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NB Auto Pte. Ltd.

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Vehicle Specification (Mono R - 2022)



Dimensions and Weight

Overall Width	1836 mm
Overall Length	4007 mm
Height	1085 mm
Wheelbase	2565 mm
Ground Clearance	100 mm (f) / 110 mm (r)
Weight	555 kg*
Power-to-Weight	613 bhp per tonne
Weight Distribution	49% (f) / 51% (r)

Engine

Type	Normally aspirated, 4 cylinder, in-line, semi-structurally mounted
Displacement	2488 cc
Configuration	In-line, 4 cylinders
Number of Valves	16
Bore x Stroke	89 mm x 100 mm
Maximum Power	340 bhp
Maximum Torque	330 Nm
Construction	Forged connecting rods and forged pistons
Lubrication System	Dry sump with internal scavenge pump
Camshafts	Performance inlet and exhaust camshafts and uprated valve springs
Induction System	Gas flowed cylinder head with individual butterfly port throttles
Intake System	F3 style aero optimized carbon inlet, remote filtration system and carbon airbox
Exhaust	BAC developed, 4 into 2 into 1 lightweight, Inconel centrally mounted exhaust system
	Specialized Control Systems Delta 880
Engine Management	Master Kill Switch
Safety	6 stage traction control (+off)
	FIA compliant plumbed-in Lifeline Fire Extinguisher System
	AP Racing (sintered high performance)
Clutch	Intelligent launch control

*Dry weight and subject to options

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Fuel System

Construction	Custom alloy fabrication with internal baffles and collector system
Capacity	36 litres
Fuel Pump	ATL in tank high pressure fuel pump, with two stage filtration
Filler	Lockable billet aluminium filler cap

Gearbox and Driveline

Model	Super lightweight magnesium Hewland FTR, fully stressed with integral engine oil tank
Type	6 speed sequential
Differential	Powerflow LSD
Lubrication	Splash
Final Drive	Final drive 9:31
Ratios	1st = 12:38 2nd = 14:33 3rd = 15:27 4th = 18:25 5th = 24:27 6th = 24:24
Gear Selection	Pneumatic semi-automatic closed loop system operated via steering wheel mounted paddles Shiftec valve block Switchable auto upshift
Driveshafts	GKN / BAC developed, low friction and uprated

Lubrication/Fluids

Type	Motul developed 5W50, fully synthetic engine oil Motul developed 300 LS 75W90 gearbox oil Motul developed RBF 600 brake & clutch, single centralised reservoir Motul developed Inugel optimal coolant

Steering and Suspension

Steering	BAC/Titan developed high ratio rack, 1.7 turns lock-to-lock
Type Front	Adjustable pushrod activated twin wishbone system with needle roller bearing mounted bell cranks, rising rate, optimized camber change and roll centre position, full Ackermann geometry, shim adjustable camber
Type Rear	Gearbox mounted, Adjustable pushrod activated twin wishbone system with needle roller bearing mounted bell cranks, rising rate, optimized camber change and roll centre position, shim adjustable camber
Wishbones	TIG welded Seamless CFS3 steel uprated aero tube twin wishbone
Uprights	Ultra light, billet aluminium uprights front and rear
Dampers	Two way adjustable Ohlins Dampers
Springs	Race spec Eibach 280lb front and 325lb rear rising rate jounce rubbers
Anti-Roll Bars	Front and rear torsion bar

Vehicle Construction

Body Type	Graphene enhanced, super light carbon composite body panels, 2x2 twill visible matte carbon lower body panels
Safety Cell	2nd generation ‘optimised’ chassis for increased interior space TIG welded cold drawn seamless tube RACMSA & FIA compliant ROPS Carbon fibre performance crash box STFC – developed & tested low drag aero package
Aero	BAC developed cockpit aero screen

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Brakes

Calipers	AP Racing, Formula Car Caliper - Radial 4 Piston (F & R)
Discs	AP Racing, 295 mm carbon ventilated discs, crossed drilled, billet machined mounting bells (F & R)
Parking Brake	Electronic parking brake, steering wheel operated
Pedal Box	BAC designed and developed, adjustable, billet, floor mounted pedal box with ball bearing mounted billet pedals with integrated clutch rest
Brake Bias	AP Racing cockpit adjustable brake bias

Wheels and Tyres

Wheels (f):	O.Z. Racing / BAC developed HRT alloy 7.5j x 17in
Wheels (r):	O.Z. Racing / BAC developed HRT alloy 8.5j x 17in
Tyres (f):	Bespoke Pirelli Trofeo R / BAC developed 205/45 R17
Tyres (r):	Bespoke Pirelli Trofeo R / BAC developed 255/40 R17

Interior

Seat	BAC developed fixed position carbon fibre
Trim	“Extreme” waterproof leather, Microcare MC waterproof “suede”
Steering Wheel	BAC developed 290mm diameter carbon fibre rim with billet aluminium housing GEMS LDS4 colour display system Illuminated switchgear 6 pin quick release steering boss
Seatbelts	Schroth 5/6 point harness, FIA compliant

Maintenance

Features	Quick-lift Jack Remote Battery Charge Socket Aluminium Towing Eyes (Front & Rear) Super ‘B’ ultra-lightweight lithium battery Paint protection film on lower body and leading edges