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.

### A320neo GSE TOOLS

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>NAME</th>
<th>MINIMAL QUANTITIES FOR EIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>436-1100-105E</td>
<td>Inlet Cowl Sling</td>
<td>1</td>
</tr>
<tr>
<td>436-1100-205E</td>
<td>Inlet Cowl Dolly</td>
<td>2</td>
</tr>
<tr>
<td>436-1100-305E</td>
<td>Inlet Cowl Protective Blanket</td>
<td>8</td>
</tr>
<tr>
<td>436-1100-405E</td>
<td>Inlet Cowl Lip Cover</td>
<td>1</td>
</tr>
<tr>
<td>436-2000-170E</td>
<td>Fan Cowl Handling Sling</td>
<td>1</td>
</tr>
<tr>
<td>436-2000-180E</td>
<td>Fan Cowl Dolly</td>
<td>1</td>
</tr>
<tr>
<td>436-2000-190E</td>
<td>Fan Cowl Hinge Bolt Tread Protectors</td>
<td>1</td>
</tr>
<tr>
<td>436-2000-200E</td>
<td>Thrust Reverser Handling Sling</td>
<td>1</td>
</tr>
<tr>
<td>436-2000-210E</td>
<td>Thrust Reverser Dolly</td>
<td>1</td>
</tr>
<tr>
<td>436-2000-220E</td>
<td>Thrust Reverser Hinge Bolt Tread Protectors</td>
<td>1</td>
</tr>
<tr>
<td>436-3000-100E</td>
<td>Thrust Reverser Hold Open Support for Pylon</td>
<td>1</td>
</tr>
<tr>
<td>436-3000-110E</td>
<td>Thrust Reverser C-Clip Cover</td>
<td>2</td>
</tr>
<tr>
<td>436-3000-120E</td>
<td>Thrust Reverser Acoustic Panels Protective</td>
<td>8</td>
</tr>
<tr>
<td>436-3000-130E</td>
<td>Thrust Reverser Manual Hydraulic Operating System</td>
<td>7</td>
</tr>
<tr>
<td>436-3000-250E</td>
<td>Thrust Reverser LDS Installation Aid</td>
<td>1</td>
</tr>
<tr>
<td>436-3000-260E</td>
<td>Thrust Reverser Vapor Barrier Seal Protector</td>
<td>1</td>
</tr>
<tr>
<td>436-3000-290E</td>
<td>Thrust Reverser Actuator Primary Lock Pin</td>
<td>1</td>
</tr>
<tr>
<td>436-4250-210E</td>
<td>Exhaust Nozzle Lift Lifting Aid</td>
<td>1</td>
</tr>
<tr>
<td>436-4250-220E</td>
<td>Exhaust Only</td>
<td>1</td>
</tr>
<tr>
<td>436-4555-290E</td>
<td>Exhaust Exit Area Plug</td>
<td>2</td>
</tr>
<tr>
<td>436-1000-270E</td>
<td>Tendon EGR Interface Duct Support</td>
<td>1</td>
</tr>
<tr>
<td>436-1000-290E</td>
<td>PW &amp; CFM Heating Device – Engine Mount FWD</td>
<td>1</td>
</tr>
<tr>
<td>436-1000-300E</td>
<td>PW &amp; CFM Heating Device – Engine Mount AFT</td>
<td>1</td>
</tr>
<tr>
<td>436-1000-310E</td>
<td>PW &amp; CFM Support Beam Engine Mount</td>
<td>1</td>
</tr>
<tr>
<td>436-1000-320E</td>
<td>PW &amp; CFM Blocking Device – Engine Mount FWD</td>
<td>1</td>
</tr>
<tr>
<td>436-1000-350E</td>
<td>PW &amp; CFM Pins Extractor – Engine Mount AFT</td>
<td>1</td>
</tr>
</tbody>
</table>
DESCRIPTION – USE

This tool is used to lift and rotate the A320neo Inlet Cowl from staging platform into aircraft orientation.

CAUTION

This tool is the only tool validated to lift the A320neo Inlet Cowl. If the Inlet Cowl is lifted with another tool, and there is damage, the insurance company may not cover the damage.

TEST

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

INLET COWL SLING

CONTENT

INLET COWL
- Inlet Cowl Sling ........................................... p.4
- Inlet Cowl Dolly ................................................. p.5
- Inlet Cowl Protective Blanket .......................... p.6
- Inlet Cowl Lip Cover ........................................ p.7

FAN COWLS
- Fan Cowl Handling Sling .......................... p.19
- Fan Cowl Dolly ................................................. p.20
- Fan Cowl Hinge Bolt Thread Protectors ........ p.21

NOZZLE & CENTER BODY
- Exhaust Nozzle Lift Lifting Aid ...................... p.22
- Exhaust Dolly ................................................ p.23
- Exhaust Exit Area Plug ................................ p.24
- Pylon ECS Interets Duct Support ................. p.25

THRUST REVERSER
- Thrust Reverser Handling Sling ...................... p.8
- Thrust Reverser Dolly .................................... p.9
- Thrust Reverser Hinge Bolt Thread Protector .... p.10
- Thrust Reverser Hold Open Split to Pylon ...... p.11
- Thrust Reverser C-Duct Cover ......................... p.12
- Thrust Reverser Actuator Panel Protective ...... p.13
- Thrust Reverser Manual Hydraulic Opening System .... p.14
- Thrust Reverser IS5 Installation Aid .......... p.15
- Thrust Reverser Vapor Barrier Seal Protector .... p.16
- Thrust Reverser Actuator Primary Lock Pin .... p.17
- Translating Sleeve ........................................... p.18

ENGINE MOUNT
- PW & CFM Hoisting Device - Engine Mount FWD ... p.26
- PW & CFM Hoisting Device - Engine Mount AFT .... p.27
- PW & CFM Support Beam Engine Mounts .......... p.28
- PW & CFM Blocking Device - Engine Mount AFT ... p.29
- PW & CFM Pin Extractor - Engine Mount AFT ... p.30

TRANSLATING SLEEVE

3,20 x 0,60 x 0,50 m

3,20 x 0,60 x 0,50 m

150 KG
INLET COWL DOLLY

DESCRIPTION – USE
This tool is used to hold and transport the Inlet Assy for storage, local transportation and maintenance.

CAUTION
This tool has been validated for the maintenance of the A320neo 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.

INLET COWL PROTECTIVE BLANKET

DESCRIPTION – USE
This tool is used as a protective rug on the Thrust Reverser acoustic surface during Thrust Reverser maintenance or removal - installation activity.

<table>
<thead>
<tr>
<th>636-1100-2GSE</th>
<th>636-1100-3GSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>950 KG</td>
<td>20 KG</td>
</tr>
<tr>
<td>0,80 x 0,30 x 0,30 m</td>
<td>3,30 x 2,10 x 3,00 m</td>
</tr>
</tbody>
</table>
INLET COWL LIP COVER

**DESCRIPTION – USE**
This tool is used to protect Inlet from foreign objects during parking and mooring.

**CAUTION**
Without the Inlet Cowl Lip 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 can create 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.

THRUt REVERSER HANDLING SLING

**DESCRIPTION – USE**
This tool is used to move Thrust Reverser halves (LH & RH) from aircraft wing to Dolly (636-3000-8-GSE «turtleback» orientation) and from Dolly to aircraft wing.

**CAUTION**
This tool is the only tool validated to lift the A320neo 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 aide in the required annual testing and recertification.
DESCRIPTION – USE
This tool is used to protect threat of Thrust Reverser Hinge Beam Bolts during bolt installation and removal.

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.
**THRUST REVERSER HOLD OPEN STRUT TO PYLON**

**DESCRIPTION – USE**
1. Hold open strut is adjustable and is used to hold the Thrust Reverser open at 45 degrees during Engine removal.
2. To compress and protect Hinge Beam Seal during Engine removal.
3. To keep hinge beam located axially at R3 hinge during Engine removal.
4. To keep both Fan Cowl and Thrust Reverser open during Engine removal.

**CAUTION**
This tool is mandatory for this task. If not used the Thrust Reverser or the Pylon can be damaged.

**TEST**
Dedienne Aerospace has regional facilities to aide in the required annual testing and recertification.

---

**THRUST REVERSER C-DUCT COVER**

**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 C-Duct 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 can create 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.
DESCRIPTION – USE
This tool is used as a protective rug on the Thrust Reverser acoustic surface during Thrust Reverser maintenance or removal - installation activity.

DESCRIPTION – USE
This tool is a manual hydraulic system and is used in conjunction with the thrust reverser Door Opening System (DOS) actuator. The tool is used to open the Thrust Reverser half on A/C wing and hold open. The tool is also used to lower the Thrust Reverser half back to the closed position.

CAUTION
The Thrust Reverser Hydraulic Opening System or pump has been designed for use on the A320neo. 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 aide in the required annual testing and recertification.
DESCRIPTION – USE
This tool is used to protect the vapor barrier seal (LH & RH) from being damaged by the Pylon when Hinge Access Panels (HAP) are not in place. This tool is used in conjunction with 636-3000_7GSE & 636-3000_10GSE for Engine drop / removal and Thrust Reverser installation / removal.

This tool is used to compress Thrust Reverser DOS upper ROD end to Thrust Reverser DOS actuator body to facilitate the installation of Thrust Reverser DOS on both LH and RH.
DESCRIPTION – USE
This tool is used to pin the Track Lock Mechanism in the «locked» or the «unlocked» position.

DESCRIPTION – USE
This tool is used to remove translating sleeve after Thrust Reverser is removed from wing.

CAUTION
This Sling is a lifting tool and it’s the only tool validated to lift the A320neo Translating Sleeve. If the Translating Sleeve is lifted with another tool, and there is damage, insurance may not cover the damage.

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

636-3000-28GSE
0,60 x 0,40 x 0,20 m
3 KG

636-3501-34GSE
1,00 x 0,50 x 0,40 m
40 KG
**FAN COWL HANDLING SLING**

**DESCRIPTION – USE**
This tool is used to lift and rotate the A320neo Fan Cowl door from staging platform into aircraft orientation. The tool is suitable for LH and RH use.

**CAUTION**
This Sling is a lifting tool and it’s the only tool validated to lift the A320neo 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.

**FAN COWL DOLLY**

**DESCRIPTION – USE**
This tool is used to locate and hold the LH & RH, Fan Cowl assemblies on edge for storage or local transportation.

**CAUTION**
After using the Fan Cowl Sling (-17GSE) to remove a Fan Cowl from the Engine, the Fan Cowl Dolly (-18GSE) is needed to move, store or do maintenance on the Fan Cowl.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>GSE</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>17GSE</td>
<td>1,50 x 1,40 x 1,30 m</td>
<td>350 KG</td>
</tr>
<tr>
<td>18GSE</td>
<td>3,40 x 1,90 x 1,30 m</td>
<td>115 KG</td>
</tr>
</tbody>
</table>
**FAN COWL HINGE BOLT THREAD PROTECTORS**

**DESCRIPTION – USE**
This tool is used to protect threat of Fan Cowl hinge beam bolts and bushings during bolts installation and removal.

**EXHAUST NOZZLE I/R LIFTING AID**

**DESCRIPTION – USE**
This tool is used to transport, hold and position the A320neo Exhaust Nozzle during installation. The tool is suitable for both right- and left-handed use.

**CAUTION**
This Aid is a lifting tool and it is the only tool validated to lift the A320neo 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 aide in the required annual testing and recertification.
DESCRIPTION – USE
This tool is used to prevent foreign objects from entering open areas between Exhaust Nozzle and Exhaust Centre body during parking or mooring.

CAUTION
Without the Exhaust Exit Area 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 can create 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.

DESCRIPTION – USE
This tool is used for transportation and storage of FWD centerbody, AFT Center body and Exhaust Nozzle assy’s.

EXHAUST DOLLY

EXHAUST EXIT AREA PLUG

1,20 x 1,10 x 1,00 m 225 KG

25 KG

1 x 0,50 x 0,45 m

1,20 x 1,10 x 1,00 m

225 KG
**DESCRIPTION – USE**

This tool is used to support the Pylon to ECS interface EBU duct assembly during Engine / drop removal.

**CAUTION**

This Aid is a lifting tool and it is the only tool validated to lift the A320neo 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 aide in the required annual testing and recertification.

**DESCRIPTION – USE**

This tool is used to ensure the removal and the installation of the Engine Mount FWD.

**CAUTION**

This Aid is a lifting tool and it is the only tool validated to lift the A320neo 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 aide in the required annual testing and recertification.
**DESCRIPTION – USE**

This tool is used to prevent the displacement or vibration of the Engine Mounts during its transport.

**CAUTION**

This Aid is a lifting tool and it is the only tool validated to lift the A320neo 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 aide in the required annual testing and recertification.

---

0,80 x 0,60 x 0,40 m
20 KG

---

1,00 x 0,40 x 0,25 m
20 KG
DESCRIPTION – USE
These tools are used to block the displacement of the Engine Mounts during the maintenance.

636-1000-32GSE
0,50 x 0,50 x 0,50 m
3 KG

636-1000-33GSE
0,40 x 0,40 x 0,40 m
4 KG

DESCRIPTION – USE
This tool is used to extract AFT Engine Mount pin.
**PW 1100 LOW PROFILE**

**DESCRIPTION – USE**
This tool is used to transport the PW1100 for A320neo family. The trolley is used for installation/removal tasks with Bootstrap. The PW1100 low profile stand is designed to do the transportation in the airbus A330F.

**TEST**
Dedienne Aerospace has regional facilities to aide in the required annual testing and recertification.

- **Dimensions:** 3.05 x 2.5 x 0.95 m
- **Weight:** 3425 KG

---

**A320 FAMILY TR/ENGINE ACCESS**

**DESCRIPTION – USE**
This platform is used to help operators to do maintenance task on A320 CEO and NEO engines, pylons and Thrust Reverser. Its adjustable height, from 1m to 1.5m, makes a wide range of uses and allows also an easy and safe utilization by the operators.

- **Dimensions:** 3 x 1.60 x 1.10 m
- **Weight:** 540 KG