



V8 SUPERCARS AUSTRALIA PTY LTD
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Invitation to Tender for Supercars Control Wheel 2021-2025

1. Introduction

The governing body of Supercars Australia is seeking tenders for the exclusive supply of control wheels. The supply agreement shall commence in 2021 to facilitate the development of the sport's new racing platform and prototype, GEN3, to be raced at the commencement of 2022 Supercars championship season. The supply agreement is for a term of 5 years.

As part of the process, we are looking at various options which are listed in this document.

2. Timeline

a. Supercars issue RFQ	Thu 27/08/2020
b. All questions relating to RFQ sent to Supercars	Fri 04/09/2020
c. Final quotes received	Fri 11/09/2020
d. Selection date (SC may vary this date at its discretion)	Wed 23/09/2020

3. Technical Requirements

- a. Wheel specifics:
 - i. 18" x 11"
 - ii. Maximum wheel weight: 11.75kg
 - iii. Tyre tread width: 290 to 300mm
 - iv. Tyre rolling diameter: 680mm
 - v. Drive pegs & PCD: 120mm
 - vi. Wheel nut goes flat to face (ID 60mm, OD 80mm)
 - vii. Retained nut method: captive in the wheel.
 - viii. Nominal center bore: 60mm
 - ix. Offset: +25mm
 - x. Must integrate bf1 Systems TPMS sensor.
 - xi. Wheel needs to be "finger friendly" for pit stops and general handling.
 - xii. Design of the wheel must stay clear of the "no go" zone as supplied in CAD.
- b. Car specifics:
 - i. Mechanical
 - 1. 1400kg inc. driver & fuel
 - 2. Weight distribution: 51/49
 - 3. CoG 470mm
 - 4. Wheelbase 2765mm
 - 5. Track 2000mm (Outside of tyre)
 - ii. Aerodynamic
 - 1. 300N Front 600N Rear @200km/h MAXIMUM
 - 2. CdA 1.15 (Approx.)
 - iii. Engine approximately 600Hp, rear wheel drive
 - iv. Tyre: 280/680R18



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- v. Control front and rear suspension
 - vi. Braking performance: 1.5G
- c. FEA to be carried out by Supercars for validation (load cases available on request).

4. Commercial

- a. It is anticipated that there will be components required for a total of minimum 24 Supercars built during 2021 and racing in 2022 (though this number may vary marginally depending on total number of competitors in the Series), following which additional supply requirements will be in accordance with demand as required.
- b. Price must apply to volumes of around 30 to 40 wheels purchased per car each season.
- c. Your tender must address each of the three (3) pricing options:
Please provide your pricing options based on a delivery of 720 (30 wheels x 24 cars) control wheels in June 2021.
 - i. Option 1
 - 1. Cost per unit (Control Wheel) including applicable taxes.
Supercars to incur costs for freight, duties etc. from port of origin and distribution to Teams.
 - ii. Option 2
 - 1. Cost per unit (Control Wheel) including applicable taxes; *plus*
 - 2. Import duties and other applicable charges; *plus*
 - 3. Freight for delivery to Australia (Brisbane, Queensland) and then sent to Supercars warehouse (Gold Coast, Queensland).
Supercars to incur distribution costs to each Teams across Australia.
 - iii. Option 3
 - 1. Cost per unit (Control Wheel) including applicable taxes; *plus*
 - 2. Import duties and other applicable charges; *plus*
 - 3. Freight and distribution costs to each of the Teams across Australia (See Appendix B for the location of each Teams).
- d. The supplier is not required to provide track support for race meetings and Supercars Test Days.
- e. The supplier must ensure that availability of parts throughout the lifetime of the agreement will not affect Supercars supply and/or cost.
- f. Any branding of the Control Wheel to be agreed with Supercars.
- g. Any prices quoted, other components or any services will apply for the duration of the term.



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- h. Any quoted prices must be in AUD and the foreign exchange risk will be the supplier's risk.
- i. The successful Control Wheel supplier will not be able to enter any particular or exclusive arrangement with any Supercars Team.
- j. Prototype Components sufficient for two (2) Supercars must be supplied to Supercars at its nominated address by no later than Monday, 4 January 2021.

5. Control Wheel Sign Off Test

- a. Track testing is required to sign off the parts. If occurring outside a session organized by Supercars, the organization and cost is the responsibility of the Control Supplier.

6. Tender Document

It is expected that each tender document, due for delivery on or before 04/09/2020, will include the following:

- a. Complete bill of material, including component weights, defining all components to support the function of the Control Wheel and a CAD file in STEP format.
- b. Approach of the engineering phase, if required, and detailed timing plan including the sign off testing.
- c. The warranty terms and conditions that will apply to the Control Wheel detailing limits for all relevant parameters.
- d. As much as is possible, details of any projects the potential supplier/manufacturer has delivered or is delivering which relate to the technical or operational aspects of this projects. For each project, the role of the supplier/manufacturer should be detailed and with whom the contract exists or existed.

7. Delivery point

All tenders should be delivered (either by post, e-mail or hand delivery) to:

Mr. Vincent Dumarski
Technical Projects Manager
Supercars Australia Pty Ltd
45 Nerang Street
Southport, Qld 4215

E-mail: vdumarski@supercars.com



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8. Final Note

The selection of the winning bidder will be at Supercars' complete discretion. Additionally, there is no guarantee that a bidder will be successful.

Appendix A

No Go Zone CAD and bf1 Systems TPMS sensor CAD available on request.

Appendix B

Brisbane & GC Area: 3 Teams (6 Cars)

Melbourne: 6 Teams (14 Cars)

Albury: 1 Team (4 Cars)

Sydney: 1 Team (2 Cars)