

A220 COLLINS

NACELLE TOOLING CATALOG








A220 GSE TOOLS

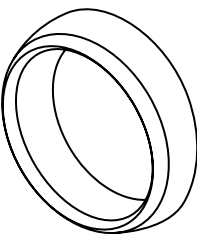
We have the capability to provide you all recommended GSE's based on the Aircraft Maintenance Manual (AMM) for your EIS (Entry-into-Service) program, and all your maintenance operations.

Thanks to our Tooling recommendation team, we can propose you a tailored tooling list for your maintenance workscope.



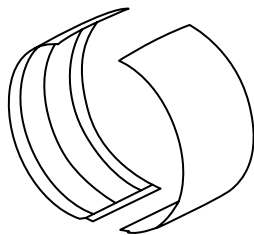
CATEGORY	PART NUMBER	NAME	MINIMAL QT FOR EIS
 INLET COWL	999-1100-1GSE	Inlet Sling	1
	999-1100-2GSE	Inlet Cowl Dolly	1
	999-1100-3GSE	Inlet Protective Rug	0
	999-1100-4GSE	Inlet Cowl Cover	2
 FAN COWLS	999-2000-1GSE	Fan Cowl Sling	1
	999-2000-2GSE	Fan Cowl Dolly	2
	999-2000-3GSE	Fan Cowl Vent Plug	0
 THRUST REVERSER	999-3001-1GSE	Thrust Reverser Sling - LH/RH	1
	999-3001-2GSE	Thrust Reverser Towable Dolly - LH/RH	2
	999-3001-3GSE	Thrust Reverser Beam Bolt Thread Protector	1
	999-3001-7GSE	Thrust Reverser Door Opening System, Hand Pump	1
	999-3001-8GSE	Thrust Reverser Protective Shield	0
	999-3001-11GSE	Thrust Reverser Unlock Pins - LH/RH	0
	999-3001-12GSE	Thrust Reverser Plug	2
	999-3501-2GSE	Translating Sleeve Dolly	1
 NOZZLE & CENTER BODY	999-3501-3GSE	Translating Sleeve Handling Sling	1
	999-4100-4GSE	Exhaust Dolly	1
 ENGINE MOUNT	999-4100-5GSE	Exhaust Nozzle And Centerbody Cover	2
	999-6000-1GSE	Engine Mount Cart	0
	999-6001-2GSE	Forward Engine Mount Sling	1
	999-6501-1GSE	Aft Engine Mount Sling	1

CONTENT



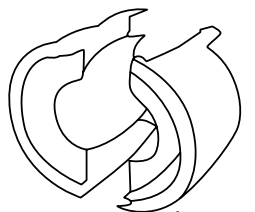
INLET COWL

- > Inlet Cowl Sling p.4
- > Inlet Cowl Dolly p.5
- > Inlet Protective Rug p.6
- > Inlet Cowl Cover p.7



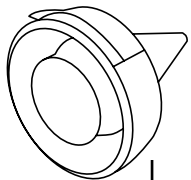
FAN COWLS

- > Fan Cowl Door Sling p.17
- > Fan Cowl Dolly p.18
- > Fan Cowl Vent Door Plug p.19



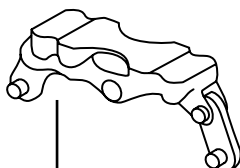
THRUST REVERSER

- > Thrust Reverser Sling - LH/RH..... p.8
- > Thrust Reverser Towable Dolly - LH/RH.....p.9
- > Thrust Reverser Beam Bolt Thread Protector.....p.10
- > Thrust Reverser Door Opening System, Hand Pump .p.11
- > Thrust Reverser Protective Shield.....p.12
- > Thrust Reverser Unlock Pins - LH/RH..... p.13
- > Thrust Reverser Plugp.14
- > Translating Sleeve Dollyp.15
- > Translating Sleeve Handling Slingp.16



NOZZLE & CENTER BODY

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- > Exhaust Nozzle & Centerbody Coverp.21



ENGINE MOUNT

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INLET COWL SLING



DESCRIPTION – USE

The Inlet Cowl Sling is used to lift and move the entire A220 Inlet Assy.



CAUTION

The Inlet Cowl Sling is used to install or remove the Inlet Cowl from the Engine. This tool has a feature that allows the tool operator to rotate the Inlet Cowl and eases the installation on the Engine or placement on the Dolly.



TEST

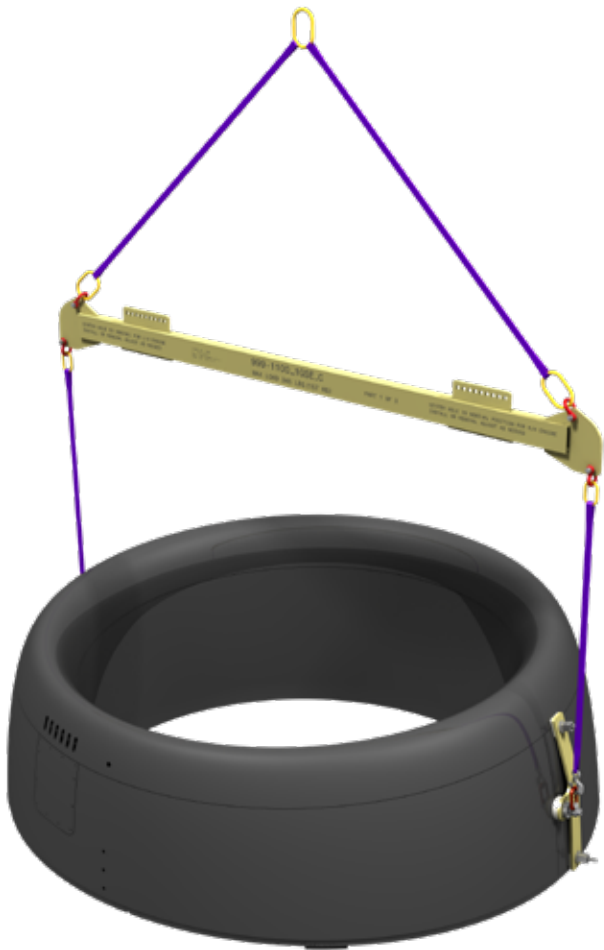
Dedienne Aerospace has regional facilities to aid in the required annual testing and recertification.



DIMENSIONS
2700 x 400 x 450 mm
[107 x 16 x 18 in]



WEIGHT
80 kg [177 lbs]



999-1100-1GSE



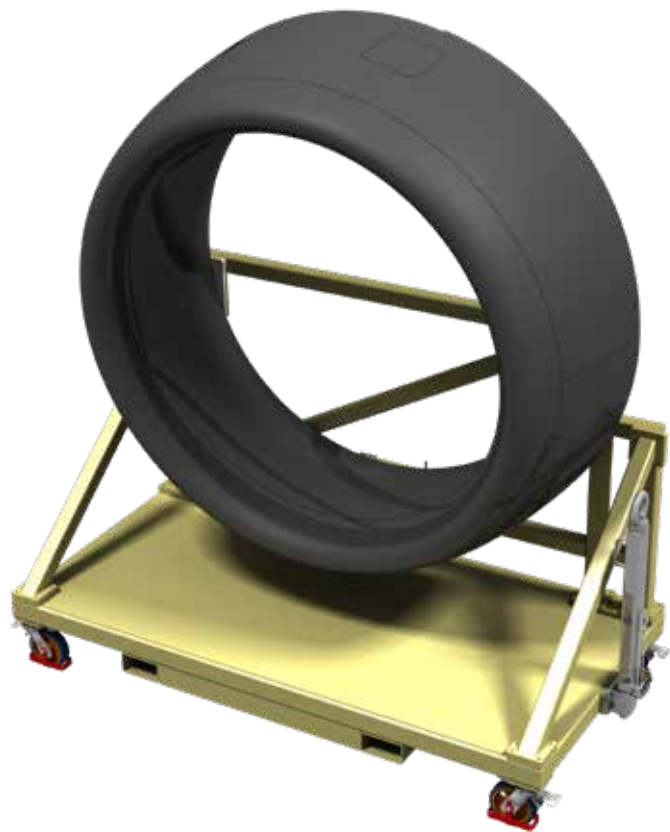
INLET COWL DOLLY

⚙️ DESCRIPTION - USE

This tool is used during the maintenance and transportation of the Inlet Cowl.

⚠️ CAUTION

This tool has been validated for the maintenance of the A220 Inlet Cowl. If the Inlet Cowl is moved or repaired on another tool and there is damage, the insurance company may not cover the damage.



↕️ **DIMENSIONS**
3000 x 1600 x 1900 mm
[119 x 63 x 75 in]

⚖️ **WEIGHT**
800 kg [1,764 lbs]

The pictures, measurements, and weights shall be used only as an indication.

5

999-1100-2GSE



A220 GSE TOOLS



INLET PROTECTIVE RUG

⚙️ DESCRIPTION - USE

This tool is used as a Protective Rug on the Inlet inner surface during Maintenance, Removal or Installation activity on the Inlet.



↕️ **DIMENSIONS**
550 x 350 x 350 mm
[22 x 14 x 14 in]

⚖️ **WEIGHT**
5,6 kg [13 lbs]

The pictures, measurements, and weights shall be used only as an indication.

6

999-1100-3GSE

A220 GSE TOOLS



INLET COWL COVER

⚙️ DESCRIPTION - USE

The Inlet Cowl Cover is used to protect inlet from foreign objects during parking and mooring.

⚠️ CAUTION

Without the Inlet Cowl Cover, water, dust or wind can go inside the Engine.

- > Water retention: accelerates corrosion.
- > Dust: the Engine could be damaged during the ignition.
- > Wind: allows blade rotation which may cause damage.

The Engine warranty may be void if the Covers are not used properly under the required conditions and there is damage to the Engine.



⚡ **DIMENSIONS**
500 x 400 x 400 mm
[20 x 16 x 16 in]

⚖️ **WEIGHT**
3 kg [7 lbs]

The pictures, measurements, and weights shall be used only as an indication.

999-1100-4GSE



THRUST REVERSER SLING - LH/RH

⚙️ DESCRIPTION - USE

The Thrust Reverser Sling is used to pick the Thrust Reverser Engineering Assembly (Both LH/RH) from the ACFT / Shipping container and place the same on the Thrust Reverser Dolly for maintenance purpose. The Manual Hoist connected to the Latch beam location Via the Nylon Strap can be operated to tilt the TR Engineering assembly at various angles during Installation and Removal from ACFT onto the dolly and vise-versa.

⚠️ CAUTION

This tool is the only tool validated to lift the A220 Thrust Reverser. If the Thrust Reverser is lifted using another tool, and there is damage, the insurance may not cover the damage.

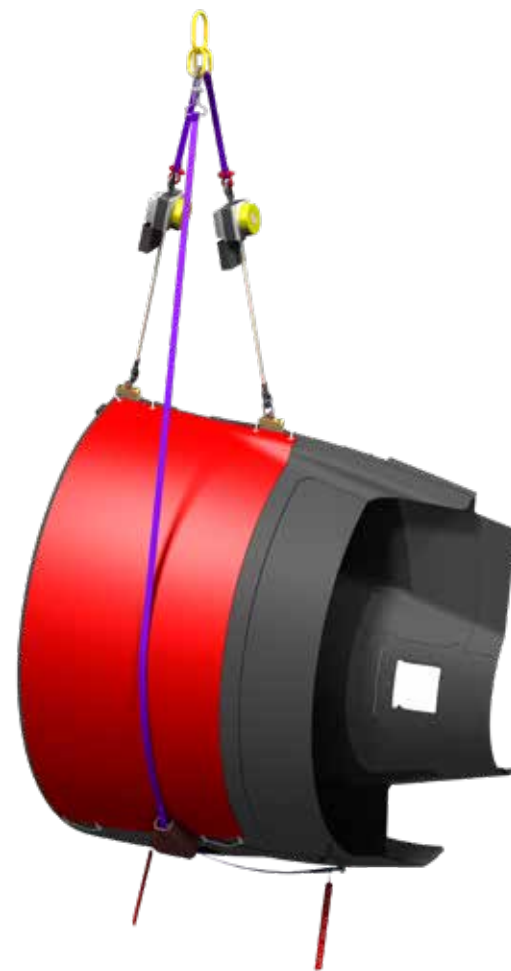
✓ TEST

Dedienne Aerospace has regional facilities to aid in the required annual testing and recertification.

⚡ **DIMENSIONS**
1250 x 1400 x 550 mm
[50 x 56 x 22 in]

⚖️ **WEIGHT**
150 kg [331 lbs]

The pictures, measurements, and weights shall be used only as an indication.



999-3001-1GSE





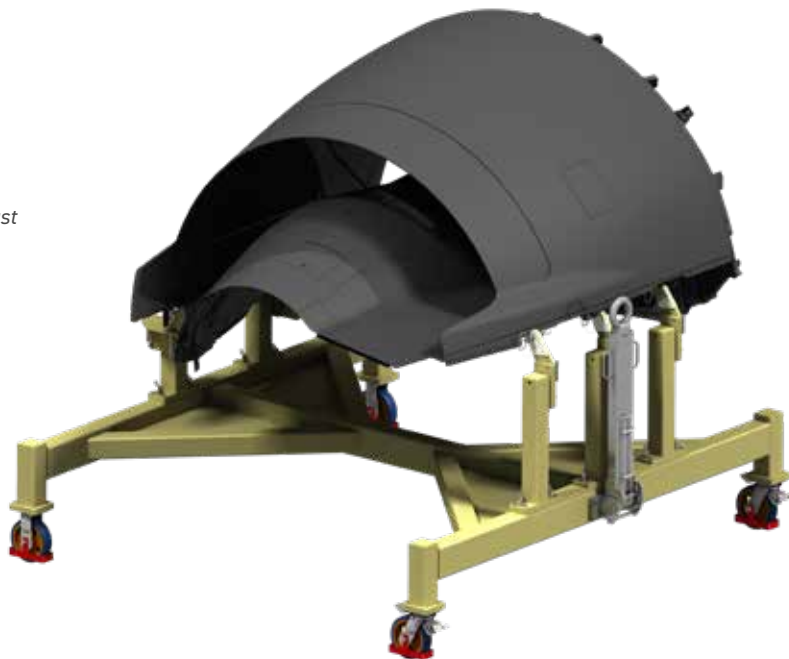
THRUST REVERSER TOWABLE DOLLY - LH/RH

⚙️ DESCRIPTION - USE

This tool is a towable dolly and is used to carry a LH or RH Thrust Reverser.

⚠️ CAUTION

When the Thrust Reverser is removed from the aircraft using the Thrust Reverser Sling, the Thrust Reverser Dolly is needed to store or work on the Thrust Reverser.



↕️ **DIMENSIONS**
2600 x 2600 x 1600 mm
[103 x 103 x 63 in]

⚖️ **WEIGHT**
850 kg [1,874 lbs]

The pictures, measurements, and weights shall be used only as an indication.

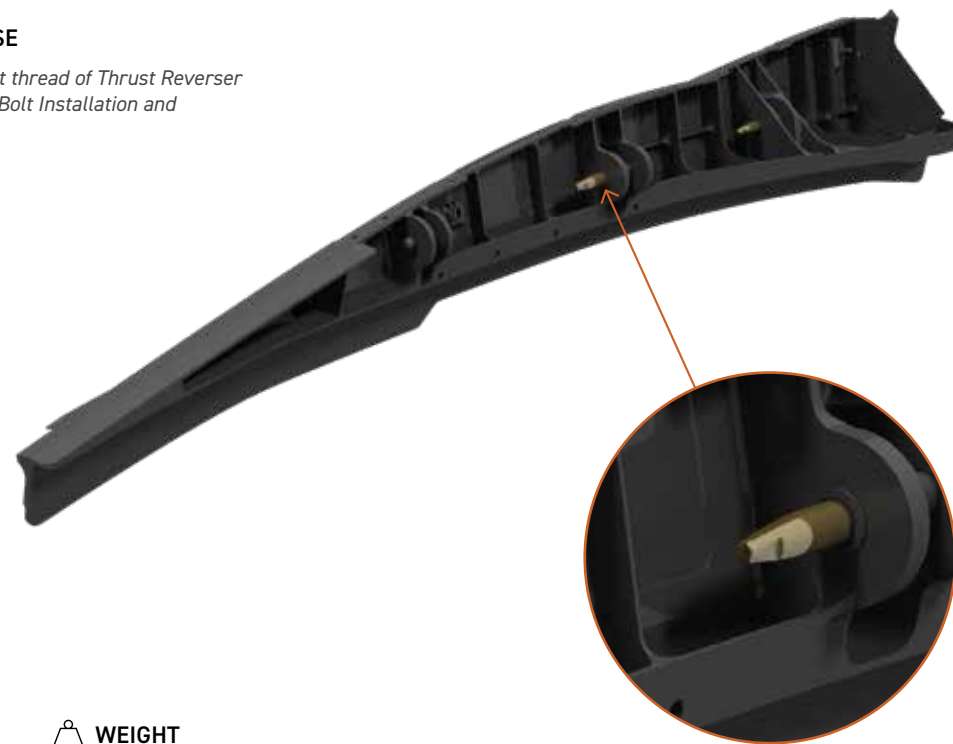
999-3001-2GSE



THRUST REVERSER BEAM BOLT THREAD PROTECTOR

⚙️ DESCRIPTION - USE

This tool is used to protect thread of Thrust Reverser Hinge Beam Bolts during Bolt Installation and Removal.



↕️ **DIMENSIONS**
300 x 300 x 150 mm
[12 x 12 x 6 in]

⚖️ **WEIGHT**
2 kg [5 lbs]

The pictures, measurements, and weights shall be used only as an indication.

999-3001-3GSE





THRUST REVERSER DOOR OPENING SYSTEM, HAND PUMP

⚙️ DESCRIPTION - USE

This tool is used for the manual actuation of Thrust Reverser Door Actuation System.

⚠️ CAUTION

The Thrust Reverser Hydraulic Opening System or pump has been designed for use on the A220. If another pump is used to open the C-Ducts and there is damage, the damage may not be covered by the insurance.

✓ TEST

Dedienne Aerospace has regional facilities to aid in the required annual testing and recertification.

↕️ **DIMENSIONS**
1000 x 1100 x 1250 mm
[40 x 44 x 50 in]

⚖️ **WEIGHT**
105 kg [232 lbs]



The pictures, measurements, and weights shall be used only as an indication.

11

999-3001-7GSE



A220 GSE TOOLS



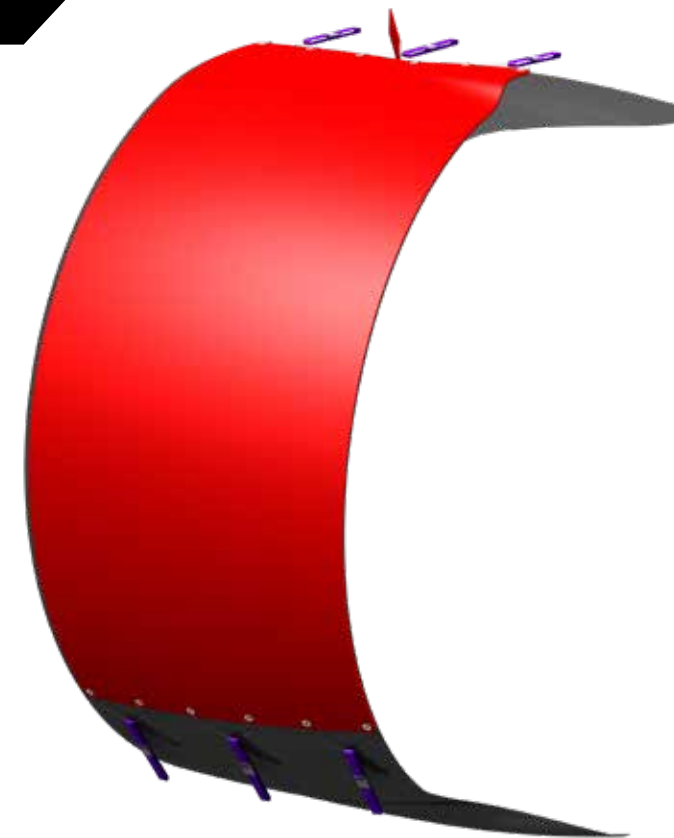
THRUST REVERSER PROTECTIVE SHIELD

⚙️ DESCRIPTION - USE

This Tool is used as Protective Shield on outside surface of Thrust Reverser Duct Assembly during Removal/Installation or Maintenance of the Thrust Reverser Assembly.

↕️ **DIMENSIONS**
1050 x 400 x 900 mm
[42 x 16 x 36 in]

⚖️ **WEIGHT**
38,5 kg [85 lbs]



The pictures, measurements, and weights shall be used only as an indication.

12

999-3001-8GSE

A220 GSE TOOLS



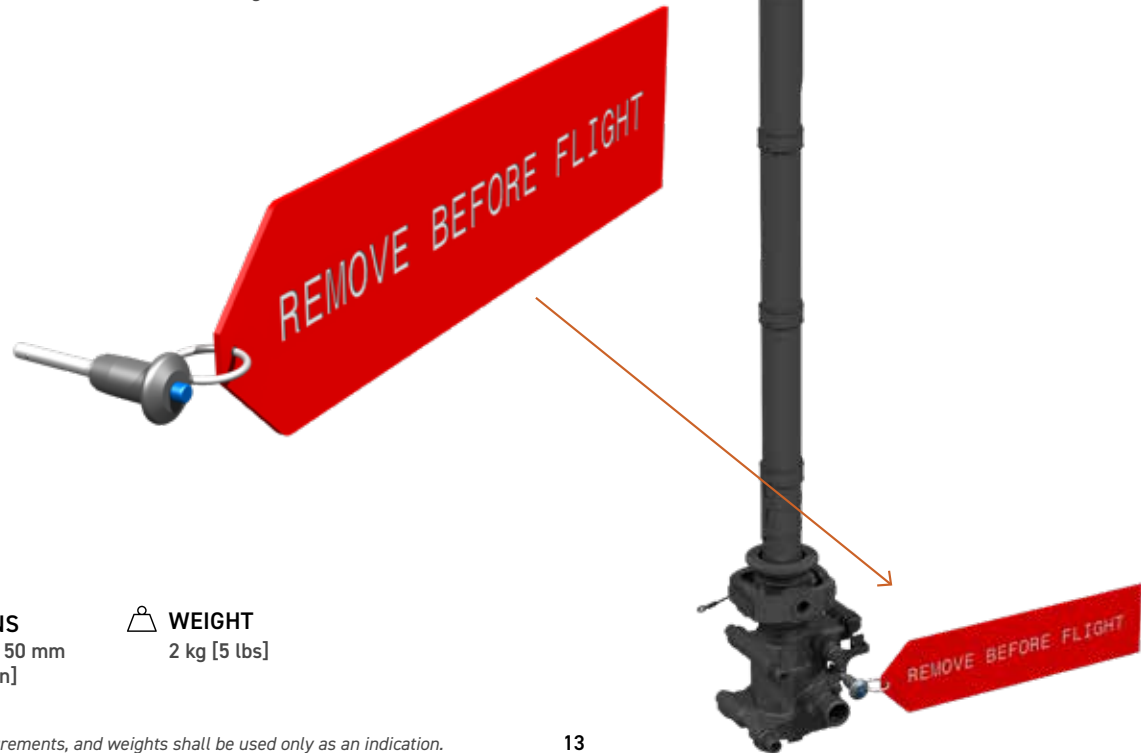
THRUST REVERSER UNLOCK PINS LH/RH

DESCRIPTION - USE

This pins are used to unlock TRAS Actuators and Track Lock for both LH/RH Nacelles during maintenance.

DIMENSIONS
300 x 250 x 150 mm
[12 x 10 x 6 in]

WEIGHT
2 kg [5 lbs]



The pictures, measurements, and weights shall be used only as an indication.

13

999-3001-11GSE

A220 GSE TOOLS



THRUST REVERSER PLUG

DESCRIPTION - USE

This tool is used to cover the bypass duct between the Translating Sleeve and Inner Fixed Structure (LH and RH).

CAUTION

Without the Thrust Reverser Plug, water, dust or wind can go inside the Engine.

- > Water retention: accelerates corrosion.
- > Dust: the Engine could be damaged during the ignition.
- > Wind: allows blade rotation which may cause damage.

The Engine warranty may be void if the Covers are not used properly under the required conditions and there is damage to the Engine.

DIMENSIONS
1400 x 600 x 450 mm
[56 x 24 x 18 in]

WEIGHT
40 kg [89 lbs]



The pictures, measurements, and weights shall be used only as an indication.

14

999-3001-12GSE



A220 GSE TOOLS



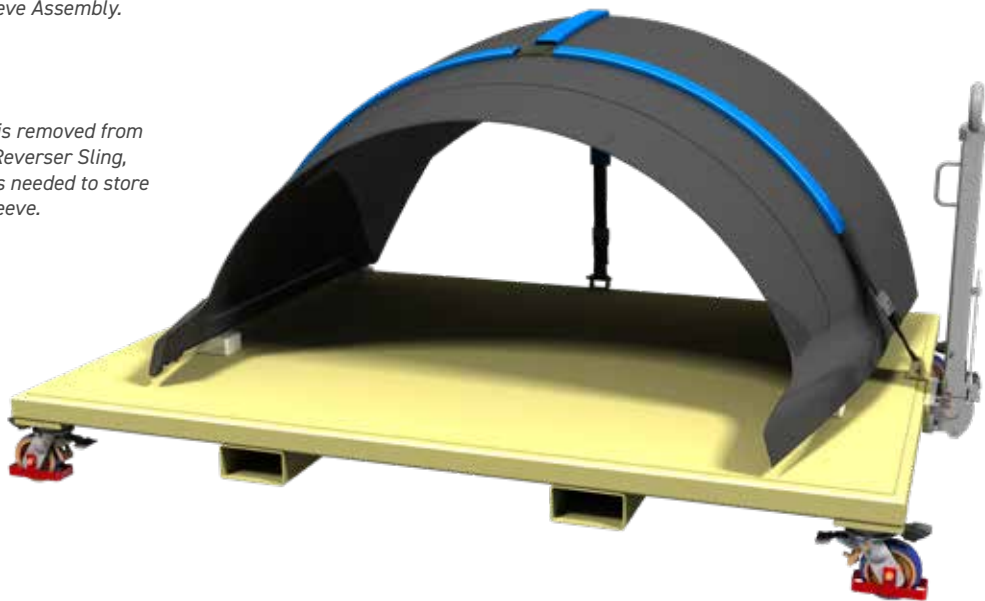
TRANSLATING SLEEVE DOLLY

DESCRIPTION - USE

This Tool is used during the maintenance and transportation of Transleeve Assembly.

CAUTION

When the Translating Sleeve is removed from the aircraft using the Thrust Reverser Sling, the Translating Sleeve Dolly is needed to store or work on the Translating Sleeve.



DIMENSIONS
2800 x 2000 x 1300 mm
[111 x 79 x 52 in]

WEIGHT
600 kg [1,323 lbs]

The pictures, measurements, and weights shall be used only as an indication.

15

999-3501-2GSE



A220 GSE TOOLS



TRANSLATING SLEEVE HANDLING SLING

DESCRIPTION - USE

This Tool is used to remove or install translating Sleeve after TR is removed from wind and in a turtleback position.

CAUTION

This tool is the only validated to add or remove the Transleeve for the A220. If the Transleeve is lifted with another tool, and there is damage, the insurance may not cover the damage.

TEST

Dedienne Aerospace has regional facilities to aid in the required annual testing and recertification.

DIMENSIONS
800 x 500 x 500 mm
[32 x 20 x 20 in]

WEIGHT
38 kg [84 lbs]

The pictures, measurements, and weights shall be used only as an indication.

16



999-3501-3GSE



A220 GSE TOOLS



FAN COWL DOOR SLING

DESCRIPTION - USE

The Fan Cowl Door Sling is used for A220 series Fan Cowl Removal & Installation only.

CAUTION

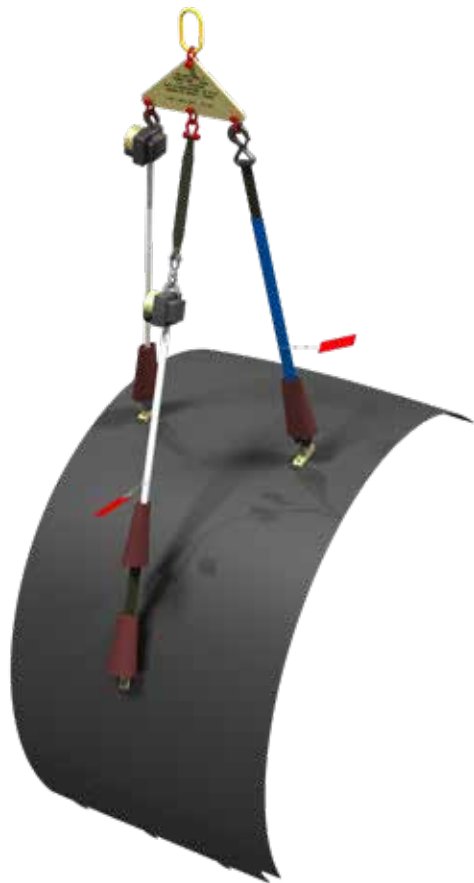
This Sling is a lifting tool and it is the only tool validated to lift the A220 Fan Cowl. If the Fan Cowl is lifted with another tool, and there is damage, the insurance may not cover the damage.

TEST

Dedienne Aerospace has regional facilities to aid in the required annual testing and recertification.

DIMENSIONS
850 x 550 x 500 mm
[34 x 22 x 20 in]

WEIGHT
62 kg [137 lbs]



The pictures, measurements, and weights shall be used only as an indication.

17

999-2000-1GSE



A220 GSE TOOLS



FAN COWL DOLLY

DESCRIPTION - USE

The Fan Cowl Dolly is used to move the Fan Cowl in the hangar or shop and for Fan Cowl Storage. The Fan Cowl can be maintained or stored on the Fan Cowl Dolly.

CAUTION

After using the Fan Cowl Sling 999-2000-1GSE to remove a Fan Cowl from the Engine, the Fan Cowl Dolly is needed to move, store or do maintenance on the Fan Cowl.

DIMENSIONS
3100 x 1700 x 1300 mm
[123 x 67 x 52 in]

WEIGHT
350 kg [772 lbs]



The pictures, measurements, and weights shall be used only as an indication.

18

999-2000-2GSE



A220 GSE TOOLS



FAN COWL VENT DOOR PLUG

DESCRIPTION - USE

The Fan Cowl Vent Door Plug is used to prevent foreign objects from entering into the Fan Cowl when the aircraft is parked or moored.



DIMENSIONS
400 x 300 x 300 mm
[16 x 12 x 12 in]

WEIGHT
9 kg [20 lbs]

The pictures, measurements, and weights shall be used only as an indication.

19

999-2000-3GSE

A220 GSE TOOLS



EXHAUST DOLLY

DESCRIPTION - USE

This Tool is used during removal, installation and transportation of Nozzle Assy.

CAUTION

This Aid is a lifting tool and it is the only tool validated to lift the A220 Nozzle. If the Nozzle is lifted with another tool, and there is damage, the insurance may not cover that damage.

TEST

Dedienne Aerospace has regional facilities to aid in the required annual testing and recertification.

DIMENSIONS
1400 x 800 x 1250 mm
[56 x 32 x 50 in]

WEIGHT
195 kg [430 lbs]

The pictures, measurements, and weights shall be used only as an indication.



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999-4100-4GSE



A220 GSE TOOLS



EXHAUST NOZZLE AND CENTERBODY COVER

⚙️ DESCRIPTION - USE

This tool is used to cover exhaust exit area and cover the AFT Centerbody.

⚠️ CAUTION

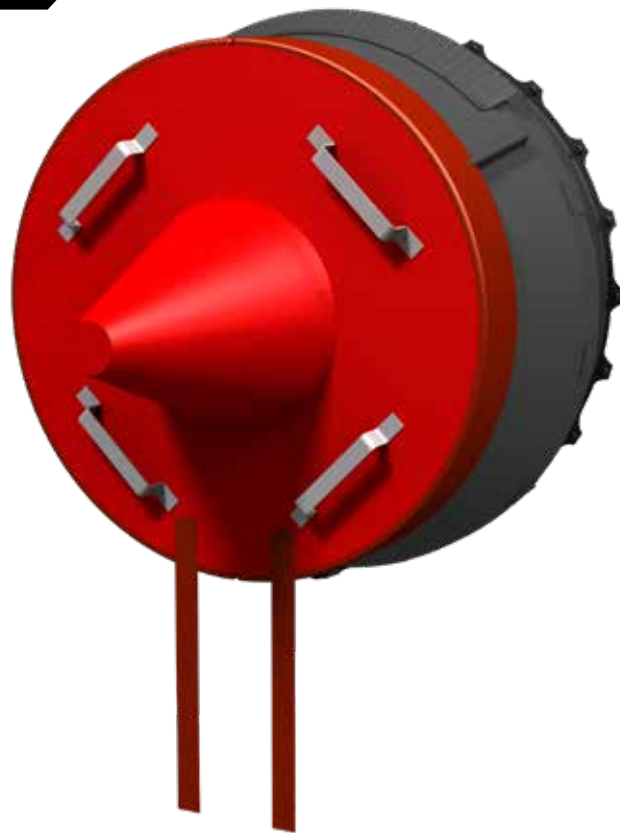
Without the Thrust Reverser Plug, water, dust or wind can go inside the Engine.

- > *Water retention: accelerates corrosion.*
- > *Dust: the Engine could be damaged during the ignition.*
- > *Wind: allows blade rotation which may cause damage.*

The Engine warranty may be void if the Covers are not used properly under the required conditions and there is damage to the Engine.

↕ **DIMENSIONS**
1200 x 500 x 400 mm
[48 x 20 x 16 in]

⚖️ **WEIGHT**
40 kg [89 lbs]



The pictures, measurements, and weights shall be used only as an indication.

21

999-4100-5GSE



A220 GSE TOOLS



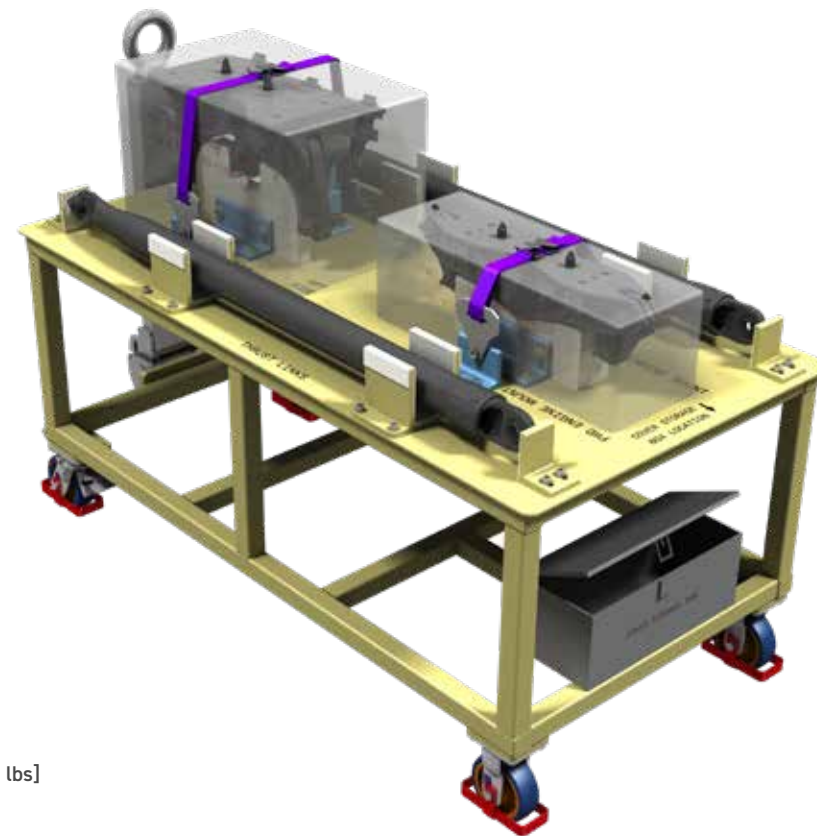
ENGINE MOUNT CART

⚙️ DESCRIPTION - USE

This Tool is used for Engine Mount Assembly Transportation & Maintenance.

↕ **DIMENSIONS**
2000 x 1100 x 1400 mm
[79 x 44 x 56 in]

⚖️ **WEIGHT**
450 kg [992 lbs]



The pictures, measurements, and weights shall be used only as an indication.

22

999-6000-1GSE

A220 GSE TOOLS



FWD ENGINE MOUNT SLING

⚙️ DESCRIPTION – USE

This Tool is used to lift and move the FWD Engine Mount Assy.

⚠️ CAUTION

This FWD Engine Mount Sling is a lifting tool and it is the only tool validated to lift the A220 FWD Engine Mount. If the Engine Mount is lifted with another tool, and there is damage, the insurance may not cover the damage.

✓ TEST

Dedienne Aerospace has regional facilities to aid in the required annual testing and recertification.

↕️ **DIMENSIONS**
500 x 400 x 250 mm
[20 x 16 x 10 in]

⚖️ **WEIGHT**
9 kg [20 lbs]



The pictures, measurements, and weights shall be used only as an indication.

23

999-6001-2GSE



A220 GSE TOOLS



AFT ENGINE MOUNT SLING

⚙️ DESCRIPTION – USE

This Tool is used to lift and move the AFT Engine Mount Assy.

⚠️ CAUTION

This AFT Engine Mount Sling is a lifting tool and it is the only tool validated to lift the A220 AFT Engine Mount. If the Engine Mount is lifted with another tool, and there is damage, the insurance may not cover the damage.

✓ TEST

Dedienne Aerospace has regional facilities to aid in the required annual testing and recertification.

↕️ **DIMENSIONS**
600 x 400 x 250 mm
[24 x 16 x 10 in]

⚖️ **WEIGHT**
13 kg [29 lbs]



The pictures, measurements, and weights shall be used only as an indication.

24

999-6501-1GSE



A220 GSE TOOLS



SALES & TECHNICAL SUPPORT

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