

A220 COLLINS

NACELLE TOOLING CATALOG



A220 GSE TOOLS

Entry into Service (EIS) recommended GSE quantities are based on a review of the Aircraft Maintenance Manual.

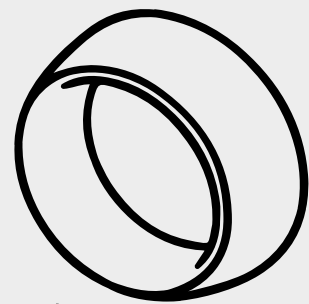
If you need help in order to define the tools to use and for quantity for your needs, contact us and our dedicated team will help you to do the good choice.

Dedienne will help you to choose the right tool for the right task.



CATEGORY	PART NUMBER	NAME	MINIMAL QUANTITIES 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	1
	999-3001-2GSE	THRUST REVERSER DOLLY	2
	999-3001-3GSE	HINGE BOLT THREAD PROTECTOR	1
	999-3001-7GSE	THRUST REVERSER HAND PUMP DOS	1
	999-3001-8GSE	THRUST REVERSER PROTECTIVE SHIELD	0
	999-3001-11GSE	THRUST REVERSER UNLOCK PINS	0
	999-3001-12GSE	C-DUCT 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
	999-4100-5GSE	EXHAUST NOZZLE AND CENTERBODY COVER	2
 ENGINE MOUNT	999-6000-1GSE	ENGINE MOUNT CART	0
	999-6001-2GSE	FORWARD ENGINE MOUNT SLING	1
	999-6501-1GSE	AFT ENGINE MOUNT SLING	1

CONTENT



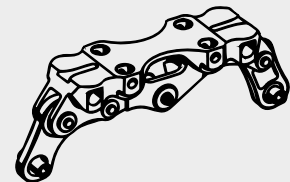
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- › Inlet Protective Rug.....p.6
- › Inlet Cowl Cover.....p.7



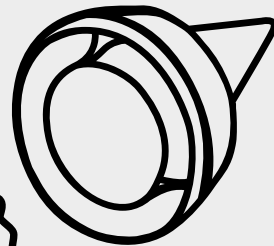
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INLET COWL SLING

A220 GSE TOOLS



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 on the Engine or placement on the Dolly.



TEST

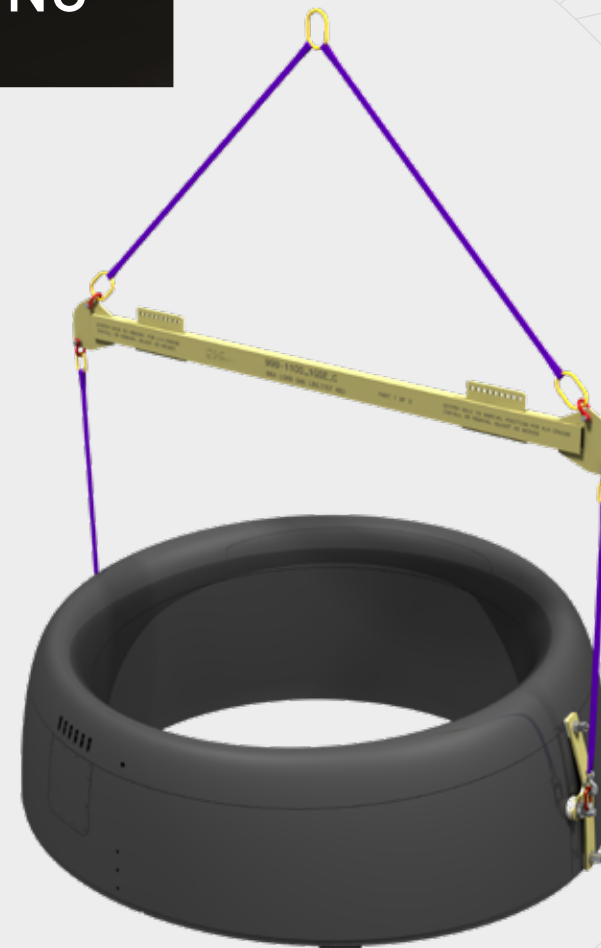
Dedienne Aerospace has regional facilities to aid in the required annual testing and recertification.



270 x 40 x 45 cm



80 KG



999-1100-1GSE



INLET COWL DOLLY

A220 GSE TOOLS



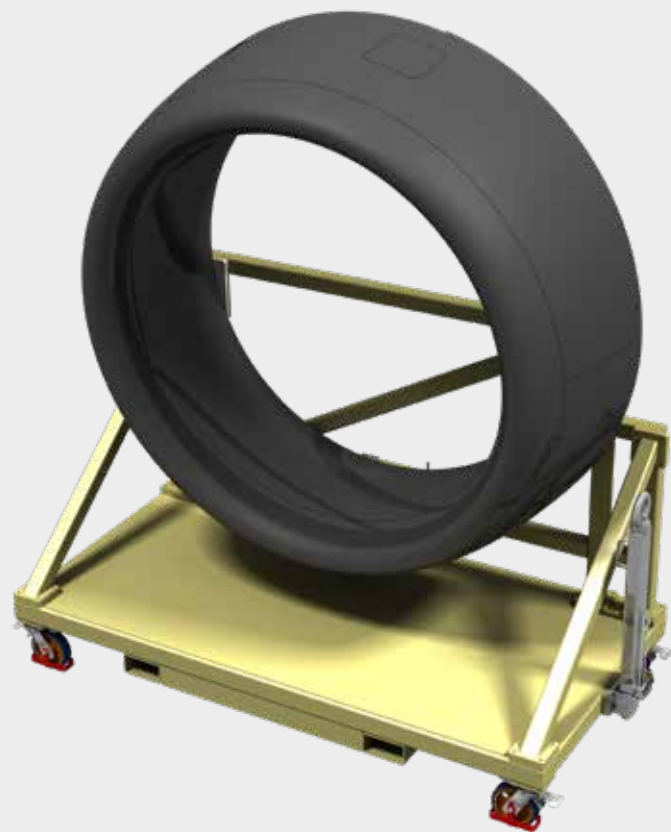
DESCRIPTION - USE

This tool is used during the maintenance and transportation of 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.



300 x 160 x 190 cm



800 KG

5

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

999-1100-2GSE



INLET PROTECTIVE RUG

A220 GSE TOOLS



DESCRIPTION - USE

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



55 x 35 x 35 cm



5,6 KG

6

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

999-1100-3GSE



INLET COWL COVER

A220 GSE TOOLS



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.



50 x 40 x 40 cm



3 KG

7

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



999-1100-4GSE



FAN COWL DOOR SLING

A220 GSE TOOLS



DESCRIPTION - USE

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



CAUTION

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



TEST

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



85 x 55 x 50 cm



62 KG

8

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



999-2000-1GSE



8



FAN COWL DOLLY

A220 GSE TOOLS



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.



310 x 170 x 130 cm



350 KG

999-2000-2GSE



FAN COWL VENT DOOR PLUG

A220 GSE TOOLS



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.



40 x 30 x 30 cm



9 KG

999-2000-3GSE



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 on to 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

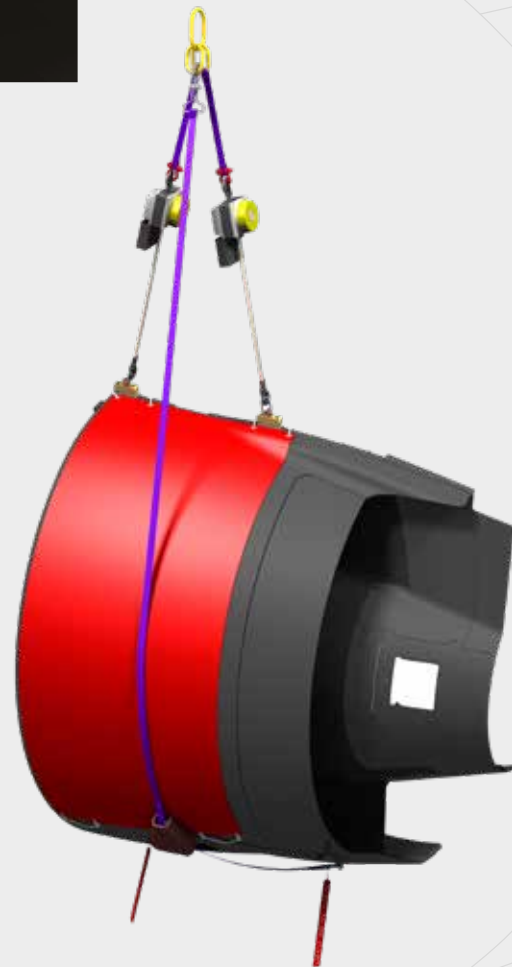
Dedienne Aerospace has regional facilities to aid in the required annual testing and recertification.

 125 x 140 x 55 cm

 150 KG

11

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



A220 GSE TOOLS

999-3001-1GSE





TOWABLE DOLLY FOR LH & RH TR

DESCRIPTION - USE

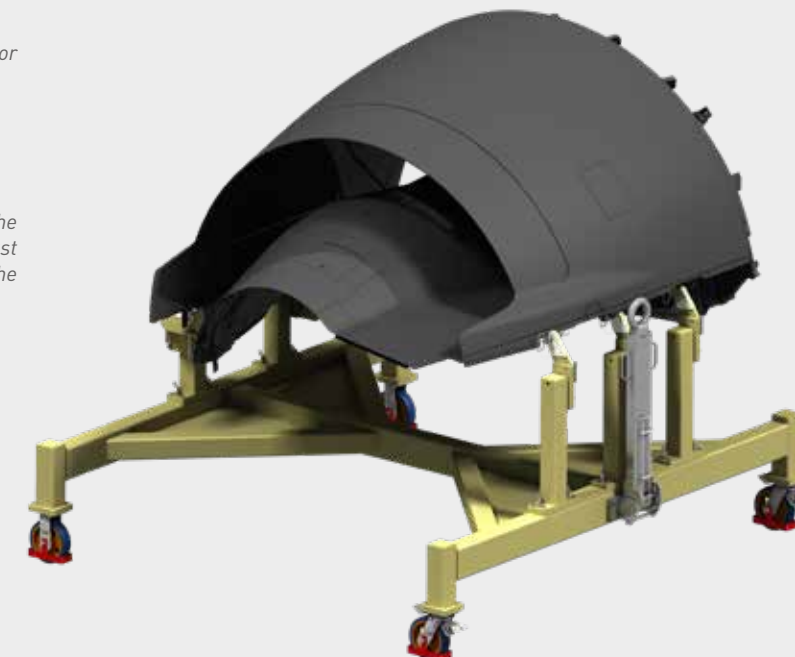
This tool is a towable dolly and is used to carry a LH or RH Thrust Reverser.

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.

 260 x 260 x 160 cm

 850 KG



A220 GSE TOOLS

999-3001-2GSE



12

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



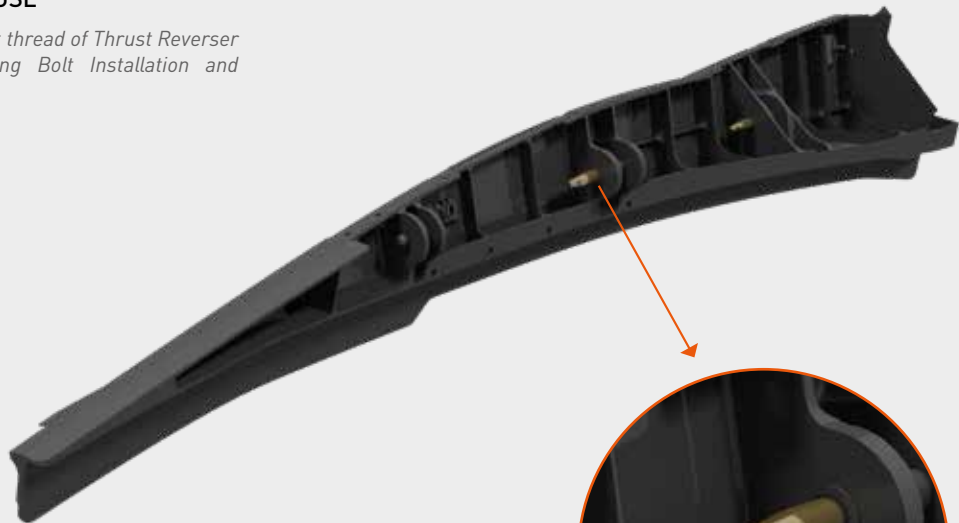
THRUST REVERSER HINGE BEAM BOLT THREAD PROTECTOR

A220 GSE TOOLS



DESCRIPTION - USE

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



30 x 30 x 15 cm



2 KG

13

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

999-3001-3GSE



THRUST REVERSER DOOR OPENING SYSTEM, HAND PUMP

A220 GSE TOOLS



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.



100 x 110 x 125 cm



105 KG

14

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



999-3001-7GSE




14



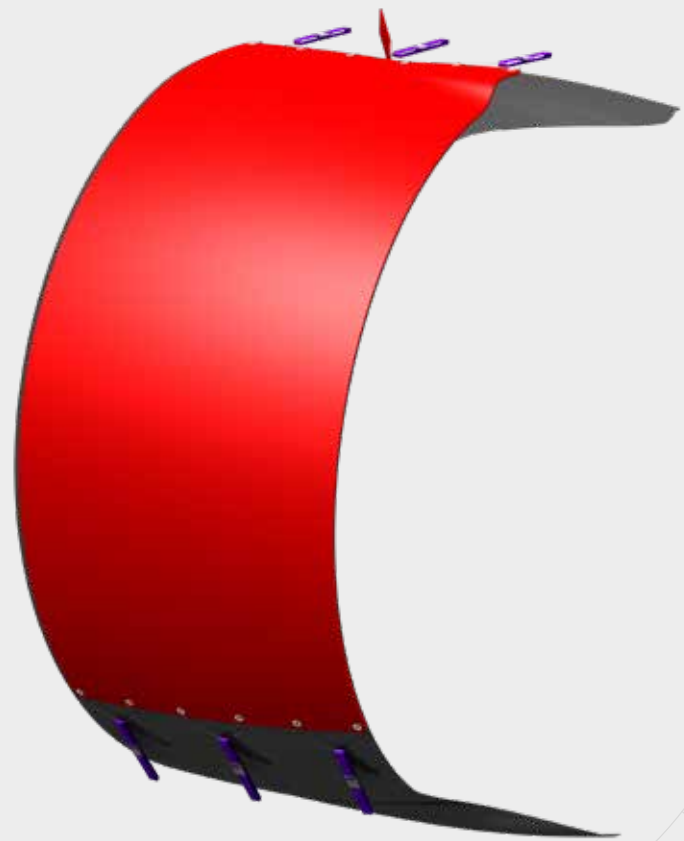
THRUST REVERSER PROTECTIVE SHIELD

DESCRIPTION - USE

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

 105 x 40 x 90 cm

 38,5 KG



A220 GSE TOOLS

999-3001-8GSE

15


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



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.

 30 x 25 x 15 cm

 2 KG



A220 GSE TOOLS

999-3001-11GSE

16

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



THRUST REVERSER PLUG

A220 GSE TOOLS

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.



140 x 60 x 45 cm

40 KG

999-3001-12GSE



TRANSLATING SLEEVE DOLLY

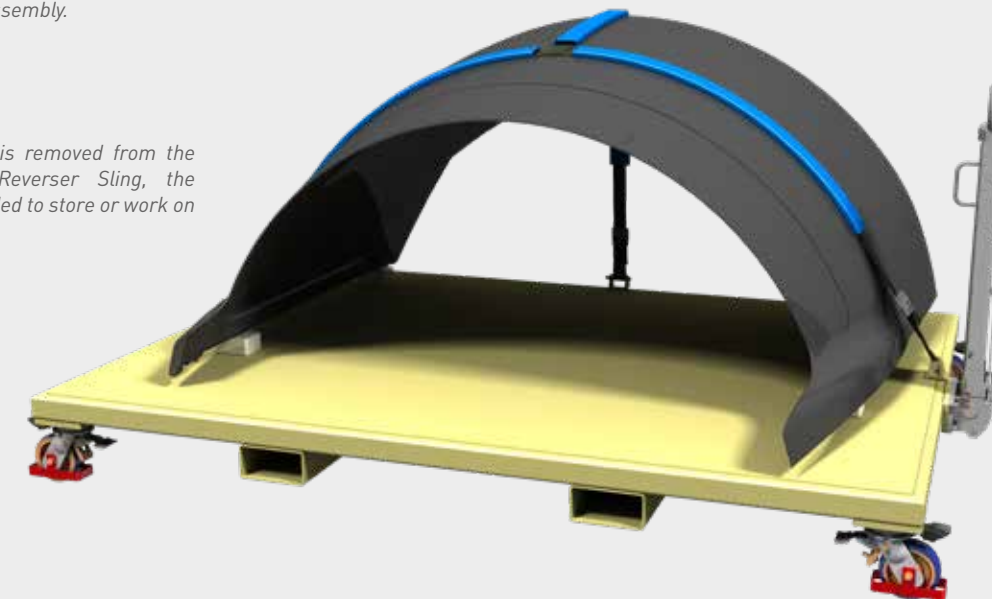
A220 GSE TOOLS

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.



280 x 200 x 130 cm

600 KG

999-3501-2GSE





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 turtelback 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.

📏 80 x 50 x 50 cm

📊 38 KG



A220 GSE TOOLS

999-3501-3 GSE



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.

📏 140 x 80 x 125 cm

📊 195 KG



A220 GSE TOOLS

999-4100-4 GSE





EXHAUST NOZZLE AND CENTERBODY COVER

A220 GSE TOOLS



DESCRIPTION - USE

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



CAUTION

Without the Exhaust Nozzle and Centerbody 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.



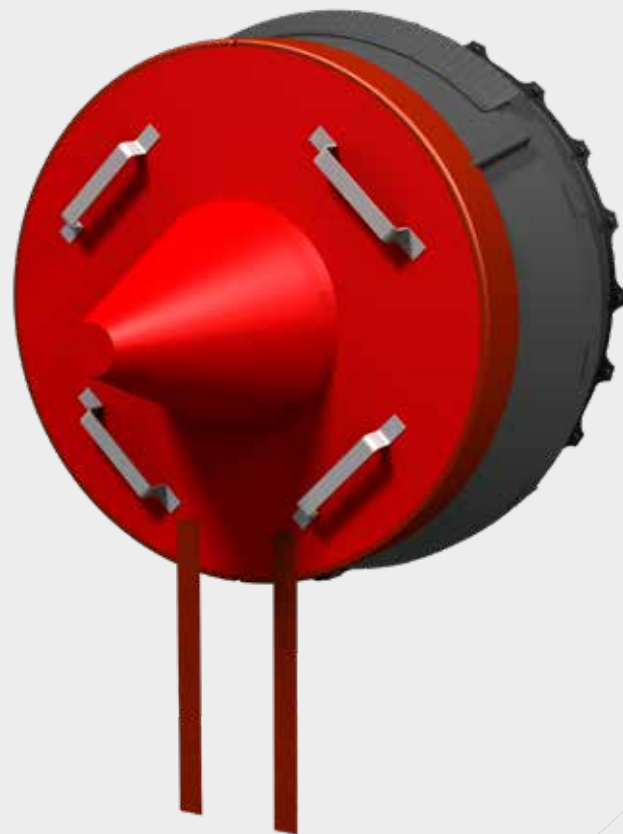
120 x 50 x 40 cm



40 KG

21

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



999-4100-5GSE



ENGINE MOUNT CART

A220 GSE TOOLS



DESCRIPTION - USE

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



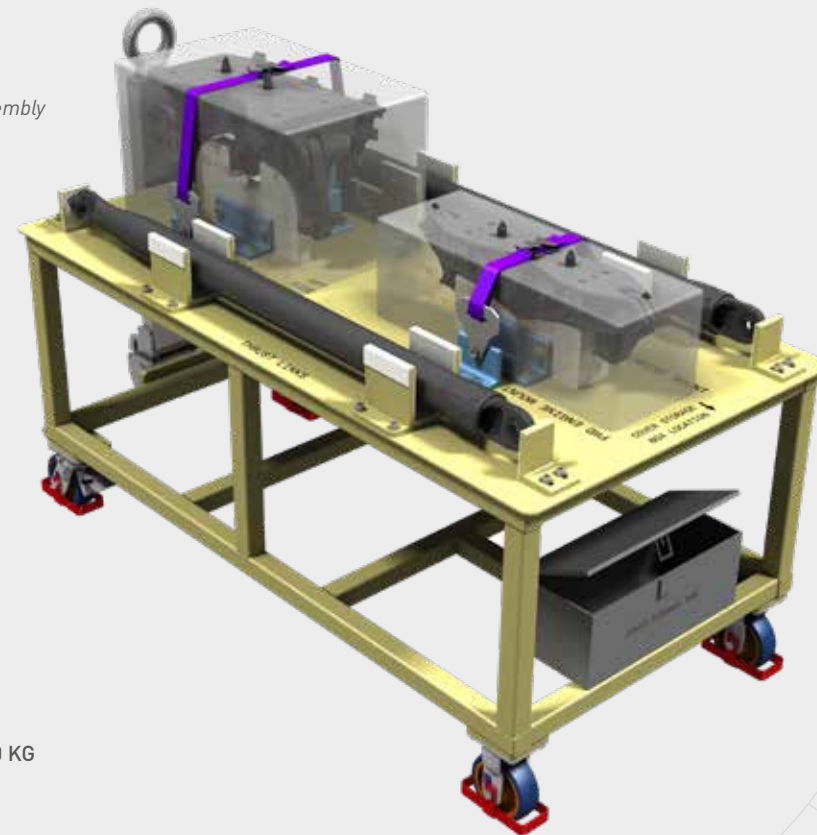
200 x 110 x 140 cm



450 KG

22

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



999-6000-1GSE

22



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.

 50 x 40 x 25 cm

 9 KG

23

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



A220 GSE TOOLS

999-6001-2GSE



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.

 60 x 40 x 25 cm

 13 KG

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



A220 GSE TOOLS

999-6501-1GSE



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CONTACT



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TOOLING SERVICES



LOAD TEST

- ▶ 0-200T STATIC & DYNAMIC LOAD TESTING
- ▶ 0-200T TEST BENCH
- ▶ MOBILE DEVICE FOR CUSTOMER ON-SITE TESTS

CALIBRATION

- ▶ FORCE & PRESSURE CALIBRATION
- ▶ 3D MEASUREMENTS

REPAIR & UPGRADE

- ▶ REPAIR OF UNSERVICEABLE EQUIPMENT
- ▶ PERIODIC MAINTENANCE
- ▶ UPGRADE TO LATEST RELEASE BASED ON TCB, AMM AND OEM INFORMATION
- ▶ OFF & ON-SITE MAINTENANCE

TRAINING YOUR TEAM

- ▶ GLOBAL NETWORK OF TECHNICAL INSTRUCTORS
- ▶ TRAINING ON USE & MAINTENANCE



RENTAL SOLUTIONS

- ▶ EQUIPMENT AVAILABLE FOR RENT
- ▶ ENGINE STAND: LEAP, CFM, ROLLS-ROYCE, IAE, ETC.
- ▶ GSE: TRIPOD, TOWBAR, ETC.

SPARE PARTS AVAILABLE

- ▶ ALL DEDIENNE AEROSPACE SPARE PARTS IN STOCK
- ▶ FAST PROVISIONING OF ANY OEM SPARE PARTS
- ▶ QUICK DELIVERY & SHIPMENT WORLDWIDE

NOTES

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