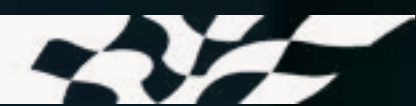


CIVIC **TCR**

HONDA CIVIC

TYPE R TCR

HPD 



JAS
MOTORSPORT

TYPE **R**



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INTRODUCTION

Honda Performance Development (HPD) and JAS Motorsports present the new FL5 Civic Type R TCR for competition in 2023.

The new race car, which is based on the latest FL5 Honda Civic Type R production model revealed in 2022, builds on the great success achieved by its predecessors.





TYPE R

**01
DESIGN**

BODYWORK

- Exterior aerodynamics design by CFD
- Front/rear carbon fenders
- Front/rear carbon bumper
- Carbon side skirts
- Hood vent trim panels
- Carbon front splitter
- J.A.S. rear wing and mounts
- Front composite inner arch liners

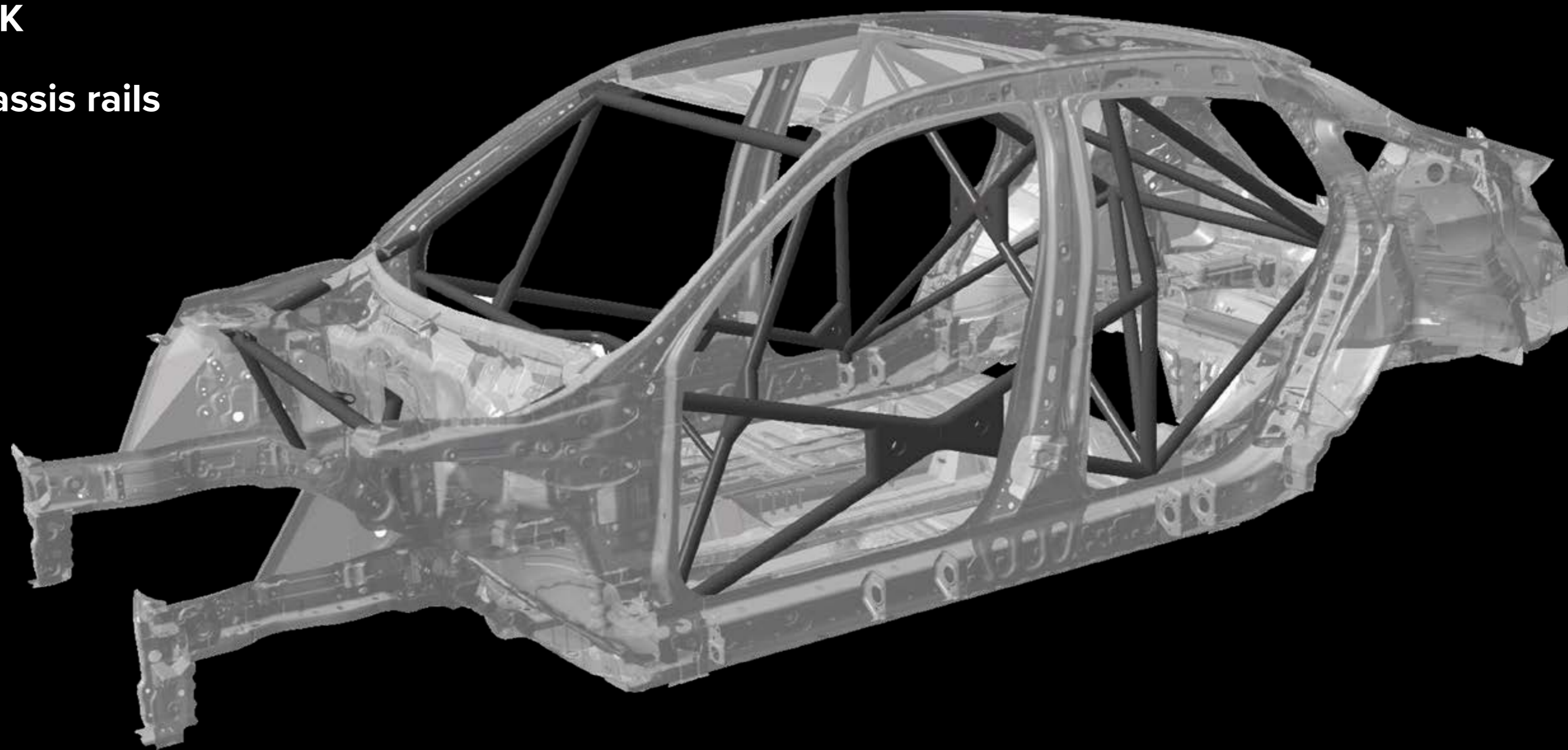


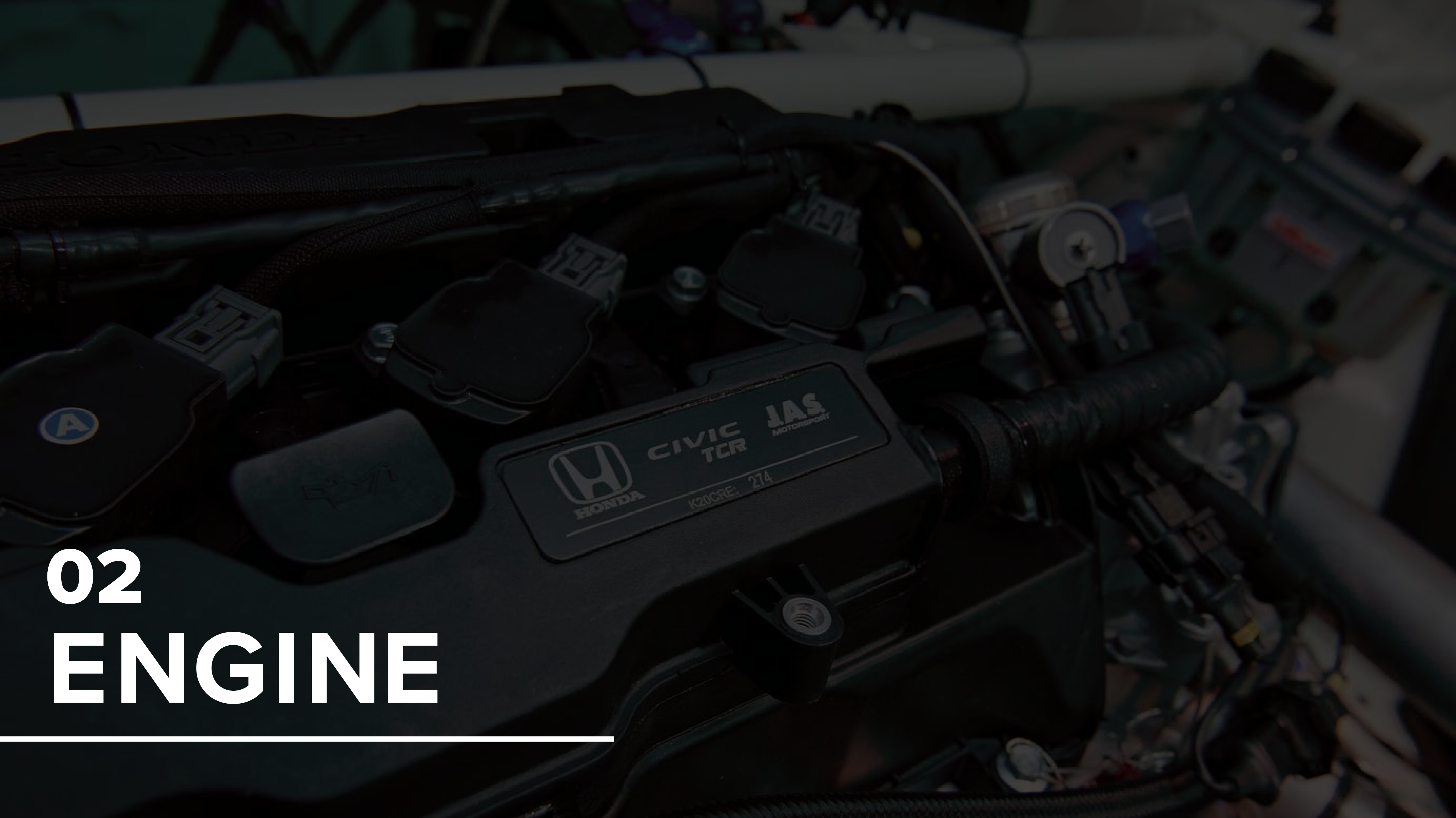


CHASSIS

CHASSIS DESIGN

- TIG welded roll cage in chrome-molybdenum steel
- Rolling cage homologation by MSA-UK
- Seam welding of body panels and chassis rails
- Light weight chassis painting
- Endurance ready chassis
- Floor tunnel redesign for lower and centered seat position
- Extensive modification on wheel arches for lowered setup





02 ENGINE

ENGINE AND SYSTEMS

ENGINE AND SYSTEMS

- Engine calibration by J.A.S. , 340hp and 410Nm torque (TCR98 RON spec)
- Competition stainless steel exhaust with cat converter
- Billet engine mounts
- New J.A.S. developed turbocharger
- Carbon air intake with polyester filter
- 6kg light weight flywheel
- ECU map and engine sealed by J.A.S.
- Modified water system

ENGINE CONTROL



ENGINE CONTROL

- Marelli SRG141 ECU with and J.A.S. calibrated maps
- Fuel pressure sensors, lambda, MAP sensor, water and oil pressure/temperature sensors, active knock control and ETB installed on engine
- Pit speed limits adjustable by steering wheel
- Launch control
- Cruise control for FCY

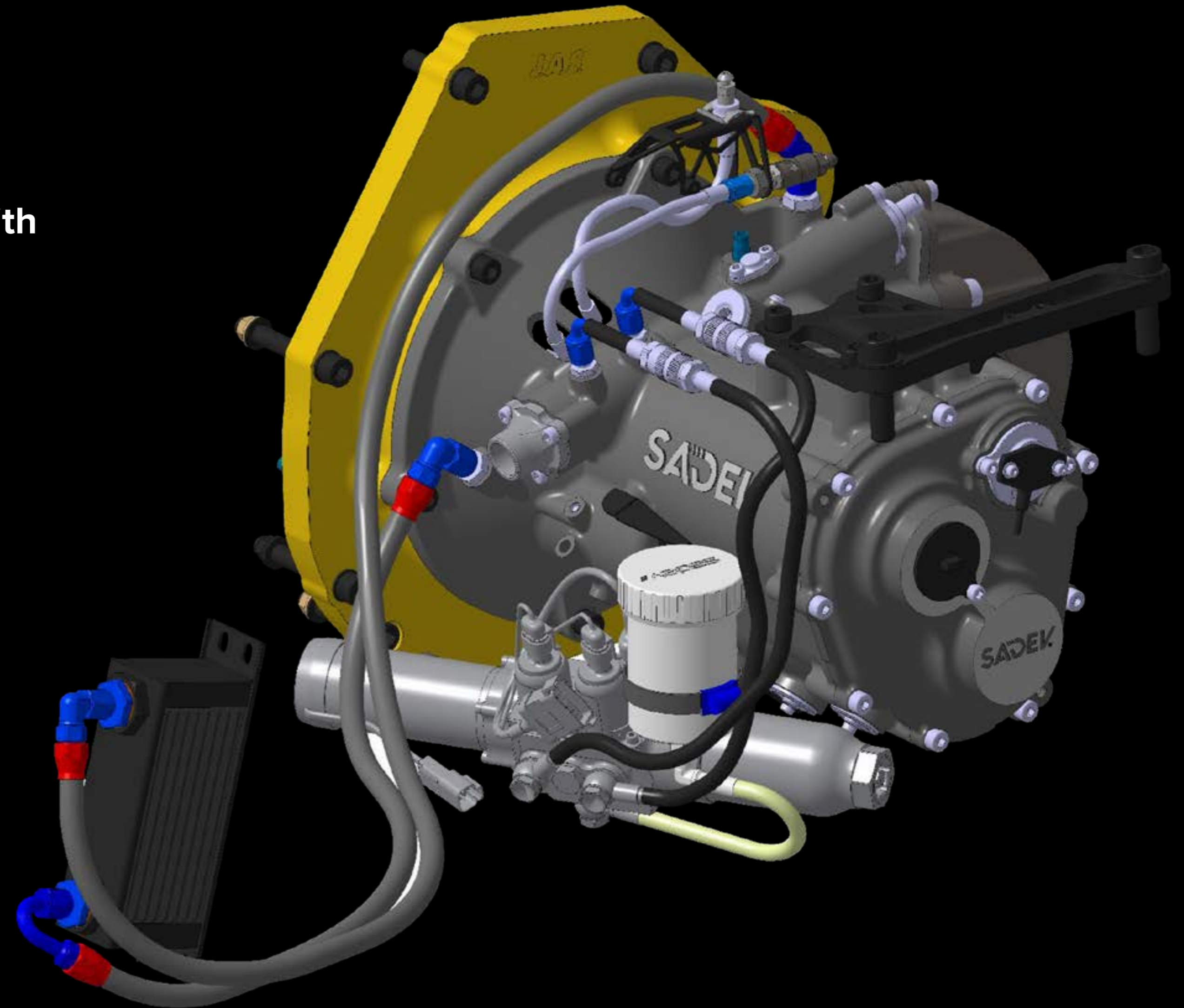
SADEV GEAR BOX

GEAR BOX

- NEW Sadev ST90-17 6speed sequential Gearbox, with integrated actuator for paddle shift mechanism
- NEW hydraulic Sadev pressure unit
- NEW J.A.S. 3 Discs 184mm sintermetallic clutch
- Lightweight billet supports
- Easy cluster removal
- Adjustable preload from outside
- Quick disconnect clutch line

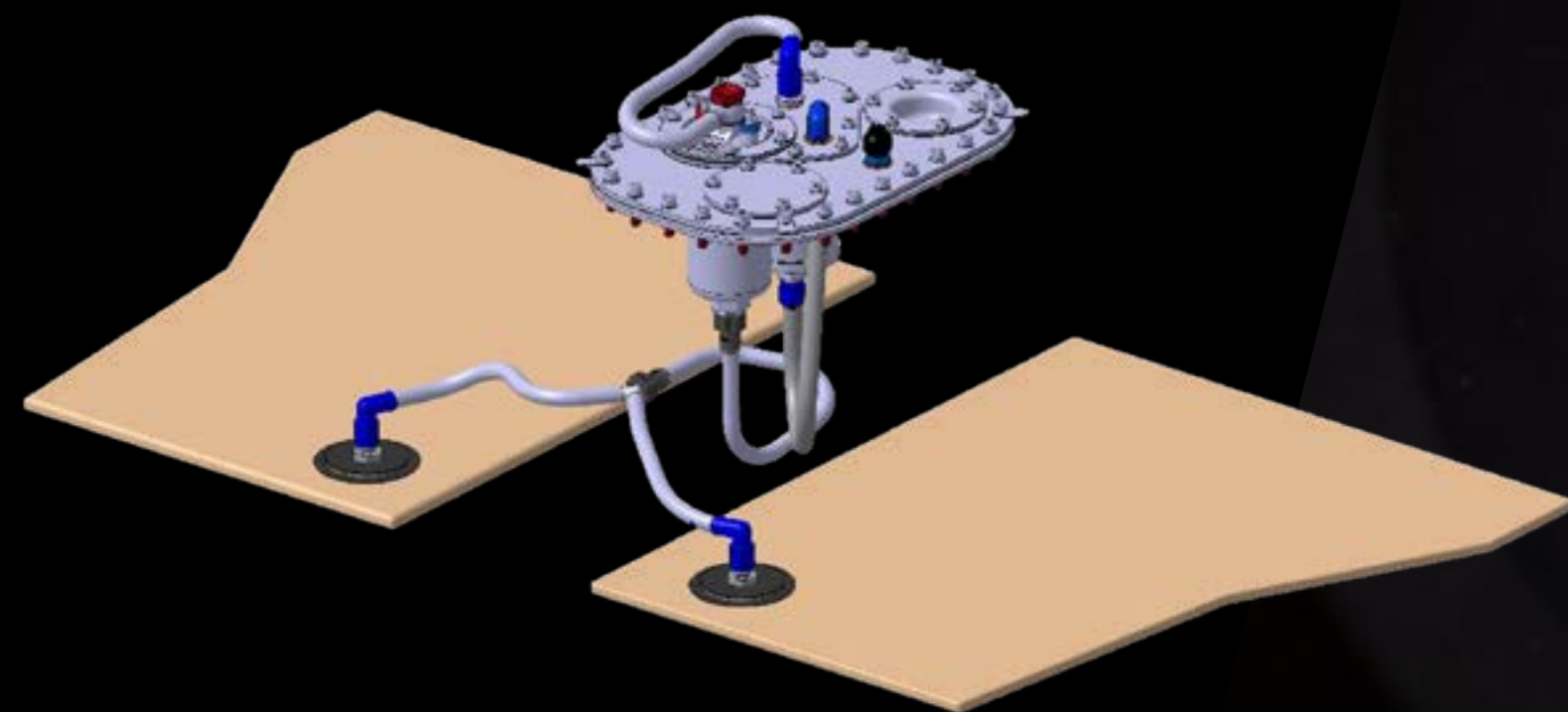
OPTIONAL

- Various homologated ramps



FUEL SYSTEM

- NEW FT3 bladder 100lt without lift pumps
- No fuel return from engine to tank
- Aerospace quality hoses and fittings
- Lightweight carbon / aluminium covers
- FIA dual port dry break refueling



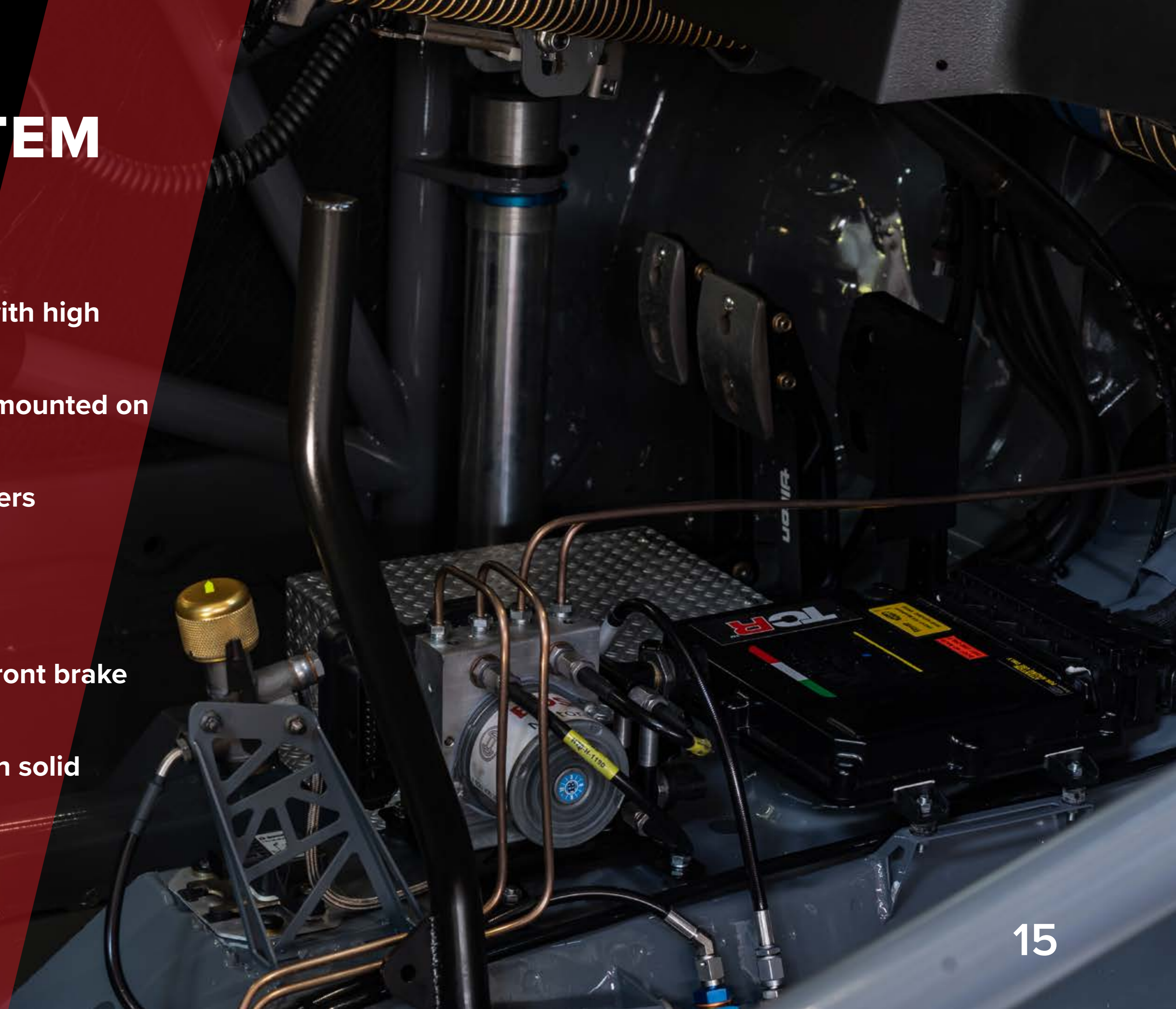
A close-up, low-angle shot of a motorcycle's front brake system. The image is dark and moody, with a focus on the brake pads and the caliper. The brake pads are dark and have a textured surface. The caliper is black and has the word "BREMBO" visible on it. The background is blurred, showing parts of the motorcycle's frame and suspension. The overall tone is industrial and technical.

03
BRAKING SYSTEM

BRAKING SYSTEM

BRAKING

- New Tilton floor mount pedal box with high accuracy bias system
- New Monit brake bias with display mounted on steering column
- High efficiency Tilton master cylinders
- Hydraulic handbrake (rally style)
- Footrest and Heel stop
- New JAS design monoblock 6 pot front brake calipers on 380x34 D54 discs
- 2 pot forged rear brake calipers with solid 260x9 discs

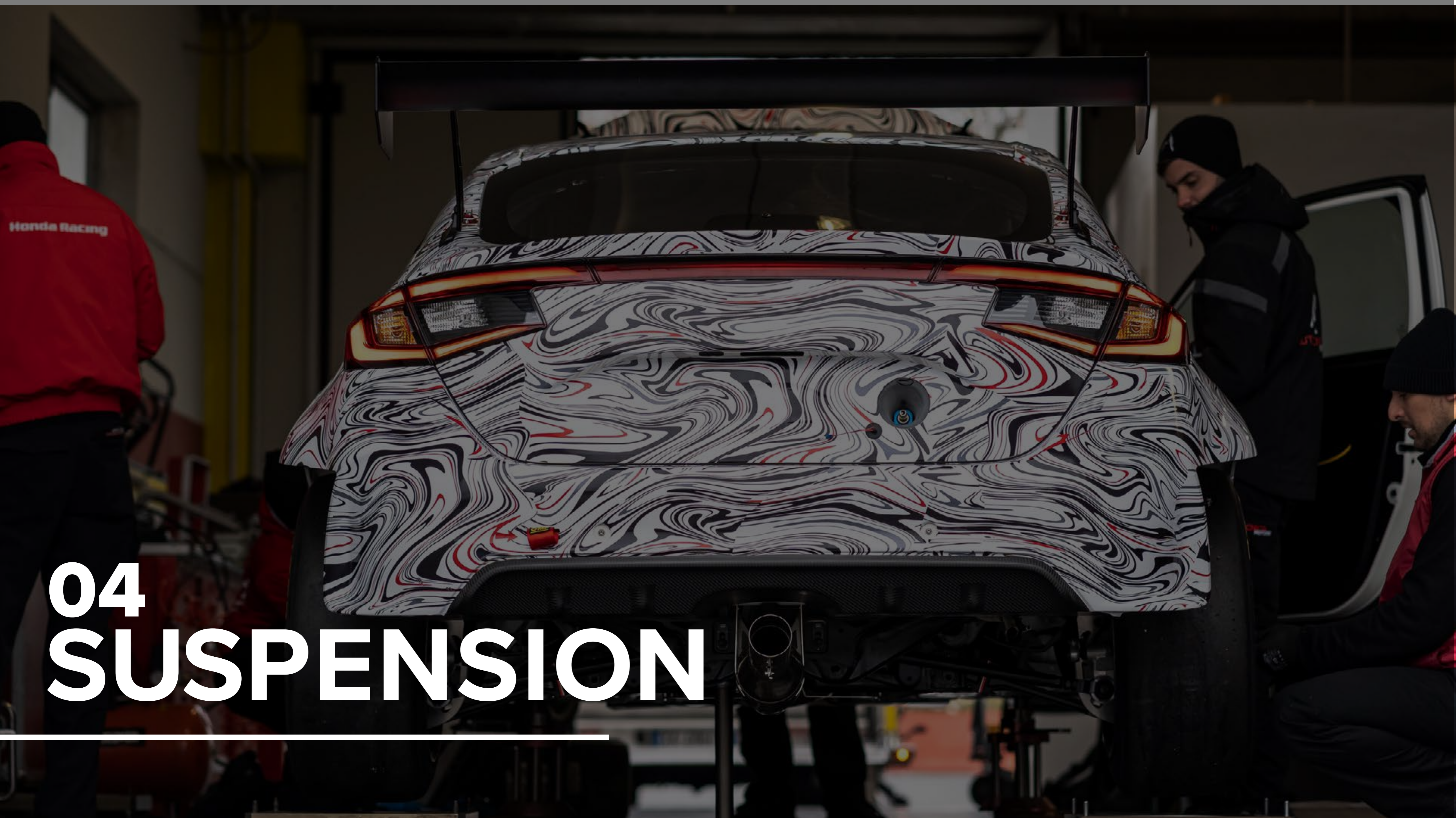


BRAKING SYSTEM

ENDURANCE BRAKES

- Bosch M5 ABS system
- 12 ABS settings with rotary switch on steering wheel
- Rear pressure limiter knob installed for balanced braking





04 SUSPENSION

SUSPENSION

FRONT SUSPENSION

- NEW damper strut co-engineered with KW Automotive
- NEW O.Z. Racing cast aluminium 18x10 rims
- NEW quick ratio electrical power steering system
- Heavy duty ball joints on all suspension pivot points
- Mass / stiffness optimized billet control arms and upright
- Heavy duty wheel studs (M14)
- Front quick change anti-roll bars (3 position adjustable)
- Fully adjustable suspension kinematic parameters (camber, caster, roll center height, anti-dive/anti-lift)

SUSPENSION

A white sports car is shown in a garage setting. The car is positioned on the right side of the frame, with its rear and side profile visible. The background includes a red wall, a window, and a fire extinguisher. A semi-transparent dark grey overlay covers the left side of the image, containing text. The car's rear wheel features a multi-spoke alloy rim and a Pirelli racing tire with yellow lettering. The car's body is sleek and aerodynamic, with a prominent rear spoiler and a large rear window.

REAR SUSPENSION

- New KW Automotive rear damper with quick stroke adjuster
- New Multilink rear suspension concept
- New O.Z. Racing cast aluminium 18x10 rims
- Heavy duty ball joints on all suspension pivot point
- Mass / stiffness optimized billet arms
- Heavy duty wheel studs (M14)
- Fully adjustable suspension kinematics parameter (camber, roll center height, static and dynamic toe, camber gain)



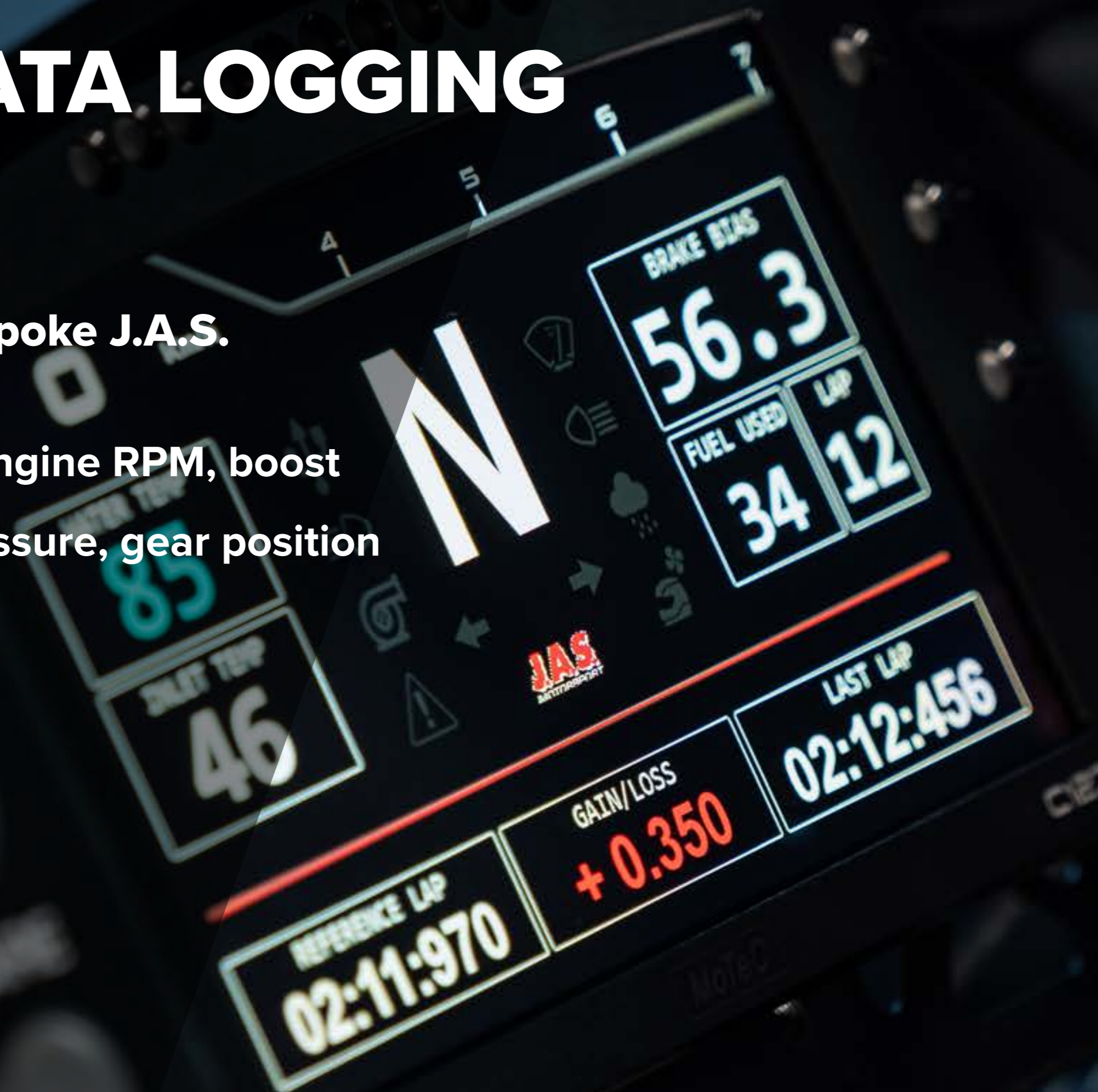
05
INTERIOR

DISPLAY AND DATA LOGGING

DISPLAY

Motec C127 7"dash/logger with bespoke J.A.S. designed interface including:

- Engine water, inlet, ambient temp, Engine RPM, boost
- Gearbox oil temp, gear shift unit pressure, gear position
- Fuel DI and transfer pressure
- Front/rear brake pressure
- Live brake bias
- Steering angle



DISPLAY AND DATA LOGGING

DISPLAY (CONTINUED)

Sensor diagnostics

- Driver shift lights
- LED alarms on display
- Lat/long G-force sensor
- Split times on dash, with gain/loss
- Fuel consumption
- Odometer

OPTIONAL

- Motec i2 PRO logging
- J.A.S. analysis template
- Damper potentiometers
- Yaw sensor



INTERIOR

INTERIOR DETAILS

- **New steering wheel co-engineered with cube controls:**
 - 16 front buttons (RGB illuminated)
 - 2 back buttons
 - 2 shift paddles
 - 2 rotary switches (scroll and ABS)
 - High grip contoured hand grips
- **Steering column mounted switch panel**
- **New heavy duty (38mm shaft) Air jack lifting system (2 front / 1 rear) with GT style trunk plug**

INTERIOR

INTERIOR DETAILS

- Front and rear lightweight plastic door panels
- Custom made plastic dashboard
- OMP 6-point, 3" seat belts, for HANS use
- OMP seat Hte-EVO fiberglass with Halo protection
- Lifeline automatic fire extinguisher
- LiFePo4 lightweight Battery
- Safecraft safety nets
- Wide angle rear view mirror



OPTIONAL INTERIOR

- 8862 and 8855-2021 seat and brackets available
- Lightweight carbon 8855 seats available in different sizes
- Passenger seat installation
- Front lexan heated windscreen
- Ballast blocks (all the same shape except trunk)
- Drink system

CIVIC TCR



06

HPD CUSTOMER EXPERIENCE

www.KWsuspensions.de

CUSTOMER SERVICE



Competition Support: Honda Performance Development (HPD) provides off-track and at-track support for engine and electrical management services including aid in troubleshooting. HPD also provides off-track and at-track OEM representation to IMSA for all major events including races and tests. Services include BoP analysis and negotiations as well as technical specification compliance based on the vehicle as designed.

Parts Services: HPD provides parts support from a domestic warehouse. Additionally, emergency spare parts are available for purchase trackside at official events in the United States.

Shakedown & Training: J.A.S. can provide initial shakedown in Italy prior to delivery upon request and participation from partner teams is welcome. HPD can provide engineering services support for one shakedown upon delivery to partner. Time, location, and pricing is negotiated with each partner team.

HPD SALES



Honda Civic FL5 TCR as complete race ready car including Sadev sequential gearbox with hydraulic paddle shift, Honda K20C1 TCR engine, Marelli TCR ECU, Motec dash with data logging, KW 2 ways + blow off dampers, 10x18" O.Z. racing rims, composite bodywork painted, stainless steel exhaust, 100lt FT3 fuel tank, Endurance ABS brake system, FIA quick refueling

With purchase of a car, mandatory spares, and tools; teams will receive:

- Ready-to-race assembled car painted Championship White in endurance configuration
- Fuel cell and roll cage certificates
- QR homologation form (required online registration by the team)
- Marelli scrutineering stick
- Chassis setup tools
- Initial spare parts package (list available on request)

For purchasing information, please contact the HPD Customer Sales Staff:

Email: hpdsales@na.honda.com

Phone: (661) 702-7777



HPD R

[HPD.HONDA.COM](https://www.honda.com/hpd)