

XTR M9100

14-15.11.2018

The XTR logo is rendered in a bold, white, italicized sans-serif font. The 'X' is formed by two thick, parallel strokes that meet at a sharp point. The 'T' is a single, thick vertical stroke. The 'R' is composed of a thick vertical stroke and a curved, italicized arm that extends to the right. The logo is centered horizontally and partially overlaps the mountain background.

XTR

M9100 SERIES

What are the core competences of new XTR

- ▶ Improved shifting performance
- ▶ Silence drive train
- ▶ Chain stability
- ▶ Durability
- ▶ Weight reduction
- ▶ Improved ergonomics (shifter)
- ▶ Powerful and controlable brakes

CHAIN

- ▶ More silent
- ▶ Easy installation
- ▶ Special shaped for shifting performance and to avoid dropping from chain ring
- ▶ Directional chain

HG

CN-M9100



SM-CN910-12*

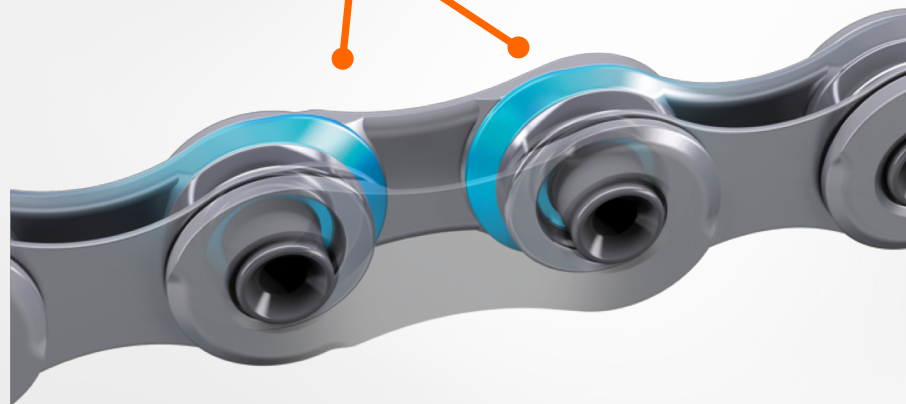
*Non re-usable



SMOOTH DRIVING TRANSMISSION

► -4 dB (vs. M9000)

EXTENDED

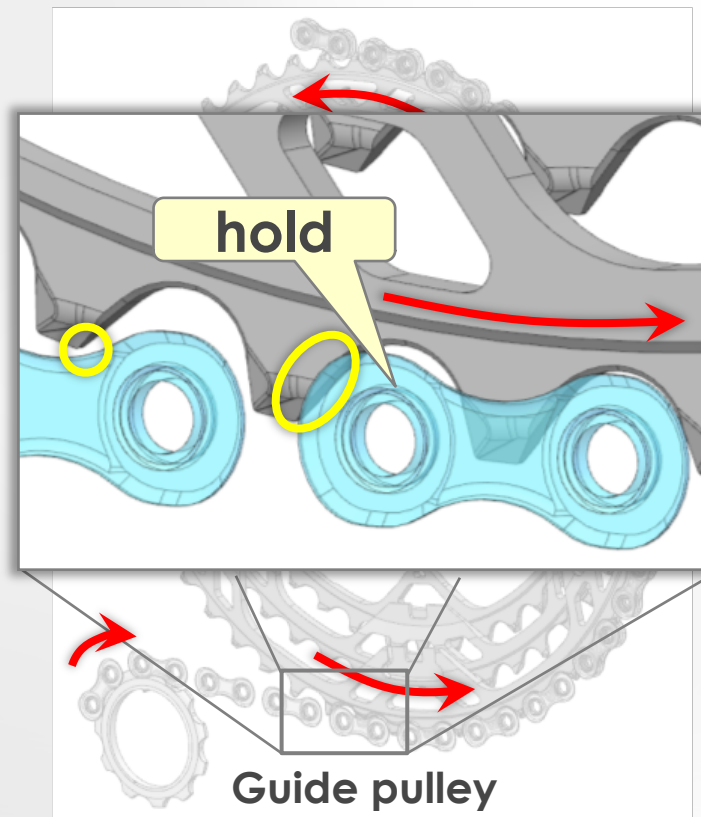
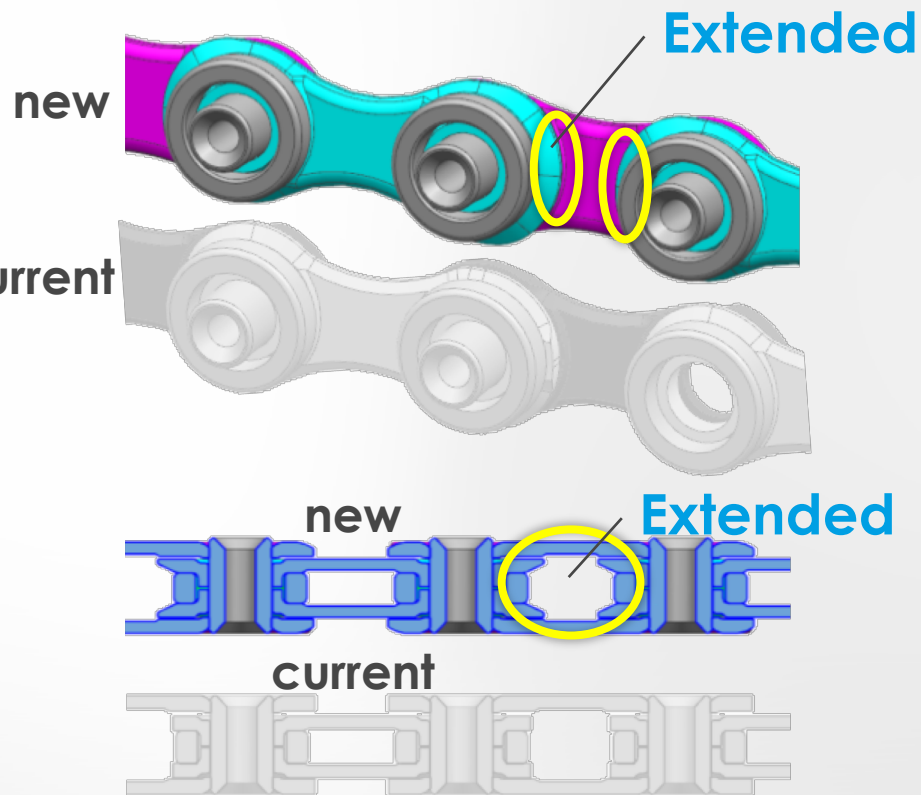


CHAIN

High holding performance CN

XTR

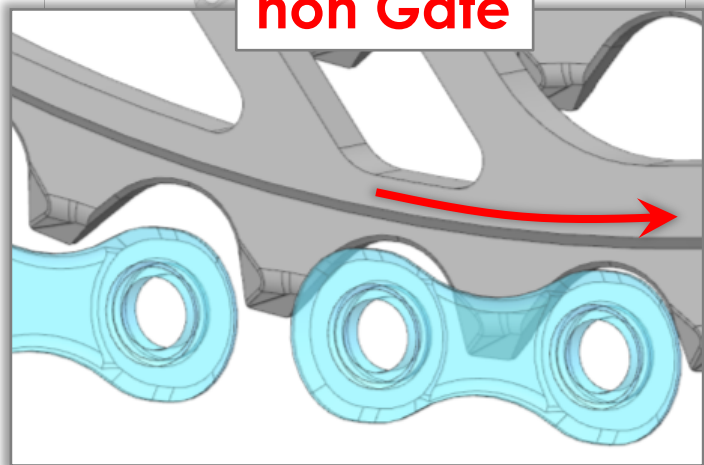
SHIMANO



Hard to shift

CS-M9001

non Gate

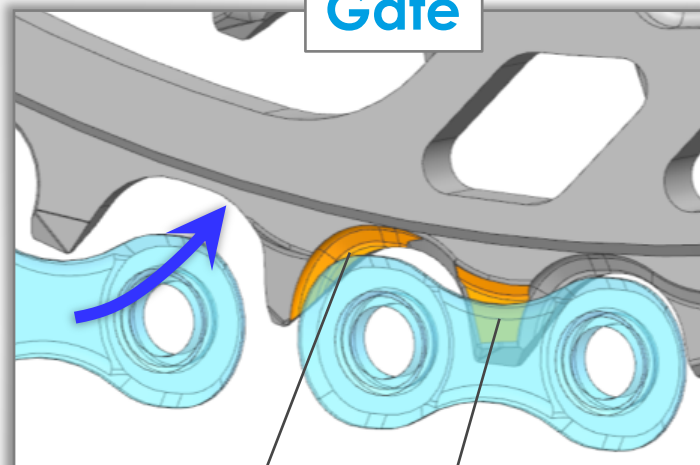


Stroke OW

CS-M9100

Easy to shift

Gate

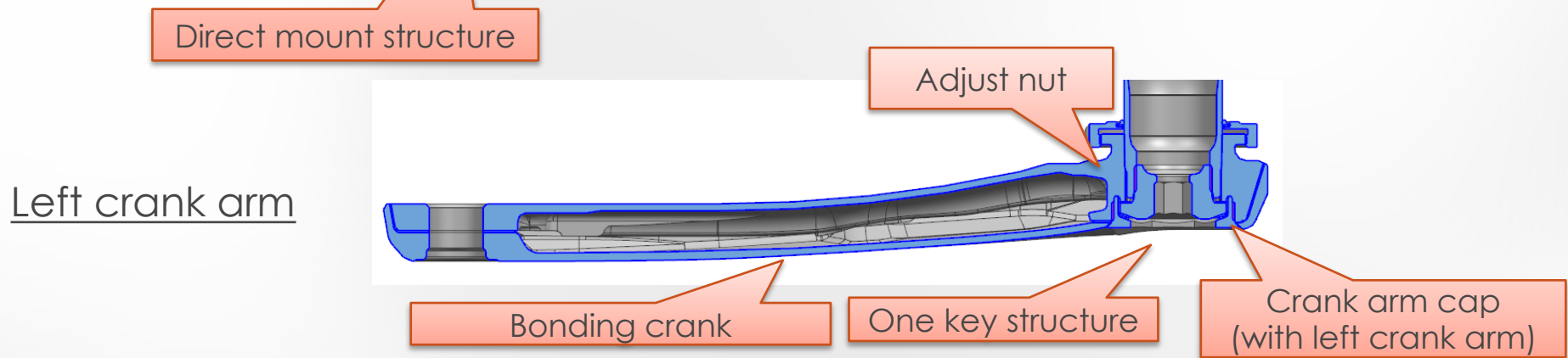
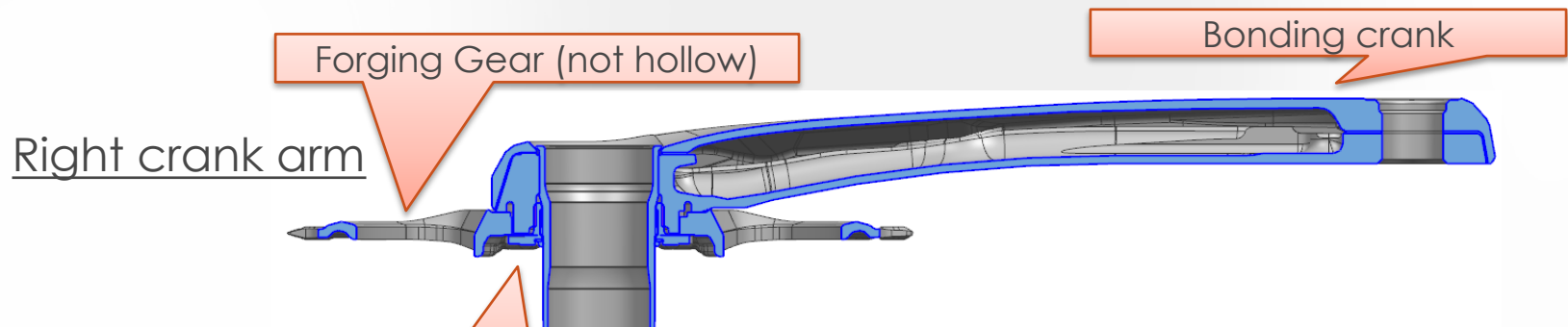


Recess

Recess

CRANKSET

- ▶ Crank arm with sandwich construction
- ▶ Easy to install chain ring
- ▶ One key release
- ▶ Special chain ring fixing nut
- ▶ Special shaped teeth
- ▶ Tool free adjustment of the axle play



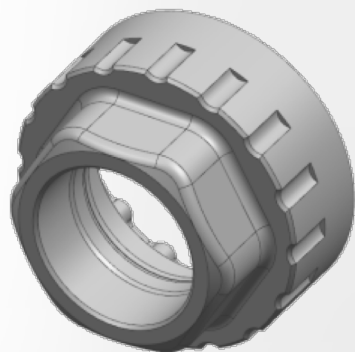
FC-M9100

Tools for assembly of chain ring

XTR

SHIMANO

- ▶ Combine TLFC41 and either TLFC36 or 32mm wrench



TLFC41



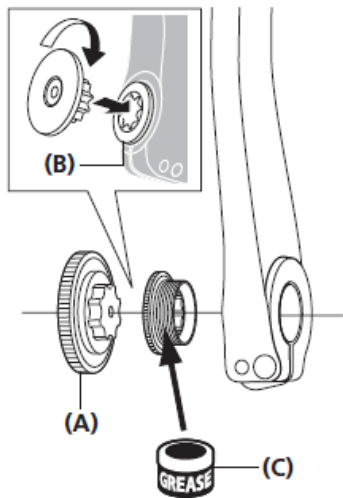
TLFC36

OR



32mm WRENCH

Previous



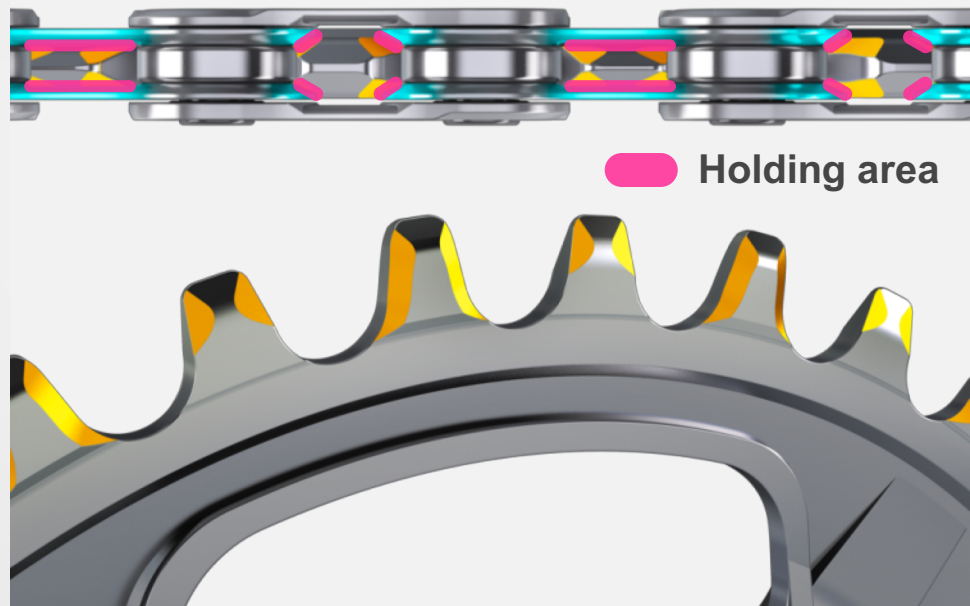
One key structure



45-55Nm
8mm Allen key



EFFECTIVE ENGAGEMENT & SMOOTHER PEDALING

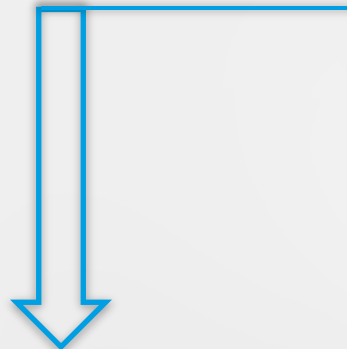
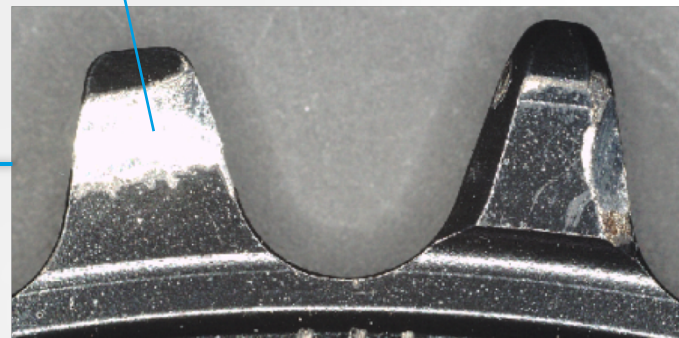


Reduced wear out

- ▶ Hard plated

Durability improved

Hard plated



Compared to competitor

FC COMPATIBILITY

Combination new CN-M9100 and SM-CRM91

XTR

SHIMANO

Not compatibly with 11sp chain ring

- ▶ 12 speed chain and 11 speed chain ring with Dynamic Engagement is not compatible



CASSETTE

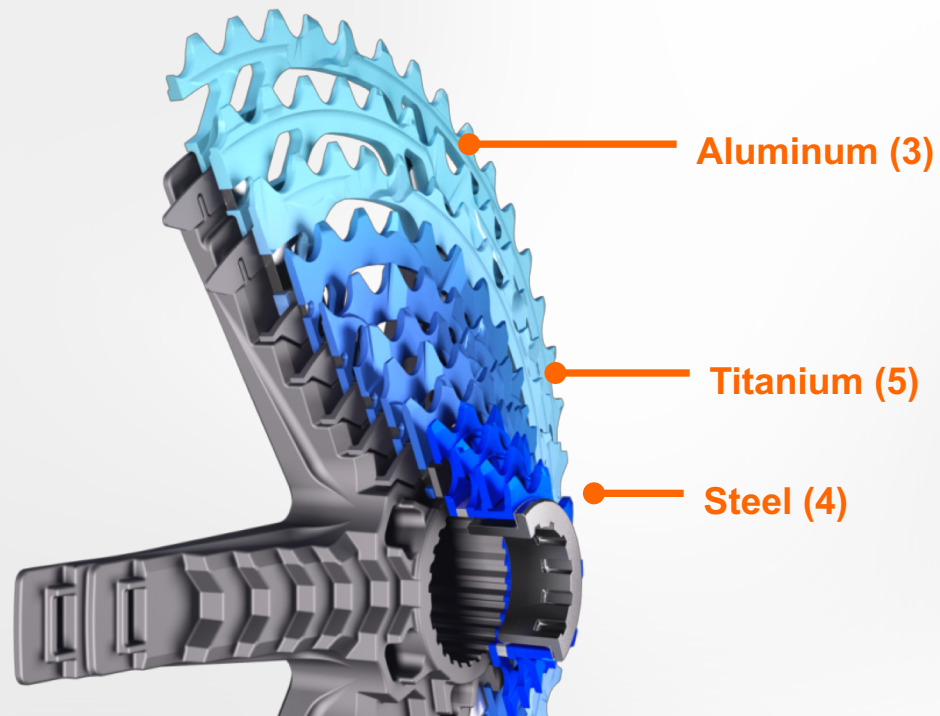
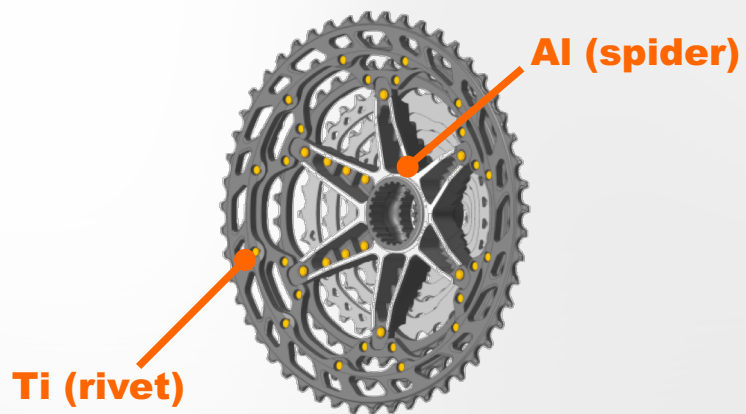
- ▶ HYPERGLIDE + shifting performance, faster and shock less
- ▶ Light weight construction
- ▶ Reduced inertia
- ▶ Easy to install

HYPERGLYDE+

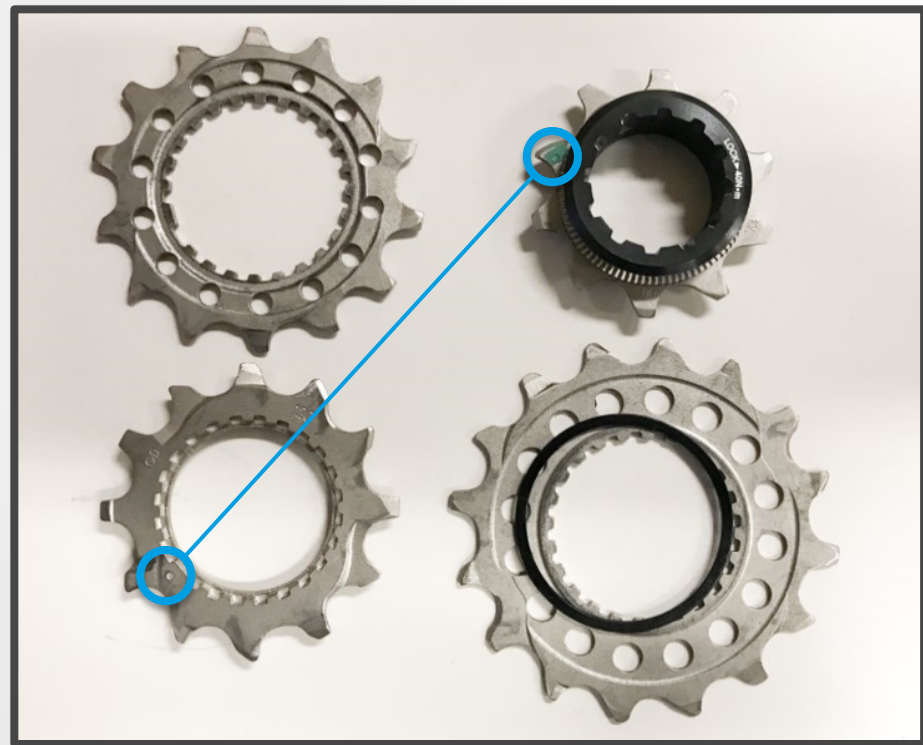
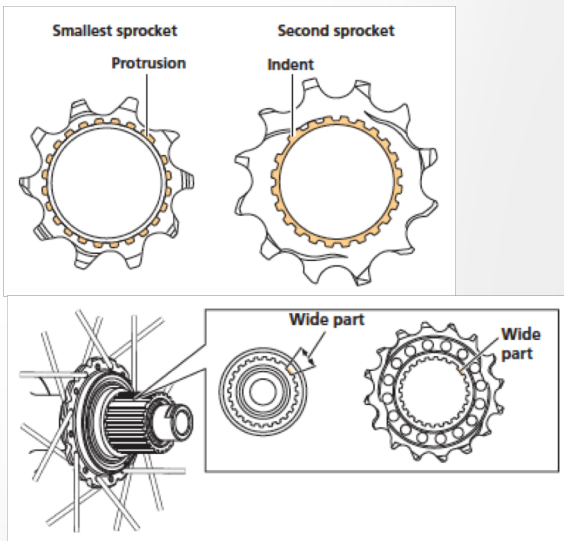
- ▶ Let you pedal continuously while shifting



HYPERGLYDE+



10 and 12T sprocket have a small dot to align for correct assembly.



New assembly tool for easy installation



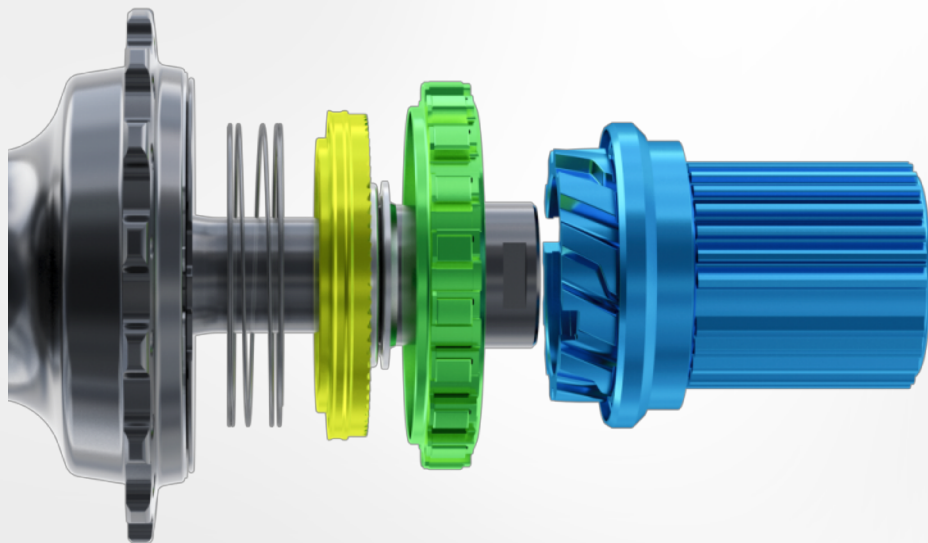
Reduced inertia



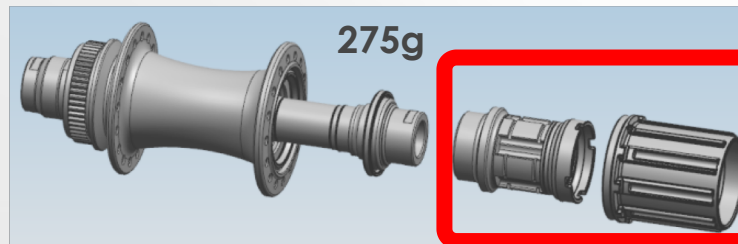
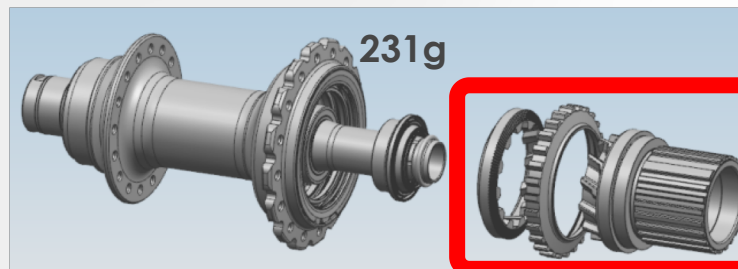
HUBS

- ▶ Silence drive train
- ▶ Driving rigidity improved
- ▶ Weight reduction

JUST THE
SOUNDS OF
TRAIL



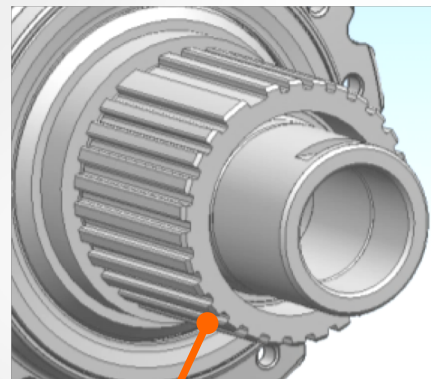
- ▶ Deformation by pedalling is 30 % less than current FH
 - Main reason is Aluminum OUTER unit





NEW SPLINE CONSTRUCTION

MICRO SPLINE

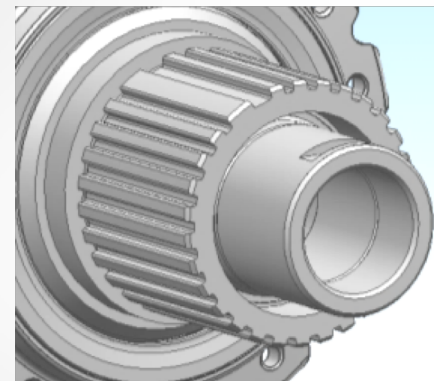


MICRO SPLINE

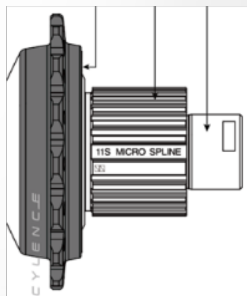
Alloy Free wheel body



MICRO SPLINE

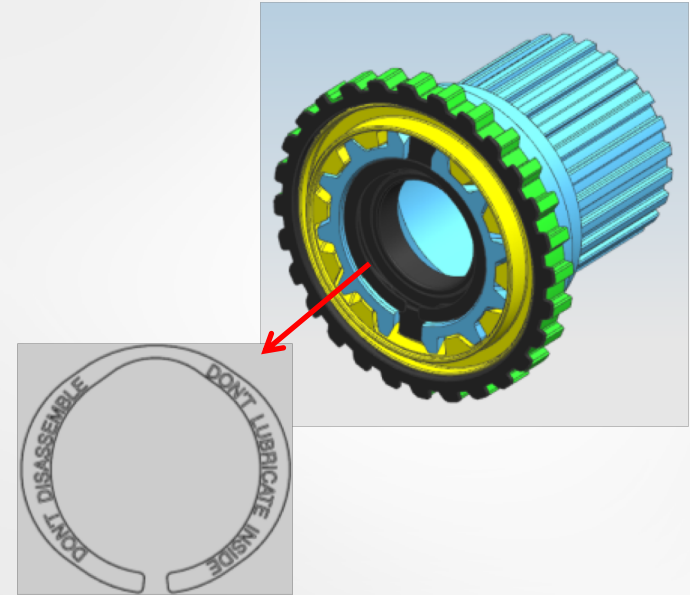


Notice*



*For FH-M9125-B > only for 11sp w/micro spline

Replaceable freewheel unit



REAR DERAILLEUR

- ▶ Increased durability
- ▶ Decreased shifting effort
- ▶ Increased P-spring tension for better chain keeping on chain ring
- ▶ Improved GG distance
- ▶ Easy GG distance setting
- ▶ More silent

Stable pulley position



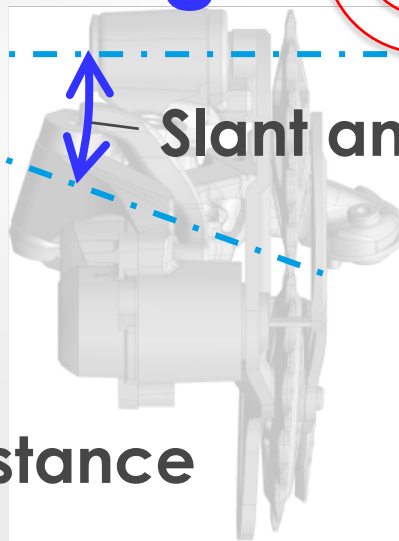
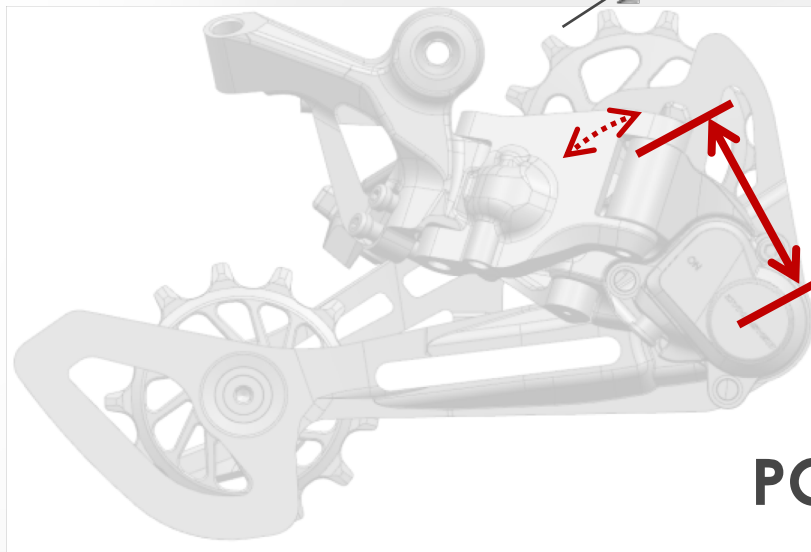
GG distance

15deg

~~0deg~~

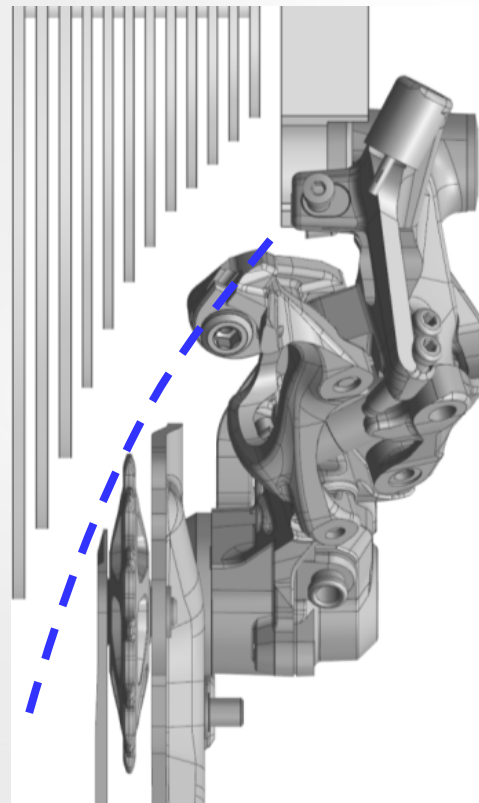
Slant angle

PG distance



Optimize the pulley path

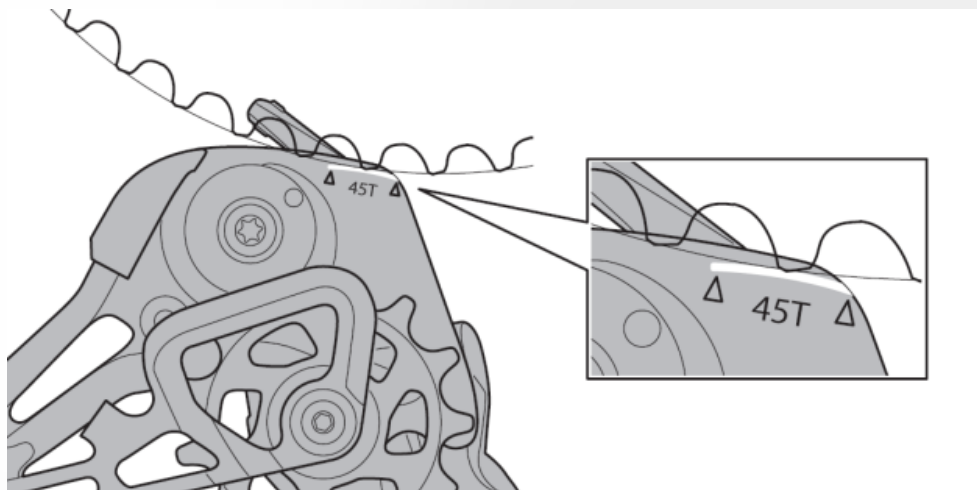
- ▶ To maximize HG+ adjust range



RD-M9120 (DOUBLE)

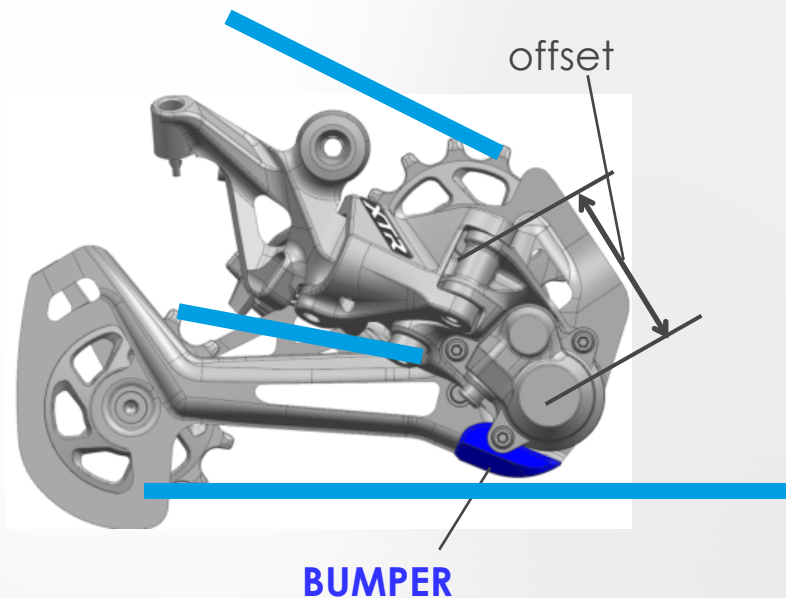
SHIMANO

- ▶ Increased durability
- ▶ More silent
- ▶ Improved GG distance
- ▶ Easy GG distance setting



Bumper

- ▶ Eliminate CN Slapping noise



Improved outer casing stopper

- ▶ The stopper of the outer casing is modified to reduce friction of inner cable



27 Torx bolt to adjust the chain stabilizer

RD-M9100



RD-M9120*

**Need to take off
guide pulley wheel to
adjust it.*

FRONT DERAILLEUR

► SIDE SWING FRONT DERAILLEUR

- Smooth shifting by SIDE SWING mechanism
- D, E, M mount are available
- M type mount requires adapter (Φ34.9mm)
- For 38-28T
- Adapt 48.8, 51.8 mm chain line

*SIDE SWING
Front Derailleur*



► FD-M9100-M

CHAIN DEVICE

- Easy adjustment by screw
- Light weight
- D, E, ISCG05 mount



SM-CD800 E mount



D mount type



ISCG05 type

SHIFTERS

- ▶ Light operation
- ▶ Improved ergonomics (shifter)
- ▶ Faster accessing time

SL-M9100-I / SL-M9100

XTR

SHIMANO

**RAPIDFIRE
PLUS**

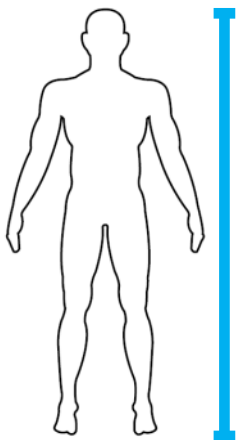
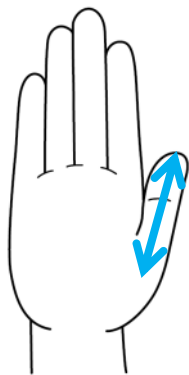


I-SPEC EV

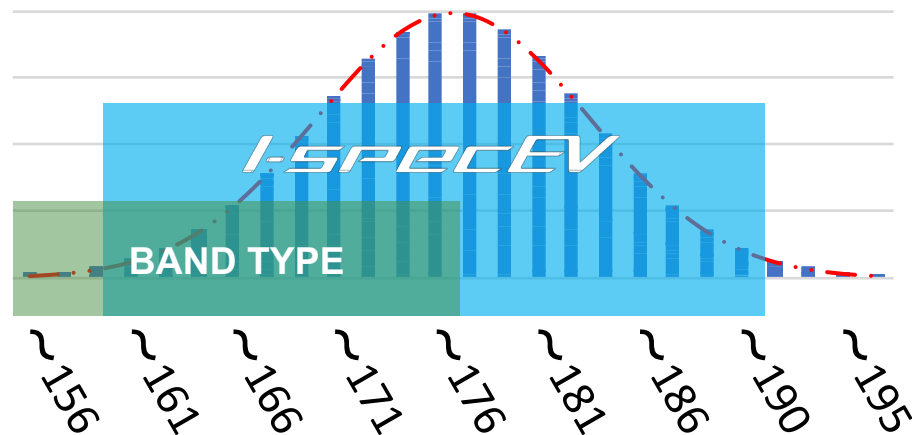


OFFER BEST SETTING FOR RIDERS

95% covered

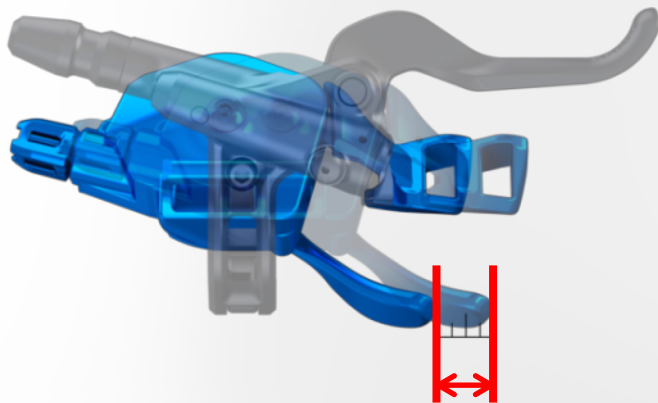


10,0%
7,5%
5,0%
2,5%
0,0%



WIDER ADJUST RANGE FOR EACH RIDING STYLE

I-SPEC EV



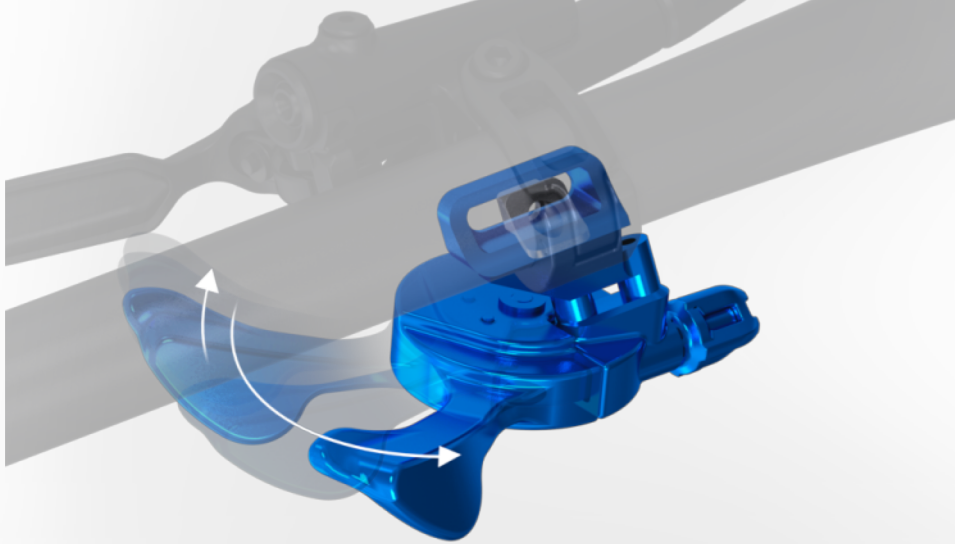
14 mm SLIDE RANGE



60° ROTATION ANGLE

- ▶ Simple operation
- ▶ Improved ergonomics (shifter)
- ▶ Access point can be set to rider preference
- ▶ Faster accessing time
- ▶ Adoptable to 11S M9100 Series

I-SPEC EV **RAPIDFIRE PLUS MONO** 



SIMPLE FRONT CONTROL

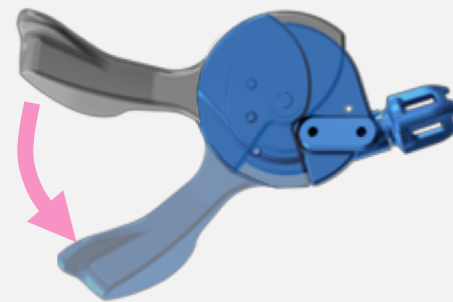
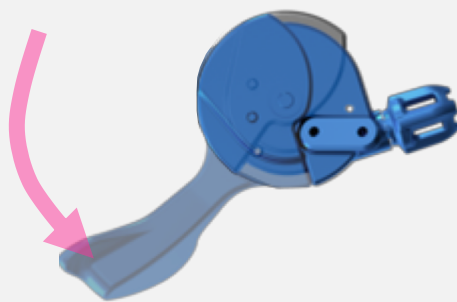
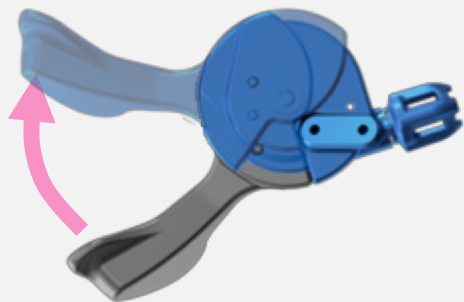
1-SPEC EV

**RAPIDFIRE
PLUS MONO**



SHIFTING UP

SHIFTING DOWN



ASSEMBLY

SL-M9100L for double chain ring

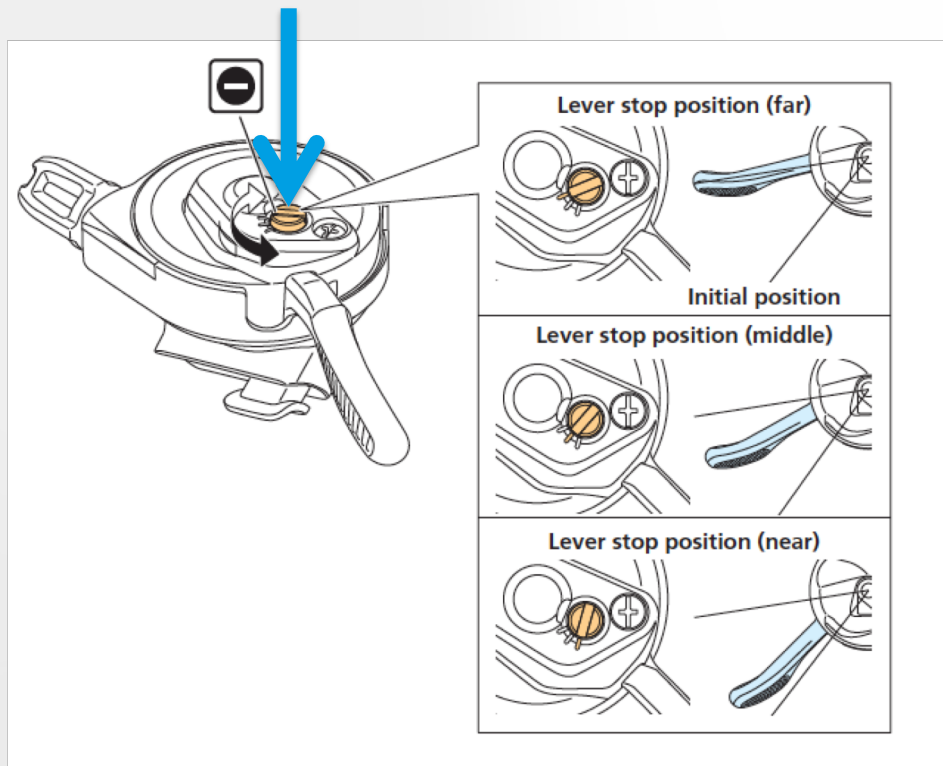
XTR

SHIMANO

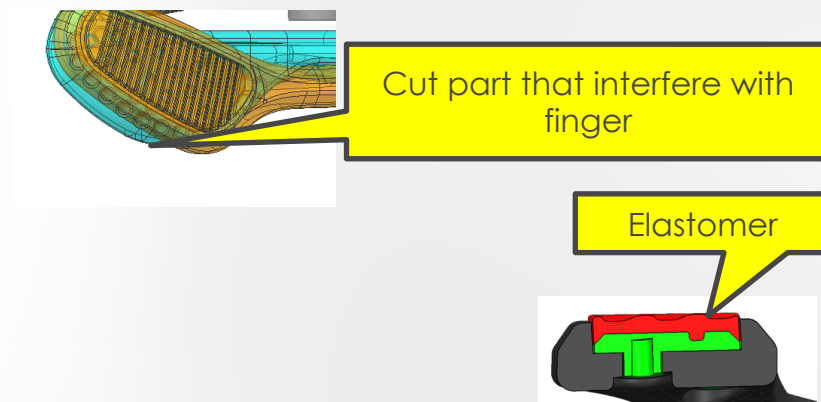
3 positions

- ▶ The lever can be positioned in 3 distances

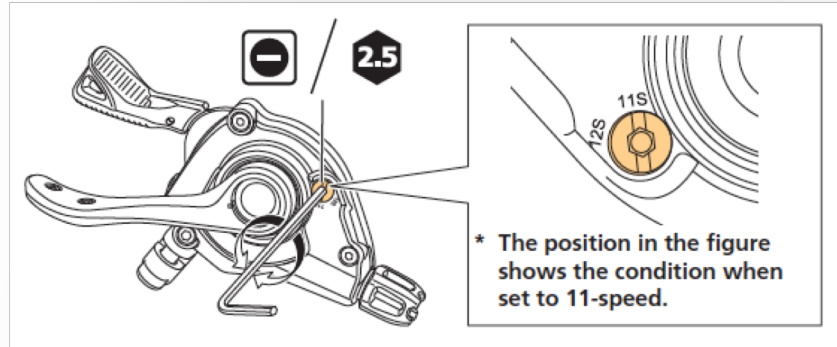
Push and turn



Follow the R side design concept



Setting for 11 or 12 speed



- ▶ Clean appearance
- ▶ Improved ergonomics I-Spec EV only
- ▶ 7 mm stroke

SL-MT800-IL

XTR

SHIMANO

▶ SEAT POST LEVER

I-SPEC EV



DISC BRAKE

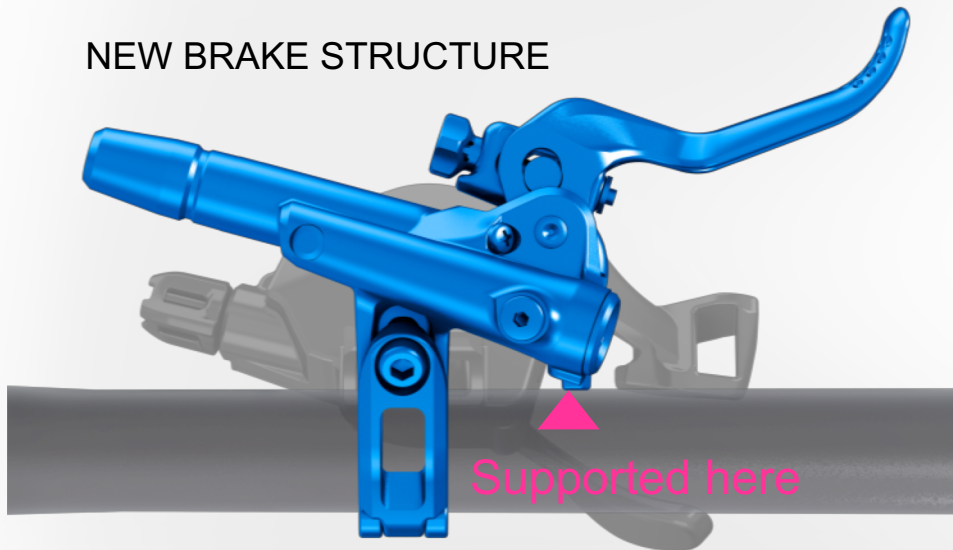
DISC BRAKE XC AND ENDURO

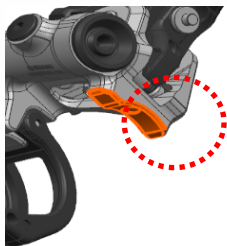
SHIMANO

- ▶ Increased rigidity
- ▶ Weight reduction
- ▶ Increased power (4 Piston version)
- ▶ Reduced lever stroke
- ▶ I-Spec EV
- ▶ Clamp fixing bolt secured by o-ring
- ▶ Reduced friction = smoother lever operation feeling

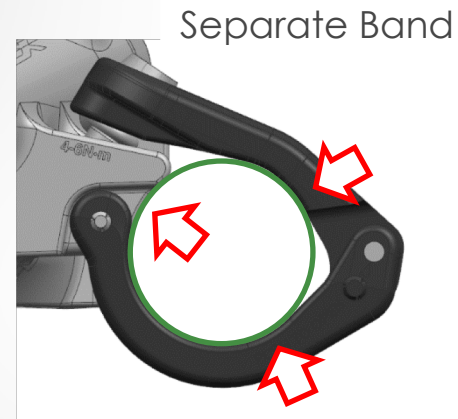
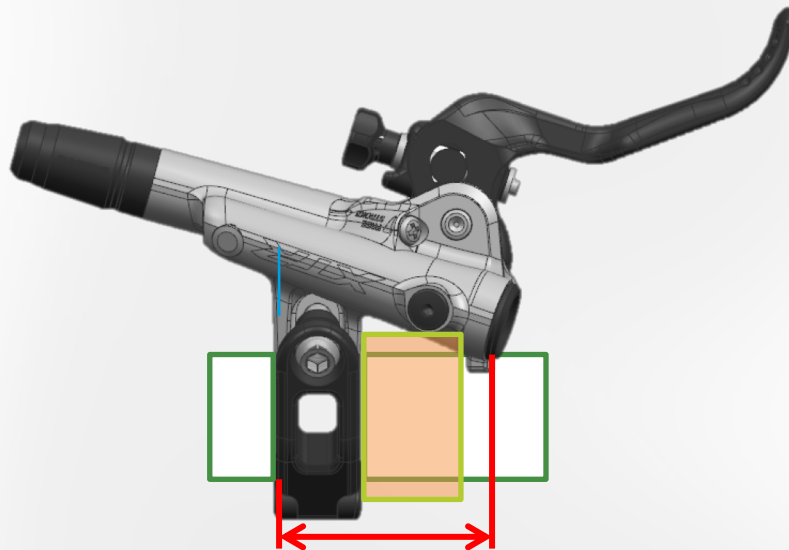
I-SPEC EV

NEW BRAKE STRUCTURE





Support Leg



■ High Rigidity Structure

M9100 115% vs M9000 (BL only)

M9120 115% vs M9020 (BL only)

■ Space of SL/ASP/SUS lever

I-SPEC EV



ONE WAY BLEEDING

LIGHT WEIGHT **-26g**

(vs. BL/BR-M9000, RT)

HIGH RIGIDITY **↑** **10%**

(vs. BL/BR-M9000, BH)



BL-M9120 / BR-M9120

Enduro

XTR

SHIMANO

I-SPEC EV SERVO WAVE
Action

Four
Piston

POWERFUL



10%

(vs. BL/BR-M9020)

HIGH RIGIDITY

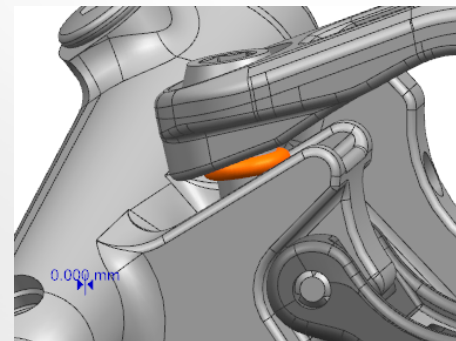


8%

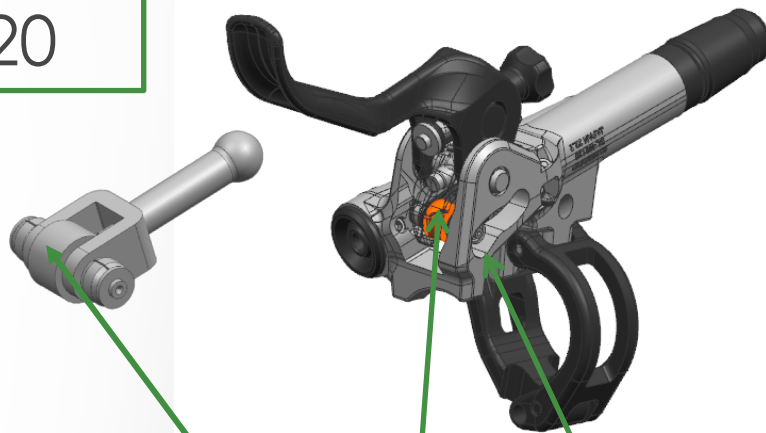
IMPROVED SMOOTHNESS BY BEARING



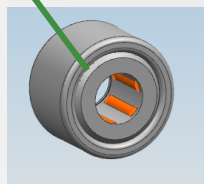
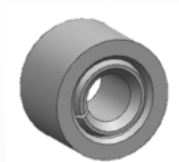
- ▶ Improved clamp band fixing
- ▶ When the band is opened, the bolt fall down
- ▶ Bolt secured by O-Ring



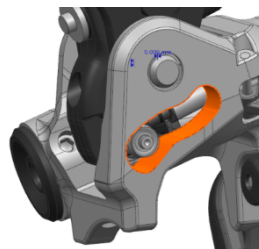
M9120



Current typ
Bush type



Bearing



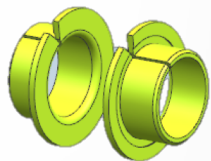
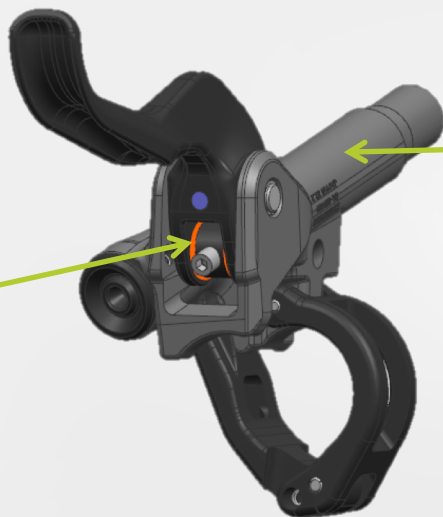
New Servo Wave

BL-9100

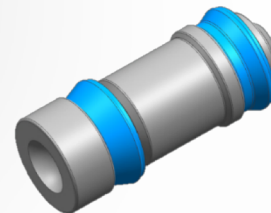
Smooth lever feeling

XTR

SHIMANO



Bush x2



Less Friction Coat Cup

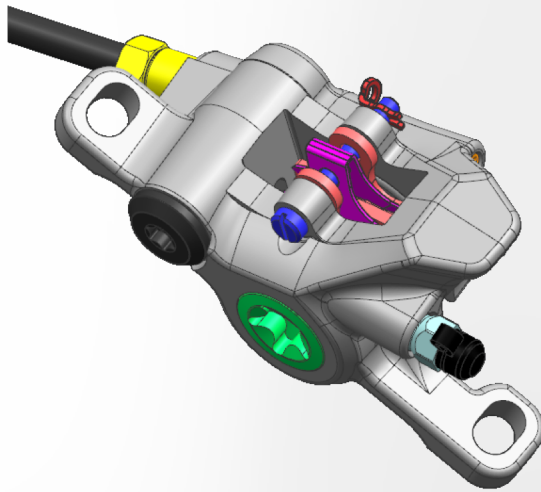


BRAKE CALIPER

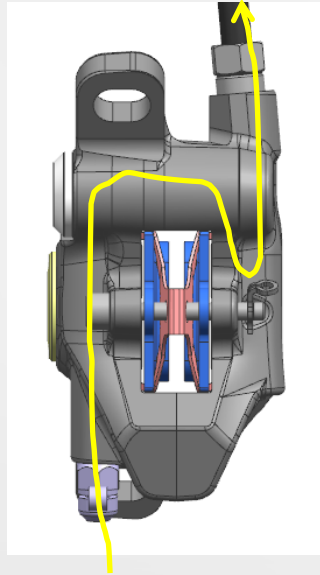
DISC BRAKE XC AND ENDURO

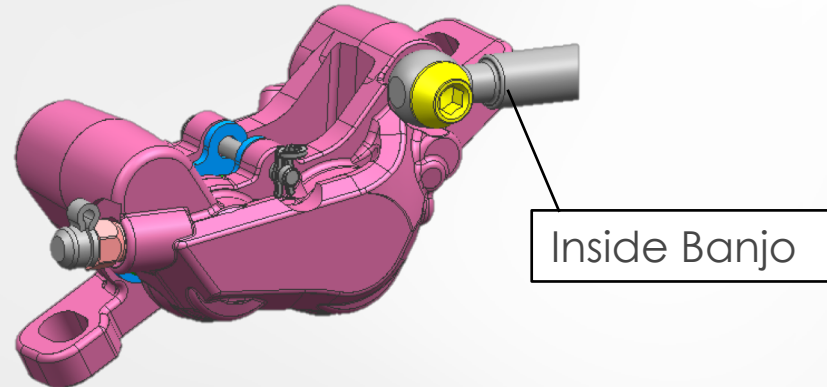
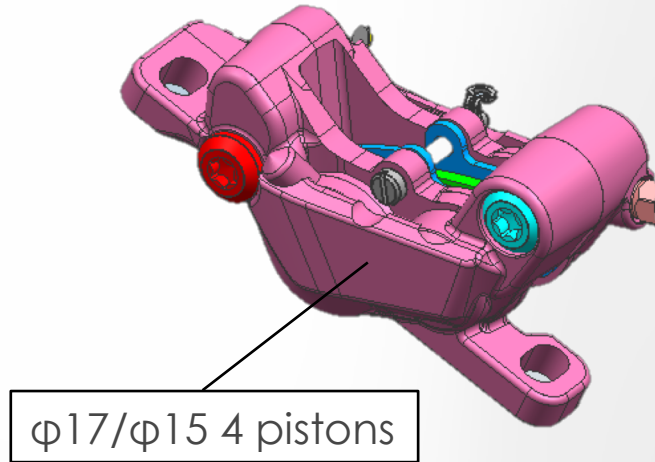
SHIMANO

- ▶ Increased rigidity
- ▶ Weight reduction
- ▶ Increased power (4 Piston version)
- ▶ Flat Mount brake pad used (XC version)



Oil flow





ROTOR & BRAKE PADS

DISC ROTOR AND BRAKE PADS

SHIMANO

- ▶ Reduced weight
- ▶ Improved heat management
- ▶ Flat Mount brake pad used (small, only XC version)
- ▶ Improved durability of small brake pad

	RT99	MT900
L size (203 mm)	178.31 g	146.19 g
M size (180 mm)	137.11 g	131.34 g
S size (160 mm)	121.18 g	106.30 g
SS size 140 mm	99.55 g	89.08 g



RAPID COOLING & LIGHT WEIGHT

ICE
TECHNOLOGIES
FREEZA

-20°C

(203 mm rotor, vs. M9000)

-10g

(160 mm rotor, vs. M9000)

