

Thatcham Research 1st

MINI (F56)



3rd generation of the UK built MINI, based on new UKL1 platform that will be utilised for a greater range of BMW and MINI models including many body shape derivatives.

MANUFACTURERS:

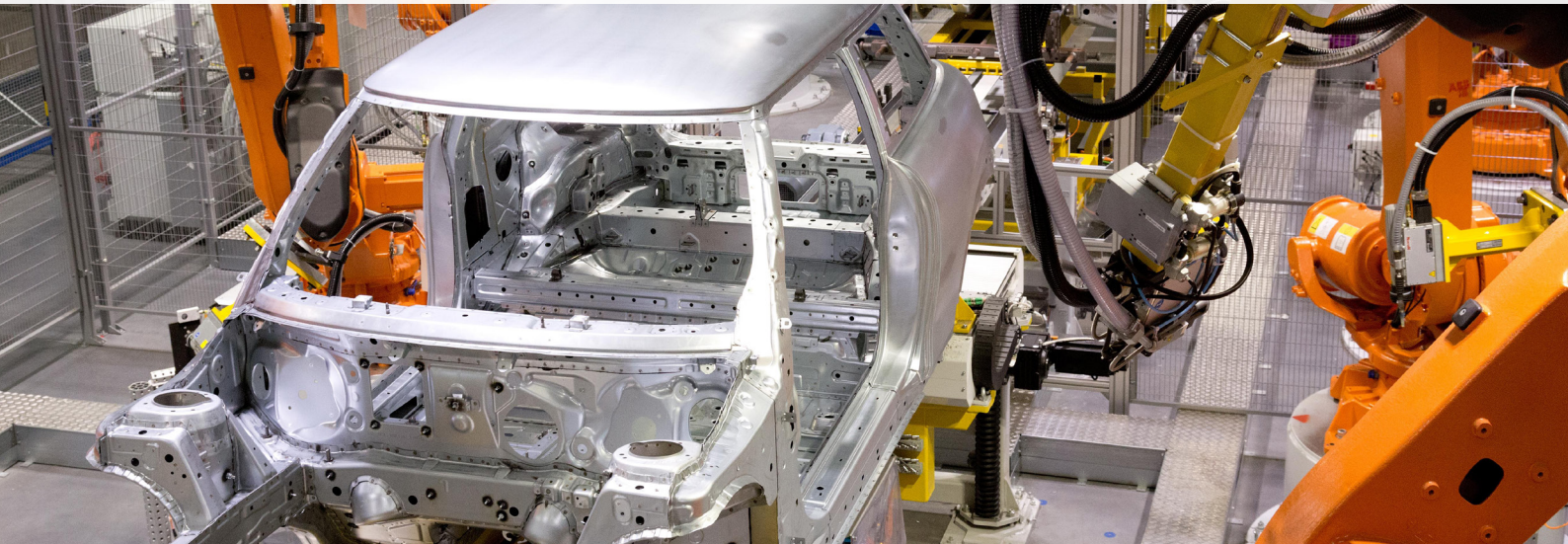
ALFA ROMEO
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VOLVO
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SAFETY
GENERAL



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This is the first vehicle on the modular UKL1 platform set. UKL1 is predominantly steel, utilising HSS tailored blanks and some aluminium. The most common joining method for the 435 panels of this all new MINI is resistance spot welding (nearly 6000 spots). The higher number of panels is a result of the modularity; a different approach than by some other VMs. The use of laser welding has also increased for this model.

The front bulkhead is double skinned, with a 2K injected foam filling to reduce noise ingress into the cabin.

Production involves three framing stages for the body in white, again to allow more derivatives and body shapes for the production line. The robots have interchangeable heads and grippers allowing a wider variety of tools and actions, without requiring more robots. Body accuracy is measured by 3D colour imaging, with an aluminium master body template located within the factory as a fixed template to measure against.

The application of the protective and corrosion preventative electro-coating is now by a 12 stage bath system to apply more precise paint depths to different body panels. This can also be employed for the eventual other body shape derivatives.

A new Integrated Paint Process gives energy savings and VOC emissions reductions by eliminating the primer coat and oven stages of the paint process, with a 140° and 30 minute bake cycle.

The bonnet is constructed of 8 sections, with the bonnet outer edge being bent over hemming to the inner panel where it is joined by laser brazing. This process eliminates the risk of condensation and corrosion within any void.

The MINI itself is 3821mm (3850mm Cooper S) in length (98mm longer than previous model), 1727mm wide (an increase of 44mm) and is 1414mm in height (7mm increase). Wheel base is 2495mm.



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Technology :

The MINI can have MINI Emergency Call, an e-call system that will transmit vehicle position and accident severity to a call centre in the event of an accident. The MINI has an active bonnet for pedestrian safety.

MINI can now be specified with an automated self-parking system (Parking Assistant Pack).

LED headlamps are an option, with a ring of LED daytime running lamps. These can be Adaptive, using the forward camera to adapt to oncoming traffic.

There is an optional 8.8" screen as part of the Media XL pack, whilst smartphone connectivity by USB and Bluetooth is standard on all models.

For the first time the MINI will be available with a Head-Up Display that provides information such as the vehicle speed and speed limits, satellite navigation directions and the selected radio station (initially this will only be available with the Media XL pack).

ADAS :

The MINI features a camera-based City Collision Mitigation that will reduce or prevent collisions by autonomously applying the brakes at speeds up to 37mph. This is an option as part of the Driving Assistant Pack that also includes Pedestrian Collision Warning and Adaptive Cruise Control.

Trim levels : Cooper/ Cooper D, Cooper S

Cooper/Cooper D: both have 15" Heli alloy wheels in a silver finish with 175/65 R15 tyres, with a standard interior with Hazy Grey finish, and seats are finished in Black cloth. Both feature a 2-spoke steering wheel. Air-conditioning is optional.

Cooper S: standard wheel fitment is a 16" Loop alloy (these are an option for the Cooper/D) with 195/55 R16 tyres. The Cooper S has White indicator lamps, a Black chequered interior surface finish, with Black double-strip seats. The interior also features a 3-spoke steering wheel. Air-conditioning is standard, with dual zone as an option.

There are 6 different alloy wheel options, from 16" to 18" in Silver, Black, and White. A rear roof spoiler is available for the Cooper S as an option.



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Paint colours:

Four new paint colours are introduced with the new MINI, with Pepper White and Volcanic Orange being the standard colours. Chili Red is only available with the MINI Sport pack. Door mirror caps and roof can be in the body colour as standard, or a contrasting Aspen White or Jet Black. There are optional Gold Union flag effect mirrors and front wing vent trims.

There are optional bonnet stripes in Aspen White or Jet Black.

The inner door trims ahead and to rear of the door handle can be specified in one of 7 colour choices, and the upper facia finisher can be Piano Black or Off-White.

The door arm rest and the lower facia knee roll come as standard in Carbon Black, but there are four option tones including: Satellite Grey, Glowing Red, Dark Truffle and Shadow Grey.

The ring surrounds for the air ducts, the door speakers and the gear selector are available in Piano Black, Dark Silver, White, or can be specified with the Chrome Line items.

The door handles and the down tubes (either side of the centre console) are available in Piano Black, Off-White, or Hazy Grey.

Seat options are available in Carbon Black leather, or Grey leather. There are four other options: Diamond cloth/Grey leather, Diamond cloth/Black leather, Black pearl cloth/Black faux-leather and Dark Truffle leather.

	Milano Red		Polished Metal metallic
	Twilight Blue metallic		Urban Titanium metallic
	Alabaster Silver metallic		Passion Red pearl
	White Orchid pearl		Crystal Black pearl



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Powertrains :

1499cc 3-cylinder, 136bhp, 220Nm turbo-charged petrol engine with a 40 litre fuel tank.

1998cc 4-cylinder, 192bhp, 280Nm turbo-charged petrol engine with variable valve timing, and with a 44 litre fuel tank.

1496cc 3-cylinder, 116bhp, 270Nm with a 44 litre fuel tank.

6-speed manual transmission is standard on all. A 6-speed automatic transmission is available as an option.

4-wheel drive is available on some models.

There is an option of a toggle switch on the gear-lever gaiter that selects 'green' or 'sport' modes; altering driving performance and the display visuals.

