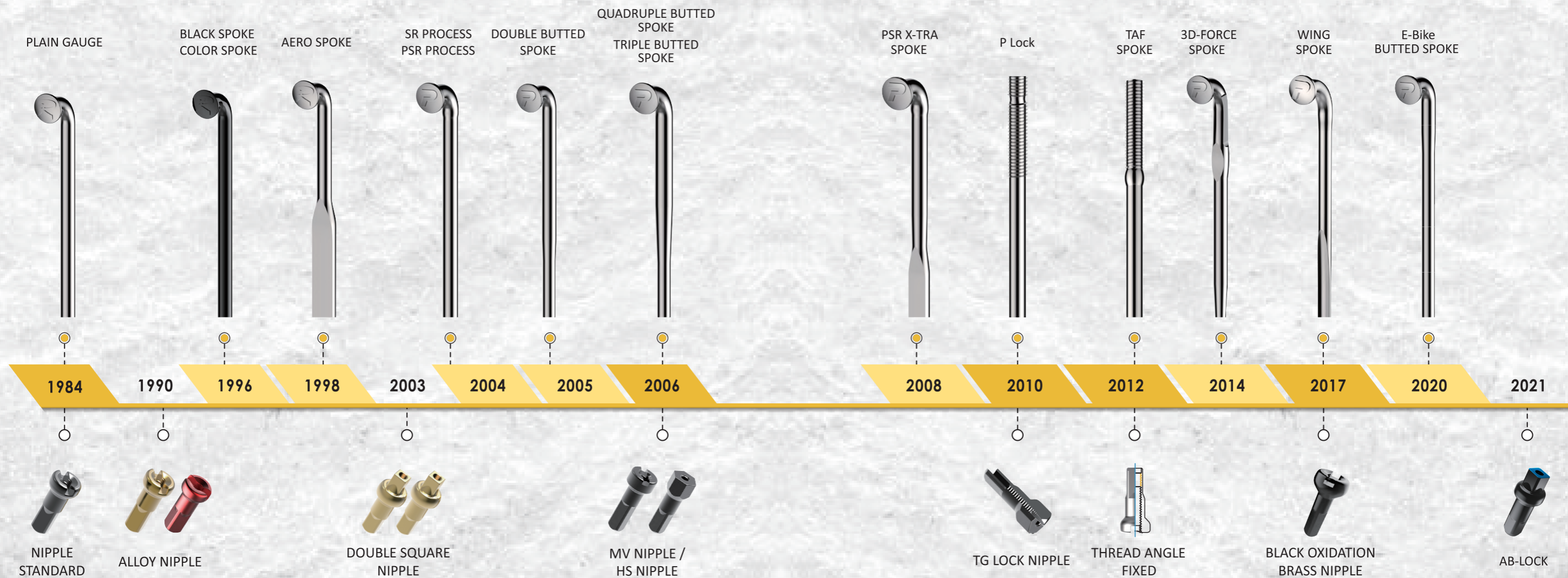
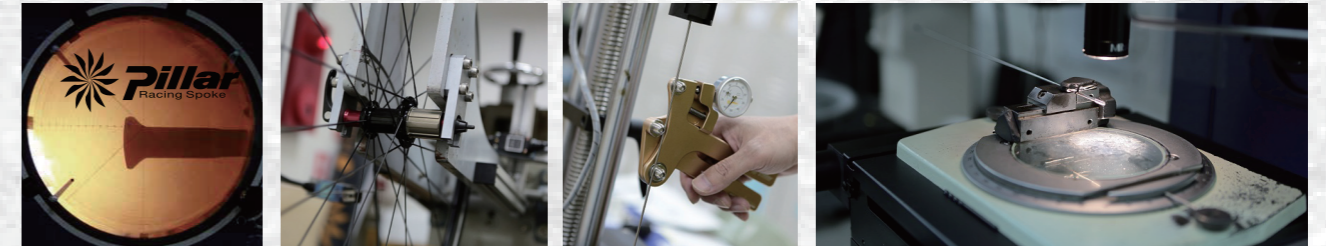
For Almost 40 years, Pillar has been pioneering spoke development throughout the world. With specialist manufacturing operations in Taiwan, coupled to the latest research and development facilities, Pillar has become the number one choice for spokes and nipples amongst the finest brands in the bicycle world today.

Production runs at well in excess of 1.5 million sets a month and our success is due to the clear lines of communication we maintain with each and everyone of our customers, linked to developing personal relationships by spending time at our customers locations in order to understand every, exact need they have.

Pillar holds countless patents on the technology and products it has developed over the years and will continue to lead the way to other manufacturers around the world.

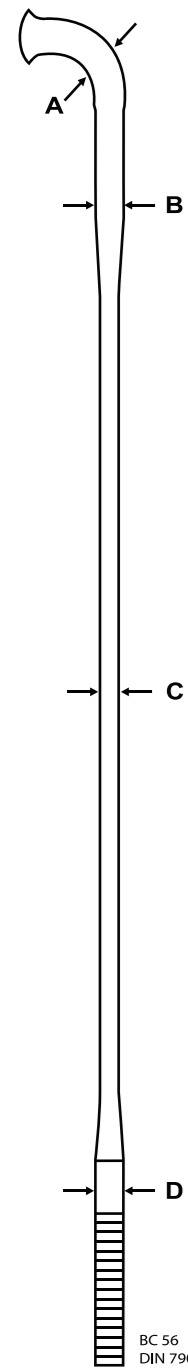
The continuous development of new and exciting materials will ensure that Pillar is the only choice of people in the know.

Contact us with the peace of mind there is no other spoke manufacturer in the world today that can cater for your needs, no matter how large or small.





		A (mm)	B (mm)	C (mm)	D (mm)	Weight (260mm)	Page	DISC		RIM		DISC		XC		AM	END	DH	E-BIKE	Cargo
								Tubular	Clincher	Tubular	Clincher	Tubular	Clincher	Light use	Heavy use					
PLAIN GAUGE SPOKE	P 12	2.6	2.6	2.6	2.6	10.9 g	10													
	P 13	2.3	2.3	2.3	2.3	8.5 g	10													
	P 14	2.0	2.0	2.0	2.0	6.5 g	10													
	P 15	1.8	1.8	1.8	1.8	5.5 g	10													
	PSR 13	2.5	2.3	2.3	2.3	8.5 g	11													
	PSR 14	2.2	2.0	2.0	2.0	6.5 g	11													
	PSR 15	2.0	1.8	1.8	1.8	5.5 g	11													
BUTTED SPOKE	PSB 23	2.6	2.6	2.3	2.3	9.0 g	13													
	PSB 34	2.3	2.3	2.0	2.0	6.8 g	13													
	PSB 45	2.0	2.0	1.8	1.8	5.6 g	13													
	PDB 1213	2.6	2.6	2.3	2.6	9.2 g	14													
	PDB 1314	2.3	2.3	2.0	2.3	7.0 g	14													
	PDB 1415	2.0	2.0	1.8	2.0	5.7 g	14													
	PDB 1416	2.0	2.0	1.6	2.0	4.7 g	14													
	PDB 1417	2.0	2.0	1.5	2.0	4.3 g	14													
	PTB 380	2.3	2.3	1.8	2.0	6.0 g	15													
	PTB 270	2.2	2.2	1.7	2.0	5.3 g	15													
	PSR TB 2018	2.2	2.0	1.8	2.0	5.7 g	16													
	PSR TB 2017	2.2	2.0	1.7	2.0	5.2 g	16													
	PSR TB 2016	2.2	2.0	1.6	2.0	4.7 g	16													
	PSR TB 2015	2.2	2.0	1.5	2.0	4.3 g	16													
	PSR QB 5380	2.5	2.3	1.8	2.0	6.3 g	17													
PSR QB 4270	2.4	2.2	1.7	2.0	5.8 g	17														
AERO SPOKE	PA 1423	2.0	2.0	2.3 x 1.5	2.0	6.5 g	19													
	PA 1432	2.0	2.0	3.2 x 1.0	2.0	6.5 g	19													
	PA 1528	1.8	1.8	2.8 x 1.0	1.8	5.5 g	19													
	PBA 1425	2.0	2.0	2.5 x 1.05	2.0	5.7 g	20													
	PBA 1422	2.0	2.0	2.2 x 0.95	2.0	4.7 g	20													
	PBA 1420	2.0	2.0	2.0 x 0.95	2.0	4.3 g	20													
	PSR Aero 1423	2.2	2.0	2.3 x 1.5	2.0	6.5 g	21													
	PSR Aero 1432	2.2	2.0	3.2 x 1.0	2.0	6.5 g	21													
	PSR Aero 1528	2.0	1.8	2.8 x 1.0	1.8	5.5 g	21													
	PSR X-TRA 1425	2.2	2.0	2.5 x 1.05	2.0	5.7 g	22													
	PSR X-TRA 1424	2.2	2.0	2.4 x 1.05	2.0	5.2 g	22													
	PSR X-TRA 1422	2.2	2.0	2.2 x 0.95	2.0	4.7 g	22													
PSR X-TRA 1420	2.2	2.0	2.0 x 0.95	2.0	4.3 g	22														
WING SPOKE	PSR WING 23	2.2	2.0	2.3 x 1.45	2.0	5.7 g	23													
	PSR WING 22	2.2	2.0	2.2 x 1.40	2.0	5.2 g	23													
	PSR WING 21	2.2	2.0	2.1 x 1.30	2.0	4.7 g	23													
	PSR WING 20	2.2	2.0	2.0 x 1.20	2.0	4.3 g	23													
SUPER LITE SPOKE	PST 14	2.2	2.0	2.0	2.0	4 g	25													
	PST AERO 1430	2.2	2.0	3.0 x 1.1	2.0	4 g	26													
	MEGA LITE SS	2.0	2.0	1.7 x 0.9	2.0	3.8 g	27													
	X-TRA LITE Ti	2.3	2.3	2.0 x 0.9	2.3	2.6 g	28													
4 3D FORCE SPOKE							more information	29												



BC 56
DIN 79012



Wing

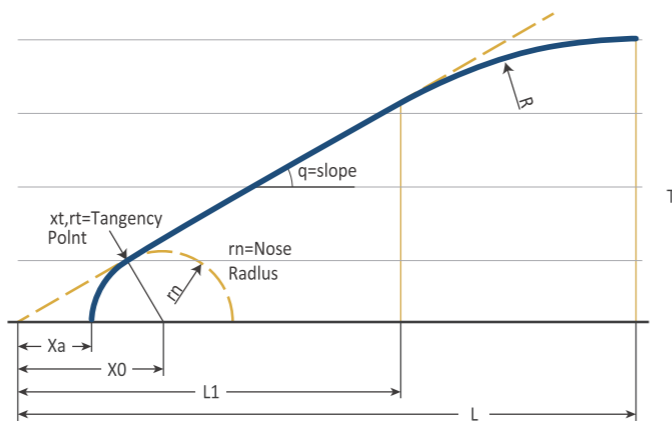


Nose cone has been proven to be the most effective aerodynamic design across the full spectrum of wind conditions encountered. Wing Spoke are milled to a computed aerodynamic curve derived from the same equation used for aircraft nose cones. This blunted leading edge decreases turbulence as the spoke enters the air stream.



SPOKE SECTION

The slope is calculated to reduce the turbulence towards the trailing edge minimizing drag. The cross-section area ensures that the spoke retains enough material for maximum strength-to-weight ratios.

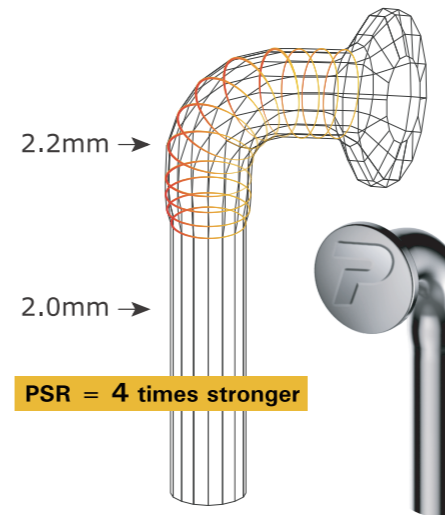


Pillar Spoke Reinforce

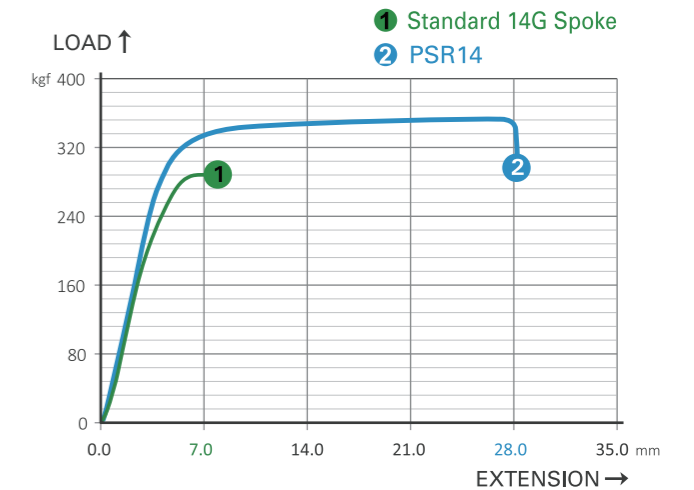


As clearly indicated in the chart, you will see the PSR spoke is four times stronger than standard spokes.

PSR has been developed by Pillar Spokes over years, making Pillar the industry leader for both aftermarket and OEM alike.



PSR = 4 times stronger

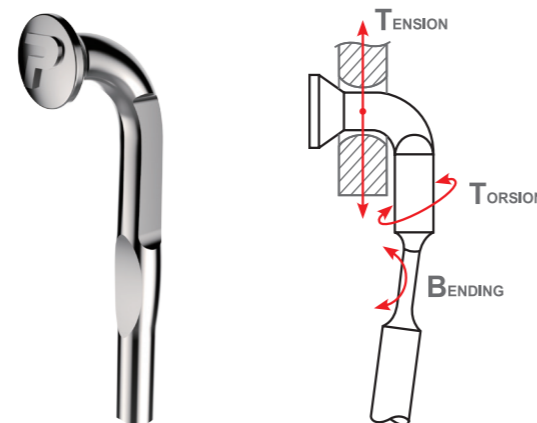


3 Dimension Force



3D-force spoke can set the spoke body at the correct position and direction for assembly and force handling. The first flattened section absorbs torsion and the second flattened section helps transfer tension thus allowing the change of angle of bending so that the spoke body, when put into use, may effectively absorb or transfer shock transmitted thereto.

This proprietary combination significantly enhances the fatigue resistance of the spoke body. If you want your wheels to significantly outlast the competition, 3D-Force will deliver.



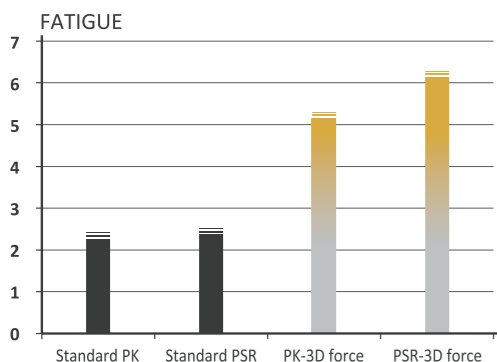
* more information: Page 29



Twist Prevent System

TPS (twist prevent system) allows the position of straight pull and double butted spokes to be fixed preventing the spokes from turning with the nipple during assembly.

TPS also prevents double butted spokes from twisting at the lighter-weight butted section as the spoke tension increases.



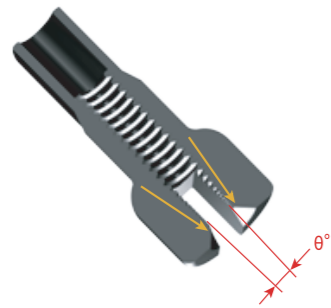


TG-Lock Nipple



TG-Lock Nipples are designed to attain maximum grip without the use of adhesives. This nipple will lock itself to the spoke threads as the tension is increased and due to its unique design, will not come loose during its use.

Please use custom-designed PHT-TG TOOL to position TG nipple. TPS is recommended when TG nipple goes with butted or straight pull spoke.

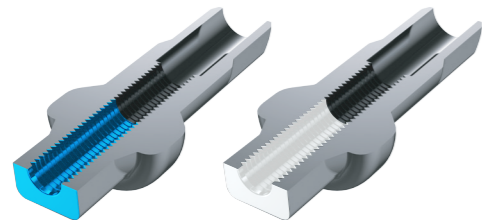


AB-Lock Nipple NEW



AB-Lock nipples are coated with special designed epoxy micro-encapsulated curing adhesives, that enhance the anchorage of threaded fasteners. The pre-applied adhesives remain dormant until the shearing action of engaging the spoke into a nipple or threaded cavity breaks the capsules and allows the adhesive to cure.

Epoxy coating is specially designed on the upper square, and experiments have proved that it can effectively reduce the probability of spokes thread breaking. This kind of epoxy will be completely cured after the first use, and even if it is used for the second time, it still retains part of its anti-loose ability.



AB-Lock

NY-Lock



Plain Gauge

Spoke

- Plain Gauge
- PSR Standard

Butted

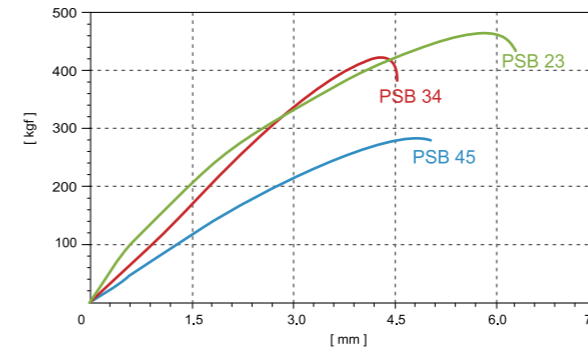
Spoke

- Single Butted
- Double Butted
- Triple Butted
- PSR Triple Butted
- PSR Quadruple Butted

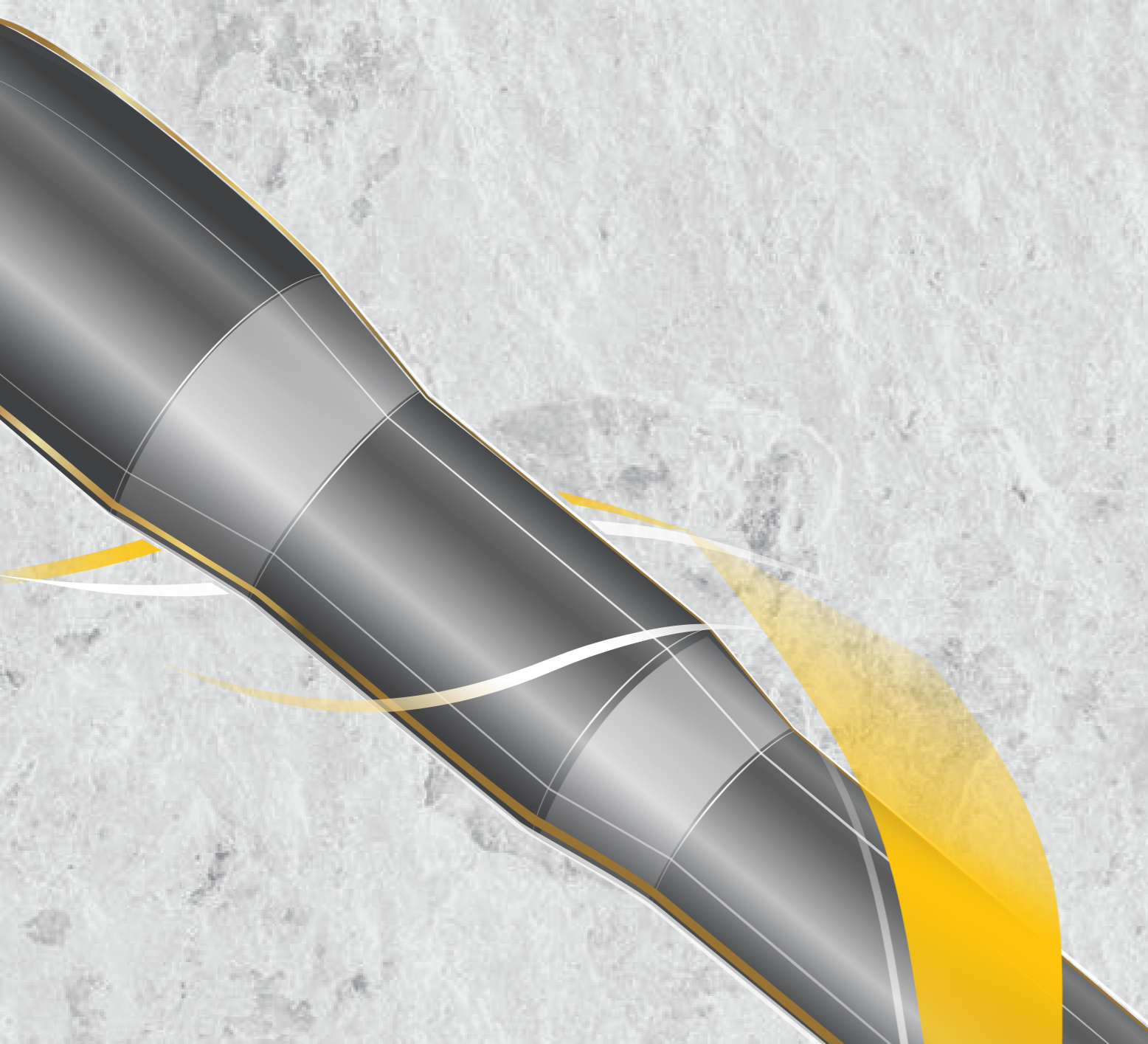
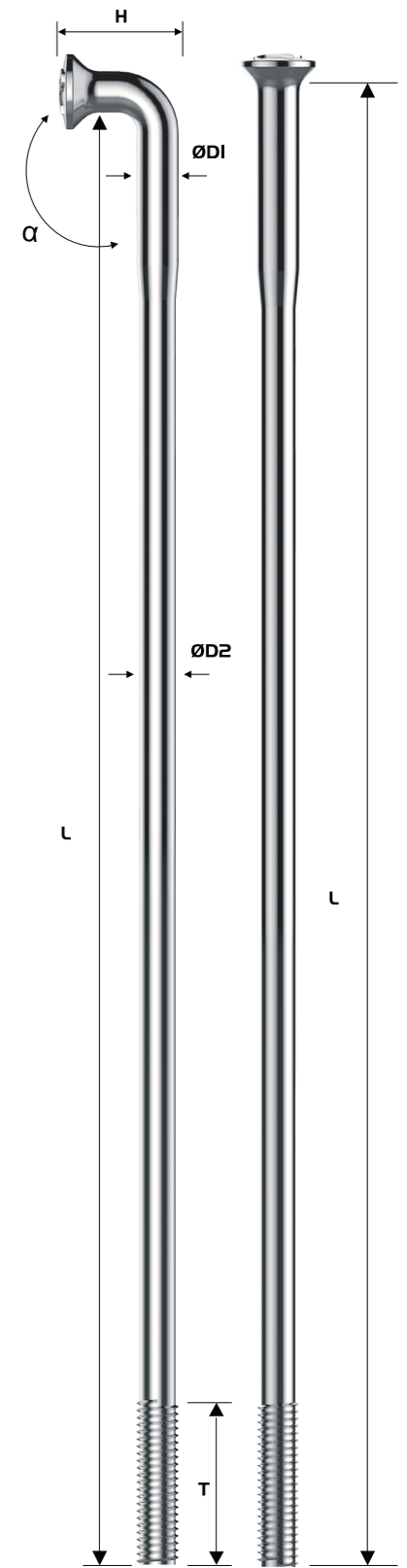
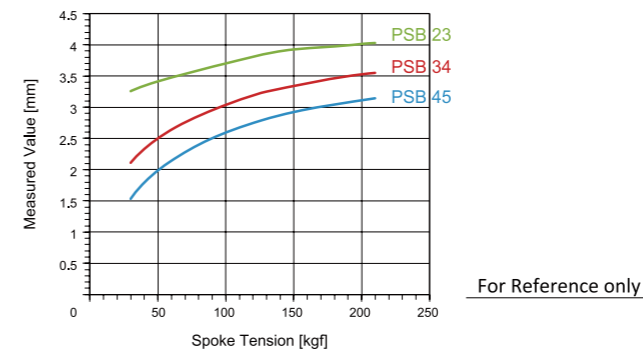
Single Butted

MATERIAL	T302+
ADVANTAGE	Pillar cold drawn technology, extra strength =20% +
THREAD	Rolled (BC 56, DIN 79012) PSB 23: FG 2.6 PSB 34: FG 2.3 PSB 45: FG 2.0
APPLICATION	City/ Trekking/ E-Bike/ Cargo
COLOUR	COLOUR PC Black

Breaking Strength



Spoke Tension



Model	T	ØD1	ØD2	α	H	L	Weight (260 mm)
PSB 23	9.0 mm	2.6 mm	2.3 mm	100°	8.0 mm	160-310 mm	9.0 g
PSB 34	9.0 mm	2.3 mm	2.0 mm	95°	7.0 mm	160-310 mm	6.8 g
PSB 45	9.0 mm	2.0 mm	1.8 mm	95°	6.2 mm	160-310 mm	5.6 g

Aero

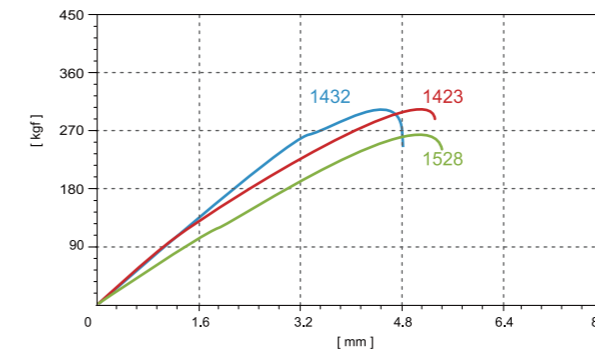
Spoke

- Aero
- Butted Aero
- PSR Aero
- PSR X-TRA
- Wing

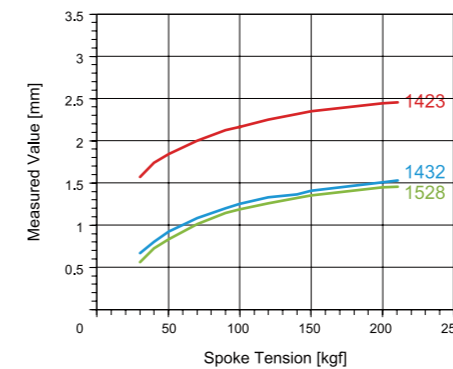
Aero

MATERIAL	T302+
ADVANTAGE	Pillar cold forge technology Aero shape, high elasticity and low drag coefficient.
THREAD	Rolled (BC 56, DIN 79012) PA 1423: FG 2.3 PA 1432: FG 2.3 PA 1528: FG 2.0
APPLICATION	Race/ MTB
COLOUR	COLOURPC Black

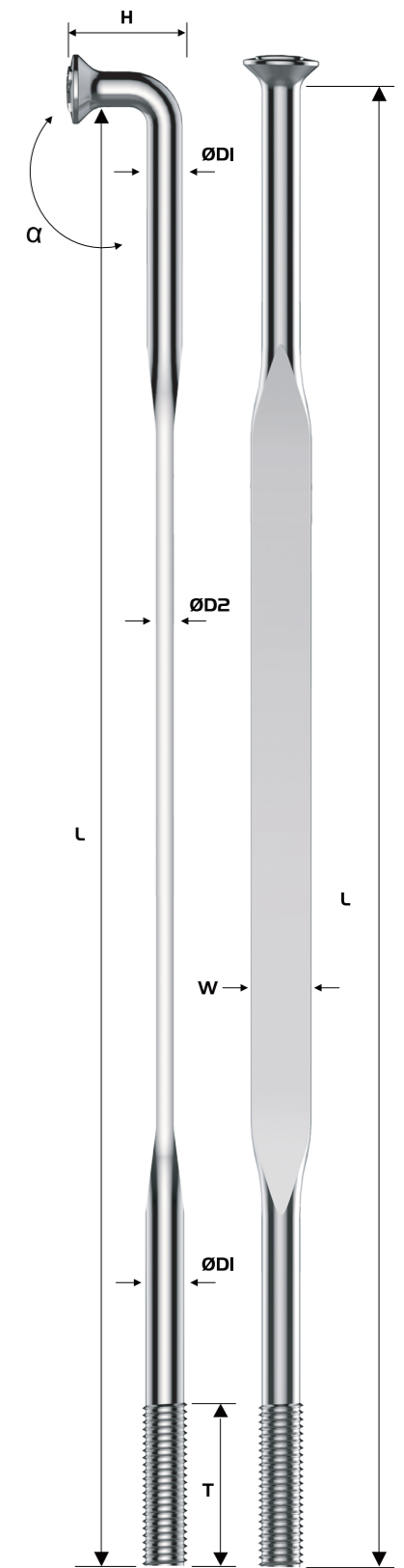
Breaking Strength



Spoke Tension



For Reference only



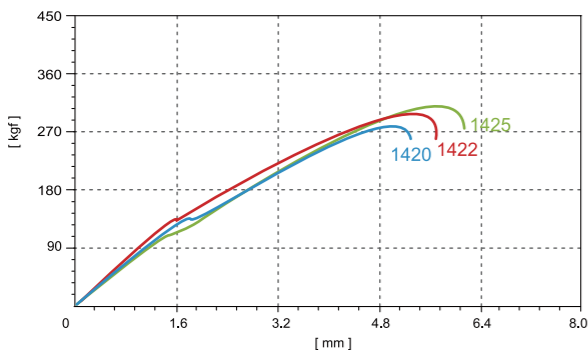
Model	T	ØD1	W	ØD2	α	H	L	Weight (260 mm)
PA 1423	9.0 mm	2.0 mm	2.3 mm	1.5 mm	95°	6.2 mm	170-310 mm	6.5 g
PA 1432	9.0 mm	2.0 mm	3.2 mm	1.0 mm	95°	6.2 mm	170-310 mm	6.5 g
PA 1528	9.0 mm	1.8 mm	2.8 mm	1.0 mm	95°	6.0 mm	170-310 mm	5.5 g

Butted Aero

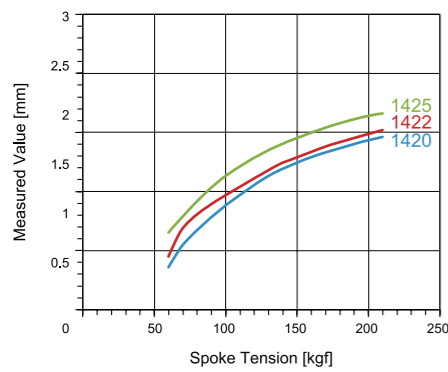
- MATERIAL** T302+
- ADVANTAGE** Pillar cold drawn technology. Double butted with three Blade options. Up to 30% weight saving without compromising strength.
- THREAD** Rolled (BC 56, DIN 79012) FG 2.3
- APPLICATION** Race/ MTB/ Down Hill
- COLOUR**



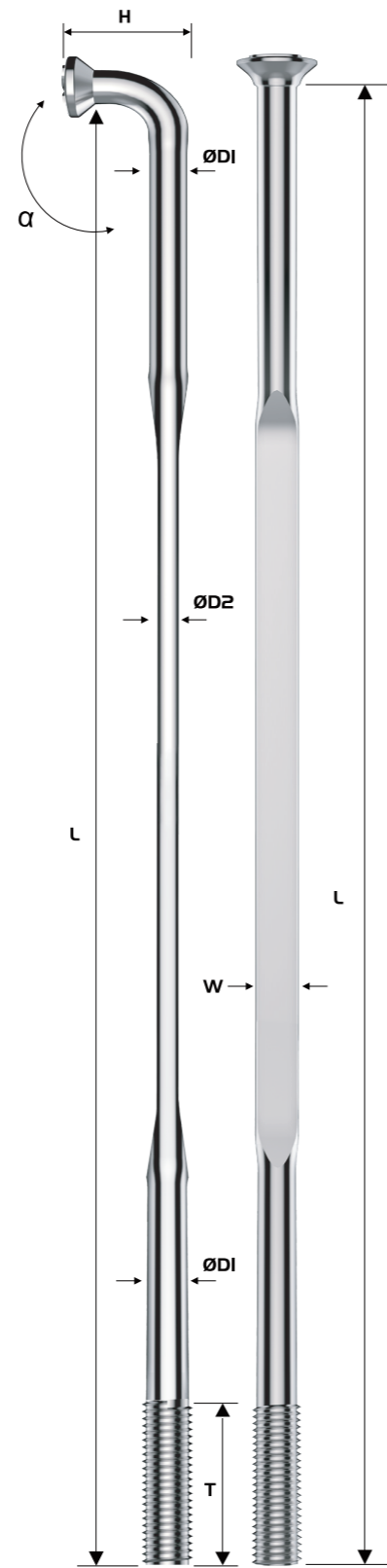
Breaking Strength



Spoke Tension



For Reference only

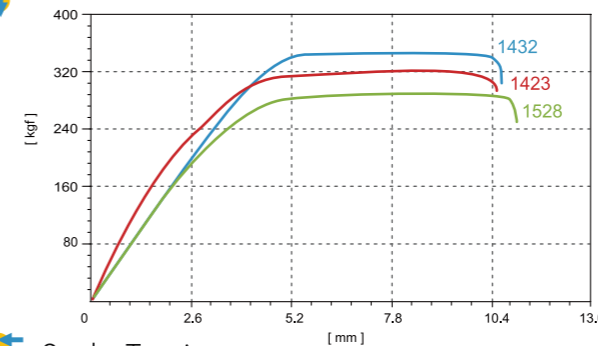


PSR Aero

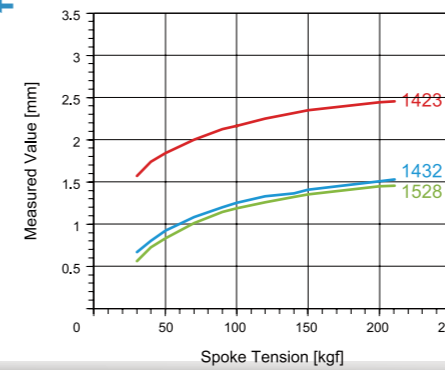
- MATERIAL** T302+
- ADVANTAGE** Pillar patented cold forge technology, Up to 20% more Strength Perfect Aero shape, high elasticity and low drag coefficient.
- PATENT** Taiwan: 220417 America: US7181844B2 Europe: 1479532
- THREAD** Rolled (BC 56, DIN 79012) PSR AERO 1423: FG 2.3 PSR AERO 1432: FG 2.3 PSR AERO 1528: FG 2.0
- APPLICATION** Race/ MTB/ Down Hill/ Free Ride
- COLOUR**



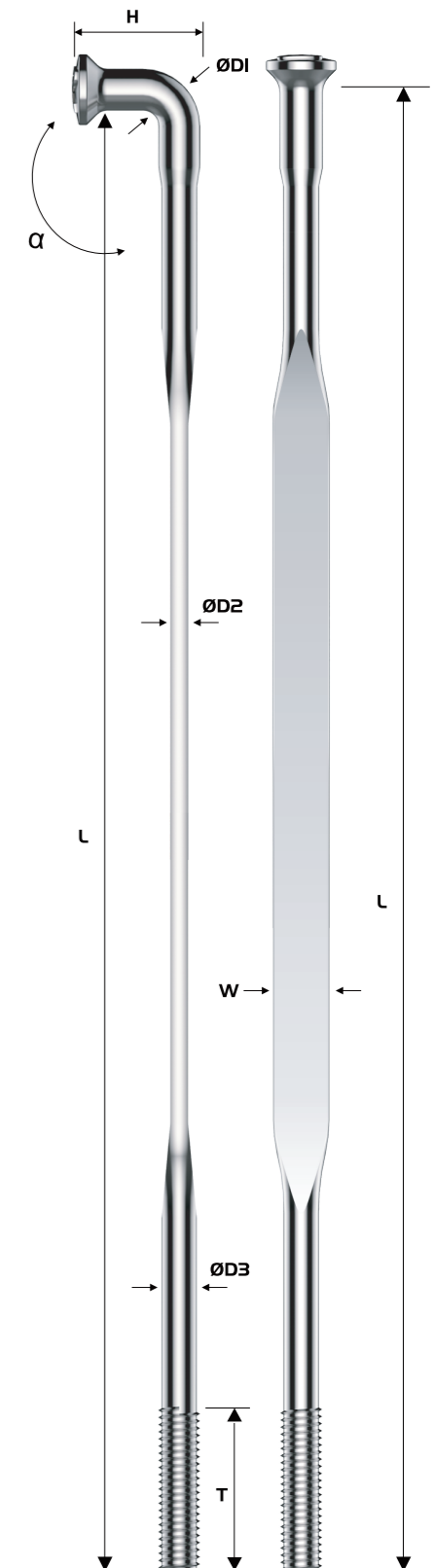
Breaking Strength



Spoke Tension



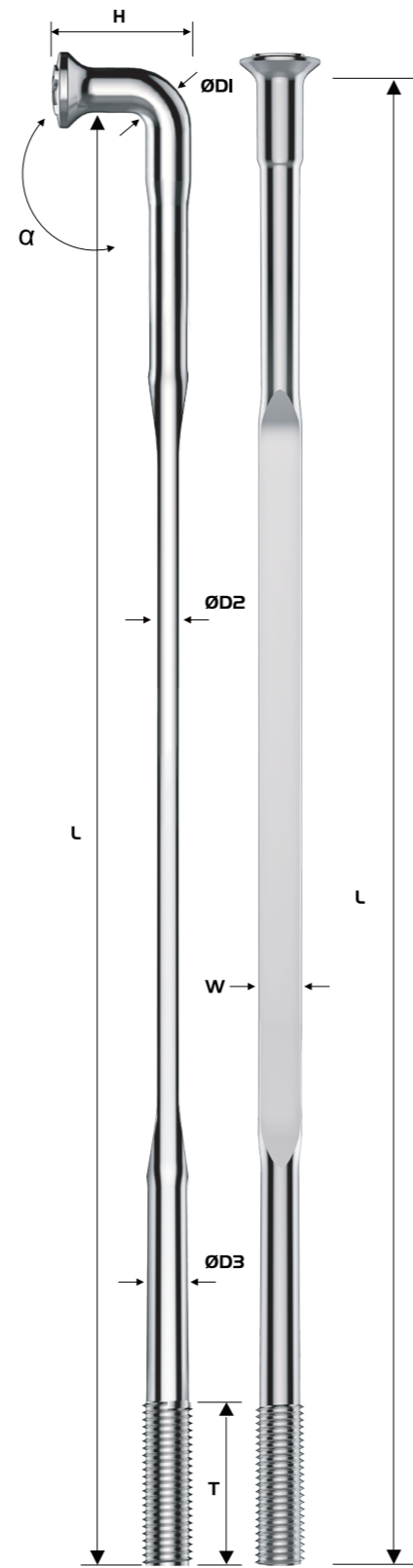
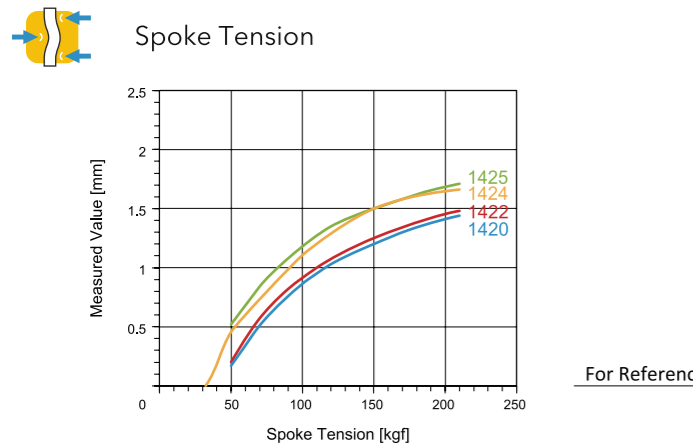
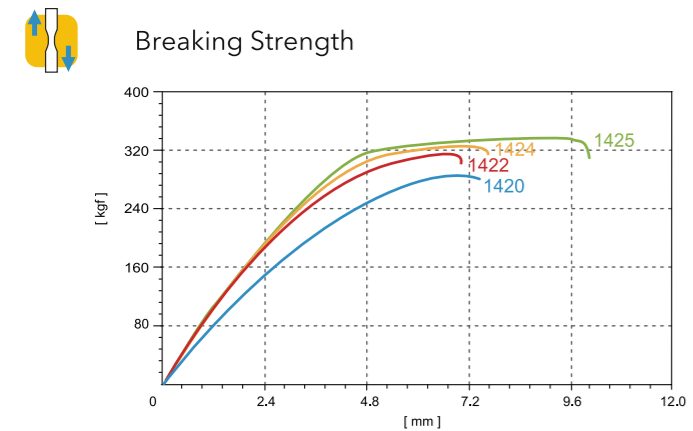
For Reference only



Model	T	ØD1	W	ØD2	α	H	L	Weight (260 mm)	Model	T	ØD1	W	ØD2	ØD3	α	H	L	Weight (260 mm)
PBA 1425	9.0 mm	2.0 mm	2.5 mm	1.05 mm	95°	6.2 mm	170-310 mm	5.7 g	PSR AERO 1423	9.0 mm	2.2 mm	2.3 mm	1.5 mm	2.0 mm	95°	6.6 mm	180-310 mm	6.5 g
PBA 1422	9.0 mm	2.0 mm	2.2 mm	0.95 mm	95°	6.2 mm	170-310 mm	4.7 g	PSR AERO 1432	9.0 mm	2.2 mm	3.2 mm	1.0 mm	2.0 mm	95°	6.6 mm	180-310 mm	6.5 g
PBA 1420	9.0 mm	2.0 mm	2.0 mm	0.95 mm	95°	6.2 mm	170-310 mm	4.3 g	PSR AERO 1528	9.0 mm	2.0 mm	2.8 mm	1.0 mm	1.8 mm	95°	6.5 mm	180-310 mm	5.5 g

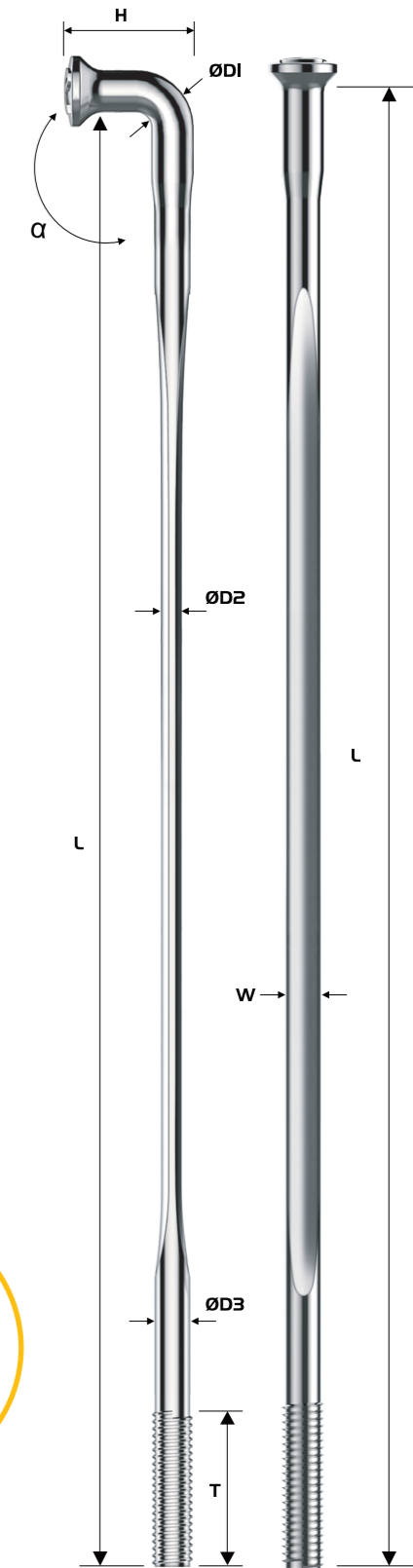
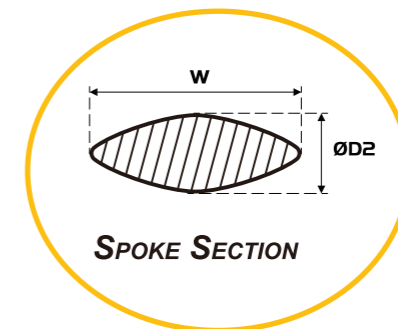
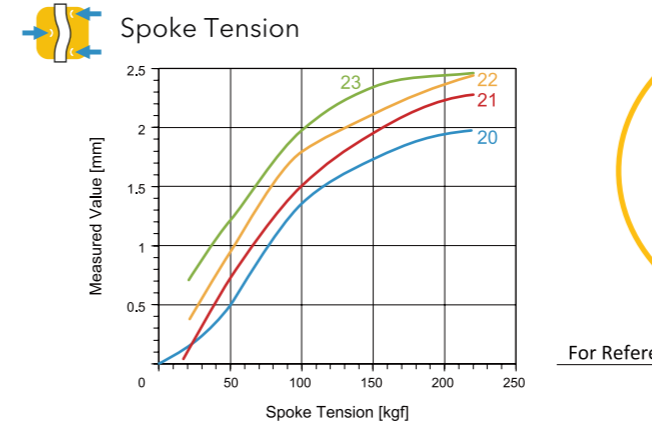
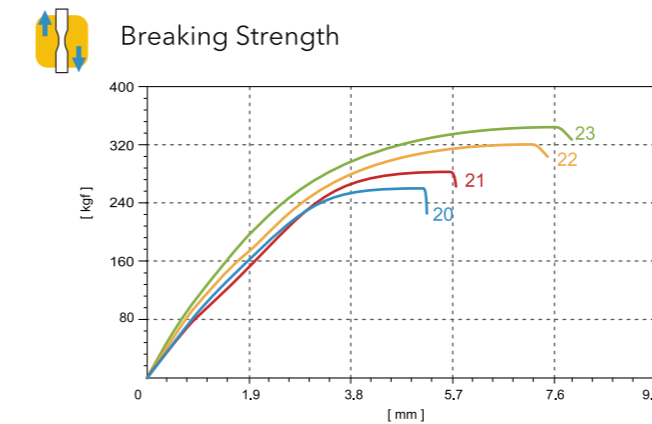
PSR X-TRA

- MATERIAL** T302+
- ADVANTAGE** Pillar patented cold forge with our cold drawn technology. Up to 30% weight saving without compromising strength.
- PATENT** Taiwan: 220417
America: US7181844B2
Europe: 1479532
- THREAD** Rolled (BC 56, DIN 79012)
FG 2.3
- APPLICATION** Race/ MTB/ Down Hill/ Free Ride
- COLOUR** Black



Wing

- MATERIAL** T302+
- ADVANTAGE** Pillar Patented highest level of aerodynamic performance spoke with one-piece & butted design, reduces potential weak spots, helps prevent twisting or breakage when tensioning.
- PATENT** Taiwan: 220417, M538463
America: US7181844 B2
Europe: 1479532
- THREAD** Rolled (BC 56, DIN 79012)
FG 2.3
- APPLICATION** Race
- COLOUR** Black



Model	T	ØD1	W	ØD2	ØD3	α	H	L	Weight (260 mm)	Model	T	ØD1	W	ØD2	ØD3	α	H	L	Weight (260 mm)
PSR X-TRA 1425	9.0 mm	2.2 mm	2.5 mm	1.05 mm	2.0 mm	95°	6.6 mm	180-310 mm	5.7 g	PSR WING 23	9.0 mm	2.2 mm	2.3 mm	1.45 mm	2.0 mm	95°	6.6 mm	180-310 mm	5.7 g
PSR X-TRA 1424	9.0 mm	2.2 mm	2.4 mm	1.05 mm	2.0 mm	95°	6.6 mm	180-310 mm	5.2 g	PSR WING 22	9.0 mm	2.2 mm	2.2 mm	1.40 mm	2.0 mm	95°	6.6 mm	180-310 mm	5.2 g
PSR X-TRA 1422	9.0 mm	2.2 mm	2.2 mm	0.95 mm	2.0 mm	95°	6.6 mm	180-310 mm	4.7 g	PSR WING 21	9.0 mm	2.2 mm	2.1 mm	1.30 mm	2.0 mm	95°	6.6 mm	180-310 mm	4.7 g
PSR X-TRA 1420	9.0 mm	2.2 mm	2.0 mm	0.95 mm	2.0 mm	95°	6.6 mm	180-310 mm	4.3 g	PSR WING 20	9.0 mm	2.2 mm	2.0 mm	1.20 mm	2.0 mm	95°	6.6 mm	180-310 mm	4.3 g

Super Lite

Spoke

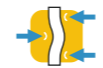
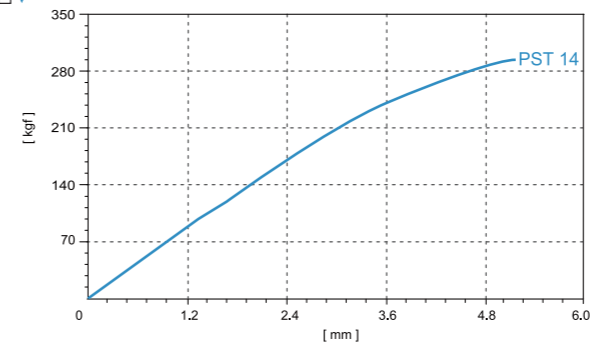
- Ti Standard
- Ti Aero
- Mega Lite SS
- X-TRA Lite Ti

Ti Standard

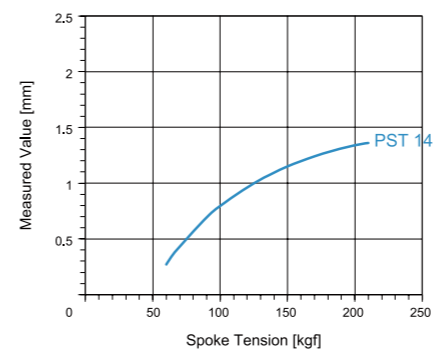
MATERIAL	Titanium
ADVANTAGE	Pillar patented cold forge technology Up to 40% less weight than stainless steel.
PATENT	Taiwan: 220417 America: US7181844B2 Europe: 1479532
THREAD	Rolled (BC 56, DIN 79012) FG 2.3
APPLICATION	Race/ BMX
COLOUR	COLOUR Ti



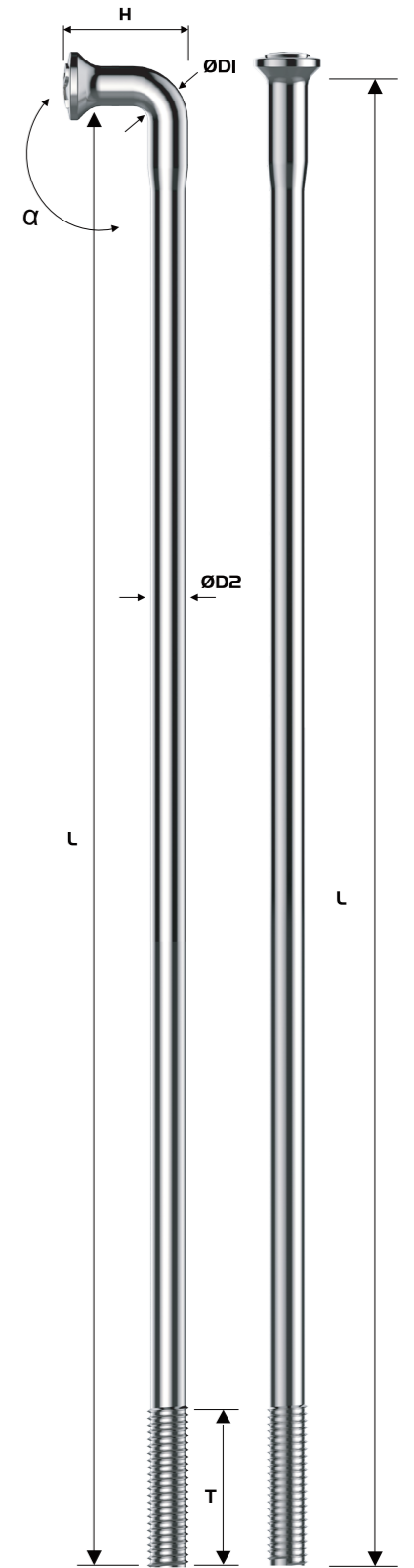
Breaking Strength



Spoke Tension



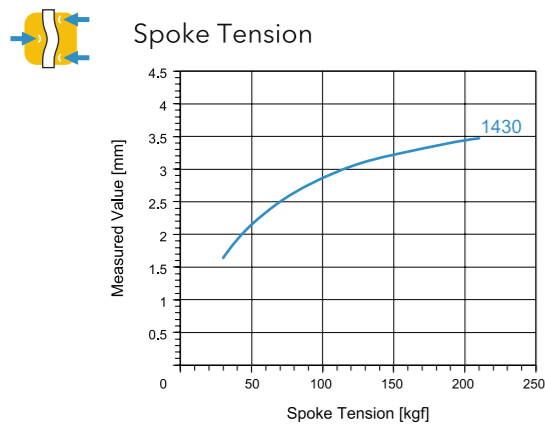
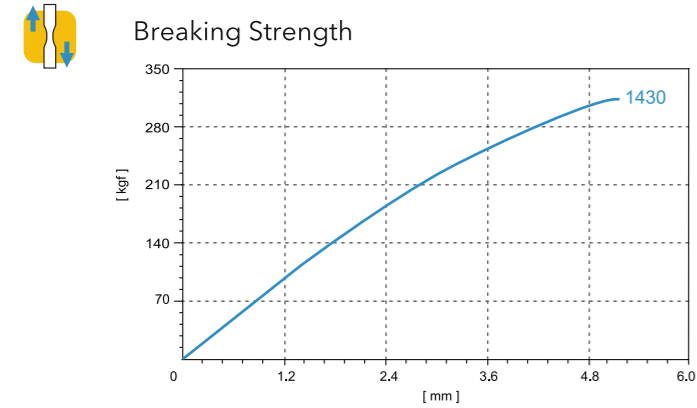
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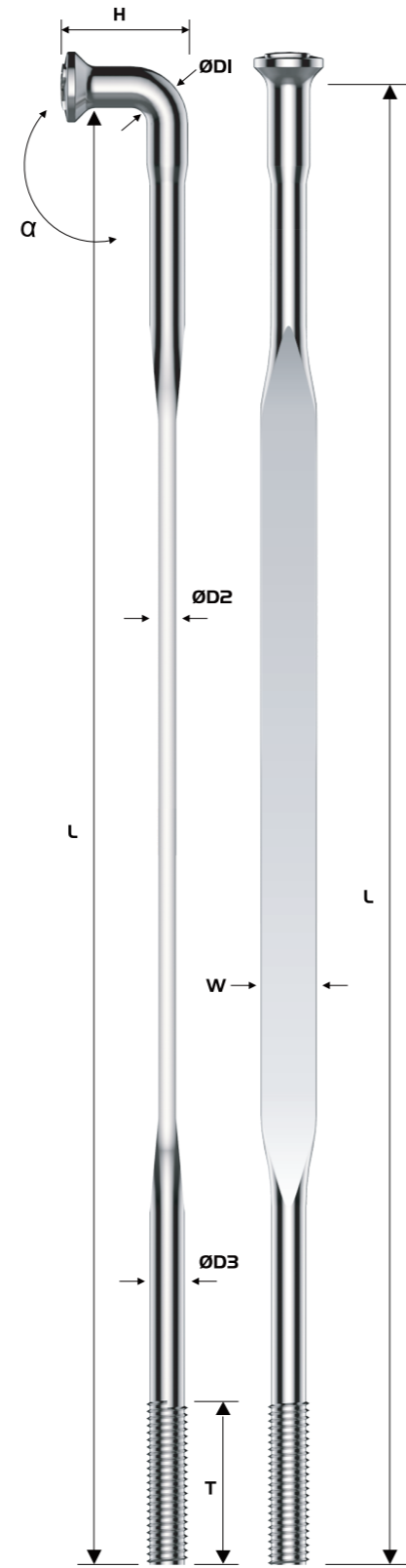
Model	T	ØD1	ØD2	α	H	L	Weight (260 mm)
PST 14	9.0 mm	2.2 mm	2.0 mm	95°	6.6 mm	160-310 mm	4 g

Ti Aero

- MATERIAL** Titanium
- ADVANTAGE** Pillar patented cold forge technology Perfect aero shape, high elasticity and low drag coefficient. Up to 40% less weight than stainless steel.
- PATENT** Taiwan: 220417
America: US7181844B2
Europe: 1479532
- THREAD** Rolled (BC 56, DIN 79012)
FG 2.3
- APPLICATION** Race/ BMX
- COLOUR**

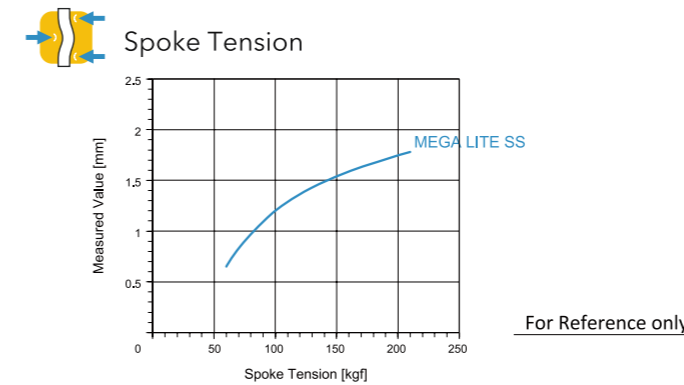
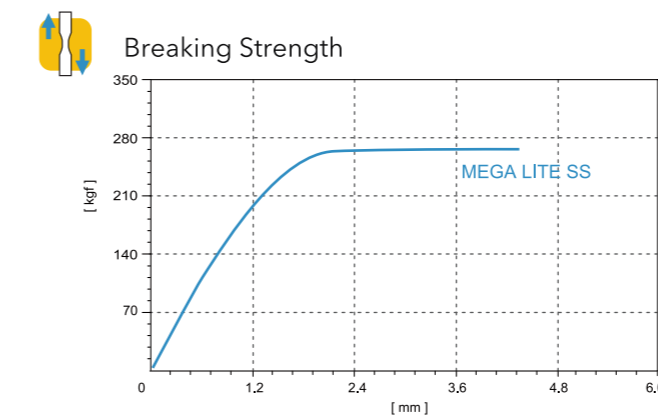


For Reference only

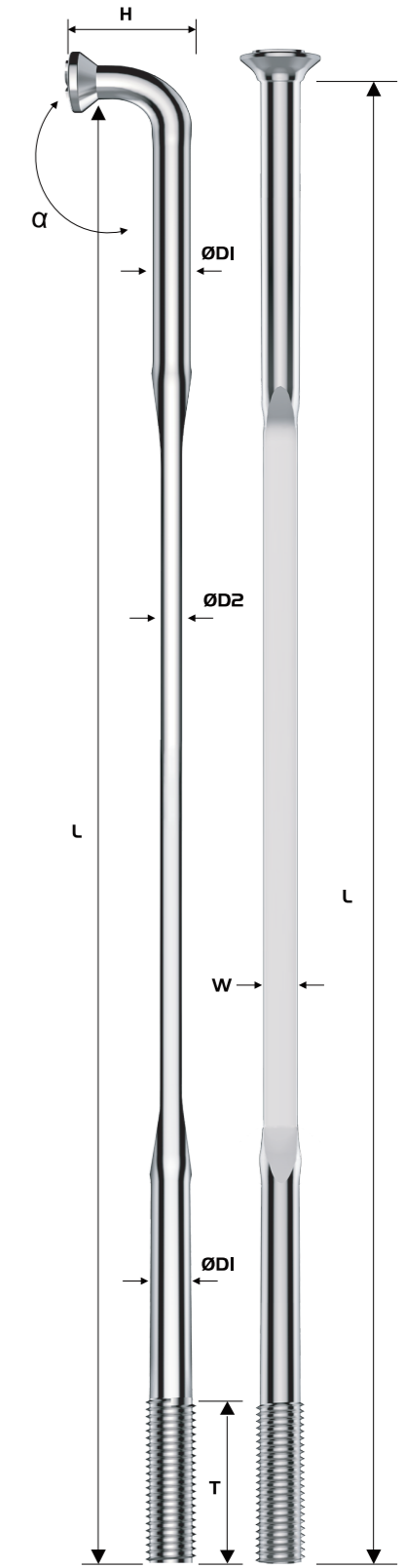


Mega Lite SS

- MATERIAL** Stainless Steel Pro 3
- ADVANTAGE** New Material is offering an amazing 1900N/mm², an increase of over 60% tensile strength compared to other material (1200 N/mm²). Using a new technique for drawing materials developed by Pillar we are able to reduce the diameter from 2.0mm to 1.3mm. This is an amazing **20% lighter** than any other stainless steel spoke in the market.
- THREAD** Rolled (BC 56, DIN 79012)
FG 2.3
- APPLICATION** Race
- COLOUR**



For Reference only



Model	T	ØD1	W	ØD2	ØD3	α	H	L	Weight (260 mm)
PST AERO 1430	9.0 mm	2.2 mm	3.0 mm	1.1 mm	2.0 mm	95°	6.6 mm	160-310 mm	4 g

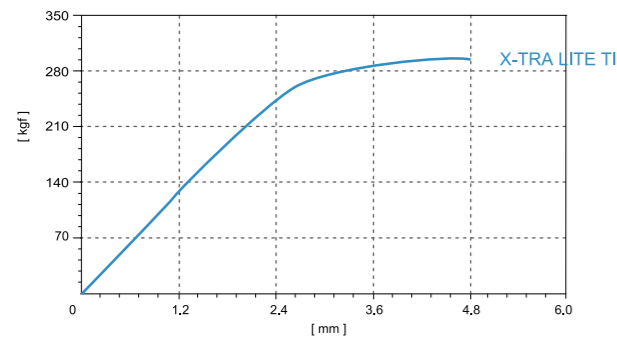
Model	T	ØD1	W	ØD2	α	H	L	Weight (260 mm)
MEGA LITE SS	9.0 mm	2.0 mm	1.7 mm	0.9 mm	95°	6.2 mm	170-310 mm	3.8 g

X-TRA Lite Ti

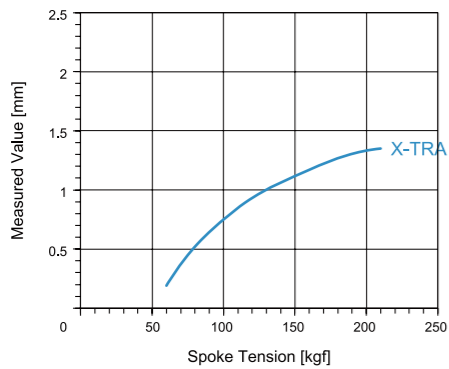
MATERIAL	Titanium
ADVANTAGE	Using the latest technology in specialist drawing techniques, developed exclusively by Pillar we are able to reduce the diameter of the spoke from 2.3mm to 1.45mm. A spoke profile of 2.3/1.45/2.3mm gives you no less than 20% greater fatigue resistance and huge weight savings with a 260mm spoke weighing a meagre 2.6 g.
THREAD	Rolled (BC 56, DIN 79012) FG 2.6
APPLICATION	Race
COLOUR	COLOUR TI



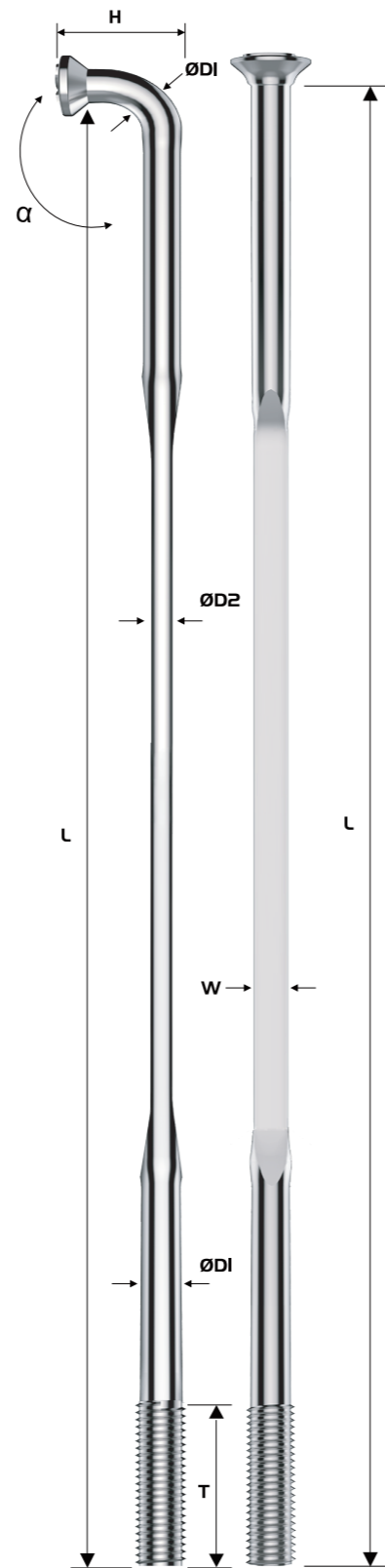
Breaking Strength



Spoke Tension



For Reference only



3 Dimension Force

MATERIAL	T302+
ADVANTAGE	Pillar patented cold forge technology, up to almost 300% more fatigue strength, apply to the J-Bend spoke across the full model spectrum of pillar spokes.
PATENT	Taiwan: M492251, I604968 America: US9481201 B2
THREAD	Rolled (BC 56, DIN 79012) FG 2.3
APPLICATION	E-BIKE/ Heavy Duty/ Down Hill/ Race
COLOUR	Black



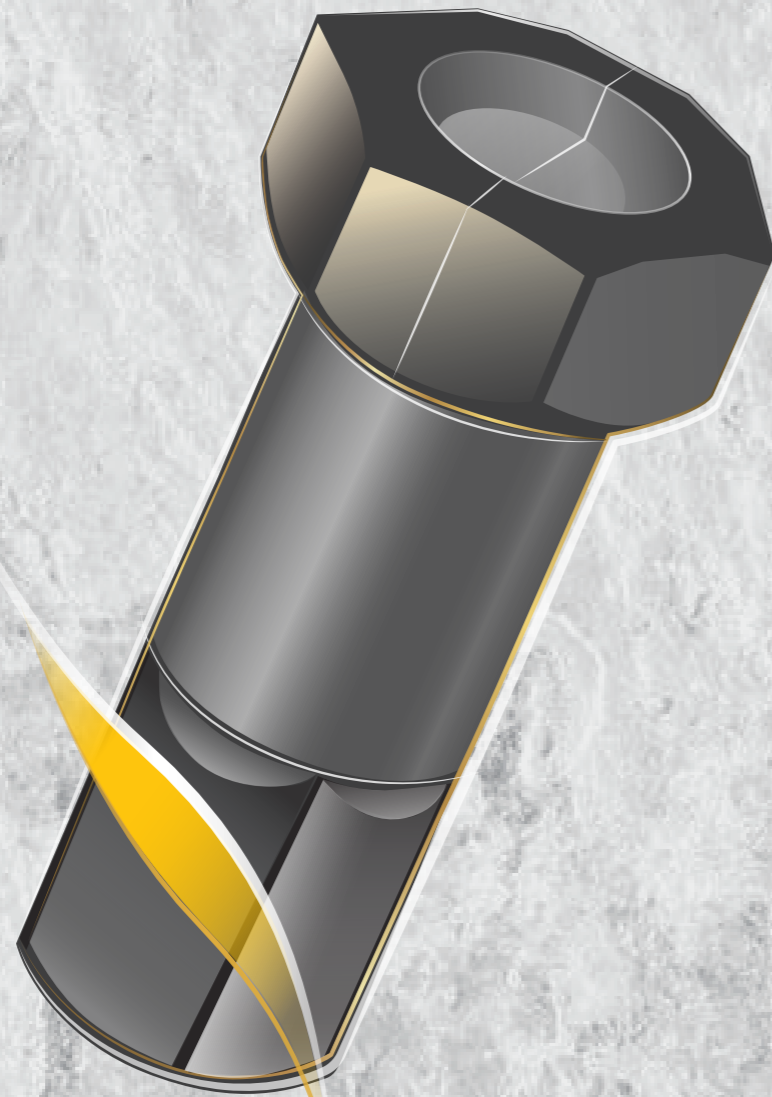
- 3D-PSR 13
- 3D-PSR 14
- 3D-PSR 15
- 3D-PSR X-TRA 1425
- 3D-PSR X-TRA 1424
- 3D-PSR X-TRA 1422
- 3D-PSR X-TRA 1420
- 3D-PSR 2018
- 3D-PSR 2017
- 3D-PSR 2016
- 3D-PSR 2015
- 3D-PSR WING 23
- 3D-PSR WING 22
- 3D-PSR WING 21
- 3D-PSR WING 20
- 3D-PSR AERO 1423
- 3D-PSR AERO 1432
- 3D-PSR AERO 1528

Model	T	ØD1	W	ØD2	α	H	L	Weight (260 mm)
X-TRA Lite-Ti	9.0 mm	2.3 mm	2.0 mm	0.9 mm	95°	7.0 mm	170-310 mm	2.6 g

Nipple

Series

- External Nipple
- TG Nipple
- Internal Nipple



*For reference only.
Please refer to product drawing.

External Nipple

Type	PB 12	PB 13	PB 14	PB 15
Thread	FG 2.9 (12G)	FG 2.6 (13G)	FG 2.3 (14G)	FG 2.0 (15G)
Material	Brass	Brass	Brass	Brass
Length	13, 16	12.5, 14, 16	12, 14, 16	12, 14, 16

Type	PT 734	PT 735
Thread	FG 2.3 (14G)	FG 2.0 (15G)
Material	Alloy Pro 7	Alloy Pro 7
Length	12, 14, 16	12, 14, 16

Type	PB 12 H	PB 13 H	PB 14 H	PB 15H
Thread	FG 2.9 (12G)	FG 2.6 (13G)	FG 2.3 (14G)	FG 2.0 (15G)
Material	Brass	Brass	Brass	Brass
Length	13, 16	12.5, 14, 16	12, 14, 16	12, 14, 16

Type	PT 733 H	PT 734 H	PT 735 H
Thread	FG 2.6 (13G)	FG 2.3 (14G)	FG 2.0 (15G)
Material	Alloy Pro 7	Alloy Pro 7	Alloy pro 7
Length	12.5, 16	12, 14, 16	12, 14, 16

Type	MV14	MV 15	HS 14	HS 15
Thread	FG 2.3 (14G)	FG 2.0 (15G)	FG 2.3 (14G)	FG 2.0 (15G)
Material	Alloy Pro 7	Alloy Pro 7	Alloy Pro 7	Alloy Pro 7
Length	12, 14, 16	12, 14, 16	14, 16	14, 16

Type	DSN 12	DSN 13	DSN 14	DSN 15
Thread	FG 2.9 (12G)	FG 2.6 (13G)	FG 2.3 (14G)	FG 2.0 (15G)
Material	Brass Alloy Pro 7	Brass Alloy Pro 7	Brass Alloy Pro 7	Brass Alloy Pro 7
Length	17	16	14.4, 16, 18	14.4, 16, 18



TG Nipple / Thread Lock System

Type	TG13H	TG14	TG14H
Thread	FG 2.6 (13G)	FG 2.3 (14G)	FG 2.3 (14G)
Material	Brass Alloy Pro 7	Brass Alloy Pro 7	Brass Alloy Pro 7
Length	14	14, 16	14, 16

Internal Nipple / Hidden

Type	Hex 10
Thread	FG 2.3 (14G)
Material	Alloy Pro 7
Length	10



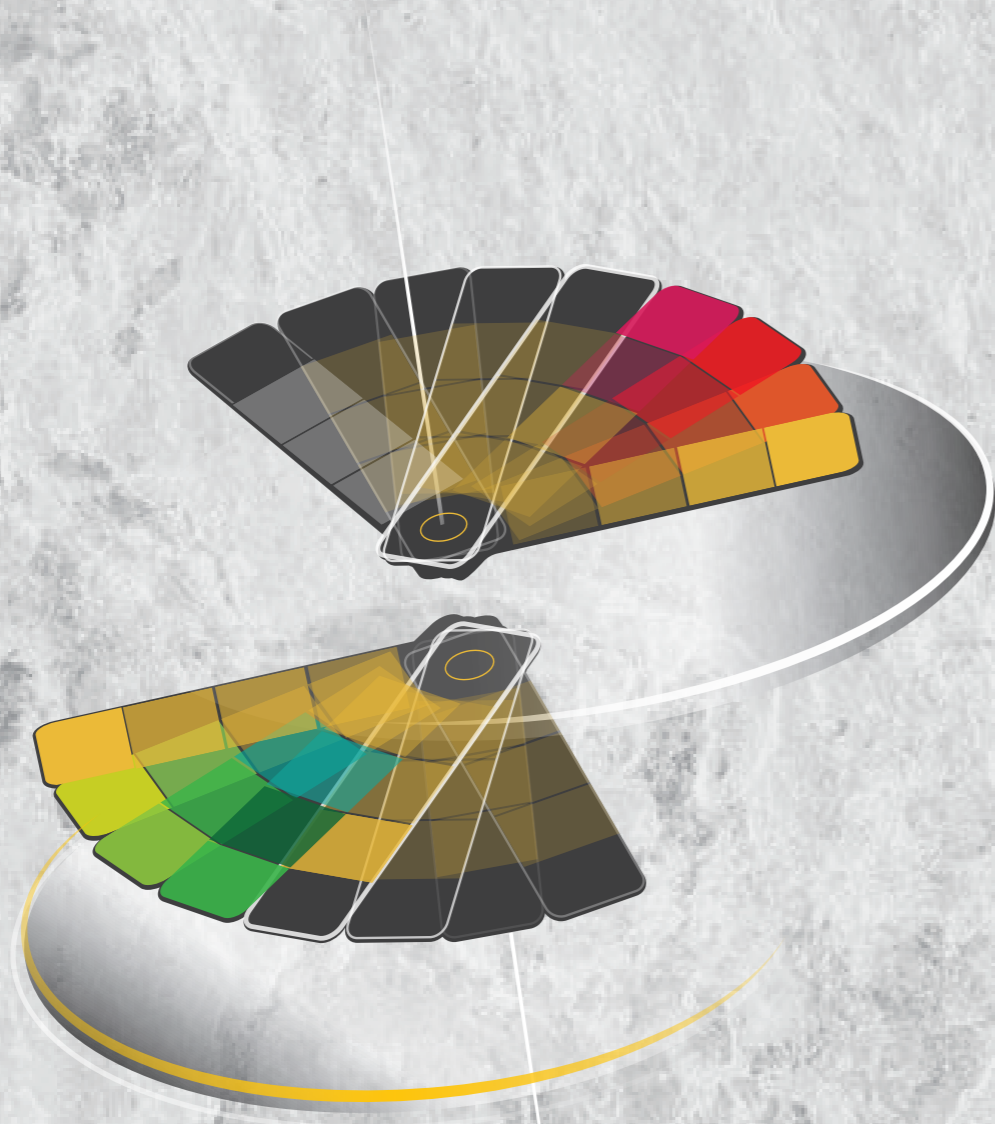
Type	4R14	4R15
Thread	FG 2.3 (14G)	FG 2.0 (15G)
Material	Brass Alloy Pro 7	Brass Alloy Pro 7
Length	10.5	10.5



Colour Series

Tool Accessories

- Nipple
- Spoke



*For reference only.
Please refer to actual product for coloring.

Nipple

Standard Colour / For Brass Nipple



-  Silver
-  Black Oxidation

Anodize Colour / For Alloy Nipple



JY

-  001
-  002
-  003
-  004
-  007
-  010
-  017
-  023
-  024
-  025
-  029
-  037

Spoke

Standard Colour / For Stainless Steel











































-  Silver
-  Black Oxidation

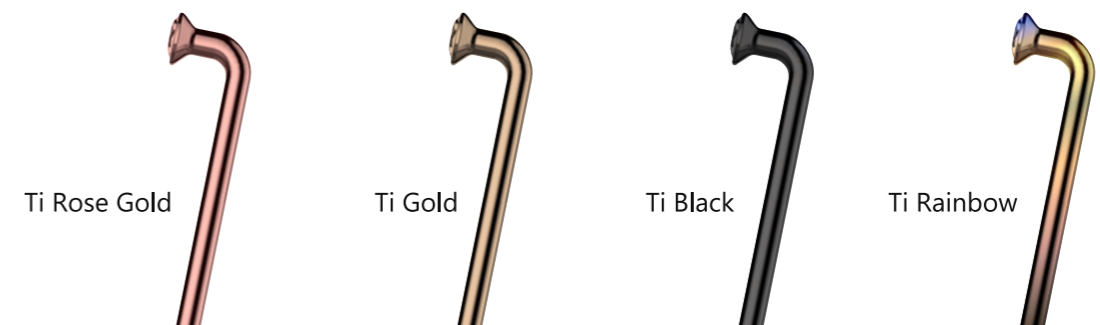
Powder Coating / For Any Material



SD-PC

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Ceramic Nanometer Ti Plating / For Stainless Steel



Ti Rose Gold

Ti Gold

Ti Black

Ti Rainbow

WHEEL TRUING STANDS



SPOKE TENSION GAUGE



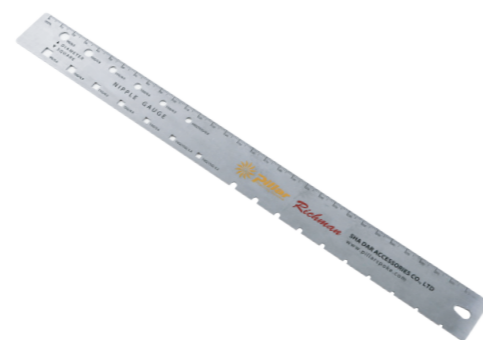
SPOKE TENSION METER



BOX



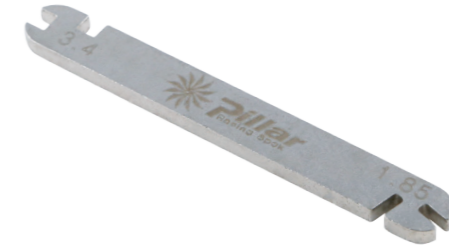
RULER



AERO SPOKE HOLDER



TPS TOOL



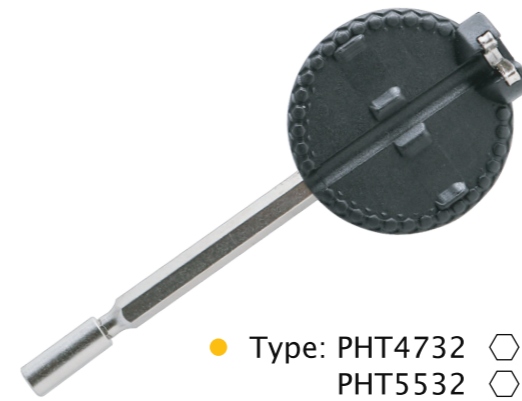
● Type: PHT185

SPOKE WRENCH



● Type: 15G (3.2x3.2)
14G (3.2x3.2)
13G (3.6x3.6)
12G (3.9x3.9)

HAND TOOL



● Type: PHT4732 ◻ 4.7mm
PHT5532 ◻ 5.5mm
PHT3232 ◻ 3.2mm



● Type: PHT1532 ◻ 3.2mm



● Type: PHT4700 ◻ 4.7mm
PHT5500 ◻ 5.5mm
PHT6932 ◻ 3.2mm



● Type: PHT-TG ○ 6.0mm
For TG Nipple

WASHER



For External Nipple
Type: PW 7542



For External Nipple
Type: PW 7048



For Internal Nipple
Type: PW 6035



For Internal Nipple
Type: PW 8630