

PRODUCT INTRODUCTION

Takasago **EXCEL** *Rim*

EXCEL
Takasago Rim
JAPAN

Takasago EXCEL Rim

Takasago EXCEL Rim, the benchmark in off-road racing rim technology, is made of 7000 series aluminum that is originally used for aircraft and widely chosen by most of top riders for many years. The EXCEL rims are engineered and designed to perform in extreme and the toughest environments and keep being the best in the race scene.

At the same time, not only for the race scene, but also for general demand on the wheel customization for small commuter bikes to big adventure bikes over 1000 cc, EXCEL's wide range of size & color variations catches riders' demand, and the Made-In-Japan quality catches their trust.

Made in Japan



Takasago EXCEL A60 Rim

Takasago EXCEL A60 Rim is developed for MX and Enduro competitions by modifying the 7000 series aluminum that is used for the EXCEL Signature Rim and has been dominating the podium since its start. The EXCEL A60 is structurally 15% stronger than the EXCEL Signature Rim, yet it remains at the same low weight level. The EXCEL A60 features V-Curve profile that reduce mud buildup on the inner side of the rim.

Available only black color with laser marked special A60 logo and pinstripe. Sizes are limited for MX and Enduro, 21x1.60, 19x1.85, 19x2.15 & 18x2.15.

Made in Japan



EXCEL ONE

EXCEL ONE is developed for beginners and fun riding on off-road and offering economical alternative to the EXCEL Signature Rim & the EXCEL A60 Rim while giving EXCEL ONE the performance that EXCEL represents. EXCEL ONE can be an opportunity of superior riding experience for many riders.

EXCEL ONE is available only for MX and Enduro sizes, 21x1.60, 19x1.85, 19x2.15 & 18x2.15. Rim color is only Black with laser marked EXCEL ONE special logo.

* For professional riders & hard competition use, we recommend Takasago EXCEL Rim or Takasago EXCEL A60 Rim.

Made in Japan



Takasago EXCEL Asia Rim









Takasago EXCEL Asia Rim has been developed for small commuter motorcycles such as mopeds, scooters and dual-purpose bikes. The EXCEL Asia is produced with EXCEL's rim technology with sturdier and more flexible than single piece cast wheels and providing enjoyment of spoke wheel customization.



Made in Malaysia



MATERIAL & BRAND

Material		Profile		Logo
Aluminum 7000 Series	MADE IN JAPAN		V SHAPE	<i>Takasago</i> EXCEL A60 Rim
			U SHAPE (WM)	<i>Takasago</i> EXCEL Rim
			U SHAPE (MT)	
			U SHAPE (WM)	EXCEL ONE
			H SHAPE	No logo on H shape rim
Aluminum 6000 Series	MADE IN MALAYSIA		U SHAPE (WM)	<i>Takasago</i> EXCEL Asia
			U SHAPE (MT)	

Available size & hole number in chart

Takasago **EXCEL** Rim

Takasago **EXCEL A60** Rim
EXCEL ONE

Diameter Width	Type	12	14	16	16.5	17	18	19	20	21	23
1.40	WM		28/32			28/32/36		28/32			
1.60	WM	28/32/36	28/32/36	32/36		36	36/40	32		32/36	32/36
1.85	WM			28/32/36			36/40	32/36/40	36	36/40	
2.15	WM MT					36	32/36/40	32/36/40		36/40 36	
2.50	MT					28/32/36/40	32/36/40	36/40			
3.00	MT					32/36	36	36/40			
3.50	MT			36/40	32/36	32/36/40	36/40				
4.25	MT			40		32/36/40	32/36/40				
4.50	MT					32/36					
5.00	MT					32/36/40					
5.50	MT					32/36/40					

Diameter Width	Type	18	19	21
1.60	WM			32/36
1.85	WM		32/36	
2.15	WM	32/36	32/36	

WM: Narrower than 2.15 width
 MT : Wider than 2.50 width
 * Exception: 21x2.15 has both WM & MT



Available size & hole number in chart

Takasago EXCEL Asia
rexfelgen asia

EXCEL H Shape rim

Diameter Width	18	19	21
1.60	36/40		36/40
1.85	36/40	36/40	
2.15	36/40	36/40	
2.50	36/40		

Diameter Width	Type	14	16	17	18	19	21
1.20	WM			36			
1.40	WM	36		36		28/36	
1.60	WM	36		36	36	28/36	36
1.85	WM	36	28/36	36	36		
2.15	WM	36		36	36		
2.50	MT			36			
3.00	MT			36			
3.50	MT			36			

WM: Narrower than 2.15 width
MT : Wider than 2.50 width



COLOR & LOGO (JAPAN)



Silver
Red logo



Gold
Red logo



Yellow
Red logo



Black
Yellow logo



Blue
Yellow logo



Orange
lasermark logo



Red
lasermark logo



Black
A60 logo & Pinstrip
by lasermark



Black
lasermark logo



Polish
No logo
(H Shape)

COLOR & LOGO (MALAYSIA)



Silver
Blue logo



Gold
Red logo



Black
Yellow logo



Blue
Yellow logo



Red
Yellow logo



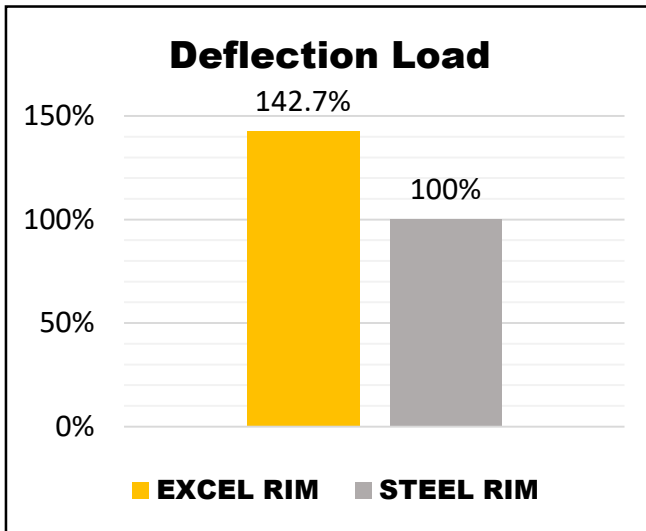
Titanium
Yellow logo



Orange
lasermark logo

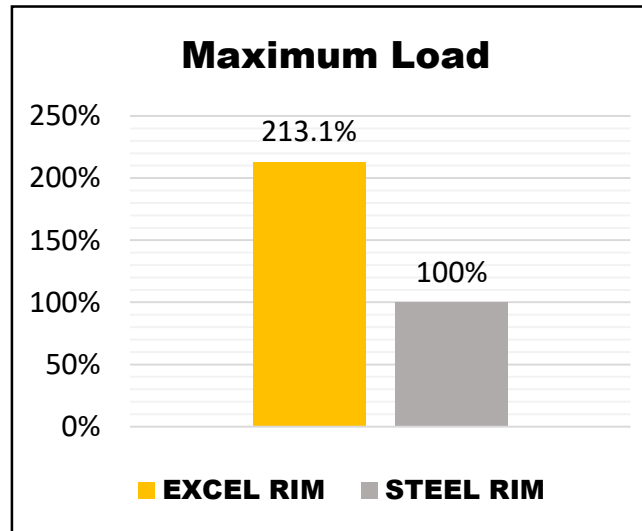
EXCEL signature rim vs Steel rim

Rim size : 18 x 2.15



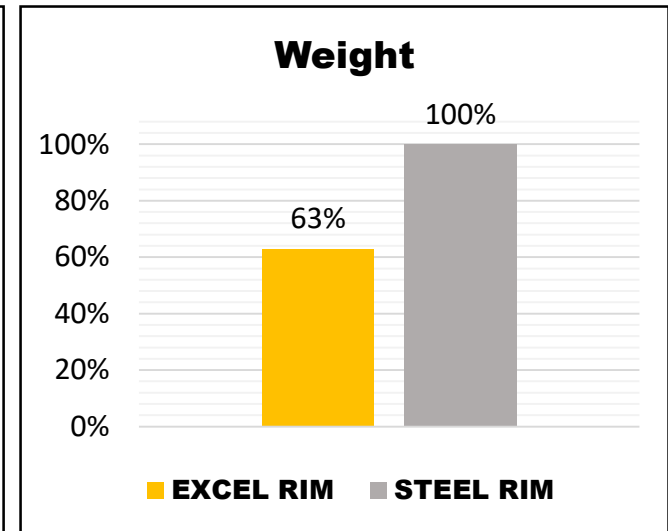
Bending Strength : Loading at certain bending point (bending 15mm in case of 18 inch rim).

The EXCEL rim can load approx. 43% more than steel rim within same bending level.



Maximum Load : Maximum loading until crashing rim.

The EXCEL rim can load approx. 113% more than steel rim.

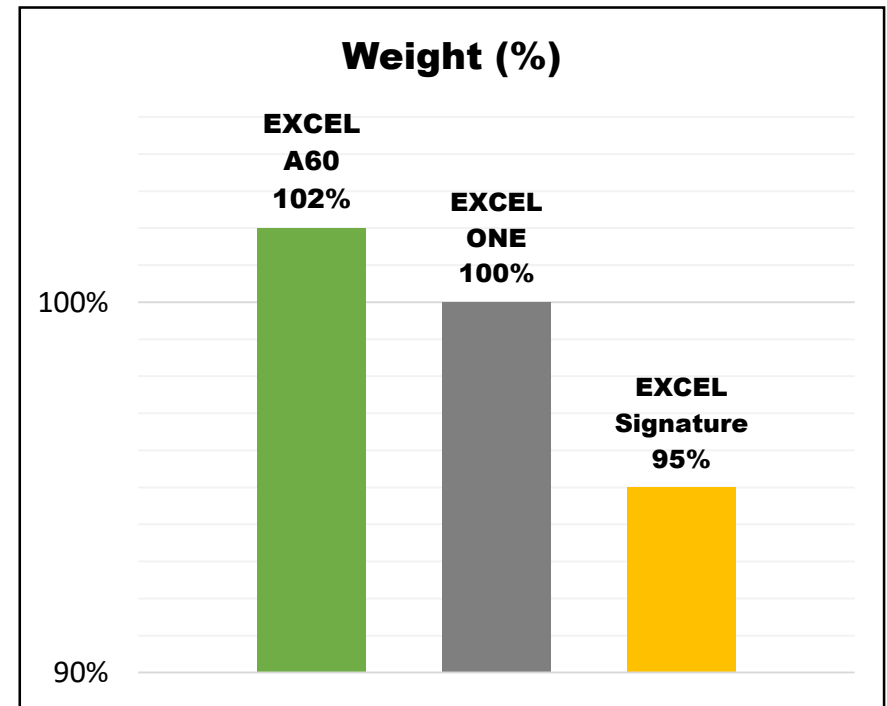
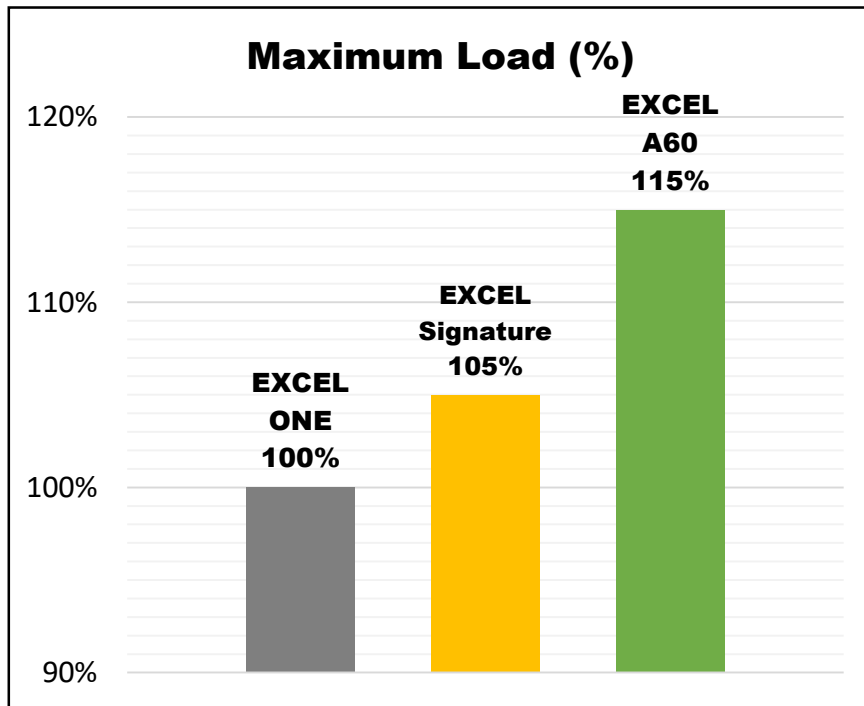


The EXCEL rim is approx. 37% less than steel rim.

NOTE

- Above data is particular result for comparison of 18x2.15 size.
- Aluminum alloy has less hardness than steel. It requires **“handle with care”**.

EXCEL signature vs EXCEL ONE vs EXCEL A60

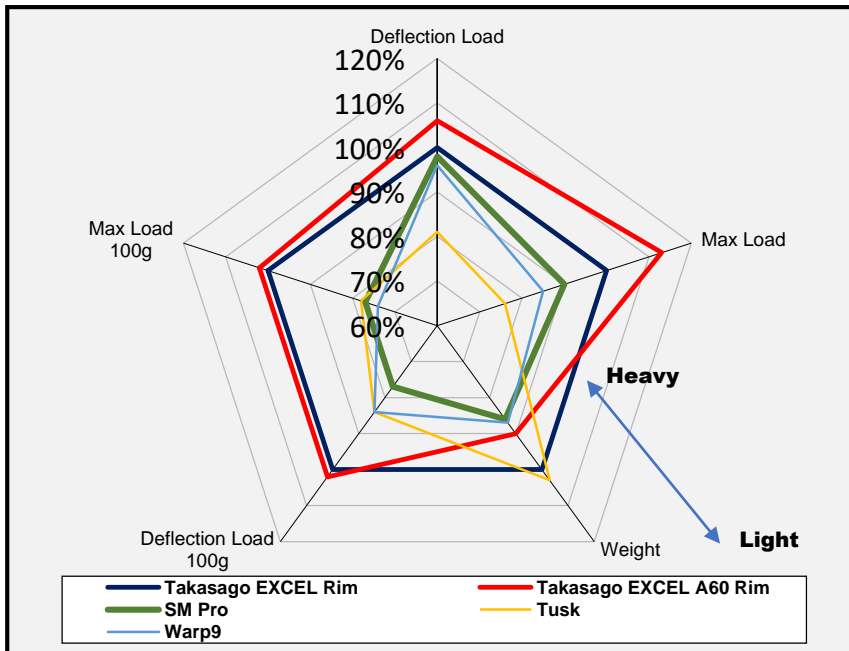


Maximum Load : Maximum loading comparison in percentage.

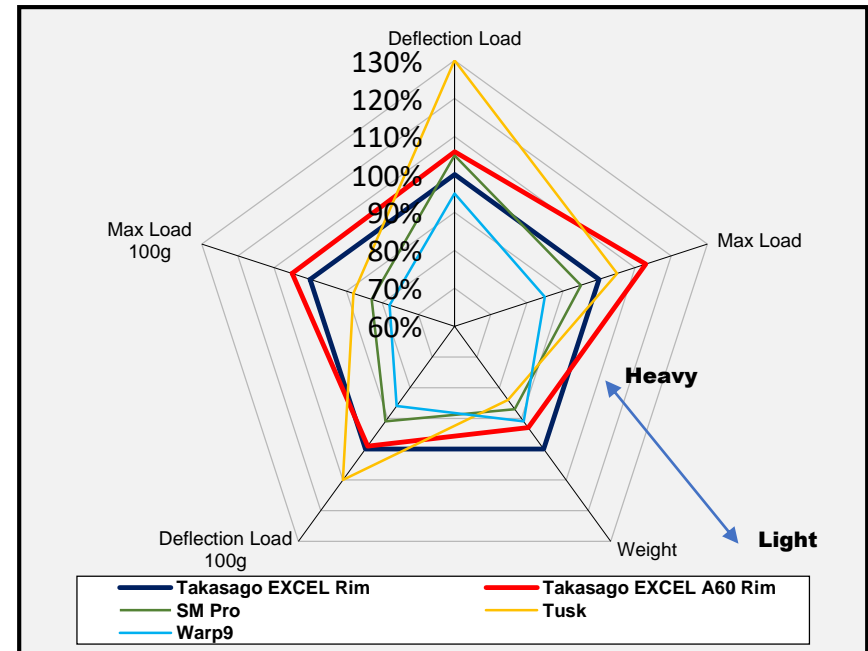
Weight : Rim weight comparison in percentage.

EXCEL rim vs Non-Japanese brand

Rim size : 21 x 1.60



Rim size : 19 x 2.15



Deflection Load : Indicating anti-deformation strength of a rim.
MAX Load : Indicating maximum load that a rim can hold until deformation.
Weight : Weight of a rim.
Deflection Load / 100g : Indicating anti-deformation strength of material and profile of a rim at fixed weight (100g).
MAX Load / 100g : Indicating maximum load that material and profile of a rim can hold at fixed weight (100g).

- Above test results show that **EXCEL Rim is a highly balanced rim without sacrificing any aspect of quality while Non-Japanese brands tend to advance either strength or weight.**

- **EXCEL Rim is utilized to make better quality for a spoke wheel relating to motorcycle performance in many riding situation.**

Distinguishing genuine EXCE RIM from copies



A mark on inner side



Origin on outer side

- **There is a mark, that starts with EXCEL RIM -----, on inner side of a rim as a picture on left.**
- **“MADE IN JAPAN” is marked on outer side of a rim as a picture on right.**
(there might be a case of Made in Malaysia version)
- **Smooth mirror polishing is synonymous with EXCEL RIM brand.**

Silk screen printing logo



Solvent or
chemical cleaner



High pressure water

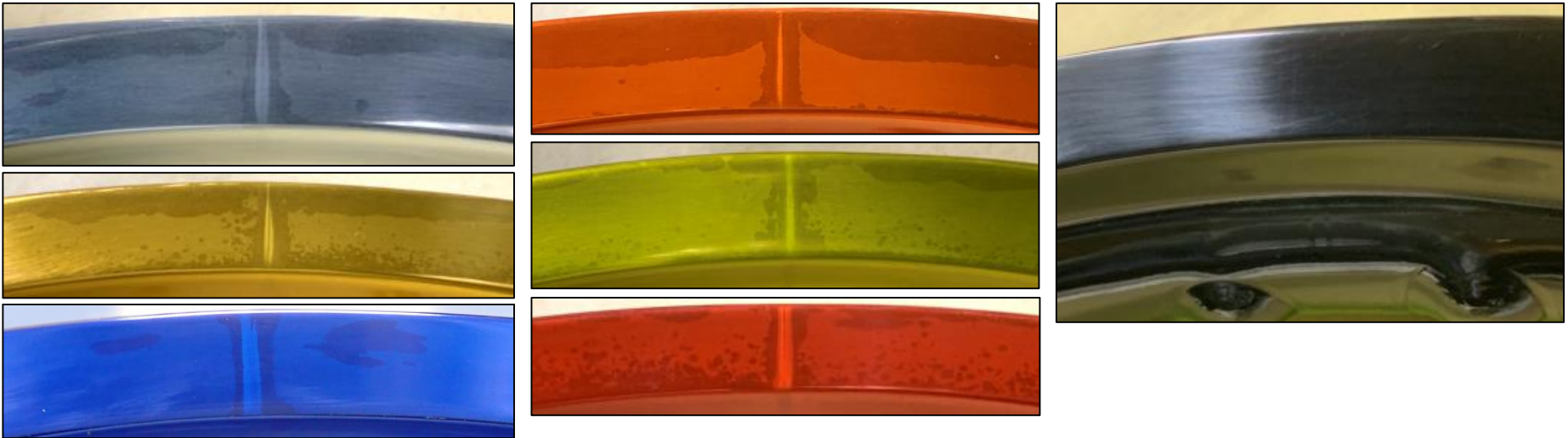


Strong wash



**Silk screen printing logo is done after anodizing.
It could be removed by solvent, chemical cleaner, strong wash or high pressure water jet.
Please be sure to clean with SOFT wash.**

Nonuniform color on rim surface



Pictures of welding area of each color at the highest contrast angle

- The EXCEL rims made of 7000 series alloy will have the nonuniform color (Segregation) as the pictures above.
- This is caused by the structure and composition of 7000 series alloy and becomes visible after anodizing. Technically it is impossible to control (Shape, position, size and number of the segregation are not even controllable).
- The segregation of black color is inconspicuous as the dark shade cuts the light reflection through anodizing layer from base aluminum surface.
- It varies considerably in appearance, however it is all within our quality standard and request pre-explanation to customers.

APPLYING CORRECT RIM SPEC

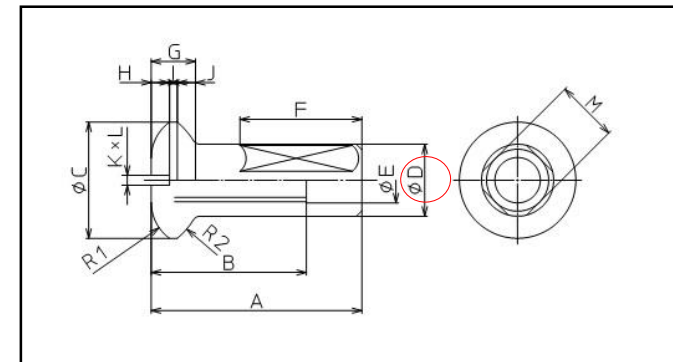


Bending spokes & unfit hole

- **Applying correct spoke hole angle and hole diameter is very important.**
- **In case of installing a rim with wrong specs, it causes spoke bend and might be a cause of breaking a whole wheel balance.**

Nipple size vs spoke hole size

Nipple Outer size	D	Spoke Hole Diameter
	+0.2 0	+0.3 0
#12	4.6	5.0
#11	5.0	5.5
#10	5.8	6.3
#9	6.5	7.0
#8	7.0	7.5
#7	7.5	8.0
#6	8.0	8.5



OFFICIAL SPONSOR FOR ISDE 2019 & 2021



FIM INTERNATIONAL
ISDE
6 DAYS OF ENDURO

EXCEL
Takasago Rim
JAPAN

2019-2021 OFFICIAL SPONSOR

ISDE
PORTUGAL
-2019-

The Champion's Choice



2019
MXGP 3rd Place
MX2 1st 2nd & 3rd Champion

2018
MXGP Champion & Vice Champion
MX2 1st 2nd & 3rd Champion

2019
Monster Energy AMA Supercross
250SX West 1st 2nd & 3rd Champion
250SX East 2nd & 3rd Champion

Lucas Oil Pro Motocross
250 Class 1st 2nd & 3rd Champion

2018
Monster Energy AMA Supercross
450SX Champion & Vice Champion
250SX West Champion & Vice Champion
250SX East Champion



EXCEL

Takasago Rim

JAPAN