RACE GUARD GEAR

STAY FAST. STAY PROTECTED

MOTOREXPLORE SOLUTIONS PVT LTD

1. Tyres

Hoosier Slick tyres



Hoosier Wet tyres



Product code	Size	DIA	Rim width	Weight
44070	16x7-10	16.2	6.0-7.0	3.3
44115	18x6.0-10	17.8	6.0-8.0	4.3
44150	20x7.5-13	20.6	7.0-8.0	5.8
44185	21x6.5-13	21.2	6.0-8.0	4.9

RACE GUARD GEAR

Go-kart tyres



Size	Brand	Position	Compound
10x4.5-5	BKT	Front	Slicks/Dry
10x4.5-5	DURO	Front	Wet
11x7.1-5	BKT	Rear	Slicks/Dry
11x6.0-5	DURO	Rear	Wet

DDWT A5 series



Model No.	sizes (inches)	Holes	PCD (mm)	Offset	Weight (kg)	Wall thickness (inches)
A511-03	10x5	4	144	3B+2N (+0.5")	1.4	0.125
A511-23	10x5	4	144	4B+1N (+1.5")	1.4	0.125
A514-03	10x5	4	156	3B+2N (+0.5")	1.4	0.125
A514-42	10x5	4	156	4B+1N (+1.5")	1.4	0.125

DWT Blue Label



Model No.	sizes (inches)	Holes	PCD (mm)	Offset	Weight (kg)	Wall thickness (inches)
006-12	10x5	4	110	3B+2N (+0.5")	1.5	0.125
006-13	10x6	4	110	2B+4N (-1.0")	1.5	0.125
006-33	10x6	4	110	4B+2N (+1.0")	2.2	0.19
006-15	10x8	4	110	3B+5N (-1.0")	1.9	0.125

Capricorn wheels



Model No.	sizes (inches)	Holes	PCD (mm)	Offset	Weight (kg)
006-12	10x5	4	110	3B+2N (+0.5")	1.5
006-13	10x6	4	110	2B+4N (-1.0")	1.5

Steel wheels



sizes (inches)	Holes	PCD (mm)	Offset	Weight (kg)
12X6	4	110	Positive	5.9
10X5.5	4	110	(+17mm)	3

Aluminium Rims



Model No.	sizes (inches)	Holes	Type	Weight (kg)
Go-kart front	5x125mm	3	Bearing type	0.75
Go-kart rear	5x180mm	3	Bolt-on	0.75

Steel Rims



sizes (inches)	Holes	Offset	Weight (kg)
6x4	3	0	0.7
7x4.5	4	0	1.05
8x5.5	4	+15mm	1.4

Continental FSAE tyres



Product code	Size	Compound
43329/43335	205/470 R13	SLICK
44304	205/470 R13	WET

2. Electricals



6-Phase PMSM Motors

Rated Power	Rated Voltage	Max Torque	Protection Class
2kW	48V	60nm	IP67
3kW	48V	70nm	IP67
4kW	48V	70nm	IP67
5kW	48V	80nm	IP67
6kW	48V	80nm	IP67



PMSM MOTOR CONTROLLER

Rated Power	Rated Voltage	Max Current	Protection Class
3kW~5kW	48V	150A	IP67
5kW~6kW	48V	180A	IP67

INDEPENDENT SUSPENSION DRIVE SYSTEM





ACCELERATOR PEDAL



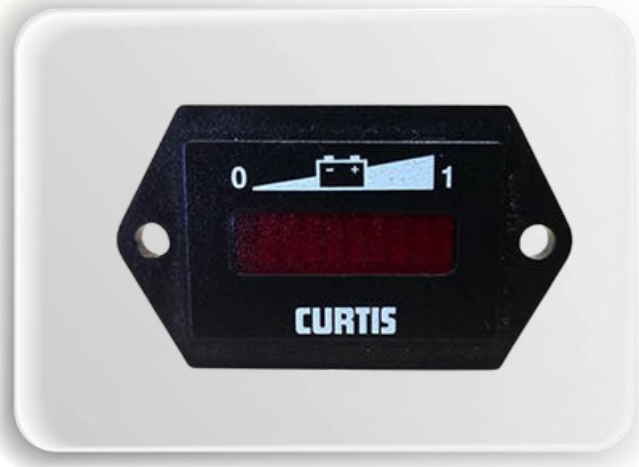
FOR/REV SWITCH



123 MODE SELECTOR SWITCH



BATTERY CHARGE INDICATOR



2.Steering and suspension



STEERING WHEEL

Size	Shape	Mounting Pattern
10 Inches	Round	3 Hole
10 Inches	D-shape	3 Hole
12 Inches	Round	6 Hole
8 Inches	D-shape	Bore



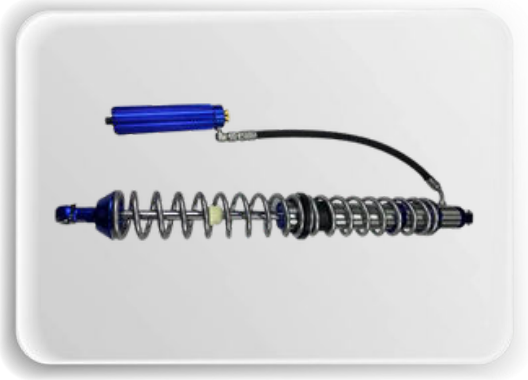
QUICK RELEASE

- Material: Made of aircraft grade aluminum
- Fits any 6 Hole Hub steering wheels with a 70mm/2.76" bolt pattern
- Fits all aftermarket steering wheels (NRG, MOMO, SPARCO, etc).



FOX SUSPENSION

Name	Model Number	Length [inches]	Series
Float 3	830-10-301	16.2	Factory Series
Float 3 Evol R	830-19-309	18.2	Factory Series
Float 3 Evol R	830-24-107	21	Factory Series
RC2 Float	939-99-471	19.13	Performance series



OFFROAD COILOVER SUSPENSION

Name	Length [inches]	Travel [inches]
King Suspension	18.5	6



DNM SUSPENSION

Model	Eye to eye length (mm)	Travel [mm]	Spring Rate[lbs]
RCP 2S	190	51	450
RCP 2S	210	61	450

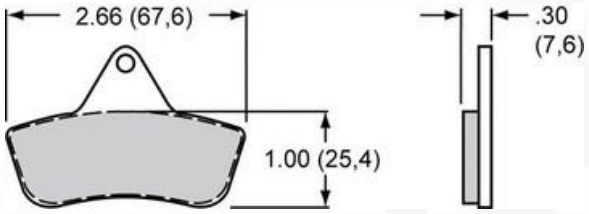
2.Braking



WILWOOD PS1 CALIPERS

- Model No.: 120-8373 RH
- Model No.: 120-8374 LH
- Weight: 0.45 kg
- Piston count: 2
- Piston bore (in): 1.12

WILWOOD PS1 BRAKE PADS



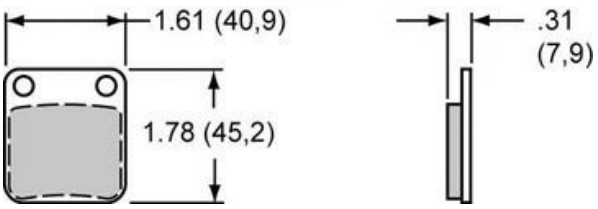
- Model No.: 150-4091K
- Area (Sq. in): 2
- Thickness (in): 0.30



WILWOOD GP200 CALIPERS

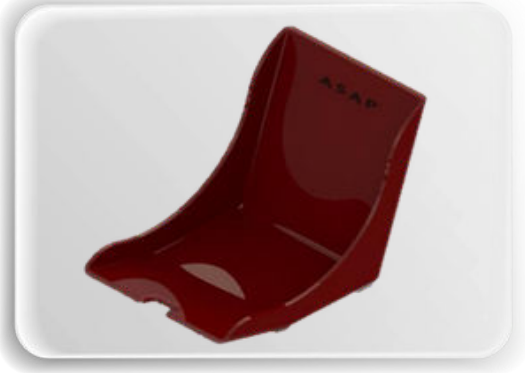
- Model No.: 120-12178
- Piston count: 2
- Bore (in): 1.25
- Weight: 0.4 kg

WILWOOD GP200 BRAKE PADS



- Thickness (in): 0.31
- Area (Sq. in.): 1.83
- Model: 150-14407K (Composite Metallic)
- Model: 150-12270K (Purple, Alum Rtr)

3. Accessories



Seat

- Black seat for Buggy FRP Seat
- Ideal for go kart and drift trike



Go-Kart Brake Assembly

- Includes: Master cylinder, caliper, brake line, disc, disc-holder, etc.
- Ideal for Go-Karts and off road karts.



Petrol Tank

- Capacity: 5 L
- Designed specially for go-kart

RACE GUARD GEAR

THUMB THROTTLE



Go-Kart HUB



BRAKE MOUNT



FRONT KNUCKLES





Certification	SFI 3.2A/5
Brand	BELTENICK
Material	NOMEX
Event	SAE SUPRA, Formula Bharat, FSAE

RACE GUARD GEAR

RENTAL EQUIPMENT

- Double Layer Suit
- Innerwear
- Balaclava
- Gloves
- Boots
- Nomex Socks
- Neck Support
- 6-point Harness
- Arm Restraint

FULL SUIT RENTAL PACKAGES

1 QTY. FULL SUIT

Karting / Track Days / Practice Sessions

- Complete Driver Kits
- Cost-Effective for Teams
- 6-Point Harness Included
- Arm Restraint Included

Price on Request

Per event

PRO

Formula Bharat / SAE / Professional Racing

- Everything in Full Kit
- 6-Point Harness Included
- Arm Restraint Included

Price on Request

per event

2 QTY. FULL SUIT

Teams / Endurance Events / Competitions

- 2 Complete Driver Kits
  Dedicated support
- Arm Restraint Included
  (optional without cost)

Price on Request

Per event

OTHER SERVICES

RACE GUARD GEAR Protection · Performance · Precision

Race Guard Gear is a one-stop destination for motorsport riders, racing teams, and engineering enthusiasts. We combine premium riding gear and protective equipment with professional-grade custom manufacturing and technical consultation, making us the only brand that supports you both on and off the track. Whether you are suiting up for your morning ride, competing at a national-level SAE event, or building your next race machine from scratch, Race Guard Gear is your trusted partner at every stage.

CUSTOM MOTORSPORT PARTS MANUFACTURING

Precision-Built. Race-Ready. Uncompromising. At Race Guard Gear, we go beyond gear we build the machines that push limits. Our custom motorsport parts manufacturing service is tailored for competitive racing teams, engineering students, and performance enthusiasts who demand components crafted to exact specifications. From concept to component, we handle the complete production workflow including design validation, material selection, machining, fabrication, and quality inspection. We manufacture chassis brackets, mounting plates and structural weldments, suspension components including control arms, uprights and knuckles, custom drivetrain and powertrain housings, brake system components and pedal box assemblies, steering columns, hubs and custom fasteners, aerodynamic bodywork and monocoque panels, and roll cages and safety structures. We work with chromoly steel, aluminium alloys, mild steel, titanium, and composites to deliver exactly what your build demands.

MANUFACTURING CONSULTATION

From Blue print to Build Floor. Our engineering consultation service bridges the gap between design and manufacturing. We work with your team to review CAD models, identify manufacturability issues, recommend material choices, and optimise parts for strength-to-weight ratio and cost efficiency. Whether you are refining a design before fabrication or troubleshooting a failed component mid-season, our consultants bring real-world motorsport manufacturing knowledge to your project. Our consultation covers design for manufacturability reviews, material and process selection guidance, tolerance stack-up and fit analysis, weld design and structural review, cost and lead time optimisation, vendor coordination and sourcing support, and mid-season component troubleshooting.

RACE GUARD GEAR

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