



HYUNDAI

2010 FIFA World Cup™
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TECHNICAL SPECIFICATIONS

Hyundai ix35

Body & Chassis

Five-door, five-seater SUV, with all-steel unitary construction bodysell.
Choice of four transversely-mounted petrol and diesel engines driving the front (2WD) or front and rear wheels (4WD) via a five-speed or six-speed manual or six-speed automatic transmission.

Engines *(availability may vary by individual markets)*

2.0-litre / 163HP Petrol

Name	'Theta II'
Type	DOHC, four-cylinder in line, with dual CVVT
Capacity	2.0-litres, 1998 cc
Bore & Stroke	86.0 x 86.0 mm
Compression ratio	10.5:1
Max power	163HP (120 kW) @ 6200 rpm
Max torque	194 Nm (20.1 kg.m) @ 4600 rpm
Valves	16 (4-per-cylinder)
Fuel system	Multi-point injection
Construction	Aluminium cylinder block and head
Emissions class	Euro 5

1.6-litre / 140HP Petrol – tentative figures: to be confirmed before production begins

Name	'Gamma GDI'
Type	DOHC, four-cylinder in line, with dual CVVT
Capacity	1.6-litres, 1591 cc
Bore & Stroke	77.0 x 85.4 mm
Compression ratio	11:1
Max power	140HP (103 kW) @ 6400 rpm
Max torque	TBC
Valves	16 (4-per-cylinder)
Fuel system	Multi-point injection
Construction	Aluminium cylinder block and head
Emissions class	Euro 5

R 2.0-litre 136HP (lower-power) Diesel / 184HP (high-power) Diesel (depending on country)

Name	'R2.0'
Type	DOHC, four-cylinder in line, with VGT
Capacity	2.0-litres, 1995 cc
Bore & Stroke	84.0 x 90.0 mm
Compression ratio	16.5:1 (lower-power) / 16.0:1 (high power)
Max power	136HP (100 kW) @ 4000 rpm (lower-power) 184HP (130 kW) @ 4000 rpm (high power)

Max torque	320Nm (32.6 kg.m) @ 1800-2500 rpm (lower-power) 383 Nm (39.0 kg.m) @ 1800-2500 rpm (high power, manual) 392 Nm (40.0 kg.m) @ 1800-2500 rpm (high power, automatic)
Valves	16 (4-per-cylinder)
Fuel system	CRDi, common-rail, high pressure, direct injection
Turbo system	Variable geometry turbocharger (VGT)
Construction	Cast iron cylinder block and aluminium head
Emissions class	Euro 5

1.7-litre / 115HP Diesel – tentative figures: to be confirmed before production begins

Name	'U-II'
Type	DOHC, four-cylinder in line, with VGT
Capacity	1.7-litres, 1685 cc
Bore & Stroke	11.2 x 90.0 mm
Compression ratio	11.0:1
Max power	115HP (84.5 kW) @ 3800 rpm
Max torque	TBC
Valves	16 (4-per-cylinder)
Fuel system	CRDi, common-rail, high pressure, direct injection
Turbo system	Variable geometry turbocharger (VGT)
Construction	Cast iron cylinder block and aluminium head
Emissions class	Euro 5

Transmissions

	2.0	1.6	2.0D	1.7D
Manual	5-sp	6-sp	6-sp	6-sp
Automatic	6-sp	-----	6-sp	-----

Gear Ratios (2WD models)

	2.0 MT/AT	1.6 MT	2.0D MT/AT	1.7D MT
1	3.636/4.162	TBC	3.615/4.252	TBC
2	2.080/2.575	TBC	1.794/2.654	TBC
3	1.333/1.772	TBC	1.542/1.804	TBC
4	1.061/1.369	TBC	1.176/1.386	TBC
5	0.821/1.000	TBC	0.921/1.000	TBC
6	----- /0.778	TBC	0.732/0.772	TBC
Reverse	3.455/3.500	TBC	3.416/3.393	TBC
Final Drive 1	4.533/3.648	TBC	4.643/3.041	TBC
Final Drive 2	-----	-----	3.421/ -----	

4WD

Full-time on demand electronically controlled single ratio (High) system delivers 100% of torque to front wheels during normal road driving. Manually selected 'Lock Mode' splits torque 50/50 between front/rear axles for enhanced stability during slippery conditions (up to 40 km/h).

2WD

Delivers 100% of torque to the front wheels. Safety aided by electronic Traction Control, ABS anti-lock braking and (optional) ESC with Downhill Brake Control and Hill-start Assist Control.

Suspension & Damping

Front	Fully independent by subframe-mounted MacPherson struts, with coil springs and gas-filled shock absorbers. Anti-roll stabiliser bar.
Rear	Fully independent by subframe-mounted multi-links, coil springs and gas-filled ASD shock absorbers.

Steering

Type	Electric power-assisted rack and pinion
Wheel	Four-spoke, 370 mm diameter
Overall ratio	15.9:1
Gearing	2.96 turns lock-to-lock
Turning circle	10.58 metres

Brakes

Power	Single 11 -inch booster (LHD) Tandem 8- & 9-inch booster (RHD)
Front	Ventilated discs
Rear	Solid discs
Parking brake	Hand operated lever
ABS	4-channel anti-lock system with EBD
BAS	Boosts braking power during emergency stops
DBC	Downhill brake control maintains 8 km/h speed during descents
100-to-0 kph	41.7 metres

Wheels & Tyres

Standard	Alloy 16 in x 6.5J	215/70 R16 tyres
Options	Alloy 17 in x 6.5J	225/60 R17 tyres
	Alloy 18 in x 6.5J	225/55 R18 tyres
Spare (Classic)	Tyre mobility kit	
Spare (Others)	Full size alloy wheel and tyre	

DIMENSIONS (mm)

Exterior

Overall length	4410	Overall width*	1820
Overall height	1660**	Wheelbase	2640
Front track	1591	Rear track	1592
Front overhang	880	Rear overhang	890
Ground clearance	170		<i>*excluding door mirrors</i>
Approach angle	24.2 degrees		<i>**excluding roof rack</i>
Departure angle	26.9 degrees		
Ramp over angle	17.0 degrees		
Roll over angle	45.0 degrees		
Max climb angle	44.19 degrees		

Interior

	<i>Front</i>	<i>Rear</i>
Headroom	1000	994
Legroom	1047	982
Shoulder room	1450	1400
Hip room	1410	1356

Capacities (all models)

Fuel tank	58 litres
Luggage (VDA)	VDA 213 : 591 litres VDA 214 : 1436 litres

Weights (kg)

	2.0 MT/AT	1.6 MT	2.0D MT/AT	1.7D MT
<u>4-wheel drive</u>				
Kerb weight (min.)	1450 / 1469	-----	1525 / 1601	-----
Gross weight	2030 / 2030	-----	2140 / 2140	-----
<u>2-wheel drive</u>				
Kerb weight (min.)	1380 / 1397	TBC	1458 / 1601 (HP)	TBC
Gross weight	1980 / 1980	TBC	2090 / 2140 (HP)	TBC

Performance

	2.0 MT/AT	1.6 MT	2.0D MT/AT	1.7D MT
<u>4-wheel drive</u>				
Top speed / kph	182 / 180	-----	194 / 195 (HP) 181 / 181 (LP)	-----
0-to-100 kph / sec	10.7 / 11.3	-----	10.2 / 10.1 TBC (LP)	-----
<u>2-wheel drive</u>				
Top speed / kph	184 / 182	TBC	195 / ----- (HP) 182 / ----- (LP)	TBC
0-to-100 kph / sec	10.4 / 10.6	TBC	9.4 / ----- TBC / ----- (LP)	TBC

Fuel Economy (litres/100 km)*

	2.0 MT/AT	1.6 MT	2.0D MT/AT	1.7D MT
<u>4-wheel drive</u>				
Combined cycle	7.6 / 8.2	-----	6.0 / 7.1 (HP) 5.5 / 5.7 (LP)	-----
CO ₂ g/km	181 / 195	-----	158 / 187 (HP) 147 / 149 (LP)	-----
<u>2-wheel drive</u>				
Combined cycle	7.5 / 7.9	TBC	5.9 / ----- (HP) 5.5 / ---- (LP)	TBC
CO ₂ g/km	177 / 187	158	154 / -----	146
With ISG-----	149	-----		139

* Fuel economy figures with 16-inch alloy wheels