

Geçmiş : %100 (3 kere cevaplandı, 3 kere doğru, 0 kere yanlış)
Konu : 031 - Mass & Balance / Kaynak : Lucia / Id : 1310234

Grup

Contrary to the forecast given in the Load and Trim sheet, cargo compartment 1 is empty. The take-off centre of gravity in MAC% will be located at:

İlgili Çizimi Göster Notlar Önemli

A 32,5%

B 25%

C 36%

D 31%

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Geçmiş : %0 (3 kere cevaplandı, 0 kere doğru, 3 kere yanlış)
Konu : 031 - Mass & Balance / Kaynak : Lucia / Id : 1310235

Grup

Contrary to the loading sheet forecasts you have:
â—Cargo compartment 1: empty passengers in compartment 0A: 20
â—Cargo compartment 2: 1000kg passengers in compartment 0B: 20
â—Cargo compartment 3: 3000kg passengers in compartment 0C: 30
â—Cargo compartment 4: 2000kg
â—Cargo compartment 5: 1000kg
The take-off CG in % MAC will be located at:

İlgili Çizimi Göster Notlar Önemli

A 31.5%

B 24.5%

C 32.5%

D 35.5%

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Geçmiş : %0 (1 kere cevaplandı, 0 kere doğru, 1 kere yanlış)
Konu : 031 - Mass & Balance / Kaynak : Lucia / Id : 1310250

Grup

İlgili Çizimi Göster Notlar Önemli

Given:
â—Length of the mean aerodynamic chord= 1m
â—Moment arm of the forward cargo: -0.50m
â—Moment arm of the aft cargo: +2.50m
â—The aircraft mass is 2200kg and its centre of gravity is at 25% MAC
To move the centre of gravity to 40%, which mass has to be transferred from the forward to the aft cargo hold?

A 104kg
B 110kg
C 165kg
D 183kg

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Geçmiş : %0 (1 kere cevaplandı, 0 kere doğru, 1 kere yanlış)
Konu : 031 - Mass & Balance / Kaynak : Lucia / Id : 1310262

Grup

İlgili Çizimi Göster Notlar Önemli

Just prior to departure, you accept 10 passengers additional on board who will be seated in "compartment 0C" and you have 750kg unloaded from cargo compartment 5. The take-off centre of gravity in % MAC will be located at:

A 30.5%
B 27.8%
C 28.5%
D 27.2%

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Geçmiş : %100 (1 kere cevaplandı, 1 kere doğru, 0 kere yanlış)
Konu : 031 - Mass & Balance / Kaynak : Lucia / Id : 1310263

Grup

Knowing that:
â—Dry Operating Mass: 110000kg
â—Basic Index: 119.1
â—Number of passengers: 185 distributed as shown in the annex (75kg per Pax)
â—Cargo load+ luggage: 14000kg distributed as shown in the annex
â—Fuel: 42000kg
Stages (1) to (7) and (11) having already been calculated, the CG in % MAC for zero fuel mass is located at:

İlgili Çözümü Göster Notlar Önemli

A 29.3%

B 28.3%

C 32.3%

D 30.5%

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Geçmiş : %0 (1 kere cevaplandı, 0 kere doğru, 1 kere yanlış)
Konu : 031 - Mass & Balance / Kaynak : Lucia / Id : 1310264

Grup

Knowing that:
â—Dry Operating Mass: 110000kg
â—Basic Index: 119.1
â—Number of passengers: 185 distributed as shown in the annex (75kg per Pax)
â—Cargo load+ luggage: 14000kg distributed as shown in the annex
â—Fuel: 42000kg
Stages (1) to (7) and (11) having already been calculated, the CG in % MAC at take-off is located at:

İlgili Çözümü Göster Notlar Önemli

A 28.0%

B 32.5%

C 31.5%

D 30.5%

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Geçmiş : %100 (1 kere cevaplandı, 1 kere doğru, 0 kere yanlış)
Konu : 031 - Mass & Balance / Kaynak : Lucia / Id : 1310265

Grup

Knowing that:
â—Dry Operating mass: 110000kg
â—Basic index: 119.1
â—Number of passengers: 335 distributed as shown in the annex (75kg per PAX)
â—Cargo load+ luggage: 9500kg distributed as shown in the annex
â—Fuel: 40000kg
Stages (1) to (7) and (11) having already been calculated, the centre of gravity in % MAC for zero fuel mass is located at:

İlgili Çözümü Göster Notlar Önemli

A 27.4%

B 29.3%

C 30.5%

D 28.0%

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Geçmiş : %100 (1 kere cevaplandı, 1 kere doğru, 0 kere yanlış)
Konu : 031 - Mass & Balance / Kaynak : Lucia / Id : 1310266

Grup

Knowing that:
â—Dry Operating Mass: 110000kg
â—Basic Index: 119.1
â—Number of passengers: 335 distributed as shown in the annex (75kg per Pax)
â—Cargo load+ luggage: 9500kg distributed as shown in the annex
â—Fuel: 40000kg
Stages (1) to (7) and (11) having already been calculated, the CG in % MAC at take-off is located at:

İlgili Çözümü Göster Notlar Önemli

A 27.4%

B 29.3%

C 28.0%

D 30.5%

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Geçmiş : %100 (1 kere cevaplandı, 1 kere doğru, 0 kere yanlış)
Konu : 031 - Mass & Balance / Kaynak : Lucia / Id : 1310288

The planned take-off mass of a turbojet aeroplane is 180000kg, with its centre of gravity located at 26% MAC. Shortly prior to engine start, the local staff informs the flight crew that 4000kg must be unloaded from cargo 4. After the handling operation, the new centre of gravity location in % MAC will be:

İlgili Çözümü Göster Notlar Önemli

A 20.0%

B 30.2%

C 21.8%

D 23.0%

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Geçmiş : %0 (1 kere cevaplandı, 0 kere doğru, 1 kere yanlış)
Konu : 031 - Mass & Balance / Kaynak : Lucia / Id : 1310289

The planned take-off mass of a turbojet aeroplane is 190000kg, with its centre of gravity located at 29% MAC. Shortly prior to engine start, the local staff informs the flight crew that 4000kg must be unloaded from cargo 4. After the handling operation, the new centre of gravity location in % MAC will be:

İlgili Çözümü Göster Notlar Önemli

A 31%

B 25%

C 27%

D 33%

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Geçmiş : %100 (1 kere cevaplandı, 1 kere doğru, 0 kere yanlış)
Konu : 031 - Mass & Balance / Kaynak : Lucia / Id : 1310290

The planned take-off mass of an aeroplane is 180000kg, with its centre of gravity located at 31% MAC (Mean Aerodynamic Chord). Shortly prior to engine start, the local staff informs the crew that an additional load of 4000kg must be loaded in cargo 1. After loading this cargo, the new centre of gravity location will be:

İlgili Çözümü Göster Notlar Önemli

A 34%

B 28%

C 25%

D 37%

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Geçmiş : %100 (1 kere cevaplandı, 1 kere doğru, 0 kere yanlış)
Konu : 031 - Mass & Balance / Kaynak : Lucia / Id : 1310291

The planned take-off mass of an aeroplane is 190000kg, with its centre of gravity located at 29% MAC (Mean Aerodynamic Chord). Shortly prior to engine start, the local staff informs the flight crew that an additional load of 4000kg must be loaded in cargo 4. After loading this cargo, the new centre of gravity location will be:

İlgili Çözümü Göster Notlar Önemli

A 33%

B 25%

C 31%

D 27%

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Geçmiş : %100 (3 kere cevaplandı, 3 kere doğru, 0 kere yanlış)
Konu : 031 - Mass & Balance / Kaynak : Lucia / Id : 1310295

The weight and balance sheet is available and contrary to the forecast, cargo compartment 1 is empty. The zero fuel weight CG in % MAC is located at:

İlgili Çizimi Göster Notlar Önemli

A 31,5%

B 32%

C 26%

D 35,5%

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Geçmiş : %100 (1 kere cevaplandı, 1 kere doğru, 0 kere yanlış)
Konu : 031 - Mass & Balance / Kaynak : Lucia / Id : 1310213

A turbojet aeroplane has a planned take-off mass of 190000kg. Following cargo loading, the crew is informed that the centre of gravity at take-off is located at 38% MAC which is beyond limits. The captain decides then to redistribute part of the cargo load between cargo 1 and cargo 4 in order to obtain a new centre of gravity location at 31% MAC. He asks for a transfer of:

İlgili Çizimi Göster Notlar Önemli

A 3000kg from cargo 4 to cargo 1

B 1000kg from cargo 4 to cargo 1

C 2000kg from cargo 4 to cargo 1

D It is not possible to obtain the required centre of gravity

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Geçmiş : %100 (1 kere cevaplandı, 1 kere doğru, 0 kere yanlış)
Konu : 031 - Mass & Balance / Kaynak : Lucia / Id : 1310214

A turbojet aeroplane has a planned take-off mass of 190000kg, the cargo load is distributed as follows:
â—cargo 1: 3000kg
â—cargo 4: 7000kg

Once the cargo loading is completed, the crew is informed that the centre of gravity at take-off is located at 38% MAC which is beyond the limits. The captain decides then to redistribute part of the cargo load between cargo 1 and cargo 4 in order to obtain a new centre of gravity location at 31% MAC. Following the transfer operation, the new load distribution is:

İlgili Çözümü Göster Notlar Önemli

A cargo 1: 4000kg; cargo 4: 6000kg

B cargo 1: 6000kg; cargo 4: 4000kg

C cargo 1: 5000kg; cargo 4: 4000kg

D cargo 1: 4000kg; cargo 4: 5000kg

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Geçmiş : %0 (1 kere cevaplandı, 0 kere doğru, 1 kere yanlış)
Konu : 031 - Mass & Balance / Kaynak : Lucia / Id : 1310215

A turbojet aeroplane is parked with the following data:
Corrected dry operating mass: 110100kg
Basic corrected index: 118.6
Initial cargo distribution:
â—cargo 1: 4000kg
â—cargo 2: 2000kg
â—cargo 3: 2000kg

İlgili Çözümü Göster Notlar Önemli

A 1500kg from cargo 3 to cargo 1

B 1000kg from cargo 1 to cargo 4

C 500kg from cargo 1 to cargo 3

D 1000kg from cargo 3 to cargo 1

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Geçmiş : %0 (1 kere cevaplandı, 0 kere doğru, 1 kere yanlış)
Konu : 031 - Mass & Balance / Kaynak : Lucia / Id : 1310216

A turbojet aeroplane is parked with the following data:
Corrected dry operating mass: 110100kg
Basic corrected index: 118.6
Initial cargo distribution:
â—cargo 1: 4000kg
â—cargo 2: 2000kg
â—cargo 3: 2000kg

İlgili Çözümü Göster Notlar Önemli

A 2000kg in cargo 1, 2000kg in cargo 4

B 2500kg in cargo 1, 1500kg in cargo 4

C 1000kg in cargo 1, 3000kg in cargo 4

D 3000kg in cargo 1, 1000kg in cargo 4

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