



*Luxury Coaches
from
Hestair Duple*





- AERODYNAMIC STYLING FOR GREATER ECONOMY
- HIGH STYLE IN SAFETY AND COMFORT
- THOROUGH CRASH AND ROLL-OVER PROTECTION
- HIGHEST AVAILABLE SEATING CAPACITIES
- MAXIMISED LUGGAGE SPACE
- CORROSION-PROOFED STRUCTURE
- DESIGNED WITH THE OPERATOR IN MIND



Superbly comfortable driver environment



Individual bucket seats have exceeded a 15G crash standard



BUILT TO LAST

The 300 series bodies are based on an extremely rigid jig built frame with stressed metal side panels. The whole assembly is thoroughly corrosion proofed offering long life and high re-sale value.



Luxurious, soft safety trimmed interior visibility for up to 61 passengers

300 SERIES



Hestair Duple has standardized on the 300 Series which has matured over the years and has proven its worth to hundreds of operators. Its styling, which set new standards when introduced, is still aerodynamically advanced today and helps provide a 320 or 340 with outstanding economy. But then the 300 Series was *designed* for the operator; we provide extra seats by thoughtful packaging, greater comfort for driver and passengers; we maximise the luggage capacity on all chassis types, and then we build the body to the highest standard, thoroughly corrosion proofing on the way.



Wide entry with low step heights



Optional Continental door and toilet

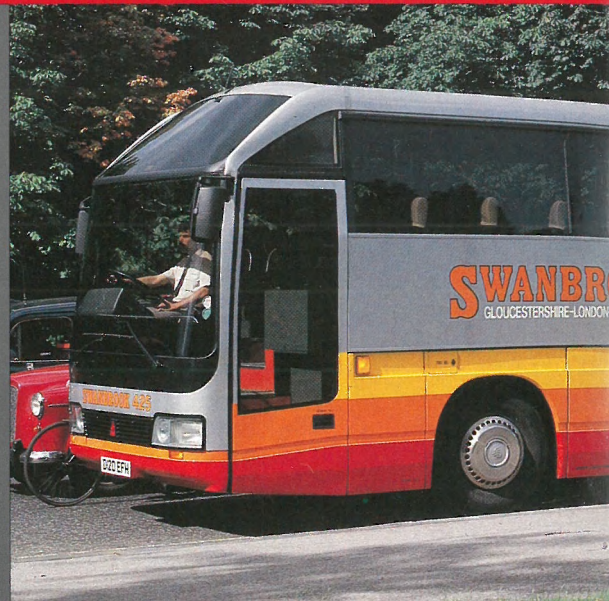


Maximised luggage capacity on all chassis types

offers comfort, safety and high

Europe's most advanced luxury coach

- STUNNING FUTURISTIC STYLING – GREAT PASSENGER APPEAL
- LOWEST DRAG COEFFICIENT – HIGHEST ECONOMY – UP TO 17 MPG
- UP TO 63 FIXED SEATS OR 59 RECLINERS
- LARGEST LUGGAGE CAPACITY - UP TO 14 CUBIC METRES
- GREATEST SALOON HEADROOM OF ANY COACH
- INDEPENDENT FRONT SUSPENSION



AERODYNAMIC STYLING

The Integral 425's advanced styling is the result of a result, the lowest drag coefficient ever recorded of consumption of up to 17 MPG. Independent road to the road.



The extremely comfortable ergonomically designed vision.

STRUCTURE

The 425's Cromwell structure is of immense strength and offers no fewer than 6 roll-over hoops. The whole vehicle is constructed with corrosion resistant materials ensuring long life with great safety.



HUGE BAGGAGE CAPACITY

14 cubic metres of luggage capacity – a huge obs

INTEGRAL 425



- INCREDIBLY SMOOTH, SILENT RIDE WITH GREAT SECURITY
- RIGID AND TOTALLY CORROSION-RESISTANT CONSTRUCTION
- IMMENSE ROLL-OVER AND CRASH PROTECTION
- INNOVATIVE, HIGHLY EFFICIENT HEATING AND VENTILATION SYSTEM
- LUXURIOUS SOFT TRIM SAFETY INTERIOR WITH SEATS THAT HAVE PASSED A 15G CRASH TEST
- ANTI-SKID BRAKING OPTION

A rigorous programme of aerodynamic testing – the production coach – C.d. 425 and recorded fuel consumption confirm the 425 as the most fuel efficient coach on



The driving position was found to be outstanding and provides outstanding



LUXURIOUS INTERIOR

Reached through the widest of entrances the luxurious soft trimmed interior offers passengers panoramic views in unparalleled safety and comfort.



Access free hold reached through four lift-up flaps.

SPEED AND FUEL OVERALL LITRES PER 100 KM

	10MPG	11MPG	12MPG	13MPG
Duple 425	81.5 km/h			
Van Hool T815 Cummins	76.45 km/h			
Scania K92	74.8 km/h			
Setra S21 5HRI	79.2 km/h			
Bedford UNV	78.3 km/h			
Bova Futura	80.6 km/h			
Dennis Javelin	80.3 km/h			

Comparing the 10 m.p.g. of the average coach with the 13.3 m.p.g. achieved by the 425 in an independent road-test, the Duple 425 gives – approximately £40 saving on every tank of fuel. – approximately £4,000 saving every 100,000 miles – up to 50% of original purchase price every 10 years.

Source: Commercial Motor 1987

300 SERIES

BASE

Fixed Seats G.A. 300F
 Adjustable High-Back Driver's Seat
 Body Side Insulation
 Curtain Tracks
 Modular Luggage Racks with Dividers and Back Panels
 Driver's Private Locker
 Driver's Sun Visor
 Advanced Micro-Processor Controlled Heating
 Warm Air Side Window Demist
 Forced Fresh Air Ventilation
 Two Rear-Lifting Lift Up Roof Units
 Motorized Roof Air Extractor
 Full Soft Interior Trim
 1 Piece Laminated Windscreen
 Two Speed plus Intermittent Wipers (Heavy Duty Radial Arm)
 Rear Luggage Locker with illumination
 Lockable Fuel Fillers
 Jig Built All Steel Structure
 2 Pack Epoxy Anti-Corrosion Treatment Plus Wax Oil Injection
 Interior Mirror and Seat Numbers

"L" PACK AS BASE PLUS

Fixed Seats G.A. 300F (Maximum Number)
 Underfloor Sound Insulation (Not on 340)
 Body Roof Insulation
 Radiomobile Stereo Radio/Cassette and P.A.
 1 Pair Halogen Spot Lamps
 Power Operated Pivot Door
 Side Lockers (320) Pannier Lockers (340)
 Wheel Trims
 Acrylic Finish Paint Scheme: Base Colour Plus 2 colour bands
 Deluxe Saloon Lighting (12 Fluorescents plus Dimmer)

"SL" PACK AS "L" PACK PLUS

Reclining Seats (G.A. 300R Maximum number)
 Moquette Highlights to Luggage Racks
 Durable Matting to Entrance Platform
 Heated Rear View Mirrors
 Gangway Carpet

"SLX" PACK AS "SL" PACK PLUS

Driver's/Courier's Fan
 Full Draw Curtains
 Courier Seat Plus Extra Microphone
 Nearside Sun Visor
 Blaupunkt Munchen 400 Electronic Radio Cassette PA
 Double Glazed Tinted Side Windows
 Continental Door and Steps
 Tempo 100 Equipment
 Eberspacher Combustion Water Heater

"EX" PACK AS "SLX" PACK PLUS

Driver's Bunk with Intercom, Lighting and Ventilation (Not 320)
 Sunken Rear Toilet with Detachable Top (340 only)

INTEGRAL 425

"L" Pack

Fixed Seats G.A. 300F (maximum number)
 Variable Rake Driver's Seat with Headrest
 Sponge Backed Acoustic Floor Covering
 Underfloor Noise Insulation
 Body Side Insulation
 Body Roof Insulation
 Curtain Tracks
 Full Soft Trim Interior
 Modular Luggage Racks with Dividers
 Driver's Private Locker
 Driver's Sun Visor
 Advanced Micro-Processor Controlled Heating
 Warm Air Side Window Demist
 Forced Fresh Air Ventilation
 Radiomobile Stereo Radio Cassette P.A.
 Pair of Halogen Spot Lamps
 1 Piece Laminated Windscreen
 Direct Glazed Tinted Side Windows
 Two-Speed plus Intermittent Wipers (Heavy Duty Radial Arm)
 Power Operated Plug Door
 Full Underfloor Luggage Compartment
 Luggage Locker Illumination
 Wheel Trims
 Lockable Fuel Fillers
 Solar Reflective Upper Windscreen
 Acrylic Non-Metallic Paint - 1 colour, 2 colour bands
 Jig Built All-Steel Structure Made Entirely from Corrosion Resistant Materials

"SL" PACK AS "L" PACK PLUS

Reclining Seats G.A. 300R (maximum number)
 Durable Matting to Entrance Platform
 Moquette Highlights to Luggage Racks
 Gangway Carpet
 Heated Rear View Mirrors

"SLX" PACK AS "SL" PACK PLUS

Full Draw Side Window Curtains
 Courier Seat plus Extra Microphone
 Eberspacher Combustion Water Heater
 Blaupunkt Munchen 400 Oslo Electronic Radio Cassette P.A.
 Double Glazed Tinted Side Windows
 Continental Door and Steps
 Tempo 100 Equipment
 Driver's/Courier Fan
 N/S Sun visor

"EX" PACK AS "SLX" PACK PLUS

Driver's Bunk with Intercom, Lighting and Ventilation
 Sunken Toilet with Detachable Top

300 SERIES

CHASSIS	LENGTH	CHASSIS	LENGTH
DENNIS JAVELIN	8.5 M	VOLVO B10M	12 M
DENNIS JAVELIN	11 M	DAF MB 230	12 M
DENNIS JAVELIN	12 M	DAF DHTD	12 M
LEYLAND TIGER	11 M	DAF 2300 DHS	12 M
LEYLAND TIGER	12 M	SCANIA K92	12 M

INTEGRAL 425

TECHNICAL SPECIFICATION

MECHANICAL

Engine: Cummins LT10 216 kw or D.A.F. DK-SB 231 kw/310 BHP

Rear Axle: Rockwell R150.6 single reduction Hypoid. Ratio 3.2/1.

Gearbox: ZF. 7-speed manual. Automatic Option.

Retarder Telma Focal 190.

Front Suspension: Independant double wishbone air suspension, double acting dampers.

Rear Suspension: 4-Bag Air Suspension using H. frame located by Weweler mountings.

Braking System: Dual line air.

Tyres: 275/80 R.22.5 Radial Tubeless.

ELECTRICAL

General: 24 volt negative earth

Batteries: Exide 733 lead acid on slide out carrier.

Alternator: 115 A Cummins; 120 A DAF

CONSTRUCTION

Structure: Extremely stiff fully triangulated space-frame of corrosion-resistant material throughout.

Stressed to 3 g within material yield strength and with frontal, side and rear anti-intrusion features.

Bodywork: Employing corrosion-resistant materials throughout. Bonded one-piece side skins. All body panels below floor level are detachable and main panels are of a double skin structure with outstanding damage resistance. One-piece composite roof bonded to space-frame structure.

DIMENSIONS & CAPACITIES

OVERALL HEIGHT: 3390 mm

OVERALL LENGTH: 11990 mm

OVERALL WIDTH: 2500 mm

UNLADEN WEIGHT: 10500 kg (est)

FUEL CAPACITY: 500 litres

PASSENGER CAPACITY:

- 63 with fixed seats

- 59 with reclining seats

- 57 with recliners and continental exit

- 55 with recliners, continental exit and toilet

LUGGAGE CAPACITY: 14 cubic metres (unless fitted with continental exit and/or toilet)

SERVICE

Hestair Duple provide a most comprehensive service system including –

- **SERVICE CENTRES** – where skilled craftsmen can repair, re-build or rebody any make of vehicle
- **FIELD ENGINEERS** – who can undertake repairs on an operator's premises and can also make regular service calls
- **PARTS DELIVERY SERVICE**

In addition our 425 Euro Support package offers a complete back-up for the Integral 425 in Britain and Europe.

SPECIALIST VEHICLES



With their immense strength and high impact styling, Duple bodies are naturally adaptable for special purpose applications. One of these special vehicles – the Peter Carol 340 won a gold medal at the International Motor Show: this vehicle boasted full leather interior, a luxury lounge, full toilet and catering facilities – it was designed and built by Duple craftsmen.

Another such project was the Marlboro Integral 425 designed by Loewy International as a hospitality back-up on the Grand Prix Circuit. This vehicle has to provide maximum visual impact with extreme flexibility, a role for which this 425 is admirably suited. Other contractors involved with this vehicle were United Service Garages and Millbrook Furnishing.

Whatever your needs, Duple can deliver.



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