

RIDEA



**Details make
the difference.**



**Evolve
your ride.**

2022 is a special year for Ridea, we turn 16! To celebrate our 16th anniversary and to head into the future with renovate energies, we have designed a new logo and corporate image to guide us, hopefully for another 16 years.

This year we are also inaugurating a new factory facility adjacent to our current one in the historic town of Lukang (Taiwan). Our cutting-edge machinery and engineering produce components that provide innovative solutions, great performance and no maintenance headaches. We solve problems, so you can focus on the pure joy of riding a bike.

We started our journey in 2006 as a bicycle component manufacturer. On these pages you will find our roots as a road/MTB/single speed bike components manufacturer, but 15 years is a long time and since then we have increased our range to include components compatible with the most prestigious folding bikes and even motorcycles. Do not forget to check them out too!

Welcome to Ridea.

SPONSORSHIPS

Thank you to all our teams and riders for helping us by testing our products in competitions all around the world



MTB



**Soria Puro Oxígeno
by Lapierre**

MTB



Brand ambassador -
Jose Luís Gómez Miranda

MTB



Mónica Plaza

ROAD



Keiko Saika

ROAD



Inteja IMCA Ridea

ROAD



Brand ambassador -
Diego Milán

TRACK



Yota Obara

TRACK



Kouki Hori

TRACK



Shinya Takahashi



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GRIP WITHOUT CREAK

THE PRESS-FIT SITUATION

Noises, manufacturing tolerance issues, installation headaches... Press-Fit is a good concept that sometimes is not executed as well as it should be. The cycling industry has struggled to find a solution for it and some have even given up by returning to classic and trusty threaded systems.

THE GECKO GRIP SOLUTION

Gecko Grip technology solves Press-Fit problems thanks to a clever cup design. The Gecko Grip ring threads itself into the BB cup, while expanding towards the frame's bottom bracket shell in the process. The ring evenly pressures against the frame's BB shell, adapting to it no matter how well, or bad, the frame was manufactured. Unlike threaded-fit solutions, Gecko Grip bottom brackets do not add extra weight to your bike setup.

TAKING CARE OF YOUR FRAME

Gecko Grip bottom bracket installation process is gentler with frame's BB shell area, protecting the carbon fiber of your frame from abrasion and scratches that could potentially reduce the life of your frame.

TAIPEI CYCLE d&i award 2020 winner

Ridea Gecko Grip technology was awarded by the jury of the TAIPEI CYCLE d&i awards 2020 for its innovative solution to issues presented by Press-Fit bottom brackets.



FORGING THE FUTURE

Forged Carbon is an innovative composite with a combination of properties that outperform common materials used in bicycle components. Unlike traditional carbon fiber, Forged Carbon can be precisely shaped and therefore is not limited to simple tubing shapes.

Ridea has already successfully implemented Forged Carbon in parts that suffer great mechanical stress under use, like pulley wheels and bottom bracket cups, proving the incredible resistance of the material. We are currently testing the application of Forged Carbon composite to many other bicycle parts in search for an industry leadership in Forged Carbon composites.

	Aluminum alloy	Plastic	Carbon fiber	RIDEA's Forged Carbon
Vibration reduction	Poor ❌	Very good ✅	Good	Very good ✅
Hardness	Very hard ✅	Soft ❌	Hard	Hard
Weathering resistance	Poor ❌	Good ✅	Coated surface: good Non-coated surface: poor	Good ✅
Tensile strength	Good ✅	Poor ❌	Good ✅	Good ✅
Elasticity	Very poor ❌	Acceptable	Good ✅	Good ✅
Wearing resistance	Acceptable	Poor ❌	Coated surface: good Non-coated surface: poor	Good ✅
Manufacturing tolerance	Good ✅	Acceptable	Poor ❌	Acceptable
Attainable shapes	Complex ✅	Complex ✅	Simple ❌	Complex ✅
Specific gravity (less is better)	2.7 ❌	0.8-1.1 ✅	1.3-1.4	1.3-1.4

✅ best ❌ worse

CNC'S STATE OF THE ART

CHAINRING TECH



Ridea has long been one of the CNC leaders. Our own CNC machinery and expertise design produce what arguably are the best chainrings available, anywhere. In an effort to bring our CNC machining one step ahead, we have developed the new PNEUMA series of products characterized by extreme CNC machining.

To create the new Pneuma series, we got inspired by someone with millions of years of experience: Mother Nature.

Light and strong pneumatic bones are characteristic of some vertebrate lineages. Besides some metabolic functions, pneumatic bones provide great structural support with light weight (think about how light a bird feels in your hand).

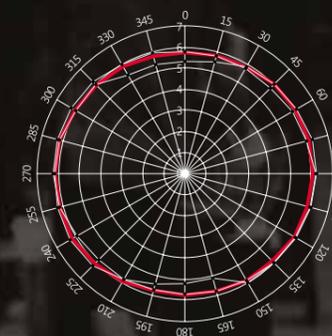
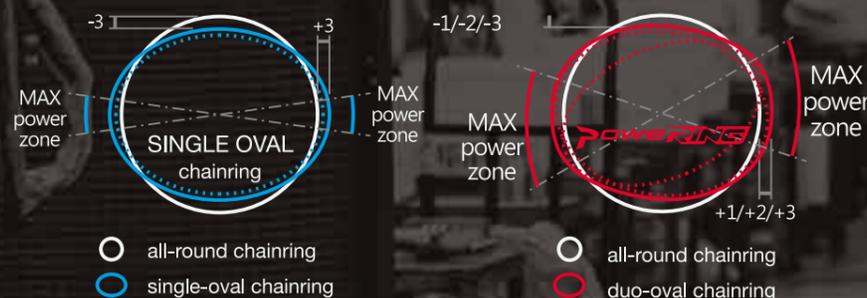
Designed to have the best ratio between strength and weight, PNEUMA represents the summit of Ridea's CNC technology capabilities.

*Pneuma means "breath" and "air".

We have been making chainrings and pulley wheels since our very beginning. We have learned one or two things about it and, as a result, we have developed a set of technologies to complement the high-quality materials and manufacturing process we use.

POWERING DUO-OVAL CHAINRING

The exclusive Duo-Oval profile of Ridea Powering chainrings offers a smooth transition between peak and valley zones in the chainring to offer a smooth pedaling stroke and a faster adaptation for new comers into the oval chainring world. Duo-Oval shape is available in W2T and W3T levels, as well as a WOT for those who prefer a perfectly round chainring.



X-ODON

Narrow-Wide teeth design is available for 1x chainrings and pulley wheels.

LAMIFLOW

Aerodynamism, lightness and stiffness in one chainring.

TI-CAST

Hardener titanium coating available for chainrings and pulleys for even more kilometers of riding, in style.

ICONOGRAPHY



Component for road



Component for gravel



Component for mountain



Component for single speed
Component for track



Round chainring



Level 2 duo-oval chainring



Level 3 duo-oval chainring



Narrow Wide Teeth design



Spider Power Meter 2-legs



Applies to W2T and W3T chainrings



Pneuma series



Gecko Grip Forged Carbon BB



Elite series



Forged Carbon threaded BB



Lightweight series



OverSized Pulley Wheel Plus Evolved



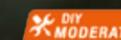
Lami:Flow chainring design



Mass Moment of Inertia over regular size pulleys



Turbulent:Flow chainring design



Installation difficulty level



Full-Flow chainring design



Maximum recommended rim size



POWER METERS

SPM2 POWER METER SPIDER

Why a power meter spider?

The spider is the most logical part of the crankset system to place a power meter because it does not affect the structural integrity of the crankset or compromise the design of other key parts of the system, while allowing precise power measurements for both legs with just one measurement device.

MODULAR DESIGN

Thanks to the modular design of the Pneuma cranksets, you can easily switch between SPM2 spiders and non-power meter spiders accordingly to your needs.

CHARGE AND RIDE

The Auto Zero Offset technology of SPM2 auto-calibrates the power meter without the need of user intervention. Zero problems, zero time wasted, total precision.

SPM2 & POWERING

Combine the benefits of Duo-Oval Powering chainrings and power meter training to eliminate dead spots in your pedal stroke and take full advantage of the data analysis provided by SPM2.



Leg measurement	Both legs
Gauges	Four
Accuracy	±1.5 %
Power range	0 – 2000 W
Cadence range	30 – 200 rpm
Calibration	Auto Zero Offset
Weather sealing	IPX6
BaPery	120 hours
Temperature range	-20 – 50 °C
Connectivity	ANT+™ and Bluetooth® LE
Spider mount positions	0° (standard position); +10° (climbing); -10° (rouleur)

PRO ROAD POWER METER



SPM2 PN R491

BCD	Spindle	Chain line	Crank length (24 - 29)	Weight*	Chainrings
110 mm 4 arms	24 mm 29 mm	44,5 mm	140 / 145 / 150 / 155 / 160 / 165 / 167.5 / 170 / 172.5 / 175 / 180 mm	519 g	Lami-Flow R491 (1x & 2x)

*170 mm crank arm; 24 mm, Tl64 spindle; without chainring

SUB-COMPACT POWER METER



SPM2 PN GR4C

BCD	Spindle	Chain line	Crank length (24 - 29)	Weight*	Chainrings
110/96 mm 4 arms	24 mm 29 mm	44,5 mm	140 / 145 / 150 / 155 / 160 / 165 / 167.5 / 170 / 172.5 / 175 / 180 mm	523 g	Lami-Flow GR4C (1x & 2x)

*170 mm crank arm; 24 mm, Tl64 spindle; without chainring

XC & AM POWER METER

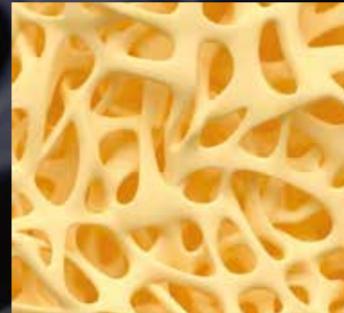


SPM2 PN MSH1

BCD	Spindle	Chain line	Crank length (24 - 29)	Weight*	Chainrings
96 mm 4 arms	24 mm 29 mm (Standard, Boost or Super Boost)	52 / 55 / 56,5 mm	160 / 165 / 170 / 175 mm	520 g	Powering MSH1 (1x)

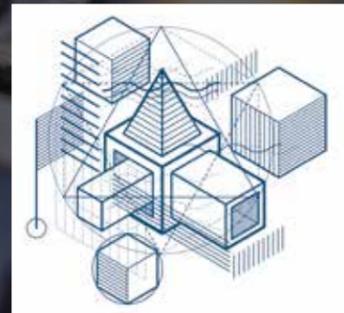
*170 mm crank arm; 24 mm, Tl64 spindle; without chainring

PNEUMA CRANKSETS



INSPIRED BY NATURE

Pneumatic bones paved the road to the skies for birds and pterosaurs. We do not want you to take off with your bicycle, but we do hope you'll feel a bit of the freedom that they feel while flying.



MODULAR SYSTEM

The modular nature of Pneuma cranksets means that almost every part of the system can be easily swapped. This allows riders to create custom combinations to adapt their cranksets to their different needs.



LOW TORQUE INSTALLATION

Pneuma cranksets require lower installation torques. Less torque means less material stress for a more durable crankset. Not to mention an easier installation.



3 SPIDER-CHAINRING POSITIONS

The spider can be installed at 3 different angles to match different pedaling styles and biometrics. Your Duo-Oval Powering chainrings will boost your pedal strokes just where you need it.

PRO ROAD CRANKSET



PN R491

BCD	Spindle	Chain line	Crank length (24 - 29)	Weight*	Chainrings
110 mm 4 arms	24 mm 29 mm	44,5 mm	140 / 145 / 150 / 155 / 160 / 165 / 167.5 / 170 / 172.5 / 175 / 180 mm	454 g	Lami-Flow R491 (1x & 2x)

*170 mm crank arm; 24 mm, Tl64 spindle; without chainring

SUB-COMPACT CRANKSET



PN GR4C

BCD	Spindle	Chain line	Crank length (24 - 29)	Weight*	Chainrings
110/80 mm 4 arms	24 mm 29 mm	44,5 mm	140 / 145 / 150 / 155 / 160 / 165 / 167.5 / 170 / 172.5 / 175 / 180 mm	460 g	Lami-Flow GR4C (1x & 2x)

*170 mm crank arm; 24 mm, Tl64 spindle; without chainring

TRACK CRANKSET



PN ITTT

BCD	Spindle	Chain line	Crank length (24 - 29)	Weight*	Chainrings
144 mm 5 arms	24 mm 29 mm	44,5 mm	140 / 145 / 150 / 155 / 160 / 165 / 167.5 / 170 / 172.5 / 175 / 180 mm	487 g	Lami-Flow Turbulent-Flow Full-Flow

*170 mm crank arm; 24 mm, Tl64 spindle; without chainring

XC & AM CRANKSET



PN MSH1

BCD	Spindle	Chain line	Crank length (24 - 29)	Weight*	Chainrings
96 mm 4 arms	24 mm 29 mm (Standard, Boost or Super Boost)	52 / 55 / 56,5 mm	160 / 165 / 170 / 175 / 177.5 mm	452 g	Powering MSH1 (1x)

*170 mm crank arm; 24 mm, Tl64 spindle; without chainring

ES: TOUGHEST RIDEA CRANKS



LIGHT AND ROBUST
CRANKS TO RIDE
FOR MANY YEARS



ES R491

BCD	Spindle	Chain line	Crank length	Weight*	Chainrings
110 mm 4 arms	24 mm	44 mm	145 / 150 / 155 / 160 / 165 / 167.5 / 170 / 172.5 / 175 / 177.5 / 180 mm	498 g	Lami-Flow R491 (1x & 2x)

*170 mm crank arm; T164 spindle; without chainring



ES A5TT

BCD	Spindle	Chain line	Crank length	Weight*	Chainrings
144 mm 5 arms	24 mm	44 mm	165 / 167.5 / 170 / 172.5 / 175	545 g	Lami-Flow Turbulent-Flow Full-Flow

*170 mm crank arm; T164 spindle; without chainring

CHAINRINGS



ROAD CHAINRINGS

POWERING
DUO-OVAL CHAINRING



LF R491



LF GR4C

LF R491

BCD	Compatibility	2x double chainring			1x single chainring				
		WDT	W2T	W3T	WDT	W2T	W3T	W2T (inset 3 mm)	W3T (inset 3 mm)
110 mm 4 arms	Pneuma, IT and ES cranks with R491 spiders. Shimano®	50/34; 52/36; 53/39; 56/44	48/32; 50/34; 52/36; 53/39	50/34; 52/36; 53/39	38; 40; 42; 44; 46; 48; 50; 52; 54; 56	34; 36; 38; 40; 42; 44	46; 48; 50; 52; 54; 56	42; 44	46; 48; 50

X-ODON

LF GR4C

BCD	Compatibility	2x double chainring		1x single chainring	
		WDT	W2T	WDT	W2T
110/80 mm 4 arms	Pneuma cranks with R491 spiders. Shimano® GRX	46/30	46/30	38; 40; 42	38; 40; 42

X-ODON

SINGLE SPEED CHAINRINGS TRACK



FF T5TT



LF T5TT



TF T5TT

TF T5TT

BCD	Compatibility	1x single chainring
144 mm 5 arms	Pneuma, IT and ES cranks with ITTT & T5TT spiders	WDT 47; 48; 49; 50; 51; 52; 53; 54; 55; 56; 57; 58; 59; 60; 61; 62; 63; 64; 65; 66; 67; 68; 69; 70

LF T5TT

BCD	Compatibility	1x single chainring
144 mm 5 arms	Pneuma, IT and ES cranks with ITTT & T5TT spiders	WDT 47; 48; 49; 50; 51; 52

FF T5TT

BCD	Compatibility	1x single chainring
144 mm 5 arms	Pneuma, IT and ES cranks with ITTT & T5TT spiders	WDT 46; 47; 48; 49; 50; 51; 52

MTB CHAINRINGS



LS MSH1



LS M4S1

LS MSH1

BCD	Compatibility	X-ODON 1x single chainring	
96 mm 4 arms	Pneuma cranks with MSH1 spiders. Shimano®	WDT 32; 34; 36	WET 30; 32; 34; 36; 38; 40

LS M4S1

BCD	Compatibility	X-ODON 1x single chainring	
104 mm 4 arms	Older ES cranks with M4S1 spiders	WDT 32; 34; 36; 38	WET 34; 36; 38; 40; 44; 48

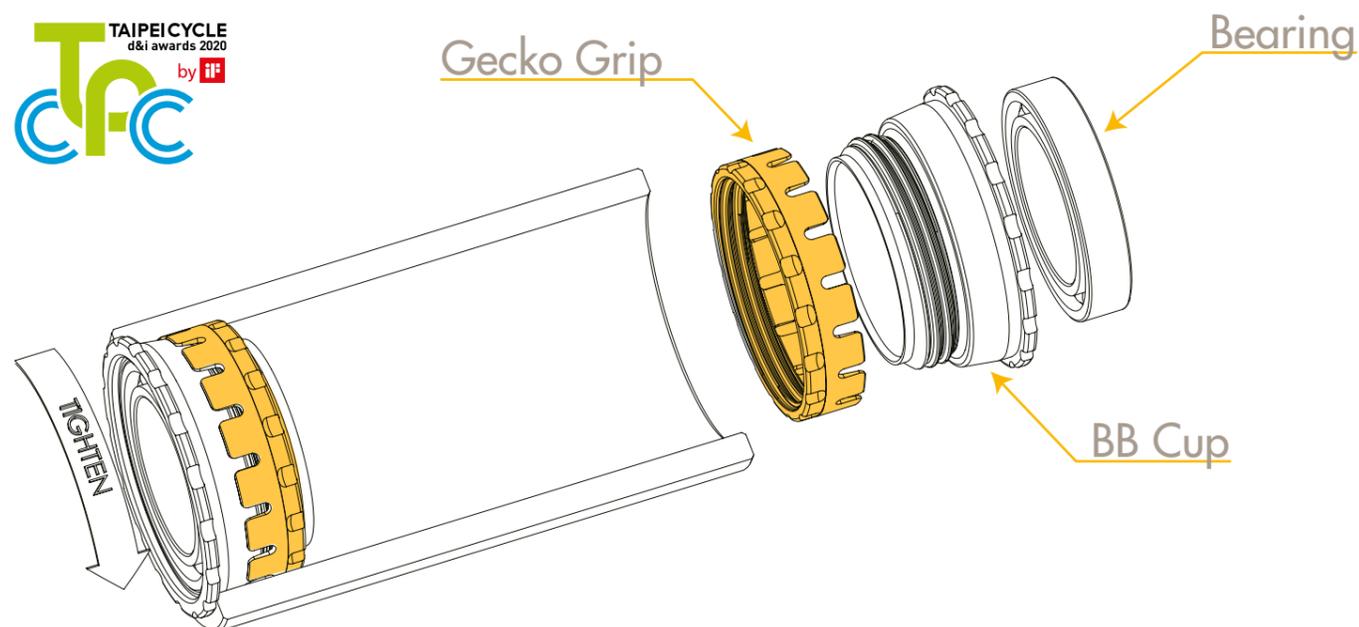
BOTTOM BRACKETS



Ridea bottom brackets represent the summit of our best technology developments. Gecko Grip (for press-fit systems only) have been awarded by the experts and Forged Carbon material has proven excellent properties in high demanding components like pulley wheels. These two technologies make the 6CBB line the most innovative series of bottom brackets in the market.

6CBB Gecko Grip winner of a TAIPEI CYCLE d&i award 2020

Ridea 6CBB Gecko Grip bottom brackets were awarded by the jury of the TAIPEI CYCLE d&i awards 2020 for solving issues with Press-Fit BBs, allowing an installation similar to threaded BBs using regular tools in a lightweight and weather resistant design.



RIDEA BB Tools

Our components are cleverly designed to require lower torque than other designs. PBB386/86-ER BB tool has been designed to match our torque and material specifications to protect your Ridea components during installation and maintenance services.

Tool Model	Material	Size (Double Sided)	Tighten With	Maximum Torque	Ideal For
PBB ER A	Alloy 7075	16-notch 44 mm OD 16-notch 49 mm OD	10 mm Hex Wrench	50 N.m	Alloy BB Cups Pneuma Cranksets
PBB ER C	Forged Carbon		10 mm Hex Wrench	35 N.m	6CBB Cups Pneuma Cranksets
PBB ER S	Stainless Steel		Hand Turn		Alloy BB Cups



P/N: PBB ER A



P/N: PBB ER C



P/N: PBB ER S

Double sided BB tool compatible with 16 notches 44/49 mm BB cups, including all Ridea bottom brackets. Tighten with a 10 mm hex wrench.

PBB ER S is a double sided 16-notch 44 mm OD cups and 16-notch 49 mm OD cups made of carbon steel. It provides a higher leverage for higher torque applications.



CN B3024



CN BSA 24

Gecko grip

Frame	P/N	Specification (mm)	Weight (g)	Spindle Ø	Bearings
BB86	CN B86 24	Ø41 L 86.5/91.5	60	24	6805 ceramic balls
BB30	CN B30 24	Ø42 L 68	80		
	CN B30 30	Ø42 L 68/73	76	24/25/29/30	6806 ceramic balls
BB30A	CN B3A 24	Ø42 L 73	76	24	6805 ceramic balls
BB386	CN 386 30	Ø46 L 68	73	30 (For BB30 CRANKSET)	6806 ceramic balls
		Ø46 L 86.5/91.5	73		
PF30	CN F30 30	Ø46 L 68	88	24/25/29/30	6806 ceramic balls
PF30A	CN F3A 30	Ø46 L 73	84		
BB Right	CN BBR 30	Ø46 L 79	80		

Frame	P/N	Specification (mm)	Weight (g)	Spindle Ø	Bearings
BSA	CN BSA 24	1.37x24 L 68/73	68	24	6805 ceramic balls
T47	CN 47A 30	M47x1 L86.5/91.5	71	24/25/29/30	6806 ceramic balls
	CN 47B 30	M47x1 L68	86		
	CN 47C 30	M47x1 L73	84		
	CN 47D 30	M47x1 L79	80		

Press Fit - Metal



LS B30 30

Threaded - Alloy



LS BSA 30

Center threaded

Frame	P/N	Specification (mm)	Weight (g)	Spindle Ø	Bearings
BB86	LS B86 24	Ø41 L 86.5/91.5	80	24	6805 ceramic balls
	RS B86 30		78	29/30	steel balls (Shell & Bearing All In One)
BB386	LS 386 30	Ø46 L 86.5/91.5	87	24/25/29/30	6806 ceramic balls
BB30	LS B30 30	Ø42 L 68	105		
PF30	LS F30 B3	Ø46 L 68	100	30 (For BB30 CRANKSET)	
	LS F30 30		130	24/25/29/30	

Frame	P/N	Specification (mm)	Weight (g)	Spindle Ø	Bearings
BSA	RS BSA 24	1.37x24 L 68/73	98	24	6805 steel balls
	LS BSA 24		87	24	6805 ceramic balls
	LS BSA 30		88	24/25/29/30	6806 ceramic balls
ITA	LS ITA 24	M36x24 L70	100	24	6805 ceramic balls
	LS ITA 30		92	24/25/29/30	6806 ceramic balls

OSPW *evo*



SUPERIOR
ENGINEERING
TO OPTIMIZE YOUR
DRIVETRAIN

OSPW*evo*





OSPW *evo* E60

UPPER PULLEY 16T
LOWER PULLEY 20T

inertia
x7.1

Cage material	Pulley material	Guide pulley	Tension pulley	X-ODON	Bearings	Inertia	Warranty
Forged Carbon	Forged Carbon	16t	20t	Yes	Full ceramic #699	x7.1	4 years

SHIMANO



RD6 E60
DURA-ACE R91XX/R92XX
ULTEGRA R80XX/R81XX



RD1 E60
DURA-ACE 7900/90XX
ULTEGRA 6700/68XX



RD7 E60
105 R7000



RD2 E60
105 5700/5800
TIAGRA 4600/4700



DIY MODERATE

SRAM



RD9 E60
RED eTap AXS
FORCE AXS



RD5 E60
RED eTap



RD3 E60
RED
RIVAL
FORCE
APEX



DIY MODERATE

CAMPAGNOLO



RD8 E60
SUPER RECORD/RECORD 12x2



RD4 E60
SUPER RECORD / RECORD / CHORUS
SUPER RECORD EPS / RECORD EPS



DIY MODERATE



OSPWevo F60

UPPER PULLEY 16T
LOWER PULLEY 20T

inertia
x7.1

Cage material	Pulley material	Guide pulley	Tension pulley	X-ODON	Bearings	Inertia	Warranty
Full cage 3K carbon	Forged Carbon	16t	20t	Yes	Full ceramic #699	x7.1	4 years

SHIMANO



RD6 F60
DURA-ACE R91XX/R92XX
ULTEGRA R80XX/R81XX



RD1 F60
DURA-ACE 7900/90XX
ULTEGRA 6700/68XX



RD7 F60
105 R7000



RD2 F60
105 5700/5800
TIAGRA 4600/4700



DIY MODERATE

SRAM



RD9 F60
RED eTap AXS
FORCE AXS



RD5 F60
RED eTap



RD3 F60
RED
RIVAL
FORCE
APEX



DIY MODERATE

CAMPAGNOLO



RD8 F60
SUPER RECORD/RECORD 12x2



RD4 F60
SUPER RECORD / RECORD / CHORUS
SUPER RECORD EPS / RECORD EPS



DIY MODERATE



OSPWevo

E48

UPPER PULLEY 14T
LOWER PULLEY 18T

inertia
X4.34

Cage material	Pulley material	Guide pulley	Tension pulley	X-ODON	Bearings	Inertia	Warranty
Forged Carbon	Forged Carbon	14t	18t	Yes	Full ceramic or ceramic ball	x4.34	2 years

SHIMANO



MD6 E48

XTR M9100
XT M8100
SLX M7100



DIY MODERATE



MD1 E48

XTR M9000
XT M8000
SLX M7000



MD2 E48

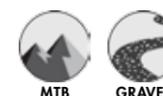
XTR M986
XT M786
SLX M675

SRAM



MD7 E48

XX1 EAGLE AXS
X01 EAGLE AXS



DIY MODERATE



MD3 E48

FORCE 1
RIVAL 1
APEX 1
1X12 NX/GX/X01/XX1 EAGLE



MD4 E48

1x11 NX/X1/X01/XX1



MD5 E48

2x11 GX

SHIMANO



CD1 E48

ULTEGRA RX



DIY MODERATE



CD2 E48

GRX (RD-RX810)
(RD-RX815)



MD1 E48/E28

FORCE 1
RIVAL 1
APEX 1
1X12 NX/GX/X01/XX1 EAGLE
GRX (RD-RX812)
(RD-RX815)

SHIMANO



RD6 C26
DURA-ACE R91XX/R92XX
ULTEGRA R80XX/R81XX



ROAD



RD1 C26
DURA-ACE 7900/90XX
ULTEGRA 6700/68XX



RD7 C26
105 R70XX



RD2 C26
105 5700/5800
TIAGRA 4600/4700

SRAM



RD3 C26
RED
RIVAL
FORCE
APEX



ROAD



OSPW ACCESSORIES

OSPW+ BRACKET EXTENDERS ENSURE CRISP SHIFTING PERFORMANCE EVEN WITH EXTREME GEAR COMBINATIONS AND INCREASE CLEARANCE WITH THE BIGGEST COGS.



RDHL22



RDHL28



RDHL20

OSPW^{evo} C26

UPPER PULLEY 12T
LOWER PULLEY 16T

inertia
x2.4

Cage material	Pulley material	Guide pulley	Tension pulley	X-ODON	Bearings	Inertia	Warranty
3K carbon	Forged Carbon	12t	16t	No	Full ceramic or ceramic ball	x2.4	2 years

	RDHL20	RDHL22	RDHL28
Extension (mm)	20/23/27/31	22	28
Compatibility	OSPW+ RD1/2/3/4/5/8/9 (all versions)	OSPW+ RD1/2/3/4/5/8/9 (all versions)	OSPW+ RD6/7 MD1/2/6 CD1/2 (all versions)



LAPIERRE

PNEUMA BRAKE CALIPERS ARE TRUE AMBASSADORS OF OUR BEST CNC.



Pneuma IT

Mount	Arm Material	Bolt Material	Weight (w shoes)	Max. rim width
Standard Single Bolt	CNC AL 7075	Titanium	228 g	27 mm

GREAT PERFORMANCE MID-RANGE BRAKES



CB3D

Futura Std	Arm Material	Bolt Material	Weight (w shoes)	Max. rim width
Standard Single Bolt	CNC AL 7075	Titanium	230 g	25 mm

BEST VALUE FOR YOUR MONEY



CB2D

Mount	Arm Material	Bolt Material	Weight (w shoes)	Max. rim width
Standard Single Bolt	Forged AL 6066	Titanium or SUS	250 g	22 mm

ERGONOMIC BRAKE LEVER



TH

Lever grip	Material	Bolt Material	Weight (pair)	Bar diameter
Smooth	CNC AL 7075	Titanium	90 g	22.3; 25.4; 31.8 mm

EXTRA GRIP LEVER



TH2

Lever grip	Material	Bolt Material	Weight (pair)	Bar diameter
Rugged	CNC AL 7075	Titanium	90 g	22.3; 25.4; 31.8 mm

TRACK HUBS



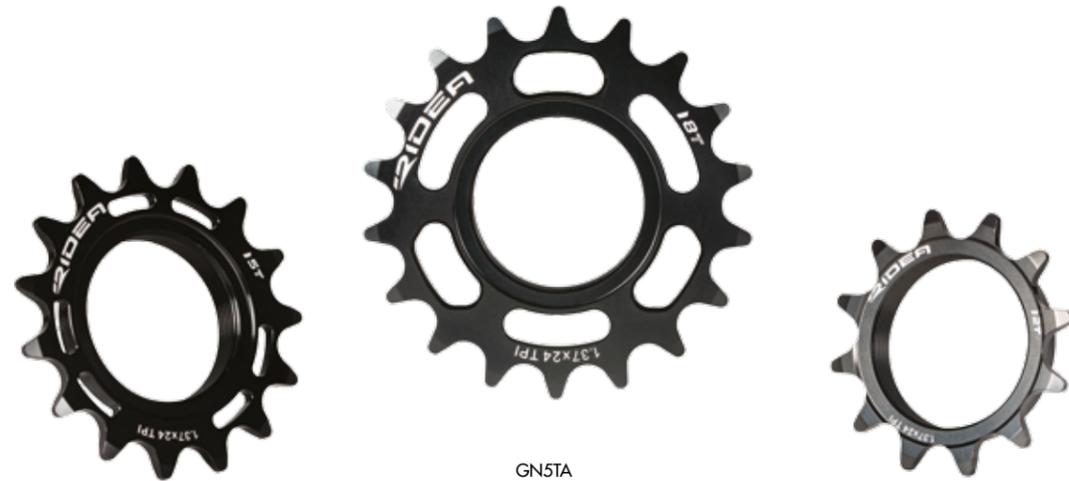
HT1



HT2

**HT1
HT2**

Axle width (F/R)	Spoke count (F/R)	Spoke installation	Wheel installation (F/R)	Bearings	Weight
100/120 mm	20H/24-28-32H	J-bend	Bolt-on/Bolt-on	ceramic or steel	390 g
100/120 mm	20H/24-28-32H	J-bend	QR/Bolt-on	ceramic or steel	320 g



GN5TA



GN5TS

GN5TA GN5TS

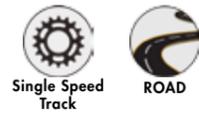
Material	Thread	Chain roller width	Teeth
CNC AL7075	1.27 x 24 TPI (left threaded)	1/8"	12 to 27
Steel	1.27 x 24 TPI (left threaded)	1/8"	12 to 20



Model	Axle length ^{1,2,3} (mm)	Axle diameter (mm)	Metric screw thread
#BTA111	115-121	12	M12-1 x 15
#BTA112	123-129	12	M12-1 x 15
#BTA116	163-169	12	M12-1 x 15
#BTA117	171-177	12	M12-1 x 15
#BTA202	120-126	12	M12-1.5 x 15
#BTA204	146-152	12	M12-1.5 x 15
#BTA205	154-160	12	M12-1.5 x 15
#BTA206	162-168	12	M12-1.5 x 15
#BTA207	172-178	12	M12-1.5 x 15
#BTA311	119-125	12	M12-1.75 x 20
#BTA316	163-169	12	M12-1.75 x 20
#BTA308	174-180	12	M12-1.75 x 20
#BTA309	192-198	12	M12-1.75 x 20
#BTA414	143-147	15	M14-1.5 x 15
#BTA415	153-157	15	M14-1.5 x 15
#BTA512	123-127	15	M15-1.5 x 15
#BTA504	146-150	15	M15-1.5 x 15
#BTA505	156-160	15	M15-1.5 x 15

1: Axle length adjustable, with a spacer, within the given range by 2 mm intervals.
 2: Choose the spacer that provides the closest length to the original axle length.
 3: Compatible with original axles up to 1 mm longer or shorter than the given range. Example #BTA206 (162-168) is compatible with axle lengths from 161 to 169 mm.

FRONT DERAILLEUR SPACERS



FDTD3



FDTDW4



FDDET3



FDDEW4



FDUET6

Model	Function
FDTD3	Offset displacement of 3 mm from original position
FDTDW4	Displacement of ± 4 degrees from original position
FDDET3	Downwards displacement of 13 mm with an offset displacement of 3 mm from original position. Note: FDDET3 is not compatible with electronic derailleurs.
FDDEW4	Downwards displacement of 13 mm and 4 degrees from original position. Note: FDDEW4 is not compatible with electronic derailleurs.
FDUET6	Downwards or upwards displacement of 10 mm with 6 mm of offset displacement from original position

GRIP



HGRE3



HGRE1



HGRE2

Model	Rubber length	Weight / Set	Pattern
HGRE1	105 mm	117 g	Diamond
HGRE2	105 mm	117 g	Ergo-hump
HGRE3	105 mm	160 g	Mecha-Ergo

CHAINRINGS BOLTS



STEM



TQXG-R5



TQAS-R5



TQSS-R5



TQXG-R8



TQAS-R8



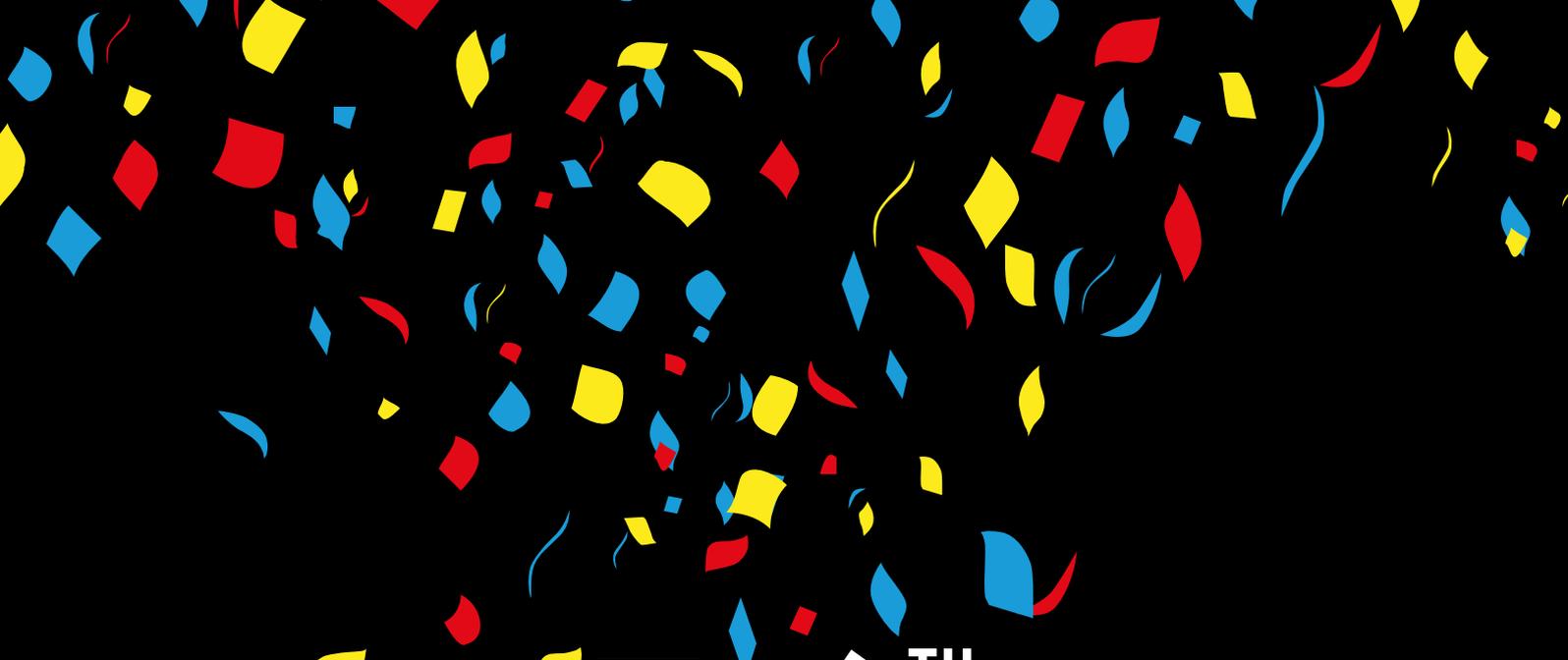
TQSS-R8



Model	Thread length	No. of chainrings	Male material	Female material
TQXG-R5	5 mm	1	AL 7075	AL 7075
TQAS-R5	5 mm	1	AL 7075	SUS
TQSS-R5	5 mm	1	SUS	SUS
TQXG-R8	8 mm	2	AL 7075	AL 7075
TQAS-R8	8 mm	2	AL 7075	SUS
TQSS-R8	8 mm	2	SUS	SUS

SMTT1

Length	Angle	Diameter	Steerer size	Weight
70, 80, 90, 100, 110 mm	70° (70-90 mm) or 73° (100-110 mm)	31.8 mm	1 1/8"	191 g (90 mm)



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