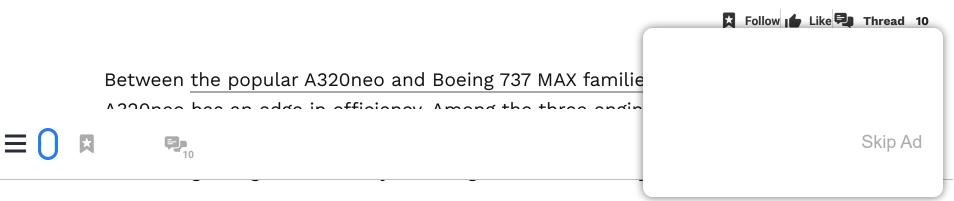




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Meanwhile, as **Boeing** continues to focus on bringing its remaining two MAX variants into service, Airbus is reportedly already working on a nextgeneration single-aisle replacement for its Airbus A320 family aircraft. As of mid-2025, only the Boeing MAX 8 and MAX 9 have their FAA-type certificates, with certificates for the MAX 7 and MAX 10 still pending.

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Airbus A320neo Has Bigger Engines





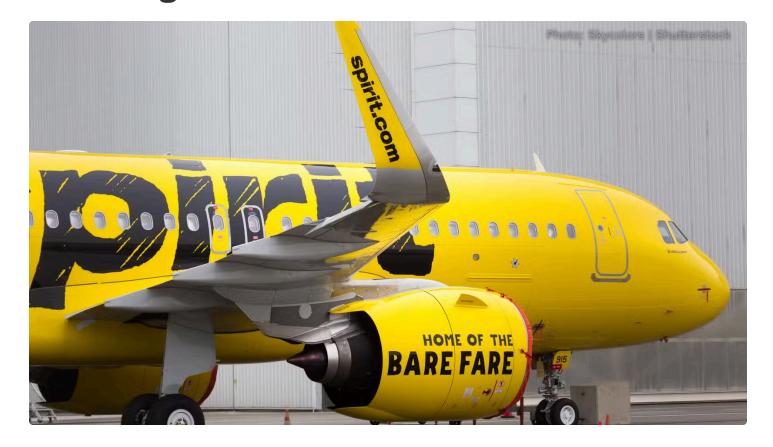
The Boeing 737 MAX and A320neo families dominate the narrowbody commercial airliner market. The CFM International LEAP-1B turbofan exclusively powers the Boeing 737 MAX family, while the C LEAP-1A or the Pratt & Whitney PW1100G-JM optionally po

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Physically, there are differences too. The MAX's LEAP-1B engines have flat bottoms to enable them to have enough ground clearance as the Boeing 737 is an older 1960s design sitting closer to the ground and was designed when engines were smaller. The A320neo's LEAP-1A engine measures in the formula length, 8.3 feet in width, 7.8 feet in height, and weighs 6,6 1B measures in with a length of 10.3 feet, a width of 7.9 fe

Link copied to clipboard **\irbus A320neo's CFM LEAP-1A Has The** Advantage



Of the three engine types, the CFM International LEAP-1A is generally considered to be marginally more efficient. It is also estim slightly lower maintenance costs compared with the PW11 be noted that determining which is definitively more effic

Link copied to clipboard Operational costs.

> This slight edge is seen in that the LEAP-1A is the more popular choice for the Airbus A320neo family. However, it is not so decisive that airlines don't also select the PW1100G-JM. Writing in 2020, <u>AirInsight wrote that while the</u> <u>competition between the CFM and P&W engines is close</u>, the CFM LEAP engine is clearly doing better on the A320neo. However, it is not a clear-cut case, as it points out that the P&W engine has a better fuel burn and does better on the larger A321neo. But even this is contradicted in other sources that claim the P&W engine is 1% less efficient on the A321neo.

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Link copied to clipboard	Airbus A320neo's LEAP-1A	Boeing 737 MAX's LEAP-1B:	
Max thrust:	35,000 lbf	28,000 lbf	
Bypass Ratio:	11:1	8.6:1	
Overall Pressure Ratio:	40:1	41:1	
Length:	11 feet	10.3 feet	
Weight:	6,632 lbs	6,128 lbs	

The LEAP-1A appears to have increased its market share on the A320neo over time. In 2016, the LEAP-1A had a 55% market share for A320neo engine orders. In 2022, it was reported that the LEAP engine had a 72% market share in the narrowbody market, with a 60% market share of A320neo orders. By 2024, the LEAP was selected for 75% of A320neo orders. One of the main factors for the shift is that the LEAP-1A is considered to have proven itself to be the more reliable engine.

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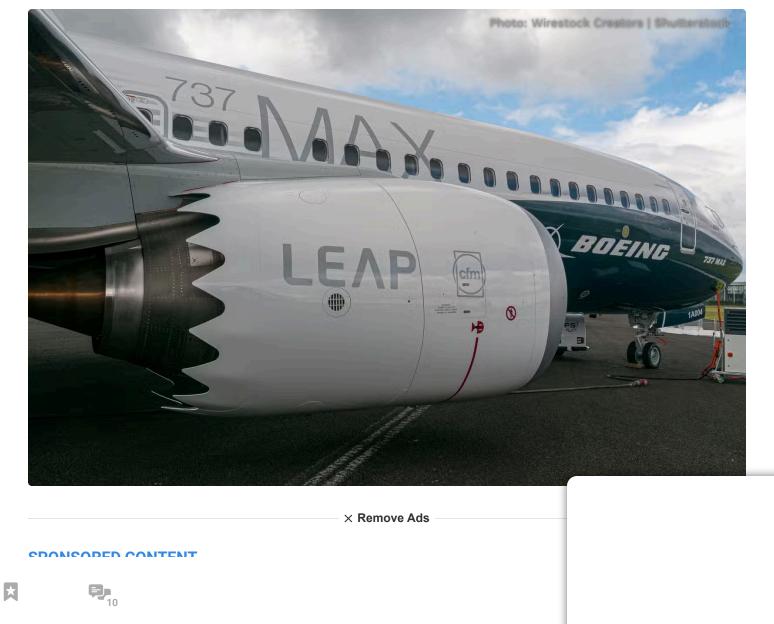
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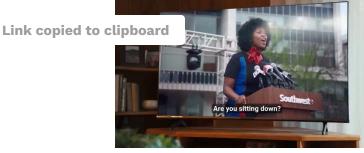
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MAX



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By Southwest Airlines



The Airbus A320neo with LEAP-1A engines is overall the most fuel-efficient, getting 0.682 nautical miles per gallon. This is slightly ahead of the 0.676 nautical miles per gallon that the Boeing 737 MAX 8 achieves. As stated above, according to AirInsight, the LEAP generally offers a better efficiency based on cost per seat hour compared with its P&W counterpart. The LEAP-1A generally has a 1-2% fuel burn advantage, although this depends on various factors.

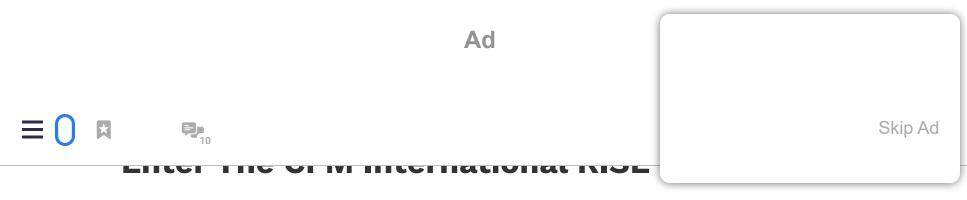
When it comes to larger aircraft in the class like the Boeing 737 MAX 9 and the Airbus A321neo, there is, predictably, a drop-off in efficiency as their larger size requires higher fuel burn rates. These aircraft get around 0.569 to 0.625 nautical miles per gallon. Data from AirInsight suggests the Airbus A320neo has a fuel burn rate of around 668.4 gallons per hour. This is around 660 gallons per hour with the LEAP engines and 3[°] with the P&W engines.



Link copied to clipboard per hour:

Airbus A320neo:	668.4 gallons
Airbus A321neo:	788.2 gallons
Boeing MAX 8:	664.3 gallons
Boeing MAX 9:	720 gallons

The larger A321neo gets around 788.2 gallons per hour, with the LEAP achieving 780 gallons per hour and the P&W getting 790 gallons. When it comes to the Boeing 737 MAX, the MAX 8 achieves a fuel burn of around 664.3 gallons an hour (around 4,460 lbs per hour while cruising). This makes it very close to the A320neo. It is harder to find specific estimates for the MAX 9, but it is believed to be around 720 gallons per hour based on its larger size and other estimates.





It seems the next generation of narrowbody engines will look like turboprops. CFM International is working on the RISE Program that will serve as the foundation for the next CFM engine generation. It is operational in the late 2030s and plans to improve fuel ef

Link copied to clipboard and myor ogen. The engine is currently undergoing ground tests, and when the time comes for aerial tests, a fully functioning engine will be fitted to an A380 flight test aircraft in Toulouse in southern France. Airbus has already begun the process of modifying the Superjumbo to carry the test engine.

Looking into the future. Boeing will eventually replace the

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Link copied to clipboard 1,000 miles, while the second (more direct replacement) will be a short-tomedium range aircraft with a larger wingspan and will be designed to carry the next generation engine.



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Efficiency Is The Name Of The Gan





There are massive pressures on the aviation industry to increase the efficiency of aircraft. Perhaps the leading factor is that fuel is one of the greatest costs of any airline, and reducing fuel consumption reduces overall costs. But there are also regulatory factors where older, noisier, and more polluting aircraft are being more tightly regulated at some Amsterdam's Schiphol Airport.

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has given a five-year reprieve until 2033, this is only for th

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> At the same time, Airbus is experimenting with other ways efficiency, including developing hybrid electric aircraft. Penotable project in development is JetZero's Z4 blended w

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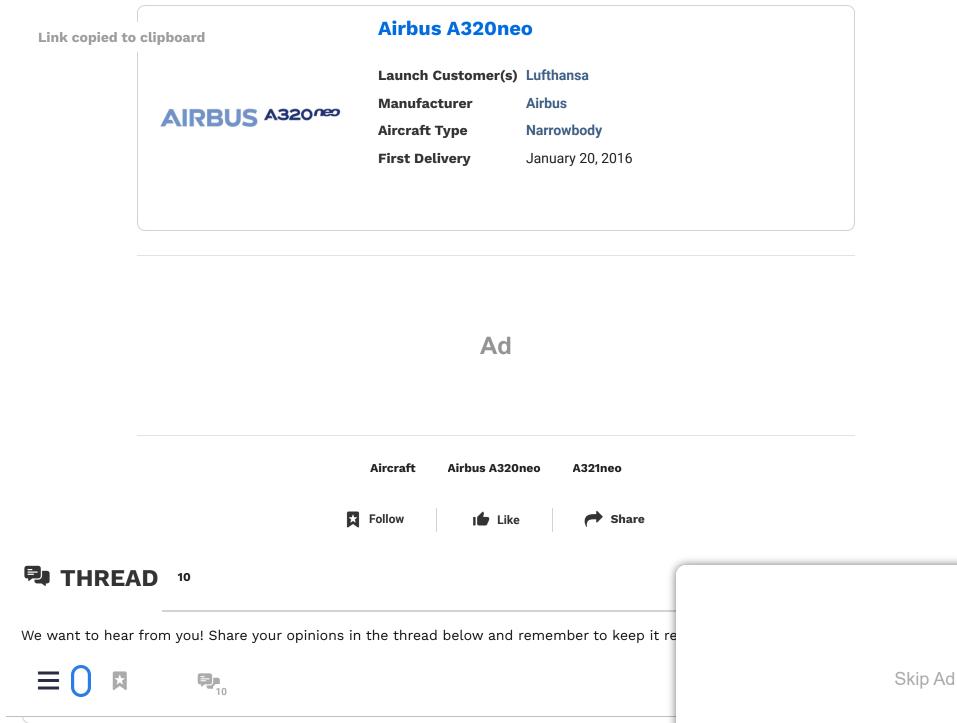
A Convergence Of Advantages



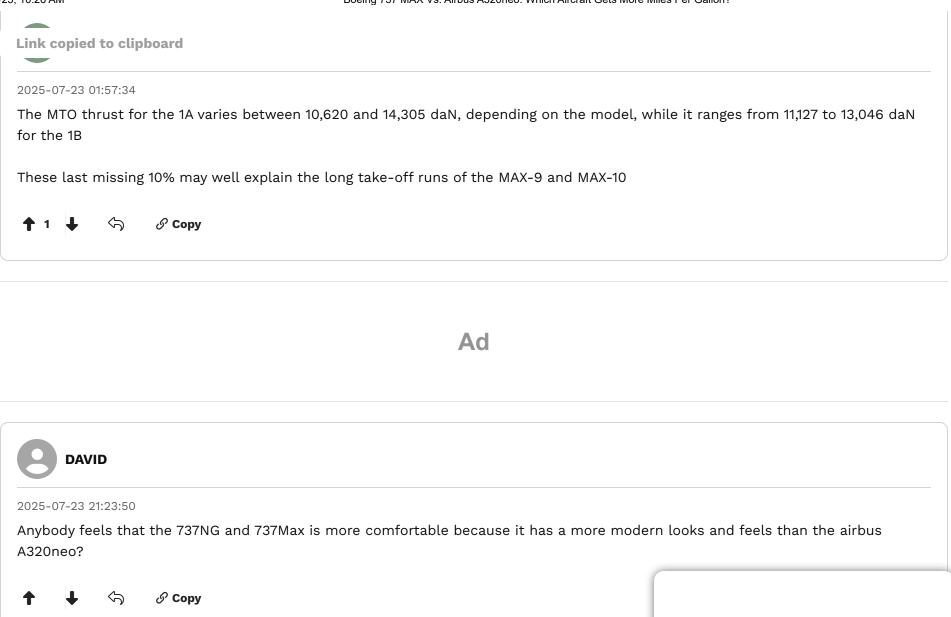
Link copied to clipboard Command to be more fuel efficient than its Boeing 737 MAX counterparts or other P&W-equipped A320neo aircraft. That said, the MAX 8 and A321neo are very close. But while the greater efficiency of the LEAP-1A engines is an important factor in why the A320 family and the LEAP-1A engines are more popular, it is not the only factor.

> Airlines have also been favoring their Airbus A320neo aircraft to have LEAP-1A engines because they have proven more reliable. India's IndiGo has recently had major issues with its P&W-equipped A320neo family fleet. These engines were found to be faulty and many had to be grounded for costly repairs.

> Meanwhile, much of the reason why the Airbus A320neo family enjoys a larger orderbook than the Boeing 737 MAX is due to the MAX crisis triggered by the crashes in 2018 and 2019. This has had other knock-on effects, like the FAA limiting MAX production rates and withholding the type certificate for the MAX 7 and MAX 10, putting the A320neo at an even greater relative advantage.



Leo	
2025-07-23 07:38:57 The A320 neo enjoys a larger orderbook because it came to market earlier (Boeing were cau considered it is a superior aircraft, especoally when it comes to the 321 (all variants), which Airlines continued to order the max during its crisis so I am not sure whsat impct that had o	is in a league of its own.
Altitles continued to order the max during its clisis so rain not sure what aimpet that had on what airlines care about the most is economics and the max is still a very good proposition. ↑ 2 ↓	
8 martyn 2025-07-22 20:14:47	
Another advantage of the Leap 1A against 1B is due to the larger fan and turbine blade size i on the components. ↑ 2 ↓ 〈⊃ 1 & Copy	t runs as a slower speed so less stress
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Ortberg's decision to add on one production line dedicated to the MAX-10 will drastically reduce the delivery time of the 737, which Link copied to clipboard) their commercial arguments

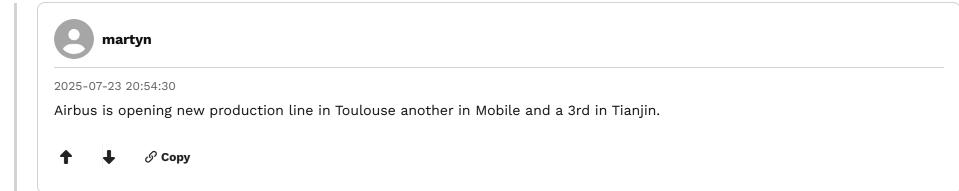
Lucx		
@AYplat The MAX-10 FAL is still far from b	eing operational, so that should not be a proble	em
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025-07-23 18:31:39		
How many whilte-tails they can store whil ↑ ↓ <i>&</i> Copy	e waiting for the certificate?	
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	_ard anything about a third	l Airbus FAL in Ch	ina - the second	l one is only due to	open end of 202	25 or early
2026 and was already	necessary to reach the 75	A320 / mont targ	et			

And Airbus inaugurated an FAL in Toulouse in 2023 and have, I believe, no intention of upping their game (Edited)

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