

### **3.1.6 Interior** 7.1 kg (15.7 lb) <sup>1</sup>

- Bleed air heater
- Primer finished cabin walls

### **3.1.7 Painting** 10.0 kg (22.0 lb) <sup>1</sup>

- Standard colour scheme from Company paint selection, solid colour

## **STANDARD CONFIGURATION WEIGHT 1575 KG (3472 LB) <sup>1</sup>**

(Para. 1.1.1 to 3.1.7)

### **3.1.8 Miscellaneous/ground equipment**

- Air intake/exhaust covers
- Ground tools kit (including tow bar, ground wheels, lifting tool)
- Pitot tubes covers
- Rotorcraft Flight Manual (RFM) and technical publications
- Tie-down fitting provisions

<sup>1</sup> Weight

### **g. Central warning system**

- Master warning lights
- Master caution lights
- Warning, caution and advisory messages (on IDS displays)
- Aural warning generator system

### **h. Interior arrangement**

- Two individual pilot seats, fore and aft adjustable, with lap belts and headrests
- Aluminium alloy honeycomb reinforced floor with anti-skid finishing
- Ventilation ram air inlets
- Anti reflection instrument panel
- Primer finished cabin walls

### **i. Exterior finishing**

- Finishing in accordance with manufacturer specification (NTA 893 A)
- Primer exterior painting

#### **3.1.2 Standard equipment 15.2 kg (33.35 lb)**

- 27 Ah battery (in lieu of 22 Ah battery)
- Active Noise Reduction (ANR) headsets (pilot and co-pilot)
- Baggage compartment lights
- Crew open door actuators
- First aid kit
- Fuel drain electrical valves
- Portable fire extinguisher
- Quick disconnecting chip detectors
- Shoulder harness with inertial reels (pilot and co-pilot)
- Tail boom strake

#### **3.1.3 VFR avionic package 28.0 kg (61.7 lb) 1**

- ADF KR-87 Bendix/King
- Gyrocompass C14A Honeywell
- ICS pilot AG-06-1U Agusta/Gemelli
- Pilot navigation instruments (including ADI & HSI)
- Transponder (mode S) KT-70 Bendix/King
- VHF-COM/GPS 250XL Garmin

#### **3.1.4 Additional avionic equipment 28.7 kg (63.3 lb) 1**

- AC power supply system (2 inverters)
- AFCS 3-axis duplex SP-711 Honeywell

#### **3.1.5 Additional equipment 31.0 kg (68.3 lb) 1**

- Baggage compartment extension (1.9 m)
- Dual controls
- Reinforced windshield (pilot and co-pilot)
- Rotor brake
- Sliders on cockpit doors windows
- Windshield wipers (pilot and co-pilot) with wiper switch on cyclic grips

#### **d. Transmission drive system and hydraulic system**

- 917 shp for take off and 900 shp continuous operation main transmission
- Two-stage transmission
- Transmission mounted hydraulic pumps (2) with separate reservoir
- Internal dry sump transmission lubrication with pressure and scavenge pump and oil filter
- Transmission oil chip detectors (2)
- Single stage, bevel gear T/R 90° gear box including oil level sight glass and chip detector
- Transmission cooling and lubrication system
- Transmission shafts

#### **e. Electrical system**

- 28 V DC 22 Ah nickel-cadmium battery with temperature probe
- 200 A self-cooled starter generator
- Voltage regulator
- Battery relay
- Interconnecting bus relay
- External power relay
- Distribution buses (2)
- External power receptacle
- Position lights
- 250 W landing lights (2)
  
- Anti collision lights (2)
  
- Cockpit utility lights (2)
- Instrument lights with dimming switch
- Radio master switch

#### **e. Flight instruments – pilot**

- Airspeed indicator
- Barometric encoding altimeter
- Vertical speed indicator
- Magnetic compass indicator
- Clock, 8 days and elapsed time
- Dual tachometer backup instrument

#### **f. Instrumentation (on IDS display)**

- Inter turbine gas temperature indicator (ITT°C)
- Engine torque indicator (TQ%)
- Compressor speed indicator (N1%)
- Turbine speed indicator (N2%)
- Rotor speed indicator (NR%)
- Transmission oil pressure (PSI) and temperature (°C) indicator
- Engine oil pressure (PSI) and temperature (°C) indicator
- Fuel pressure (PSI) and fuel quantity (kg) indicator
- Two hydraulic pressure system indicators (PSI)
- Outside air temperature indicator (°C)
- Two AC voltmeters (VAC)
- DC voltmeter (VDC)
- DC ammeter (Amp)

### 3.1.1 Basic aircraft 1455 kg (3208 lb) 1

The *AW119Ke* basic configuration, which the BASIC EMPTY WEIGHT refers to (see Paragraph **Errore. L'origine riferimento non è stata trovata.**), is inclusive of all the equipment listed in this section, from point (a) to (j).

#### a. Airframe

- Aluminium alloy and bonded panel fuselage
- Semi-monocoque aluminium alloy tail boom
- New reinforced skid type landing gear
- Two hinged jettisonable crew doors (LH & RH)
- Two sliding passenger doors (LH and RH), 1.10 m opening, with jettisonable windows
- Acrylic windshield and side windows
- Acrylic overhead windows
- Removable fibreglass tail rotor gearbox fairing
- Quick removable tail rotor drive shaft cover
- Separate baggage compartment with hinged door
- Three jacking points
- Removable fairing and cowlings, for complete accessibility to the controls and drive components
- Quick opening hinged inspection doors, to allow visual check of engine oil levels and maintenance inspection points
- Grounding points

#### b. Rotors and controls

- Titanium main rotor hub, corrosion protected, fully articulated with four composite grips, four elastomeric bearings, four individually interchangeable composite material blades, swept tips, and dampers
- Steel tail rotor hub, corrosion protected, semi-rigid delta hinged type, with two composite blades, individually interchangeable
- Cyclic and collective controls powered by two hydraulic systems
- Hydraulically powered anti-torque system
- Adjustable friction devices on cyclic and collective system
- Force trim and artificial feel system
- Adjustable directional control pedals
- Flapping and droop restraint mechanism

#### c. Power plant and fuel system

- Pratt & Whitney Canada PT6B-37A turboshaft engine
- Engine mounted fuel pump and filter assembly
- Engine mounted oil pump and filter assembly
- Engine mounted fuel control and governor
- Electronic Engine Control (EEC)
- Lubrication and cooling system
- Engine oil chip detector (1)
- Engine mounted fuel heater
- Fuel system control panel
- 3-cell fuel system (605 l – 160 USG)
- Submerged fuel pumps (2 boost and 1 transfer pump)
- RH refuelling point