

EUNOS 500



The EUNOS 500: the car as Art.

**Crafted for those special few, to offer the rare combination of
sporty excitement and mature elegance.**

Supported, fully, by our uncompromising commitment to quality.

Quality in every aspect: the best possible reliability,

durability, safety, and economy —

all essential to an environment-friendly car for the new age.

**The EUNOS 500 — a personal compact luxury sedan
that offers a new experience in motoring.**



EUNOS. A new, exclusive brand for the discerning customer. Taken from the Latin "EU," meaning joy, and the English "NOS" meaning numbers, EUNOS is a fine collection of cars that brings a new facet to motoring pleasure, and greater satisfaction to those who own the marque. The emblem represents the marriage of European history and culture, with Japanese aesthetics and advanced technology.



EUNOS

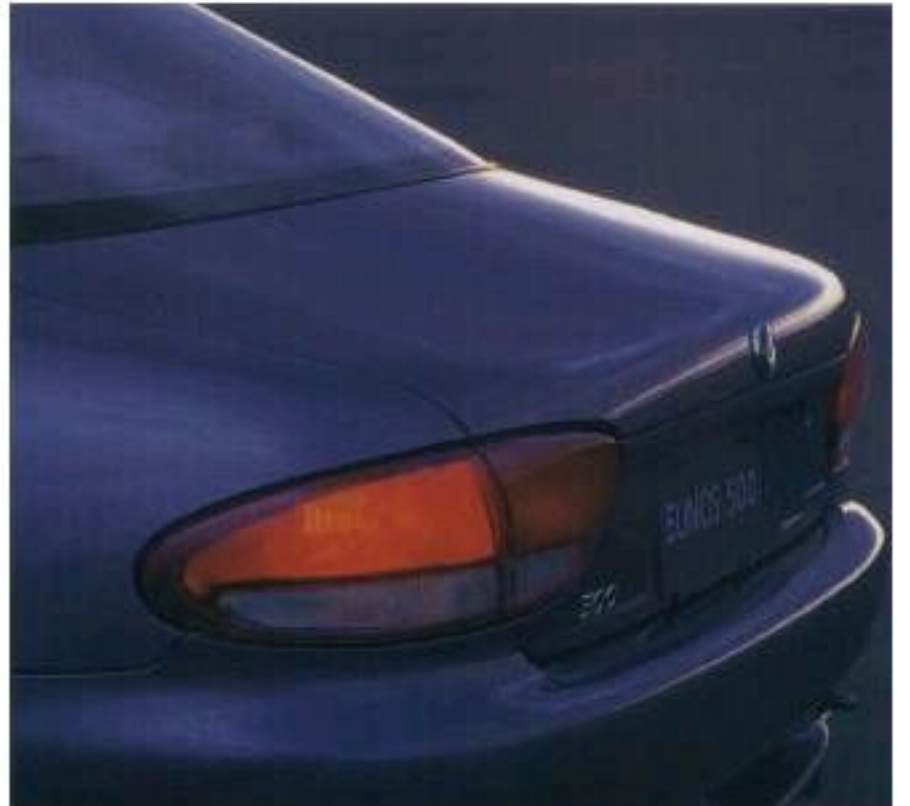


Unmistakable presence. Fluid, seductive lines that flow from bumper to bumper. Its allure, undeniable. Low, wide proportions that translate into extra confidence in the fast lane. Plus, aerodynamics* that are amongst the world's best in this class.

*The drag coefficient is 0.31.









Fluid, seductive lines cover the entire interior that's extra-spacious, thanks to the long-cabin layout.

The ergonomic cockpit makes the driver feel confident, even in the fast lane. Wraparound comfort.

Plus quality measured down to the last detail.











Designed specifically for the EUNOS 500, the V6 2.0i DOHC 24-valve engine is extremely lightweight, responsive, and quiet. While exploiting the resonance effect similar to that of a wind instrument, Mazda's Variable Resonance Induction System (VRIS) supplies ample torque across the rpm band. The result is flat torque maintained at a high level. What really makes it stand out, however, is the rare combination of outstanding, smooth acceleration and remarkable fuel economy.

What's more, power is transmitted in the most efficient manner, with the 4-speed electronically controlled automatic transmission.



The level of efficiency sets the V6 2.0i apart. Take a compact DOHC 24-valve configuration. Add large squish areas, plus twin-hole side-feed injectors. And the result is superb efficiency in combustion and fuel consumption. The short stroke, lightweight pistons and con-rods mean added response. Moreover, the rigidity of components keeps the engine's noise and vibration at a low level.



Compactness is one of the inherent advantages of a V6. The extremely compact V6 for the EUNOS 500 can thus be easily housed under the low, sloping bonnet, greatly contributing to the long-cabin layout.



VRIS is a dynamic inertia supercharging system. By switching three valves through four ranges of engine speed, the length of the resonance tube changes in three ways, for outstanding torque characteristics.

Confident footwork brings extra driver confidence:

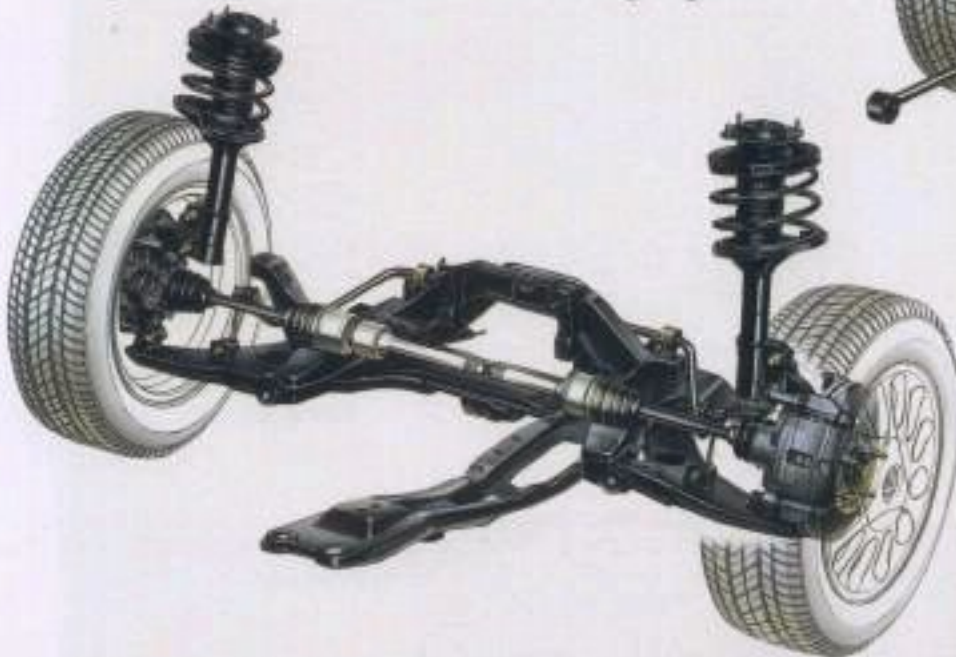
strut tower bars for greater rigidity; high-stress coil springs in the front for an enhanced stroke; and the finely tuned, self-stabilizing Twin Trapezoidal Linkage in the rear. They add up to high-speed stability and agile lane changes. Plus a quiet ride.

All-wheel disc brakes with ABS are standard for the utmost stopping ability. Together, these provide impeccable road manners, even at high speeds.



Oil-filled bushes are used at the rear mounting points of the front suspension. These sharply reduce shimmy, while absorbing shock from the road surface for added ride comfort. (left illustration)

Thanks to a set of asymmetrical bushings on the rear suspension, the wheels adopt a toe-in attitude as lateral force builds up, for enhanced stability during cornering or lane changes. (centre & right illustrations)

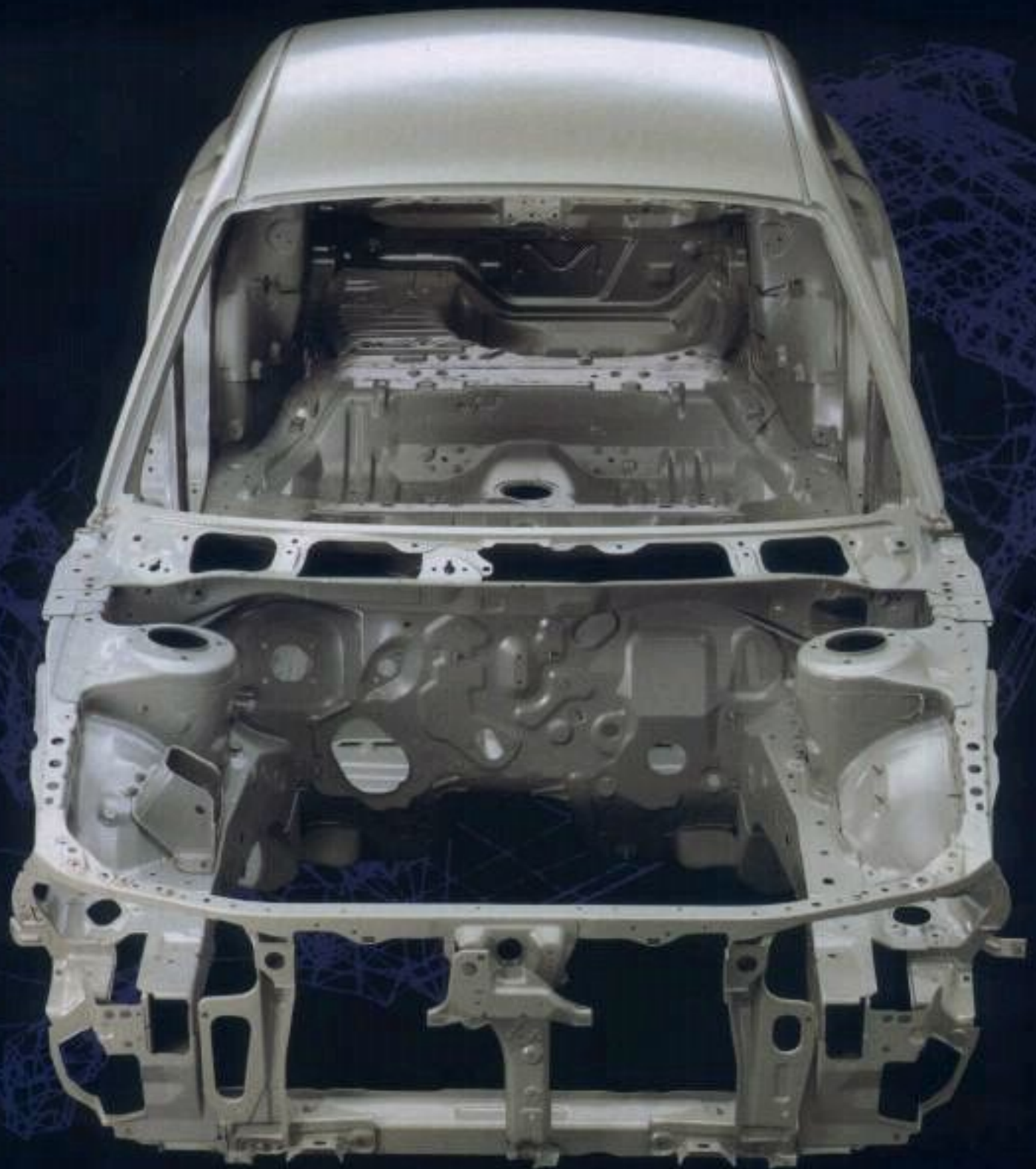


The combination of 24mm-thick ventilated discs (front) and 10mm-thick solid discs (rear) provides dependable stopping. Asbestos-free pads, made of aramid-fibre, minimize harm to the environment.

Confidence in handling also comes from a comprehensive range of standard equipment. Take the power steering that responds to engine revolutions. Or, the 195/60R15 low-profile tyres that feature superb adhesion.



OS 500



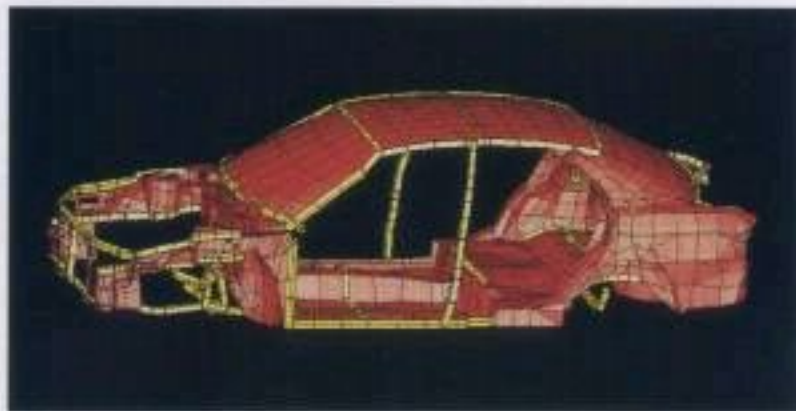
With the EUNOS 500, passenger comfort is ensured from the ground up: the extensive use of high-tensile steel to make the extra-rigid bodyshell as light as possible; new robotic welders for a stronger, yet thinner weld; and a simultaneous assembly of body panels for added precision. Not only do these translate, when combined, into superb vehicle behaviour; they also mean outstanding ride comfort. Other comfort factors include effective insulation from road and wind noise, and the efficient climate control system.



The outer side frame features a single-piece construction, unlike the conventional method where six pieces are welded together. The result is greater rigidity and precision of the car body. Playing the key role in this advanced manufacturing process is our 5,200-ton transfer press — one of the nation's largest — a must for high-precision stamping of intricately curved panels.



Coupled with off-line teaching of robots to take advantage of human skills, 3-dimensional simulation of the movement of both parts and jigs down the line has made spot welding more precise and efficient than ever.



Using a supercomputer, numerical data were double-checked against data provided by experienced test drivers who put in many thousands of kilometres on proving trials. This research has resulted in a bodyshell that's more rigid than ever against bending and twisting forces.



A large, 220W blower motor and optimized duct design ensure efficient heating, defogging, ventilating, and cooling. When the demister is operating, cold air is directed at the heads of the front occupants to deflect discomforting warm air.

For the utmost in occupant protection, we incorporated a wide array of measures — first to help avoid an accident. These “active safety” measures range from high-speed stability and superb visibility, to the fumble-free switch layout and a 4-sensor, 3-channel anti-lock brake system. However, should an accident occur, the crumple zones gradually absorb impact, while the highly-rigid cabin allows minimum deformation to provide a maximum survival zone. An SRS airbag on the driver’s side is also provided as an invaluable standard feature. Other “passive safety” features include three-point seat-belts with five-step height adjustable anchors.



Every door panel is fitted with an impact bar for extra passenger protection in the event of a side impact. And the extra-strong door latches minimize the possible danger of passengers being thrown out.

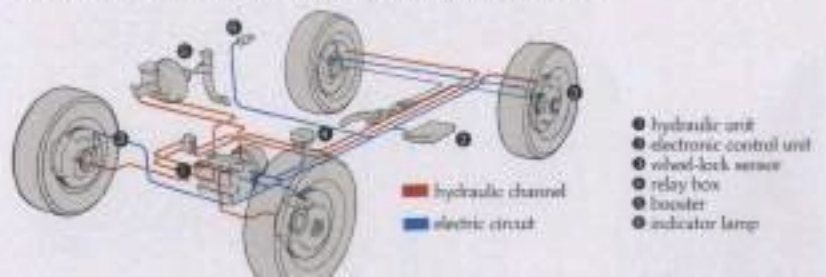


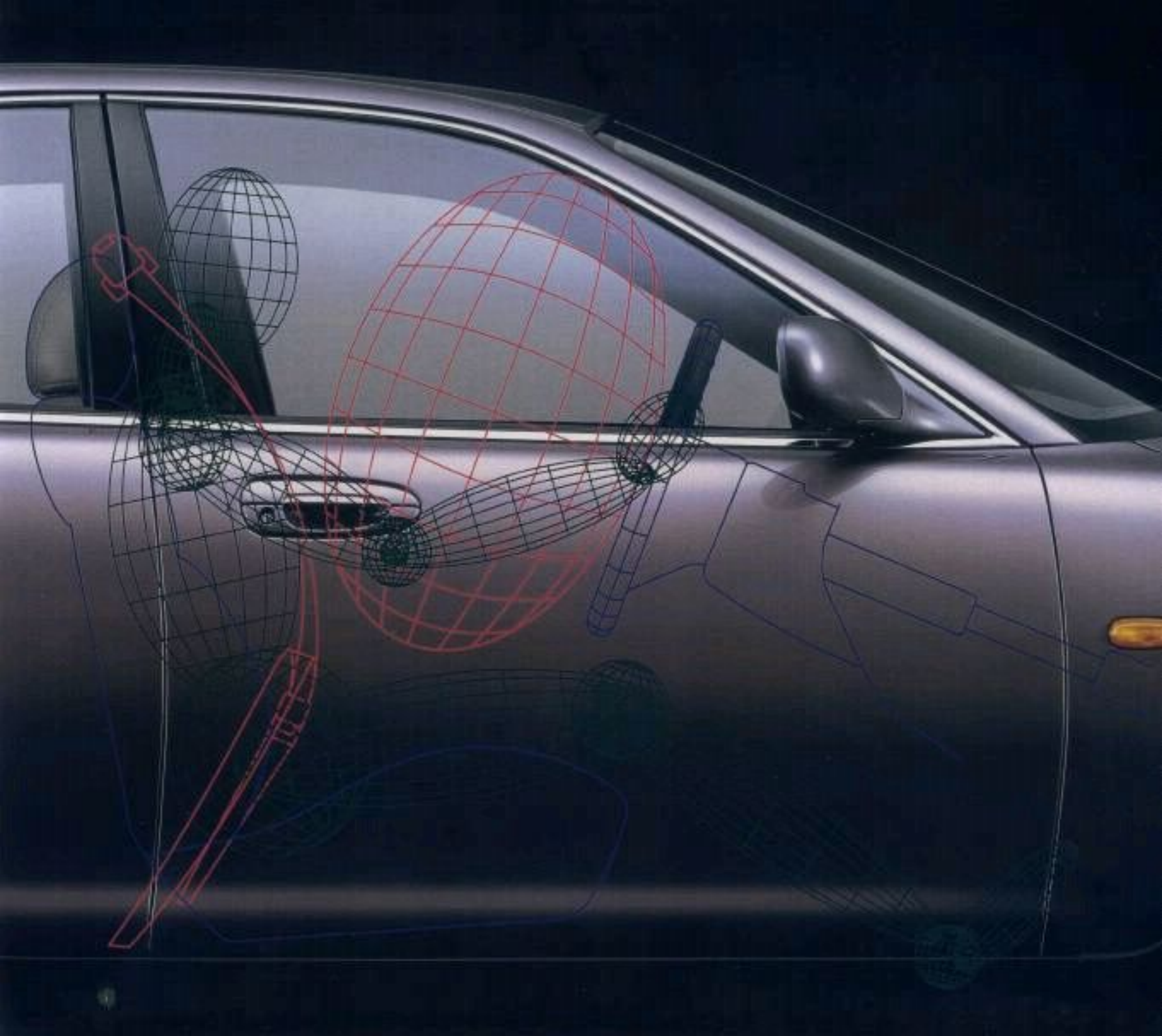
The ELINOS 500 meets the impact resistance requirements of the United States, which has some of the world’s most stringent safety standards. Tests include 50kph head-on and rear-end collisions. Door latches, too, have added strength.



Safety-oriented design goes down to the smallest detail. Take, for example, aerodynamic door mirrors that are asymmetrical, and equipped with large visors, to enhance rearward visibility. What’s more, the mirrors are electrically, and thus effortlessly, adjustable from the driver’s seat.

The 4-sensor, 3-channel mechanism makes the ELINOS 500’s ABS one of the most dependable in this class. Each wheel is fitted with a sensor to allow precise modulation. Each front wheel is also equipped with an independent hydraulic circuit, while that for the rear features a “Select-Lo” programme which prioritizes the rear wheel that is most prone to wheel lock.







EUNOS 500

500

The combination of our advanced technology and new production methods has allowed us to redefine the meaning of quality. Take the "hi-reflex" coat that gives a deep, brilliant finish to the EUNOS 500, while ensuring increased resistance of the body surfaces against scratches. The extensive use of galvanized steel ensures effective rust prevention. Sealing is also thoroughly applied, while a PVC film covers the underfloor. Furthermore, a urethane coating prevents chipping. Put together, it all adds up to the exceptional ability of the car to hold its shine for many years to come.



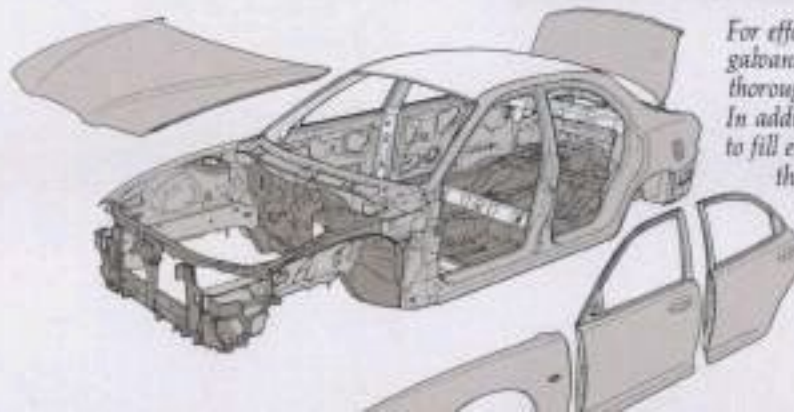
The use of linear-motor-driven pallets, in place of chain-driven conveyers, not only reduces the factory noise level dramatically, but it increases both work efficiency and ease. At the same time, the open-pallet structure allows robots to contribute to product quality.



Our original 3-stage top coating ensures a precisely even finish that boasts a 60-micron clear coat regardless of the angle of the surface. An integral part of this process is a centrifugal spraying system, using a high-speed rotating tip with excellent paint atomizing properties. Combined with rotation baking, it achieves a deep, brilliant finish — a quality beyond compare.



As it passes through a heated tunnel, the coated body rotates to eliminate the effects of gravity. Thus, an even paint film thickness is maintained. The extra-hard clear coating also protects the body from scratch damage or contact with acids.



For effective rust prevention, 90% of the steel is either galvanized or rust-resistant, resin coated. Robots thoroughly apply sealing to cavities and joints. In addition to PVC undercoating, anti-rust wax is injected to fill even the deepest recesses. One way to measure the resulting outstanding, lasting quality is the extra-long warranty against rust penetration.

■ Galvanized steel
■ Organic-resin coated steel

The quality of the product also reflects the quality of the manufacturer, and its attitude. At Mazda, we believe that a car must pose as little harm as possible to the environment. One way to measure our commitment is the all-new plant in Hofu, Japan.

Not only is it one of the world's most hi-tech car plants; considerations for the environment also abound — in the materials used and in the way the cars are manufactured. It is the same sort of consideration that has driven us into exploring better recycling methods, and new, alternative fuels.

And the same commitment to the environment is behind every EUNOS 500 built at this plant.



At Mazda, we are actively working to deal with the environmental issue at our plants and laboratories. Our new plant in Hofu, however, goes a step further to ensure that every car we build is environment friendly. The cylinder head gaskets and brake pads are made without asbestos. Chlorofluorocarbons have also been eliminated from both the manufacturing processes and the car's air-conditioning; a new type of environment-friendly refrigerant is now being used.



Our hydrogen rotary engine — the world's first — achieves a complete, natural energy cycle: when burned, the hydrogen produces only the same amount of water as was first used to produce the gas — nothing else.



Recycling is another area addressed by Mazda. With the EUNOS 500, every plastic part weighing 100g or more is stamped for easy recycling. As a result, recyclable plastic now accounts for some 85% of all plastic components in the EUNOS 500.

EXTERIOR

MPR Grey Windscreen	<input type="checkbox"/>
Heated Rear Window	<input type="checkbox"/>
Adjustable Intermittent Wipers	<input type="checkbox"/>
Halogen Projector Headlamps	<input type="checkbox"/>
Front Fog Lamps	<input type="checkbox"/>
High-Mount Stop-Lamp	<input type="checkbox"/>
Colour-Keyed, Electric Remote-Controlled Door Mirrors	<input type="checkbox"/>
Door Key Cylinder Illumination	<input type="checkbox"/>
Fuel-Fill-Lid Opener	<input type="checkbox"/>
Mudguards, Front	<input type="checkbox"/>
Rear	<input type="checkbox"/>
Tyres, 195/60R15, G1	<input type="checkbox"/>
Alloy Wheels	<input type="checkbox"/>

INTERIOR

Illuminated Key Cylinder Illumination	<input type="checkbox"/>
Tilt/Collapsible Steering Column	<input type="checkbox"/>
SRS Airbag, Driver's Side	<input type="checkbox"/>
Leather Steering Wheel	<input type="checkbox"/>
Power Steering	<input type="checkbox"/>
Anti-Lock Brake System	<input type="checkbox"/>
Tachometer	<input type="checkbox"/>
Panel Light Control	<input type="checkbox"/>
Digital Clock	<input type="checkbox"/>
Headlamp-On Reminder Buzzer	<input type="checkbox"/>
Lockable Glove Box w/Lamp	<input type="checkbox"/>
Console	<input type="checkbox"/>
Illuminated Cigarette Lighter and Ashtray	<input type="checkbox"/>
Leather Seat w/Swing Headrest	<input type="checkbox"/>
Driver's Seat w/Lift Mechanism	<input type="checkbox"/>
Rear Seat w/Centre Armrest	<input type="checkbox"/>
Front and Rear Seat Belts	<input type="checkbox"/>
Adjustable Seat-Belt Anchors	<input type="checkbox"/>
Power Windows	<input type="checkbox"/>
Power Door Lock	<input type="checkbox"/>
Rosen Lamp w/Spot Lamp	<input type="checkbox"/>
Door Courtesy Lamps	<input type="checkbox"/>
Cargo Rosen Lamp	<input type="checkbox"/>
Sun-Visors with Tinted Holder and Vanity Mirror	<input type="checkbox"/>
Assist Grips	<input type="checkbox"/>
Audio System (AM/FM/ETR, Cassette/CD, Auto Change, 5 Speakers and Power Antenna)	<input type="checkbox"/>
Electric Heater Control w/Rear Heater Duct	<input type="checkbox"/>
Full Auto Air-Conditioner	<input type="checkbox"/>

DIMENSIONS & WEIGHT

Overall Length	(mm)	4545
Overall Width	(mm)	1695
Overall Height	(mm)	1355
Wheelbase	(mm)	2610
Track, Front	(mm)	1470
Rear	(mm)	1480
Kerb Weight	(kg)	1225

ENGINE

Type	V6 DOHC, 24-valve	
Bore x Stroke	(mm)	76 x 69.6
Displacement	(lcc)	1995
Max. Output (EEC)	144ps/6000rpm	
Max. Torque (EEC)	17.5kg-m/5000rpm	
Compression Ratio	9.5:1	
Fuel Supply System	Electronic Gasoline Injection	
Fuel Tank Capacity	(litres)	60
Fuel Used	Unleaded 95RON	

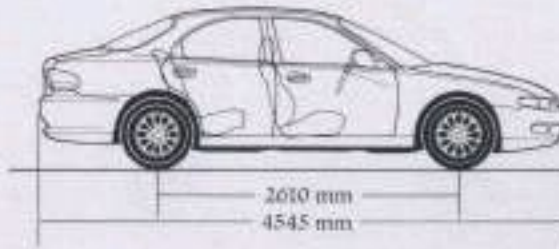
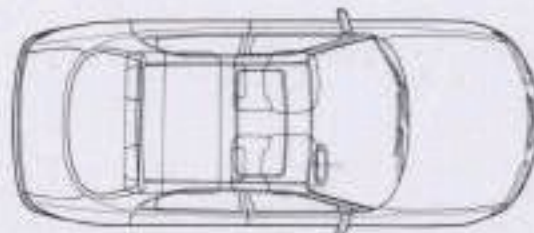
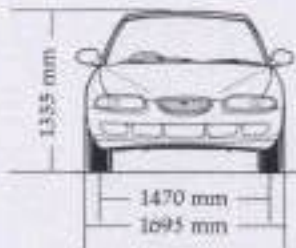
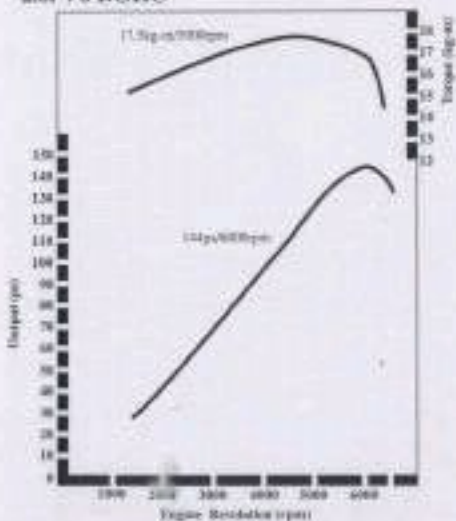
DRIVETRAIN

Transmission	(4EAT)	
Gear Ratio 1st	2.830	
2nd	1.540	
3rd	1.000	
4th	0.700	
Rev.	2.333	
Final Gear Ratio	4.157	

CHASSIS & SUSPENSION

Frame	Monocoque	
Suspension Type, Front & Rear	Independent by MacPherson struts with coil springs	
Steering	Rack and pinion	
Min. Turning Circle (Diameter, Kerb-to-Kerb) (m)	10.4	
Brakes, Front	Ventilated disc	
Rear	Solid disc	
Tyres & Wheels	195/60R15 67V G1 X 15	

All specifications and equipment described in this catalogue are subject to change without notice and may vary according to locale. Please consult the Volvo dealer in your area.

2.0i V6 DOHC

E U N O S

from mazda