



Super Light Jets

Manufacturers are looking at upgrading, speed size and comfort while still remaining in the Light Jet category where the Cessna and Bombardier products go head to head for a share of the top end of this market segment.

- The Learjet 45 is the first all-new Learjet since the original Learjet 23 launched almost 40 years earlier. Fast in the climb and smooth in the cruise it is a true Learjet. Artist Tim Hall.
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CESSNA CITATION XLS



HERITAGE

The Citation XLS carries the designation 560XL. Announced at NBAA in 1994 as the Citation XL, it made use of the wing and tail of the Encore and combined it with a shortened Citation X fuselage. Once in production it was renamed the Excel. The Excel first flew in February 1996. The upgraded XLS took over in 2004.

SPECIFICATION

Length	51' 10"	15.79m
Wingspan	56' 4"	17.17m
Height	17' 2"	5.24m
Cabin Length	18' 6"	5.64m
Cabin Width	5' 6"	1.68m
Cabin Height	5' 8"	1.73m
Max Range	1,939nm (full fuel MTOW)	3,593km
Max Seating	2 + 10	
Typical Seating	2 + 8	
Powerplant	2x P&WC PW545B	3,991lb/17.75kN each
Avionics	Honeywell Primus 1000	
Max Cruise Speed	M 0.75	433KTAS/802km/h
Max Ceiling	45,000ft	13,716m
Rate of Climb	3,500fpm	1,067mpm
Take off Distance	3,560ft	1,085m
Landing Distance	3,180ft	969m
MTOW	20,200lbs	9,163kg
Max Landing Weight	18,700lbs	8,482kg
Useful load	7,600lbs	3,447kg
Payload with full fuel	860lbs	390kg
Price	\$10.7	€8.35m

Super Light Jets



WITH about a million hours of operation and more than 500 aircraft sold it is no wonder that the XLS – and the Excel before it – has been described as the “workhorse” for short-range charter operators.

Customers like the stand-up cabin, and operators like the economy, purchase price, operating cost, ease of maintenance and field service support.

The 560 series began with the Citation XL, which was granted Federal Aviation Administration type certification in April

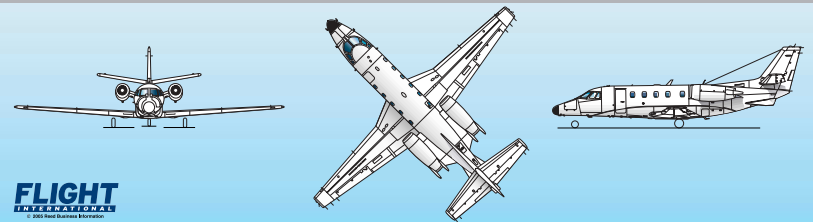
1998. The XL received a block point change in 2004 and became the XLS.

The XLS travels as fast as 500mph, has a range of more than 1,800nm (3,334km), climbs direct to 45,000ft (13,716m) in 29 minutes, and can land on runways as short as 3,560ft (1,085m).

The first European delivery, to an operator in Portugal, occurred late in 2004.

The Excel was one of the first applications for the new generation PW-500 series engines.

SPOTTER'S GUIDE



The XLS has six windows on the port side and five on starboard of this shortened Citation X fuselage (the same fuselage cross section as the Citation III, VI and VII). Look for the modified unswept supercritical wing and, the cruciform tail configuration and two ventral strakes.

BOMBARDIER LEARJET 45 XR



SPECIFICATION

Length	57' 6"	17.56m
Wingspan	47' 8"	14.56m
Height	14' 1"	4.31m
Cabin Length	19' 8"	6.02m
Cabin Width	5' 1"	1.56m
Cabin Height	4' 9"	1.50m
Max Range	2,087nm	3,865km
Max Seating	2 + 9	
Typical Seating	2 + 6	
Powerplant	2x Honeywell TFE7361-20-BR	3,500lbs/15.56kN
Avionics	Honeywell Primus 1000	
Max Cruise Speed	M 0.81	465ktas/860km/h
Max Ceiling	51,000ft	15,545m
Rate of Climb	1,720fpm	524mpm
Take off Distance	5,040ft	1,536m
Landing Distance	2,660ft	811m
MTOW	21,500lbs	9,752kg
Max Landing Weight	19,200lbs	8,709kg
Useful load	7,610lb	3,451kg
Payload with full fuel	1,800lbs	816kg
Price	\$11.15m	€8.67m

Super Light Jets

THE Learjet 45 XR is proving popular with charter operators around the world. The upgraded derivative of the Learjet 45 has improved performance characteristics for hot and high fields thanks to the Honeywell TFE731-20BR engines, upgraded from the 731-20AR

Like all of the Learjet models, Bombardier prides itself on its unmatched time-to-climb performance.

The aircraft will typically fly nearly 2,000nm (3,675km) with eight passengers on board.

With four passengers it has a maximum range of 2,087nm (3,865km).

A high speed cruise of Mach 0.81 (465 ktas or 860km/h) at 51,000ft (15,545m) puts it way above commercial traffic.

It can climb to 43,000ft in just 25 minutes with maximum gross take off weight.

The Learjet 45 with the -AR engines are still available, but with reduced value on re-sale are not so popular and since the first delivery in July 2004 the XR is easily the most popular choice.

It can carry up to nine passengers.



HERITAGE

The Learjet 45 launched in September 1992 was the first all-new Learjet since the original Learjet 23 launched almost 40 years earlier. The aircraft was the first business-jet to be fully designed on computer rather than paper (CAD).

A smaller derivative of the aircraft was launched as the Learjet 40 in 2002.

The Learjet 45 was the first business jet under 35,000lbs to receive type approval from Europe's JAA.

SPOTTER'S GUIDE



The Learjet 45XR has eight windows on each side plus the T-tail and the Learjet winglets makes it easily recognisable on the ramp.