

ERJ 145 XR



ERJ FAMILY — DESIGN WEIGHTS

E-JETS COMBINE HIGH PAYLOAD CAPABILITY WITH LOW AIRCRAFT WEIGHT.

		ERJ 135		ERJ 140		ERJ 145	
		ER	LR	ER	LR	LR	XR
MTOW	kg (lb)	19,000 41,887	20,000 44,092	20,100 44,312	21,100 46,517	22,000 48,501	24,100 53,131
MLW	kg (lb)	18,500 40,785	18,500 40,785	18,700 41,226	18,700 41,226	19,300 42,549	20,000 44,092
BOW (std)	kg (lb)	11,402 25,137	11,501 25,355	11,816 26,049	11,808 26,032	12,114 26,706	12,591 27,758
MZFW	kg (lb)	15,600 34,392	16,000 35,273	17,100 37,699	17,100 37,699	17,900 39,462	18,500 40,785
MAX. PAYLOAD	kg (lb)	4,198 9,255	4,499 9,918	5,284 11,649	5,292 11,666	5,786 12,755	5,909 13,027
MAX. USABLE FUEL*	kg (lb)	4,132 9,109	5,136 11,322	4,132 9,109	5,136 11,322	5,136 11,322	5,973 13,168
MAX. USABLE FUEL	l (gal)	5,146 1,359	6,396 1,690	5,146 1,359	6,396 1,690	6,396 1,690	7,438 1,965

* Fuel density 0.803 kg/l (6.70 lb/gal)

IN June 2009

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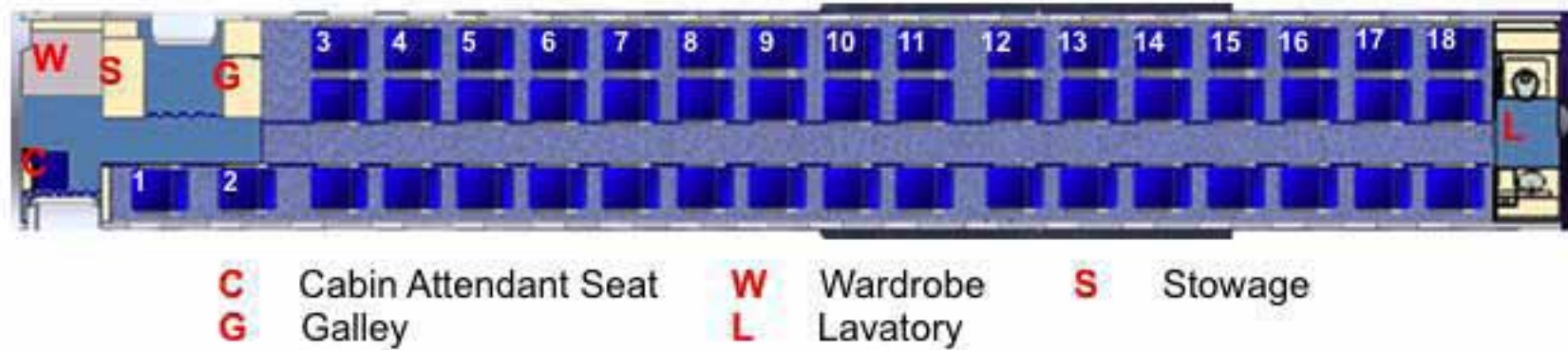


ERJ PERFORMANCE CHARACTERISTICS

		ERJ 135		ERJ 140		ERJ 145	
		ER A3	LR A 1/3	ER A 1/3	LR A 1/3	LR A1	XR A1E
MAX CRUISE SPEED	mach	0.78	0.78	0.78	0.78	0.78	0.80
TIME TO CLIMB <small>TO FL350 TOW FOR 400 NM, FULL PAX</small>	min	20	15	16	16	18	15
TAKE OFF FIELD LENGTH <small>TOW FOR 400NM, FULL PAX, ISA, SL</small>	m (ft)	1,320 4,331	1,330 4,364	1,270 4,167	1,270 4,167	1,380 4,528	1,340 4,396
TAKE OFF FIELD LENGTH <small>MTOW, ISA, SL</small>	m (ft)	1,640 5,381	1,760 5,774	1,580 5,184	1,850 6,070	2,270 7,448	2,070 6,791
LANDING FIELD LENGTH <small>MTOW, ISA, SL</small>	m (ft)	1,360 4,462	1,360 4,462	1,380 4,528	1,380 4,528	1,400 4,593	1,430 4,692
SERVICE CEILING	(ft)	37,000	37,000	37,000	37,000	37,000	37,000
RANGE <small>MTOW, ISA, SL</small>	nm (km)	1,300 2,409	1,750 3,243	1,250 2,317	1,650 3,058	1,550 2,873	2,000 3,706

Passenger Weight = 90.7 kg (200 lb)

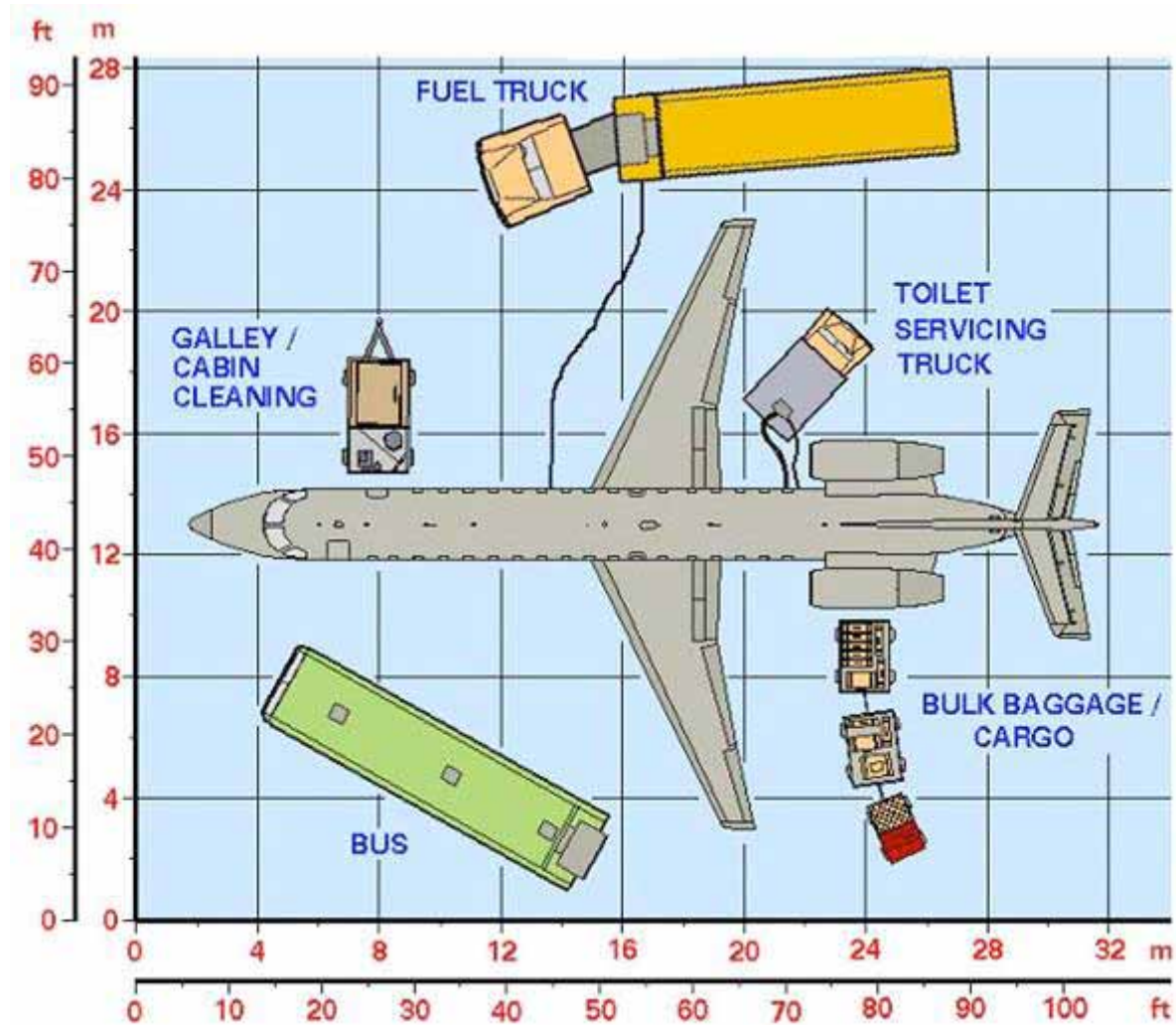
44 SEATS AT 31 INCH PITCH



VOLUME - m ³ (ft ³)	AIRCRAFT	PER PAX
OVERHEAD BIN	1.40 (49.4)	0.032 (1.13)
UNDERSEAT	1.90 (67.1)	0.043 (1.52)
WARDROBE	0.93 (32.8)	0.021 (0.74)
BAGGAGE COMPARTMENT	9.20 (324.9)	0.209 (7.38)
TOTAL	13.43 (474.3)	0.305 (10.77)

ERJ GROUND OPERATIONS

DESIGNED FOR QUICK TURNAROUND AND EFFICIENT SERVICING.



ERJ ENGINE TAKE OFF RATINGS

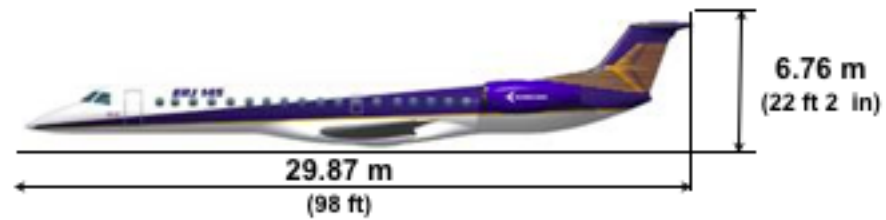
THE AE3007 USES THE SAME ENGINE HARDWARE ON ALL ERJS AND OFFERS THE HIGHEST FLAT RATING ON THE MARKET.

	AE 3007	MAX TO THRUST (LBF)*	ENGINE FLAT RATING
ERJ 135 ER	A3	7,057	ISA + 15°C
	A 1/3	7,057	ISA + 30°C
		7,426 OEI RATING	ISA + 30°C
ERJ 135 LR	A 1/3	7,057	ISA + 30°C
		7,426 OEI RATING	ISA + 30°C
ERJ 140 ER / LR	A 1/3	7,057	ISA + 30°C
		7,426 OEI RATING	ISA + 30°C
ERJ 145 LR	A1	7,426	ISA + 30°C
	A1P	7,426	ISA + 30°C
		8,169 OEI RATING	ISA + 19°C
ERJ 145 XR	A1E	7,950	ISA + 22°C
		8,736 OEI RATING	ISA + 19°C

* sea level, static installed thrust

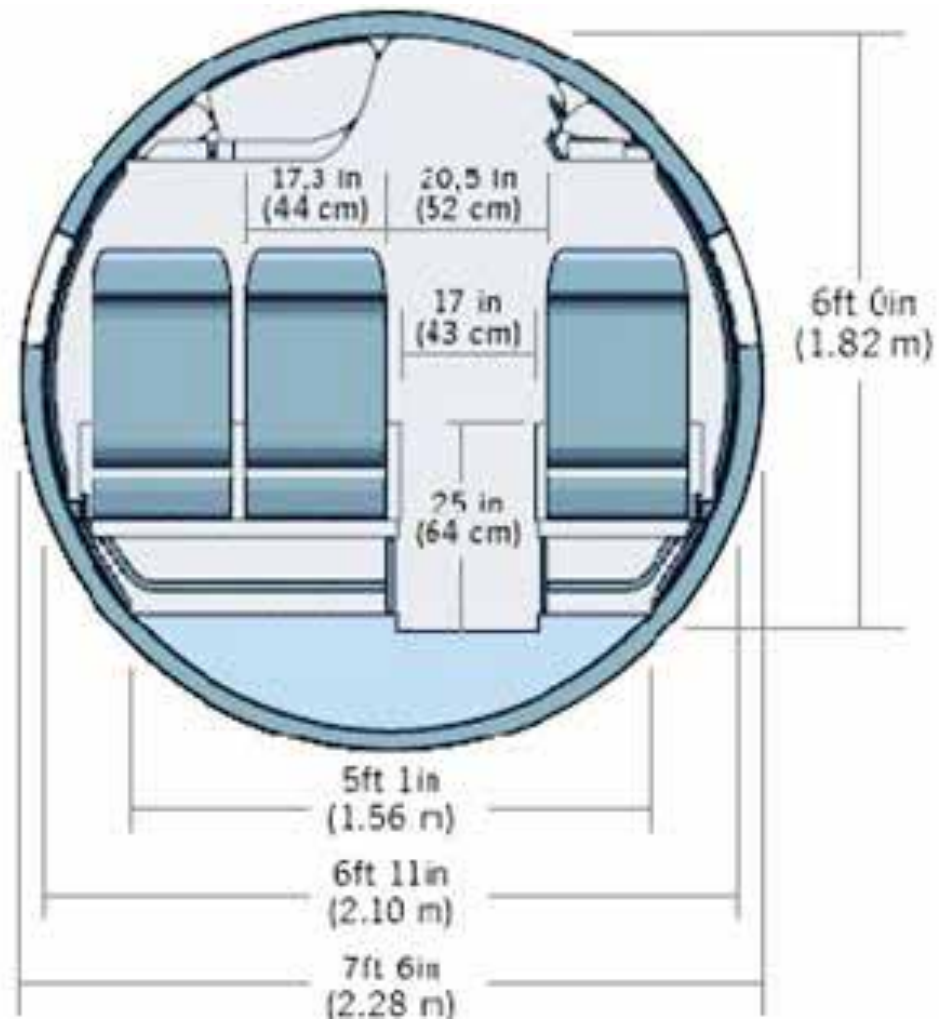
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ERJ CROSS SECTION

LARGE, EYE-LEVEL WINDOWS.



ERJ COMMONALITY

ERJS SHARE 98% PARTS, SYSTEMS AND TRAINING COMMONALITY.



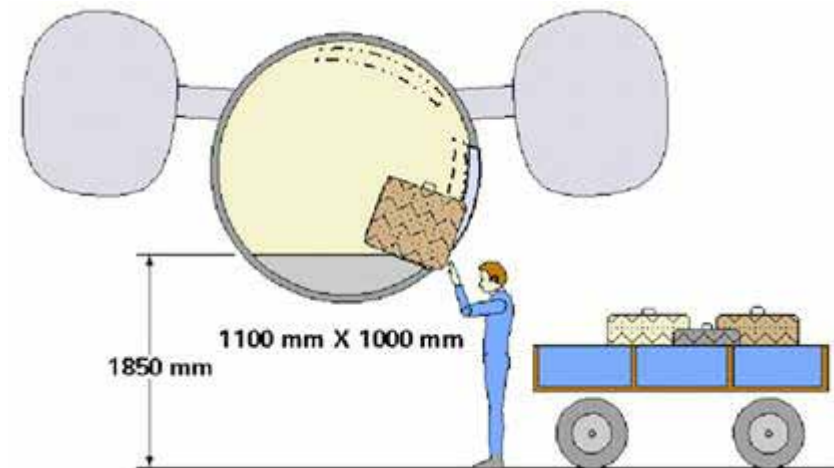
- same fuselage, wing and tail structure
- same engine hardware
- same systems and components
- same landing gear, tires and brakes
- same ERJ crew type rating
- common maintenance and training procedures
- common ground support equipment

ERJ BAGGAGE LOADING

BAGGAGE IS EASY TO LOAD, DISTRIBUTE AND ACCESS INSIDE THE COMPARTMENT.



- door dimensions
1.0 m x 1.1 m
3 ft 3 in x 3 ft 7 in
- ramp at door entrance to facilitate loading
- door at center of Compartment



ERJ BAGGAGE VOLUME AND LOAD

ERJ BAGGAGE VOLUME AND LOAD

	BAGGAGE COMPARTMENT Volume – m ³ (ft ³)		BAGGAGE COMPARTMENT Load – Kg (lb)	
	TOTAL	PER SEAT	TOTAL	PER SEAT
ERJ 135	9.20 (324.9)	0.25 (8.8)	1,000 (2205)	27 (60)
ERJ 140	9.20 (324.9)	0.21 (7.4)	1,200 (2646)	27 (60)
ERJ 145	9.20 (324.9)	0.18 (6.4)	1,200 (2646)	24 (53)

