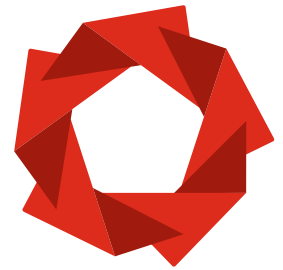


**UNCOMPROMISING  
PERFORMANCE**



**MAKINO**



# PRODUCT CATALOGUE

2W, 3W

**AUTOMOTIVE**   
CLUTCHES . BRAKES . CHAINS

Only A Leader Can Bring About A Revolution

## Company Profile



**CHAIRMAN**



**MANAGING DIRECTOR**



**CHIEF EXECUTIVE OFFICER**

### Our Vision :

We help increase stakeholder value through the uncompromising performance of our high tech automotive solutions.

### Our Values :

WE HAVE **Integrity**  
WE ARE **Gutsy**  
WE ARE **Uncompromising**  
WE **Catalyse** HIGH PERFORMANCE  
WE ACT OUT OF **Conviction**



MAKINO

UNCOMPROMISING  
PERFORMANCE

# Domains & Product Portfolio

## 2 Wheeler Motorcycle

### Clutch Product



Fibro Clutch Plate



Pressure Plate



Clutch Plate Kit



Clutch Center



Inner Clutch Assy.



Clutch Hub



Chain Set Kit



Clutch Bell

### Brake Product



Brake Shoe Kit



Brake Shoe



Disc Brake Pad

## 2 Wheeler Scooter

### Clutch Product



Clutch Shoe



Centrifugal Clutch Assy.



Weight Roller



Variator

### Brake Product



Brake Shoe Kit



Brake Shoe



Disc Brake Pad

## 3 Wheeler Scooter

### Clutch Product



Inner Clutch Assy.



Complete Clutch Assy.



Clutch Plate



Clutch Plate Kit

### Brake Product



Brake Shoe Kit



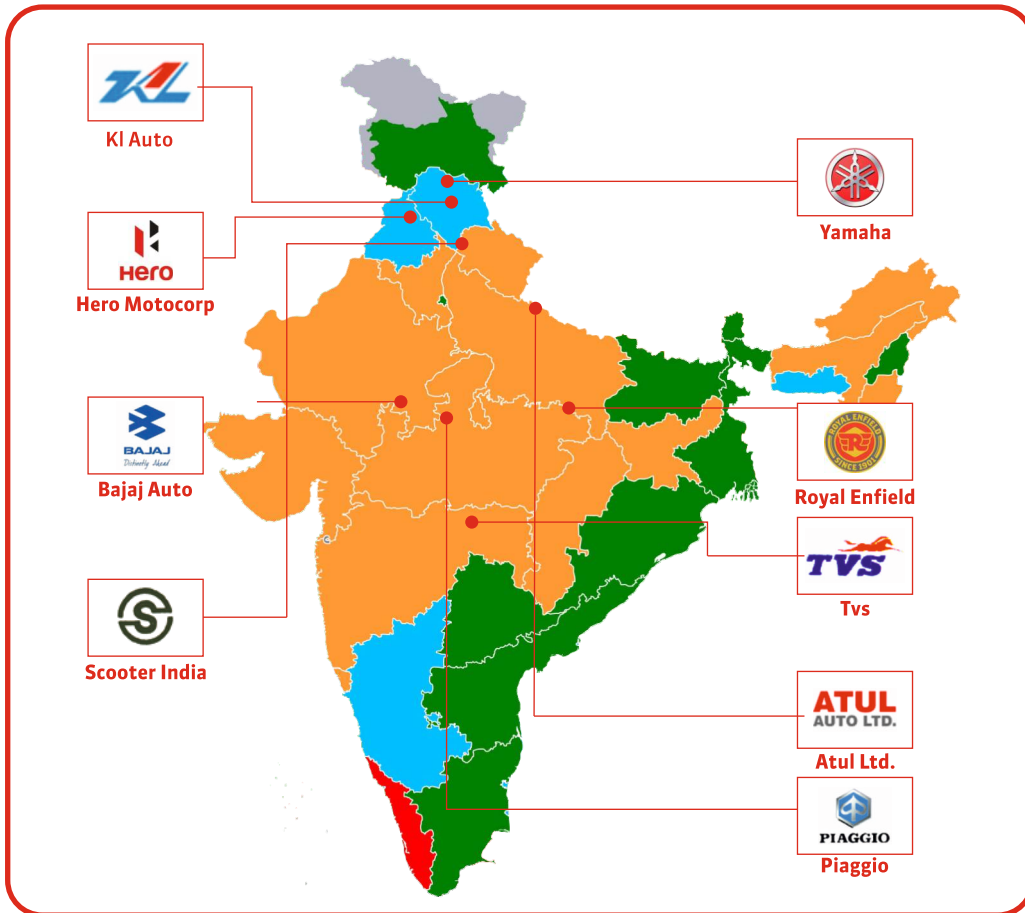
Brake Shoe



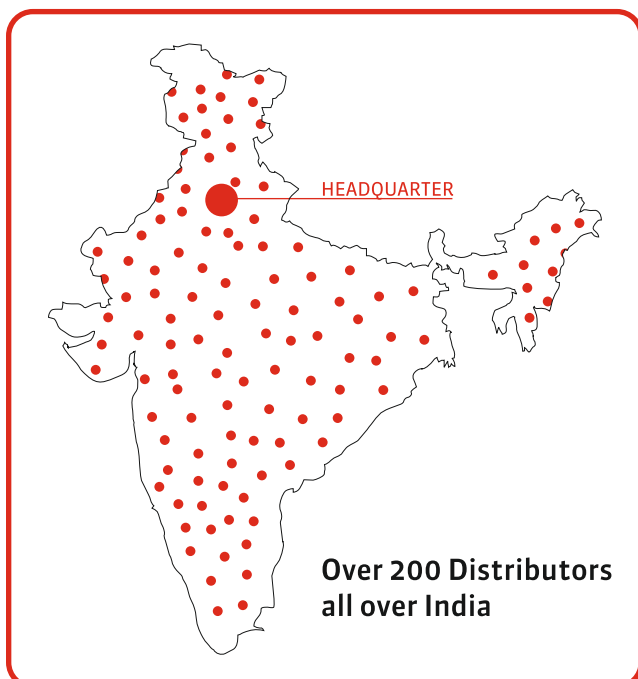
Brake lining



## OE Customer



### Domestic Presence



### Global Presence





## Why Makino ?

### Benefits



Brake Shoe

• OEM - Endorsed	• Eco Friendly
• Longer Life	• With Kevtech Technology
• Cutting Edge Technogy	



Disc Brake Pad

• Reduced Disc Wear	• Eco Friendly
• Lower Fade	• Enhanced of Braking System



Fibro Clutche Plates

• Makino Patented Technology	• Next Generation Clutch
• OEM Endorsed	• Smoother Gear Change
• High Power Clutches	• ECO Friendly



Clutch Shoe

• Longer Life	• Noise Free Engagement
• Reduced Drum Wear	• Dynamically Balanced



Variator

• Smooth Acceleration	• Better Performance
• High Torque on Low RPM	• Reduce Roller wear & Tear
• Judder Free Ride	



Weight Roller

• Smooth Accelerationhigh	• Better Performance
• Torque on Low Rpm	• Reduce Weight Roller Wear & Tear
• Judder Free Ride	



Chain Kit

• Advanced Heat Treatments	• High Carbon Sprocket
• DNA of Moto GP	• Shot Peened Hardened Surface

## Comparative Report of MAKINO & COMPETITOR


BRAKE SHOE MAKINO Vs COMPETITOR				21.10.2019
S.No.	Description	Makino	Competitor	Remark
1	Lining Thickness (HERO CD-100)	 4.0mm	 3.33 mm	 MAKINO with more lining thickness
2	Complete Weight	 172 GM	 164 gm	 MAKINO with Heavy in weight
3	Alodination (Surface coating)			 MAKINO with surface coating.

**Competitor usually reduce specification to make product cheaper (by reducing the content of aluminum)**

## Disc Brake Pad Comparative Report of Makino & Competitor

Sl.No	Test	Equipments	Unit	Standard Specification	Results (After Market)	Makino	Competitor
1	Density (g/cc)	Density meter	(g/cc)	2.40-2.60	2.57	2.51	2.35-2.80
2	Hardness (HRR)	Hardness tester	(HRR)	85±15	80-87	80 - 90	
3	Coefficient of friction						
4	Normal (μ)	FCTR	-	0.35-0.55	0.388	0.415	0.30 - 0.35
5	Hot (μ)		-	0.35-0.55	0.373	0.391	0.29 - 0.37
6	Wear data						
	Mass (%)	FCTR	(%)	10 Max	6.49	3.98	3.98
	Thickness (%)		(%)	10 Max	10.86	6.40	6.40

REMARKS :- Competitor part has more wear than Makino

7	DISC BRAKE PAD		LXW = 120X120 HEIGHT : 20 WEIGHT : 200gm	PROUDCT NAME :- DBP (DISC BRAKE PAD) VEHICLE CATEGORY :- TWO WHEELER. PRODUCT RANGE :- 100cc TO 350cc. PRODUCT FEATURES :- 1. REDUCED DISC WEAR 2. LOWER FADE 3. ENCHANCED OE BRAKING STSTEM 4. ECO FRIENDLY
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# INTRODUCING **INDIA'S FIRST** **BSK** BRAKE SHOE KIT



Part No.	Application
301-02m3001BSK	PLSR/DSCVR (F&R) CLBR 115
301-07m3001BSK	CD DWN / STREET (F&R)
301-07m3002BSK	SPLDR / PSSN (F)
301-07m3003BSK	SP SPLDR / GLMR
301-13m3006BSK	SUMUR / JUPTER
301-13m3009BSK	WEGO
301-16m3001BSK	ACTIV / ETRNO / DI (F&B)
301-16m3003BSK	ACTIV NEW / LIVO / HRNT

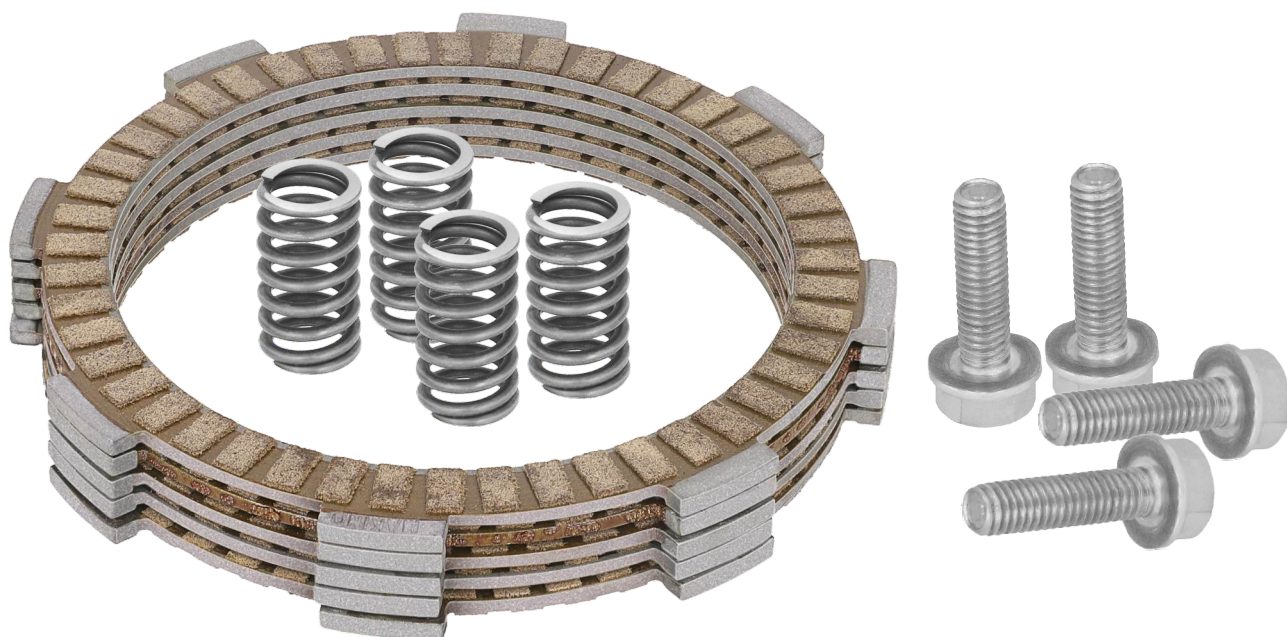
Features :-

1. NON - Asbestos
2. Longer Life
3. OEM - Endorsed
4. Cutting Edge Technology





# INTRODUCING **INDIA'S** FIRST **CPK** CLUTCH PLATE KIT



Part No.	Application
301-03M3013CPK	BAJ PLSR 150CC UG4.
301-02M3001CPK	BAJ CT 100
301-07M3003CPK	SP SPLDR
301-16M3002CPK	HNDA UNICO
301-13M3005CPK	T.V STAR
301-13M3006CPK	T.V APCH RT 160 / 180CC

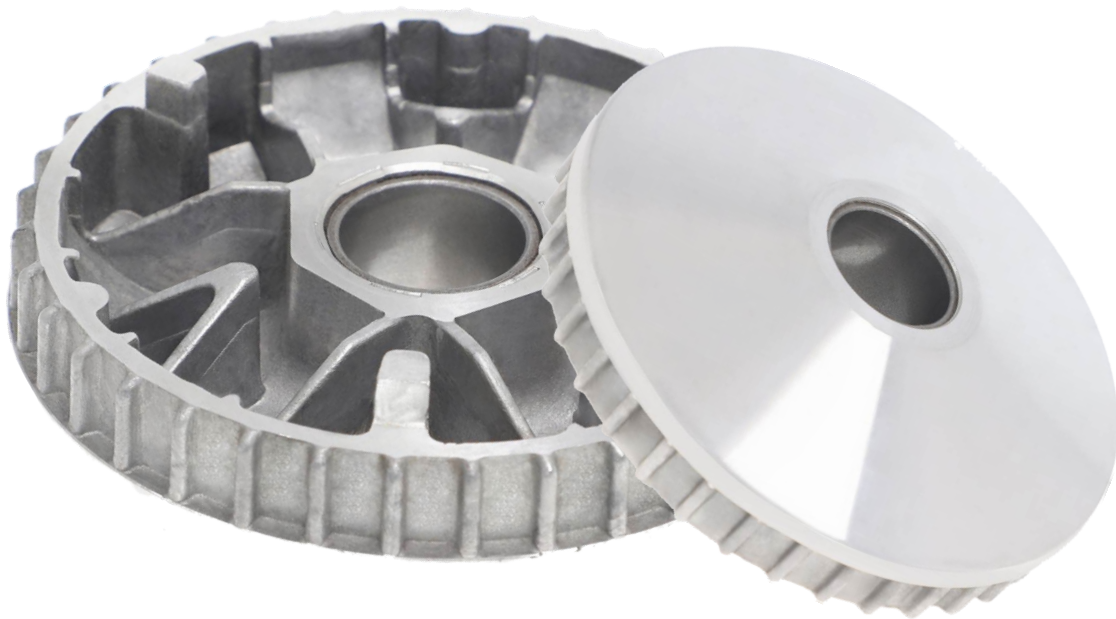
## Features :-

1. Smoother Gear Change
2. Longer Life
3. OEM - Endorsed
4. Cutting Edge Technology



# VARIATOR

## MOVABLE DRIVE



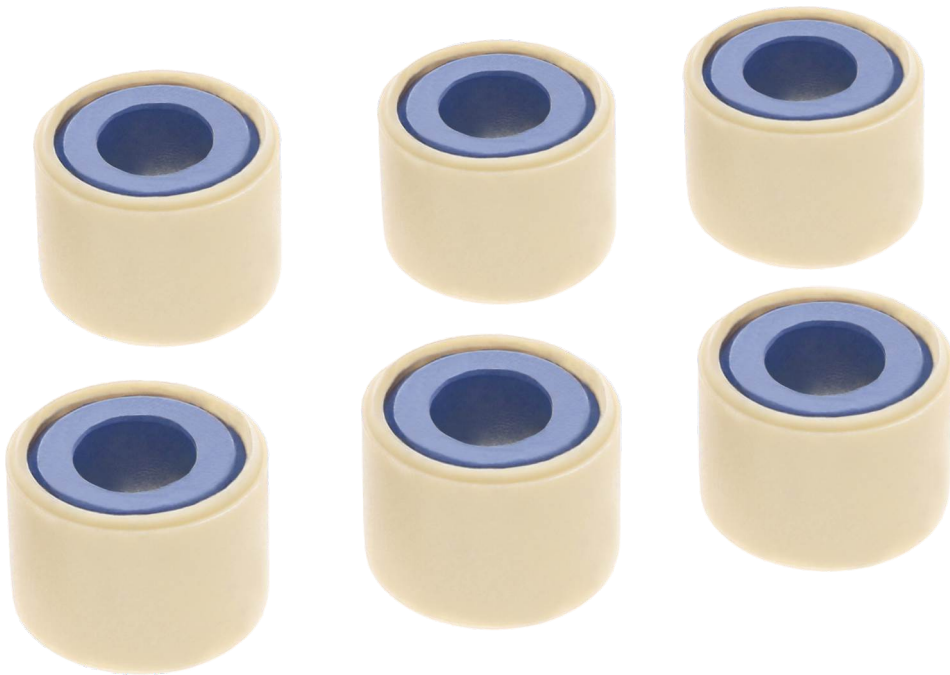
Part No.	Application
301-16M2001VTR	ACTIV OLD
301-16M2002VTR	ACTIV NEW
301-16M2003VTR	ACTIV 3G

### Features :-

1. Smooth Accelerationhigh
2. Torque on Low Rpm
3. Judder Free Ride
4. Better Performance
5. Reduce Variator Wear & Tear



# WEIGHT ROLLER



Part No.	Application
301-16M2001RLR	ACTIV OLD
301-16M2002RLR	ACTIV NEW
301-16M2003RLR	ACTIV 3G

Features :-

1. Smooth Acceleration high
2. Torque on Low Rpm
3. Judder Free Ride
4. Better Performance
5. Reduce Weight Roller Wear & Tear





# SPECIALISED HIGH PERFORMANCE BRAKE SHOE SPRINGS



**2W**

**Features :-**

1. Longer Life
2. OEM Endorsed
3. Cutting Edge Technology

Part No.	Application
301-02m3001BSK	PLSR / DSCVR (F&B)
301-07M3003BSK	SP SPLDR / GLMR / GLMR (F&B)
301-13M3006BSK	SAMUR / JUPTR (F&B)
301-16M3003BSK	ACTIV NEW / LVO / HRNT

Part No.	Application
301-03M4001BSK	O/M Baj 3W CNG
301-03M4002BSK	N/M Baj 3W CNG
301-03M3002BSK	TV KING 3W

**Features :-**

1. Longer Life
2. OEM Endorsed
3. Cutting Edge Technology



**3W**

## Group Companies



Manufacturing Plant -1  
**Makino Auto Industries Pvt. Ltd.**  
OEM Business Center and Corporate Office  
Noida- Uttar Pradesh



Manufacturing Plant -2  
**Makino Automotive**  
Spare Parts Business, OE, Scooter India  
Haridwar Uttarakhand



Manufacturing Plant -3  
**Makino Auto Industries Pvt. Ltd.**  
OEM Business Center and Corporate Office  
Noida- Uttar Pradesh

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