

Family	NG's					
Series	500	600	700	800	MAX-8	MAX-10
Production:						
First flight	30-jun-89	22-jan-98	09-feb-97	31-jul-97	29-jan-16	2019
First delivery	28-feb-90	18-sep-98	17-dec-97	22-apr-98	22 May 2017	2020
Launch customer	Southwest	SAS	Southwest	Hapag Lloyd	Batik Air	?
Last delivery	21-jul-99	Current	Current	Current	Current	Current
Units produced	388	66	1150	3486	4	0
Still in service	367	66	1149	3485	0	0
On Order	-	3	422	669	3500	0
Hull losses	3	0	1	1	0	0
Fatal hull losses	2	0	0	0	0	0
Powerplant:						
Model	CFM56-3	CFM56-7	CFM56-7	CFM56-7	CFM LEAP 1B	CFM LEAP 1B
Type	#REF!	7B18	7B20	7B24	28B1	
Static Thrust (kN)	82.3	82.0	89.0	107.0		
Static Thrust (Lb)	18,5	18,5	20,6	24,2		
Bypass Ratio	5.0	5.5	5.4	5.3		
EGT Margin (C)	90	145	148	125		
Fan tip diameter (in)	60	61	61	61	69.4	78
Max Nacelle Width (m)	2.00	2.06	2.06	2.06		
Dimensions:						
Fuselage:						
Aircraft length (m)	31.01	31.20	33.60	39.50	39.52	43.79
Fuselage length (m)	29.80	29.88	32.18	38.08	39.12	43.44
Height (m)	4.01	4.01	4.01	4.01	4.01	4.01
Width (m)	3.76	3.76	3.76	3.76	3.76	3.76
Cabin width (m)	3.53	3.53	3.53	3.53	3.53	3.53
Finess Ratio	8.02	8.01	8.63	10.21	10.21	10.91
Wing:						
Span (m)	28.88	34.32	34.32	34.32	35.90	35.90
Gross Area (m ²)	105.4	124.58	124.58	124.58		
Aspect Ratio	9.16	9.45	9.45	9.45		
Taper Ratio	0.240	0.159	0.159	0.159		
Root Chord (m)	7.32	7.88	7.88	7.88		
Tip Chord (m)	1.62	1.25	1.25	1.25		
M.A.C.(m)	3.41	3.96	3.96	3.96		
Dihedral (°)	6	6	6	6		
¼ Chord Sweep (°)	25.00	25.02	25.02	25.02	25.03	25.03
Wing High Lift Devices:						
Flap Span/Wing Span	0.720	0.599	0.599	0.599	0.599	0.599
Flap Area/Wing Area	0.290	0.300	0.300	0.300	0.300	0.300
Fin:						
Aircraft Height (m)	11.13	12.6	12.6	12.6	12.42	12.42
Fin Height (m)	6.15	7.16	7.16	7.16	7.16	7.16
Fin Area (m ²)	23.13	26.44	26.44	26.44	26.44	26.44
Rudder Area (m ²)	5.22	5.22	5.22	5.22	5.22	5.22
Aspect Ratio	1.81	1.91	1.91	1.91	1.94	1.94
Taper Ratio	0.310	0.271	0.271	0.271	0.271	0.271

112,5984252
1340.9679

25,853

284.5977
56.18761

¼ Chord Sweep (°)	35	35	35	35	35	35
Horiz Stabilizer:						
Span (m)	12.70	14.35	14.35	14.35	14.35	14.35
Tailplane Area (m²)	31.40	32.78	32.78	32.78	32.78	32.78
Elevators Area (m²)	6.55	6.55	6.55	6.55	6.55	6.55
Aspect Ratio	4.04	6.16	6.16	6.16	6.16	6.16
Taper Ratio	0.260	0.203	0.203	0.203	0.203	0.203
Dihedral (°)	7	7	7	7	7	7
¼ Chord Sweep (°)	30	30	30	30	30	30
Undercarriage:						
Track (m)	5.25	5.76	5.76	5.76	5.72	5.72
Wheelbase (m)	11.07		12.60	15.60	15.60	TBA
Turning radius (m)	18.30		19.50		21.3	
No. of Nose Wheels	2	2	2	2	2	2
Nose Wheel Diameter (Inches)	27	27	27	27	27	27
Nose Wheel Tread Width (Inches)	7.75	7.75	7.75	7.75	7.75	7.75
Nose Tyre Pressure (psi)	186-194	146-208	142-208	123-208	185	?-208
No. of Main Wheels	4	4	4	4	4	4
Main Wheel Diameter (Inches)	40 or 42	43.5 or 44.5	43.5 or 44.5	44.5	44.5	44.5
Main Wheel Tread Width (Inches)	14.5	14.5	14.5	14.5	14.5	14.5
Main Tyre Pressure (psi)	193-202	117-205	117-205	120-205	213	?-205
Operational Items:						
Accommodation:						
Max certified seating	140	149	149	189	189	244
Typical seating	140	145	145	180	175	216
No. abreast	6	6	6	6	6	6
Cabin Width	3.53	3.53	3.53	3.53	3.53	3.53
Hold volume (m³)	23.30	23.30	30.20	47.10	43.7	52.40
Volume per Passenger	0.18	0.18	0.20	0.25	0.25	0.28
Std Weights (kg):						
Max. ramp	63049	66224	77791	79333	82417	
Max. take-off	62823	65997	77564	79016	82190	92000?
Max. landing	49895	55657	60781	66361	69308	
Max. zero-fuel	46720	51709	57152	62732	65952	
IGW Weights:						
Max. ramp	63049	66224	77791	79229		
Max. take-off	62823	65997	77564	79002	82191	92000?
Max. landing	49895	54657	60781	66349		
Max. zero-fuel	46720	51709	57153	62721		
Fuel capacity (ltrs)	20103	26025	26025	26025	25941	
Fuel capacity (kg)	16200	21000	21000	21000	20826	
Typical DOW	31900	36440	37585	41480		
Design payload	12540	12540	14155	17955		
Max payload	14770	14380	16505	20540		
Weight Ratios:						
Ops Empty/Max T/O	0.609	0.560	0.542	0.530		
Payload/Max T/O	0.239	0.193	0.204	0.230		
Max Fuel/Max T/O	0.307	0.320	0.300	0.266		

Fuel (litres):						
Standard	20105	26035	26035	26035	26035	26035
Optional	23829		37712 (BBJ)	37712 (BBJ2)		
Performance:						
Loadings:						
Thrust Loading (kg/kN)	318.28	396.89	389.89	365.51		
Wing Loading (kg/m ²)	497.05	522.39	556.98	627.77		
Thrust/Weight Ratio	0.3203	0.2568	0.2615	0.2789		
Take-off (m):						
ISA s.l.	1832					
ISA +20°C s.l.	2003	1878	2042	2652		
ISA 5,000ft	2316					
ISA +20°C 5,000ft	2649					
Landing (m):						
ISA s.l.	1357	1340	1415	1634		
Speeds (kt/Mach):						
V2 F5 at MTOW	145					
Vref F40 at MLW	128					
Vmo/Mmo	340/0.82	340/0.82	340/0.82	340/0.82	340/0.82	340/0.82
CLmax (T/O @ MTOW)	2.06					
CLmax (Land @ MLW)	2.96					
Long range cruise:						
IAS / Mach	250/0.745	230/0.785	230/0.785	230/0.785	230/0.785	230/0.785
TAS (kt)	430	450	450	450	450	450
Ceiling (ft)	37000	41000	41000	41000	41000	41000
L.R. Fuel flow (kg/h)	2100	1932	2070	2187		
Range with max payload (nm)	2950	4500	4400	4000	3620	3595
Design Parameters:						
(W/S)/CLmax	1650					
W/SCLtoST	1962					
Seat x Range (seats.nm)	224400	421212	476353	547533		