



### 適航指令發布單

## Airworthiness Directive Issuance Form

民航局 AD 編號 AD number	CAA-2020-01-011	發布日期 Date issued	2020/1/30
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	AS 332 C, C1, L, L1 and L2, AS 365 N2 and N3, EC 155 B and B1, EC 175 B, EC 225 LP, SA 330 J, and SA 365 C1, C2, C3, N and N1 helicopters, all serial numbers (s/n); EC135 P1, P2, P2+, P3, T1, T2, T2+ and T3, EC635 P2+, P3, T1, T2+ and T3, and MBB-BK117 A-1, A-3, A-4, B-1, B-2, C-1, C-2 and D-2 helicopters, all s/n; AB139, AB 204 B, AB 205 A-1, AB 212, AB 412, AB 412 EP, AS-61N, AS-61N1, AW139, AW169 and AW189 helicopters, all s/n; and PZL W-3A and PZL W-3AS helicopters, all s/n.		
主旨摘要	Fire Protection - Hand-held Fire Extinguishers - Replacement		
民航局 CAA <input type="checkbox"/> 本國產品 Native products <input type="checkbox"/> 其他個案 Other	設計國民航主管機構 Original Authorities <input type="checkbox"/> FAA <input checked="" type="checkbox"/> EASA <input type="checkbox"/> Brazil <input type="checkbox"/> Transport Canada Civil Aviation <input type="checkbox"/> DGAC <input type="checkbox"/> Germany LBA <input type="checkbox"/> CAA-NL <input type="checkbox"/> UK CAA <input type="checkbox"/> Japan CAB <input type="checkbox"/> CAA of Israel <input type="checkbox"/> Other _____		
	設計國 AD 編號 Original AD number	2020-0013	
	1. 直接採用原 AD 之內容?(Is the original AD directly adopted?) <input checked="" type="checkbox"/> 是(Yes) <input type="checkbox"/> 否(No) _ a. 生效日期另訂為(Re-specify the effective date as) : _____ b. 執行時限另訂為(Re-specify the compliance time or period as) : _____ 2. 使用人是否需要將 AD 執行結果向民航局提出報告?(Do Users need to report the status of compliance to the CAA?) <input type="checkbox"/> 是(Yes) <input checked="" type="checkbox"/> 否(No)		
備註 Note	ATA 26. Ref. Publications: umlaut engineering GmbH VSB P3VSB000001, issue C dated 13 December 2019.		
註： 1. AD 內容後附。 2. 航空器產品使用人得向民航局提出豁免、替代符合方法、執行時限之展延之申請。 3. 如有任何問題，請聯絡交通部民用航空局初始適航科。Tel：(02)2349-6331~3, Fax：(02)2545-8464, e-mail： <a href="mailto:adcaa@mail.caa.gov.tw">adcaa@mail.caa.gov.tw</a> Note： 1. The AD text is enclosed. 2. Exemption, an alternative method of compliance or adjustment of the compliance time may be proposed to the CAA for approval. 3. For further information, please contact Civil Aeronautics Administration on Tel：(02)2349-6331~3, Fax：(02)2545-8464, e-mail： <a href="mailto:adcaa@mail.caa.gov.tw">adcaa@mail.caa.gov.tw</a>			

## Airworthiness Directive

**AD No.:** 2020-0013

**Issued:** 29 January 2020

Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 of that Regulation.

This AD is issued in accordance with Regulation (EU) 748/2012, Part 21.A.3B. In accordance with Regulation (EU) 1321/2014 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [Regulation (EU) 1321/2014 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [Regulation (EU) 2018/1139, Article 71 exemption].

### Design Approval Holder's Name:

### Type/Model designation(s):

AIRBUS HELICOPTERS

AS 332, AS 365, EC 155, EC 175, EC 225, SA 330 and SA 365 helicopters

AIRBUS HELICOPTERS DEUTSCHLAND GmbH

EC135, EC635 and MBB-BK117 helicopters

LEONARDO S.A.

AB139, AB 204, AB 205, AB 212, AB 412, AS-61, AW139, AW169 and AW189 helicopters

WSK PZL – ŚWIDNIK S.A.

PZL W-3A helicopters

**Effective Date:** 12 February 2020

**TCDS Number(s):** Italy A 150 and A 270; EASA.R.002, EASA.R.006, EASA.R.007, EASA.R.009, EASA.R.010, EASA.R.105, EASA.R.114, EASA.R.150, EASA.R.509 and EASA.R.510

**Foreign AD:** Not applicable

**Supersedure:** None

## ATA 26 – Fire Protection – Hand-held Fire Extinguishers – Replacement

### Manufacturer(s):

Airbus Helicopters, formerly Eurocopter, Eurocopter France, Aerospatiale, Sud Aviation; Airbus Helicopters Deutschland, formerly Eurocopter Deutschland, Eurocopter Hubschrauber, Messerschmitt-Bölkow-Blohm; Airbus Helicopters Inc., formerly American Eurocopter LLC; Leonardo, S.A., formerly Finmeccanica S.A., AgustaWestland, Agusta S.p.A.; and WSK “PZL - Świdnik” S.A.

### Applicability:

AS 332 C, C1, L, L1 and L2, AS 365 N2 and N3, EC 155 B and B1, EC 175 B, EC 225 LP, SA 330 J, and SA 365 C1, C2, C3, N and N1 helicopters, all serial numbers (s/n);

EC135 P1, P2, P2+, P3, T1, T2, T2+ and T3, EC635 P2+, P3, T1, T2+ and T3, and MBB-BK117 A-1, A-3, A-4, B-1, B-2, C-1, C-2 and D-2 helicopters, all s/n;

AB139, AB 204 B, AB 205 A-1, AB 212, AB 412, AB 412 EP, AS-61N, AS-61N1, AW139, AW169 and AW189 helicopters, all s/n; and

PZL W-3A and PZL W-3AS helicopters, all s/n.

Note 1: An affected part may have been installed on the helicopter during the manufacturing process (production line), or by in-service modification (either Supplemental Type Certificate, TC holder approved modification instructions, or minor modification).

### Definitions:

For the purpose of this AD, the following definitions apply:

**The VSB:** umlaut engineering GmbH Vendor Service Bulletin (VSB) P3VSB000001, issue C.

**Affected part:** umlaut engineering GmbH (formerly P3 Engineering GmbH) HAFEX (Halon-free) hand-held fire extinguishers, having Part Number (P/N) P3APP003010A or P/N P3APP003010C, having a manufacturing date (MM/YYYY) 03/2019, 04/2019, 05/2019, 06/2019 or 07/2019, and having a s/n as listed in the VSB.

**Serviceable part:** Any hand-held fire extinguisher that is not an affected part and is eligible for installation on the helicopter type design.

### Reason:

Occurrences have been reported of a quality issue on certain Halon-free fire extinguishers, manufactured by umlaut engineering GmbH (formerly P3 Engineering GmbH), where the spindle geometries of the extinguishers were found to be out of tolerance. In case of previous unknown prolonged exposure (12 hours or more) to high temperature conditions of more than 68°C, this manufacturing defect could cause an undetectable seizure of the spindle that would render the fire extinguisher inoperative.

This condition, if not corrected, could prevent proper extinguishing of a fire in the cabin, possibly resulting in damage to the helicopter and injury to the occupants.

To address this potential unsafe condition, umlaut engineering, the manufacturer of the affected parts, issued the VSB to provide the necessary instructions for replacement.

For the reasons described above, this AD requires replacement of the affected parts with serviceable parts, as defined in this AD.



**Required Action(s) and Compliance Time(s):**

Required as indicated, unless accomplished previously:

**Replacement:**

- (1) During the next scheduled annual inspection of the affected part, or within 4 months after the effective date of this AD, whichever occurs later, remove that affected part from the helicopter in accordance with the instructions of the VSB and replace it with a serviceable part.

**Parts Installation:**

- (2) From the effective date of this AD, do not install an affected part on any helicopter.

**Ref. Publications:**

umlaut engineering GmbH [VSB P3VSB000001, issue C](#) dated 13 December 2019.

The use of later approved revisions of the above-mentioned document is acceptable for compliance with the requirements of this AD.

**Remarks:**

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.
2. This AD was posted on 20 December 2019 as PAD 19-222 for consultation until 17 January 2020. The Comment Response Document can be found in the [EASA Safety Publications Tool](#), in the compressed (zipped) file attached to the record for this AD.
3. Enquiries regarding this AD should be referred to the EASA Programming and Continued Airworthiness Information Section, Certification Directorate. E-mail: [ADs@easa.europa.eu](mailto:ADs@easa.europa.eu).
4. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this AD, and which may occur, or have occurred on a product, part or appliance not affected by this AD, can be reported to the [EU aviation safety reporting system](#).
5. For any question concerning the technical content of the requirements in this AD, please contact the type design approval holder of the affected helicopter, or umlaut engineering GmbH (formerly P3 Engineering GmbH), Blohmstraße 12, 21079 Hamburg, Germany, website: <https://www.umlaut.com/en/hafex>.

