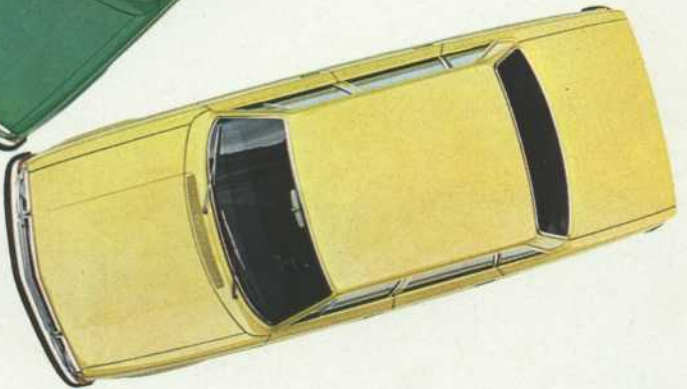
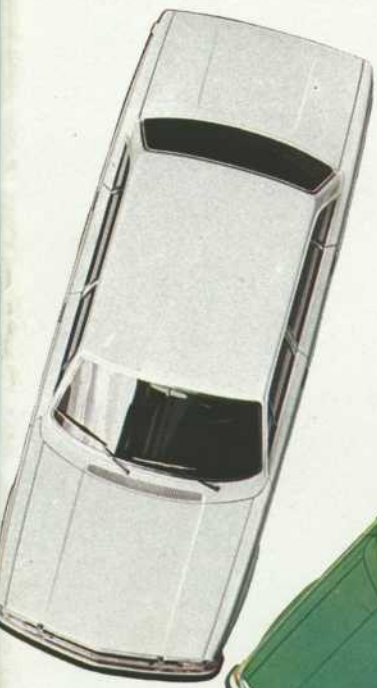


VOLVO

1972





Volvo 144/145 de Luxe

The features that characterize these cars are representative of the entire Volvo car programme. They are safe and strongly-built cars which are very economical to own, give lasting value and are an excellent investment. Their styling relies more on clean lines and well balanced features, rather than flashy trimmings. And they're a pleasure to drive. The interior of these de Luxe models is very pleasing and features full carpeting and new upholstery on the famous Volvo seats. Other new features are the short, sporty gear stick, the warning lamp for the choke, the new steering wheel and the recessed outer door handles. The front doors now have storage pockets. A new engine option this year on the Volvo 145 de Luxe is an electronically-controlled fuel injection unit which gives 125 b.h.p. SAE.

<i>Paintwork</i>	<i>Upholstery, vinyl</i>	<i>Textile floor mats</i>
Royal Blue	Blue	Blue
Sapphire Blue	Blue	Blue
California White	Red	Red
Red	Black	Red
Sun Yellow	Black	Dark Brown
Cypress Green	Black	Dark Brown
Ocean Green	Green ¹⁾	Green ¹⁾

¹⁾ Volvo 145 de Luxe has black upholstery and dark brown carpets.



Purpose-designed and built for the driver. New four-spoke steering wheel, new controls, and in the middle below the dashboard is a new instrument console which carries the controls which you don't use very often, and a clock. Another new prominent feature on the 140-series is the short and sporty remote-control gear stick.



The Volvo 145 de Luxe combines the best of an estate car with the comfort features of a saloon. With enormous carrying space. With the rear seat folded it's slightly more than 188 cm/74" long. From roof to floor there is more than 83 cm/32" of space and maximum width is almost 142 cm! 52 1/2". And under the floor is an extra storage well.



Blue

Red

Black

Green



Volvo 144 Grand Luxe

The Grand Luxe, most elegant car of the 140-series. With a sports-bred engine-135 h.p. SAE. Electronically-controlled fuel injection. Leather upholstered seats give the elegance worthy of such a car. Full carpeting is also featured. Other new features this year are the short remote-control gear stick, new head restraints, new steering wheel and the fully recessed outer door handles. And below the dashboard in the centre is the new instrument console. This is a car for the most discerning of modern motorists, a safe car with a brilliant performance.

<i>Paintwork</i>	<i>Upholstery, leather</i>	<i>Textile floor mats</i>
Gold Metallic	Black	Brown
Light-blue Metallic	Black	Blue



Comfort at its very best. Deep and wide bucket seats. Provide perfect support for your whole body.

Leather upholstery. A car with elegance and room -even for your rear seat passengers. Full carpeting. Adjustable head restraints.



Black



Volvo 164/164 E

The superb comfort of this car and the very quietly running engine offer you safe and quiet transportation.

The Volvo 164 is now available in two versions. The B 30 A which has an output of 145 b.h.p. or our new even faster B 30 E engine which features electronically-controlled fuel injection and has an output of 175 b.h.p. SAE. And looking on the bright side of things we also give you a sliding steel sunroof this year. Other new features are the choke warning lamp, the central instrument console which houses the electric clock and the switch for the hazard warning lights, electrically heated rear window and foglights. Also new this year are the recessed outer door handles-for safety's sake, and the new four-spoke steering wheel which allows full visual access to the instruments. Radial tyres and two extra Halogen foglights complete the picture.

Volvo 164

<i>Paintwork</i>	<i>Upholstery, leather</i>	<i>Textile floor mats</i>
Royal Blue	Blue	Blue
California White	Blue	Blue
Wine Red	Wine Red	Wine Red
Cypress Green	Golden Brown	Brown

Volvo 164 E

Gold Metallic	Golden Brown	Brown
Light-blue Metallic	Black	Blue



The very best of Volvo comfort. Leather upholstery. Elegant and spacious, both front and rear. The front seats have a very wide range of

adjustment. Fully fitted floor carpeting. New this year are narrower head restraints for better rearward vision. They are height adjustable.





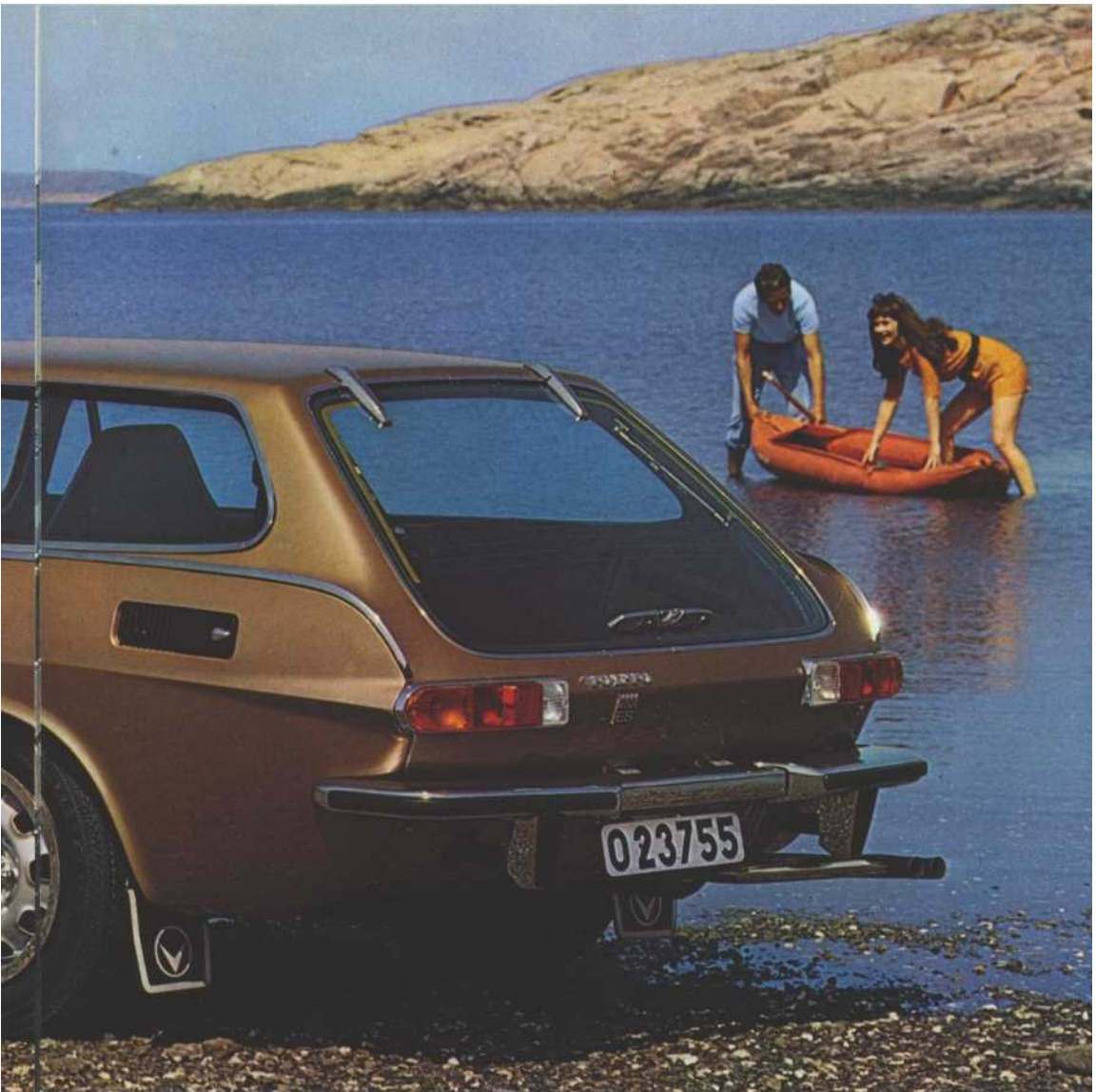
Volvo 1800 ES

The Volvo with a new slant to it. The Volvo 1800 ES—a well-bred car with a well-bred interior. And a luggage compartment of extraordinary size for this type of car.

Elegant and comfortable with full carpeting and new leather-upholstered seats.

A long-distance non-stop sports car with the quality, comfort and safety which has made Volvo products world-renowned.

<i>Paintwork</i>	<i>Upholstery, leather</i>	<i>Textile floor mats</i>
California White	Golden Brown	Brown
Red	Black	Red
Cypress Green	Golden Brown	Brown
Sun Yellow	Black	Brown
Light-blue Metallic	Black	Blue
Gold Metallic	Golden Brown	Brown



The most comfortable and functionally elegant sports car ever. With leather-upholstered seats of new design where the head restraints are built-in. New door panels with storage pockets. Also new this year are the automatic inertia seat belts with illuminated lock and a warning sign "Fasten seat belt".

The Volvo 1800 ES has a luggage compartment which is something extraordinary for this type of car. The entire luggage area is fully carpeted and below the floor is found the spare wheel and tools.



Golden Brown

Black

Specifications

	B 20 A	B 20 B	B 20 F	B 20 E	B 30 A	B 30 E
Max. output b.h.p. at r.p.m. SAE	90/4800	118/5800	125/6000	135/6000	145/5500	175/5800
Max. output b.h.p. at r.p.m. DIN	82/4700	100/5500	115/6000	124/6000	130/5000	160/5500
Max. torque kpm at r.p.m. SAE	16.5/3000	17/3500	17/3500	18/3500	22.5/3000	24.5/2500
Max. torque kpm at r.p.m. DIN	16/2300	15.5/3500	16/3500	17/3500	21/2500	23.5/2500
Displacement, litres	1.99	1.99	1.99	1.99	2.98	2.98
Bore, mm	88.9	88.9	88.9	88.9	88.9	88.9
Stroke, mm	80.0	80.0	80.0	80.0	80.0	80.0
Compression ratio	8.7:1	9.3:1	8.7:1	10.5:1	9.3:1	10.0:1

Volvo 144/145 de Luxe

B 20 A: 90 b.h.p. SAE/82 b.h.p. DIN, four-speed manual or fully automatic gearboxes.

B 20 B: 118 b.h.p. SAE/100 b.h.p. DIN, four-speed manual gearbox.

Four-cylinder overhead valve engine with five-bearing crankshaft.

Thermostatically-controlled induction air pre-heating. Positive crankcase ventilation. Exhaust emission control.

Volvo 145 de Luxe

B 20 F: 125 b.h.p. SAE/115 b.h.p. DIN. Only available on Volvo 145 de Luxe with four-speed manual or automatic transmissions.

Volvo 144 Grand Luxe

B 20 E: 135 b.h.p. SAE/124 b.h.p. DIN, four-speed manual with overdrive or fully automatic gearboxes.

Four-cylinder, electronically-controlled fuel injection engine with five-bearing crankshaft. Fuel pressure regulator and overflow sensor. Electric fuel pump. Positive crankcase ventilation.

Volvo 164

B 30 A: 145 b.h.p. SAE/130 b.h.p. DIN, four-speed manual with overdrive or fully automatic gearbox.

Six-cylinder, overhead valve engine with seven-bearing crankshaft.

Thermostatically-controlled induction air pre-heating. Positive crankcase ventilation. Exhaust emission control.

Volvo 164 E

B 30 E: 175 b.h.p. SAE/160 b.h.p. DIN, four-speed gearbox with or without overdrive, or optionally fully automatic gearbox.

Six-cylinder, electronically-controlled fuel injection engine with seven-bearing crankshaft. Fuel pressure regulator and overflow sensor. Electric fuel pump. Positive crankcase ventilation.

Volvo 1800 ES

B 20 E: 135 b.h.p. SAE/124 b.h.p. DIN four-speed gearbox with overdrive.

Four-cylinder, electronically-controlled fuel injection engine with five-bearing crankshaft. Fuel pressure regulator and overflow sensor. Electric fuel pump. Positive crankcase ventilation. Exhaust emission control.

Cooling system

Fully sealed and frost protected. Water cooling with pump and thermostat.

Capacity: Volvo 164/164 E 13 litres/2.9 Imp. galls. 140-series 10 litres/2.2 Imp. galls. Volvo 1800 ES 8.5 litres/1.9 Imp. galls. Viscous type cooling fan on Volvo 144 Grand Luxe, Volvo 164/164 E and Volvo 1800 ES.

Electrical system

12 volt system
Battery capacity 60 Ah.
Alternator rating 35 A — 490 W
Alternator rating Volvo 164 and all models with fuel injection: 55 A—770 W.
Starter motor output 1 b.h.p.

Gearboxes

Four-speed fully-synchronized manual with remote-control.

Ratios:

140-series and Volvo 164/164 E 1800 ES

1st	3.13:1	1st	3.54:1
2nd	1.99:1	2nd	2.12:1
3rd	1.36:1	3rd	1.34:1
4th	1.00:1	4th	1.00:1
Reverse	3.25:1	Reverse	3.54:1

Overdrive

Electrically controlled. Available on Volvo 164/164 E and standard on Volvo 1800 ES. Ratio: 0.797:1.

Automatic gearbox

Fully-automatic gearbox with part-throttle change-down and kick-down features. Each engine version has a special automatic transmission adapted to its characteristics. Remote-control selector.

Clutch

Single, dry disc clutch of diaphragm spring type. Mechanically controlled.

Rear axle

Rear axle of hypoid type.
Volvo 144 de Luxe and Volvo 144 Grand Luxe with four-speed manual and automatic: 4.10:1.
Volvo 145 de Luxe, four-speed manual: 4.30:1; automatic 4.10:1
Volvo 145 de Luxe with B 20 F engine, 4.10:1.
Volvo 1800 ES four-speed manual with overdrive: 4.30:1.
Volvo 164/164 E four-speed manual: 3.31:1; with overdrive 3.73:1; automatic: 3.31:1.

Steering gear

Volvo 164/164 E recirculating ball and nut type with power assistance.
Other models: cam and roller.
Turning circle diameter

	Between kerbs
140-series	9.25 m/30'4"
164/164 E	10.0 m/32'10"
1800 ES	9.6 m/31'6"

Brake system

Foot brake. Triangle-split dual circuit brake system. Each circuit operates on both front wheels and one each of the rear wheels. Self-adjusting disc brakes all round. Power assisted. A relief valve in each rear brake line prevents the rear wheels from locking-up prematurely in the case of emergency brake application.

Handbrake. Mechanically operating on special rear wheel drums. Handbrake lever located between driving seat and front door. Warning lamp on dashboard for handbrake operation and faulty brake circuit.

Wheels and tyres

Volvo 144 de Luxe: pressed-steel wheels with 5" rims and hub caps. Radial ply tyres 165 SR 15.
Volvo 145 de Luxe: Reinforced radial ply tyres 165 SR 15.
Volvo 145 de Luxe with B 20 F engine: Reinforced radial ply tyres 165 SR 15.
Volvo 144 Grand Luxe: chrome wheels nuts and trim ring on 5" rims. Radial ply 165 SR 15 tyres. Volvo 164/164 E: 5½" pressed-steel wheels with hub caps and chrome trim ring. Radial ply 165 SR 15 tyres on 164 and 165 HR 15 radials on 164 E.

Volvo 1800 ES: 5½" pressed-steel wheels with chrome wheel nuts and trim ring. Radial ply 185/70 HR 15 tyres.

Body

All-welded, integral steel body. Energy absorbing front and rear ends and reinforcing closed member profiles around all body openings. Complete rust-proofing and underbody treatment.

Fuel tank

Located at rear.
Capacity: 1800 ES: approx. 45 litres/10 Imp. galls.
Capacity others: approx. 58 litres/12.8 Imp. galls.

Luggage compartment

140-series saloons and Volvo 164/164 E: capacity 675 litres/23.8 cu. ft.
Volvo 1800 ES has in addition to its large luggage compartment room for extra luggage by folding the rear seat backrest forward.

Heating and ventilation system

Thermostatically-controlled heating and ventilation system with two-speed fan of large capacity. Air is fed to both the front and rear seat areas. Three defroster nozzles on windscreen. Fresh air intakes on each side

below dashboard. Air extractor vents at rear for through-flow ventilation. A built-in check valve prevents exhaust gases and draughts from entering from the rear. Electrically heated rear window.

Lighting equipment

Asymmetrical dipped beams. Automatic reversing lights. Main beam flasher. Courtesy lighting. Rheostat-controlled instrument lighting. Four-way hazard warning lights. The Volvo 144 Grand Luxe and 164/164 E have two extra lights of Halogen type.

Other standard equipment of Volvo car programme

Twin padded sun visors. Special anti-dazzle rearview mirror of safety type. Laminated windscreen of high-impact type. Two-speed electric windscreen wipers. Electric windscreen washer. Combined steering and ignition lock. Warning lamp for choke. Factory fitted three-point safety belts on front seats. Anchorages for rear seat belts. Adjustable head restraints. Count on Volvo reliability, quality, safety and lasting value and a well organized network of service workshops throughout the country. Volvo is value.

Dimensions and weights

	Volvo 144 de Luxe	Volvo 164/164 E	Volvo 1800 ES
Overall length cm/in.	464/183	471.5/185.2	438.5/172.6
Overall width cm/in.	173/68.1	173/68.1	170/66.9
Overall height cm/in.	144/56.7	144/56.7	128/50.4
Distance brake pedal-front edge of rear seat backrest cm/in.	183/72	183/72	165/65
Width, front seats hip height cm/in.	143/56.3	143/56.3	125/49.2
With, rear seats hip height	143/56.3	143/56.3	102/40.2
Length front seat	49/19.3	49/19.3	49/19.3
Width front seat	57/22.5	57/22.5	50/19.7

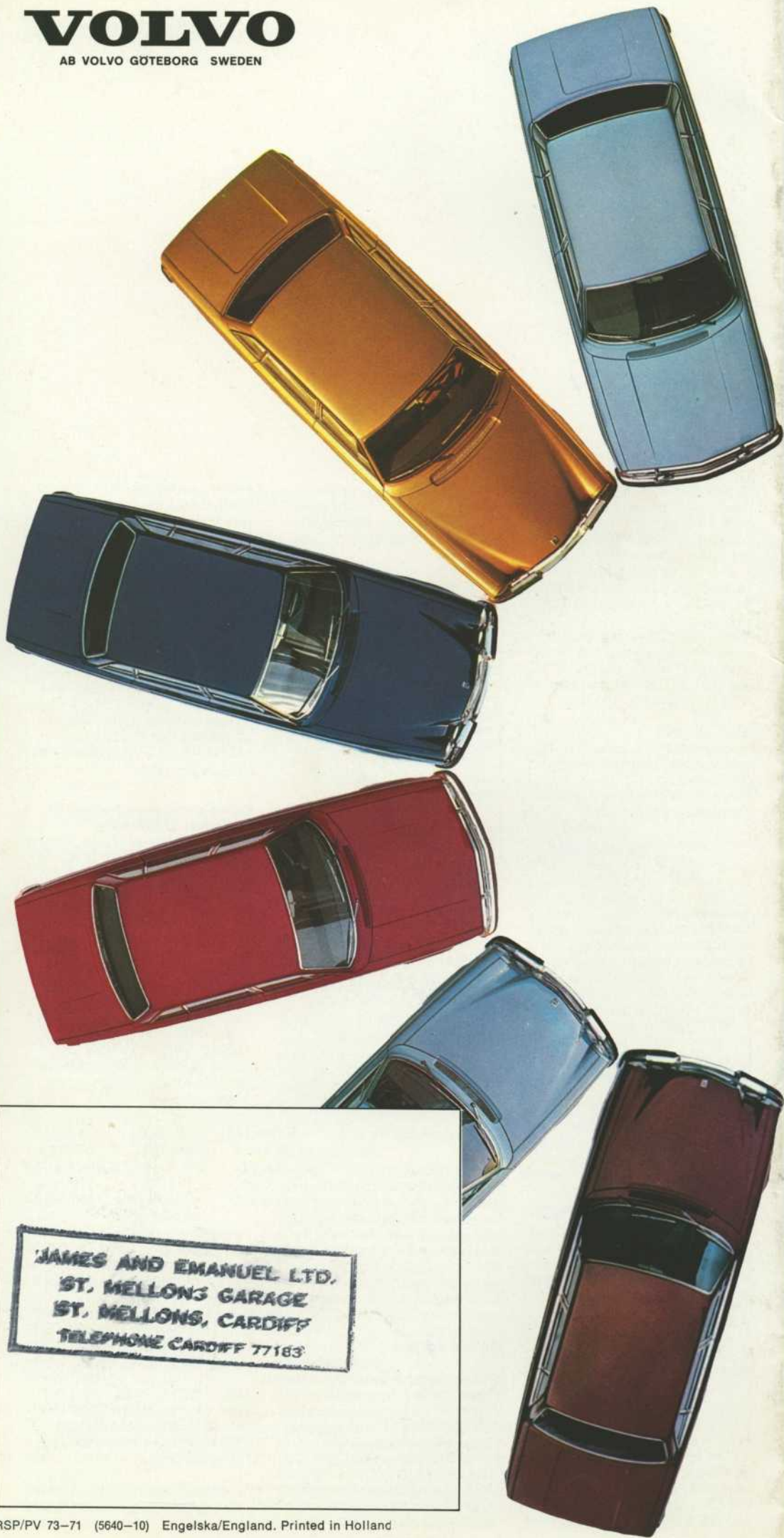
Kerb weight (depending on model)

Volvo 144 de Luxe approx.	1210—1230 kg/2668—2712 lb
Volvo 145 de Luxe approx.	1270—1315 kg/2800—2897 lb
Volvo 144 Grand Luxe approx.	1245—1275 kg/2745—2811 lb
Volvo 164/164 E approx.	1380—1400 kg/3040—3084 lb
Volvo 1800 ES approx.	1175 kg/2589 lb

The factory reserves the right to make changes at any time, without notice, in prices, colours, materials, equipment, specifications and models and also to discontinue models.

VOLVO

AB VOLVO GÖTEBORG SWEDEN



JAMES AND EMANUEL LTD.
ST. MELLONS GARAGE
ST. MELLONS, CARDIFF
TELEPHONE CARDIFF 77183