

Crash Tests

New Car Safety

HYUNDAI ELANTRA (LHD)

2000 on

Dual front airbags

Overall Evaluation



Overall score

20.05 out of 34

Variant: SEDAN

Eng: 4Cyl 1.6 litre.

Kerb weight: 1265 kg

Category: LIGHT/SMALL CAR

Vehicles built: 2001

Tested by EuroNCAP

Important note: The *left-hand-drive* European model was tested by EuroNCAP. Australasian specifications may vary and therefore models sold in Australasia might provide different levels of protection to those described on this page.

Model History and Safety Features

The tested model of Hyundai Elantra was introduced in Australia during 2000. EuroNCAP tested the 2001 year model.

Dual front airbags are standard equipment.

The front seat belt buckles are mounted on the seats and the upper anchorages are adjustable. These features improve the fit of the seat belt. Pretensioners are fitted to the front seat belts to reduce slack in the event of a crash. These seat belts also have load limiters.

The centre rear seat has a three point seat belt. This provides better protection than a two point seat belt.

OVERALL EVALUATION : 3 Stars

The Hyundai Elantra scored 6.09 out of 16 in the offset crash test. There was a moderate risk of serious injury for the chest and legs of the driver.

The vehicle scored 13.96 out of 16 in the side impact crash test. There was a slight risk of serious abdominal injury for the driver.

FRONTAL OFFSET CRASH TEST

Body region scores out of 4 points each: Head/neck 3pts, chest 1.74pts, upper legs 1.23pts, lower legs 0.12pts.

The passenger compartment held its shape reasonably well, except for footwell intrusion and pedal movement. The brake pedal moved rearwards by 197mm and upwards 83mm. The steering wheel hub moved rearwards 55mm and upwards 16mm. The front ("A") pillar moved 42mm rearwards. All doors remained closed during the crash. After the crash high manual effort was required to open the driver's door.

The airbag deployed the head and chest of the driver hit the steering wheel. Components within the knee impact zone were found to be hazardous to the driver's knees.

There was a slight risk of serious injury to the chest and lower legs of the passenger.

SIDE IMPACT CRASH TEST

Body region scores out of 4 points each: Head 4pts, chest 4pts, abdomen 2.96pts, pelvis 4pts.

There was good protection from serious injury for the head, chest and pelvis of the driver. Abdomen protection was adequate. The



Offset crash test at 64km/h

rear door on the struck side opened during the crash and this resulted in a one point penalty.

The vehicle was not eligible for a Pole Impact Test since it did not have head-protecting side airbags. This test can earn eligible vehicles an extra two points, giving a maximum possible overall score of 34 points.

INJURY MEASUREMENTS

Refer to the information sheet "How the test are done"	Offset Crash Test at 64km/h		Side Impact Crash Test at 50km/h
	Driver	Passn	Driver
Head HIC	613.8	268.1	66.5
Acceleration (g for ms)	60.05	43.12	41.37
Neck - Shear (kN)	0.38	0.97	-
Tension (kN)	1.67	0.12	-
Extension (Nm)	10.66	20.21	-
Chest Accln (g for 3ms)			-
Compression (mm)	30.81	30.48	21.86
Viscous criterion (m/s)	0.29	0.14	0.15
Abdomen - Force (kN)	-	-	1.39
Pelvis - Force (kN)	-	-	1.57
Upper legs Force Left (kN)	4.82	3.32	
Right (kN)	3.11	0.46	
Knee displ (mm) Left	4.23	4.2	
Right	0.36	0.01	
Lower legs Force Left (kN)	1.14	2.15	
Right (kN)	2.91	2.32	
Index (Upper/Low) Left	0.34/0.78	0.27/0.19	
Right	0.81/0.7	0.4/0.34	

Modifiers for offset test scores

Head	Contact steering wheel	1 pt penalty
Chest	Contact steering wheel	1 pt penalty
Upper leg	Variable & conc. loading	2pt penalty L&R
Lower leg	Brake pedal upward	0.69 pt penalty
Foot score	Brake pedal rearward	Score 0.12

Modifier for side impact score

Door opened during crash	1 pt penalty
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Pedestrian rating

16.18 points out of 36 (44.9%)



Child head impacts 9.19pts; adult head impacts 6.32pts; upper leg 0.67pts and lower leg impacts zero pts.



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