

FAA – PARTS MANUFACTURER APPROVAL (PMA) SUPPLEMENT

Turbine Kinetics, Inc.  
A HEICO Aerospace Company  
60 Sequin Drive  
Glastonbury, CT 06033

<b>PMA NO.:</b>	PQ0816NE
<b>SUPPLEMENT No.:</b>	ODA-TK-016
<b>DATE:</b>	February 25, 2016

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Nozzle, #5 BRG	2A1211DEC	Intl. Aero Engines P/N: 2A1211	Tests and Computations per 14 CFR § 21.303, Dwg No.: 2A1211DEC, Rev.: B, Dated: 8/29/14, or later FAA approved revisions.	Intl. Aero Engines	V2500-A1 V2522-A5 V2524-A5 V2527-A5 V2527E-A5 V2527M-A5 V2530-A5 V2533-A5  V2525-D5 V2528-D5
Tube, Transfer, Packing, #5 BRG	2A1212DEC	Intl. Aero Engines P/N: 2A1212	Tests and Computations per 14 CFR § 21.303, Dwg No.: 2A1212DEC, Rev.: B, Dated: 8/29/14, or later FAA approved revisions.	Intl. Aero Engines	V2500-A1 V2522-A5 V2524-A5 V2527-A5 V2527E-A5 V2527M-A5 V2530-A5 V2533-A5  V2525-D5 V2528-D5
Link Assembly	DEC290-0176-501	Goodrich Aerostructures P/N: 290-0176-501	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC290-0176-501, Rev.: D, Dated: 10/22/15, or later FAA approved revisions.	Boeing	MD-90-30



## PMA Supplements Index:

ARTICLE NUMBER	ARTICLE NAME	PMA SUPP.	DATE ISSUED
DEC290-0176-501	LINK ASSY	TK213	SEPT 29, 2009
		ODA-TK-016	FEB 25, 2016

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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Hinge-Blocker Door	DEC290-0565-508	Goodrich Aerostructures P/N: 290-0565-508	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC290-0565-508, Rev.: D, Dated: 11/21/11, or later FAA approved revisions.	International Aero Engines  Boeing	V2525-D5 V2528-D5  MD-90-30
Bumper	DEC290-0647-501	Goodrich Aerostructures P/N: 290-0647-501	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC290-0647-501, Rev.: A, Dated: 4/18/12, or later FAA approved revisions.	Boeing	MD-90-30
Seat-Vent	DEC540-1854-1	Honeywell P/N: 540-1854-1	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC540-1854-1, Rev.: D, Dated: 3/10/08, or later FAA approved revisions.	Pratt & Whitney	PW4050, PW4050-3, PW4052, PW4052-3, PW4056, PW4056-3, PW4060, PW4060-3, PW4060A, PW4060A-3, PW4060C, PW4062-3, PW4152, PW4152-3, PW4156, PW4156-3, PW4156A, PW4156A-3, PW4158, PW4158-3, PW4164, PW4168, PW4460, PW4460-3, PW4462, PW4462-3, PW4077, PW4090, PW4090-3  PW4074, PW4074D, PW4077D, PW4084D, PW4090D, PW4098

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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Plug Assembly, Borescope HPT	DEC9299M96G07	General Electric P/N: 9299M96G07	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC9299M96G07, Rev.: A, Dated: 2/22/12, or later FAA approved revisions.	General Electric	CF6-80C2B1 CF6-80C2B2 CF6-80C2B4 CF6-80C2B6 CF6-80C2B1F CF6-80C2B2F CF6-80C2B4F CF6-80C2B5F CF6-80C2B6F CF6-80C2B6FA CF6-80C2B7F CF6-80C2B8F CF6-80C2A1 CF6-80C2A2 CF6-80C2A3 CF6-80C2A5 CF6-80C2A5F CF6-80C2A8 CF6-80C2D1F

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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Shaft Assembly, Flexible	DEC121750-1	Honeywell P/N: 121750-1	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC121750-1, Rev.: G, Dated: 6/10/14, or later FAA approved revisions.	Boeing	747-200B Series 747-200F Series 747-200C Series 747-300 Series
				General Electric	CF6-6D CF6-6D1 CF6-6D1A CF6-6K CF6-6K2 CF6-50A CF6-50C CF6-50CA CF6-50C1 CF6-50C2 CF6-50C2B CF6-50C2D CF6-50E CF6-50E1 CF6-50E2 CF6-50E2B
				Boeing	DC-10-10 DC-10-10F DC-10-15 DC-10-30 DC-10-30F MD-10-10F MD-10-30F
Ring, Piston	DEC5833402-101	Parker Hannifin P/N: 5833402-101	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC5833402-101, Rev.: F, Dated: 5/8/14, or later FAA approved revisions.	Pratt & Whitney	PW4050, PW4052, PW4056, PW4060, PW4060A, PW4060C, PW4074, PW4074D, PW4077, PW4077D, PW4084, PW4084D, PW4090, PW4090-3, PW4090D, PW4098, PW4152, PW4156, PW4156A, PW4158, PW4164, PW4168, PW4460, PW4462

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<b>DATE:</b>	<u>February 25, 2016</u>

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Latch Assy	H3269-11DEC	Hartwell P/N: H3269-11	Tests and Computations per 14 CFR § 21.303, Dwg No.: H3269-11DEC, Rev.: – , Dated: 5/29/14, or later FAA approved revisions.	Airbus	A319 Model -131 A319 Model -132 A319 Model -133  A320 Model -231 A320 Model -232 A320 Model -233  A321 Model -131 A321 Model -231 A321 Model -232
Hook Assy	116232-7DEC	Hartwell P/N: 116232-7	Tests and Computations per 14 CFR § 21.303, Dwg No.: 116232-7DEC, Rev.: – , Dated: 5/28/14, or later FAA approved revisions.	Airbus	A319 Model -131 A319 Model -132 A319 Model -133  A320 Model -231 A320 Model -232 A320 Model -233  A321 Model -131 A321 Model -231 A321 Model -232
Handle Assy	114838-5DEC	Hartwell P/N: 114838-5	Tests and Computations per 14 CFR § 21.303, Dwg No.: 114838-5DEC, Rev.: A, Dated: 1/26/16, or later FAA approved revisions.	Airbus	A319 Model -131 A319 Model -132 A319 Model -133  A320 Model -231 A320 Model -232 A320 Model -233  A321 Model -131 A321 Model -231 A321 Model -232

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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Trigger Assy	114840-7DEC	Hartwell P/N: 114840-7	Tests and Computations per 14 CFR § 21.303, Dwg No.: 114840-7DEC, Rev.: D, Dated: 1/26/16, or later FAA approved revisions.	Airbus	A319 Model -131 A319 Model -132 A319 Model -133  A320 Model -231 A320 Model -232 A320 Model -233  A321 Model -131 A321 Model -231 A321 Model -232
Link	108443-5DEC	Hartwell P/N: 108443-5	Tests and Computations per 14 CFR § 21.303, Dwg No.: 108443-5DEC, Rev.: A, Dated: 1/26/16, or later FAA approved revisions.	Airbus	A319 Model -131 A319 Model -132 A319 Model -133  A320 Model -231 A320 Model -232 A320 Model -233  A321 Model -131 A321 Model -231 A321 Model -232
Spring	108439-1DEC	Hartwell P/N: 108439-1	Tests and Computations per 14 CFR § 21.303, Dwg No.: 108439-1DEC, Rev.: A, Dated: 7/22/14, or later FAA approved revisions.	Airbus	A319 Model -131 A319 Model -132 A319 Model -133  A320 Model -231 A320 Model -232 A320 Model -233  A321 Model -131 A321 Model -231 A321 Model -232

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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Spring	108448-3DEC	Hartwell P/N: 108448-3	Tests and Computations per 14 CFR § 21.303, Dwg No.: 108448-3DEC, Rev.: A, Dated: 7/22/14, or later FAA approved revisions.	Airbus	A319 Model -131 A319 Model -132 A319 Model -133  A320 Model -231 A320 Model -232 A320 Model -233  A321 Model -131 A321 Model -231 A321 Model -232
Spacer	108968-1DEC	Hartwell P/N: 108968-1	Tests and Computations per 14 CFR § 21.303, Dwg No.: 108968-1DEC, Rev.: – , Dated: 5/29/14, or later FAA approved revisions.	Airbus	A319 Model -131 A319 Model -132 A319 Model -133  A320 Model -231 A320 Model -232 A320 Model -233  A321 Model -131 A321 Model -231 A321 Model -232
Bushing	116365-3DEC	Hartwell P/N: 116365-3	Tests and Computations per 14 CFR § 21.303, Dwg No.: 116365-3DEC, Rev.: – , Dated: 5/29/14, or later FAA approved revisions.	Airbus	A319 Model -131 A319 Model -132 A319 Model -133  A320 Model -231 A320 Model -232 A320 Model -233  A321 Model -131 A321 Model -231 A321 Model -232



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Spacer	108969-1DEC	Hartwell P/N: 108969-1	Tests and Computations per 14 CFR § 21.303, Dwg No.: 108969-1DEC, Rev.: – , Dated: 5/29/14, or later FAA approved revisions.	Airbus	A319 Model -131 A319 Model -132 A319 Model -133  A320 Model -231 A320 Model -232 A320 Model -233  A321 Model -131 A321 Model -231 A321 Model -232
Rivet	116250-1DEC	Hartwell P/N: 116250-1	Tests and Computations per 14 CFR § 21.303, Dwg No.: 116250-1DEC, Rev.: – , Dated: 5/29/14, or later FAA approved revisions.	Airbus	A319 Model -131 A319 Model -132 A319 Model -133  A320 Model -231 A320 Model -232 A320 Model -233  A321 Model -131 A321 Model -231 A321 Model -232
Rivet	HSP148-9-156-1110DEC	Hartwell P/N: HSP148-9-156-1110	Tests and Computations per 14 CFR § 21.303, Dwg No.: HSP148-9-156-1110DEC, Rev.: – , Dated: 5/29/14, or later FAA approved revisions.	Airbus	A319 Model -131 A319 Model -132 A319 Model -133  A320 Model -231 A320 Model -232 A320 Model -233  A321 Model -131 A321 Model -231 A321 Model -232

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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Bushing	116249-1DEC	Hartwell P/N: 116249-1	Tests and Computations per 14 CFR § 21.303, Dwg No.: 116249-1DEC, Rev.: – , Dated: 5/29/14, or later FAA approved revisions.	Airbus	A319 Model -131 A319 Model -132 A319 Model -133  A320 Model -231 A320 Model -232 A320 Model -233  A321 Model -131 A321 Model -231 A321 Model -232
Fitting, Screwdriver	114836-1DEC	Hartwell P/N: 114836-1	Tests and Computations per 14 CFR § 21.303, Dwg No.: 114836-1DEC, Rev.: B, Dated: 1/26/16, or later FAA approved revisions.	Airbus	A319 Model -131 A319 Model -132 A319 Model -133  A320 Model -231 A320 Model -232 A320 Model -233  A321 Model -131 A321 Model -231 A321 Model -232

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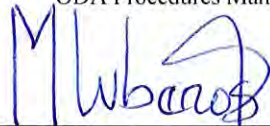
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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Handle	114837-3DEC	Hartwell P/N: 114837-3	Tests and Computations per 14 CFR § 21.303, Dwg No.: 114837-3DEC, Rev.: -, Dated: 5/28/14, or later FAA approved revisions.	Airbus	A319 Model -131 A319 Model -132 A319 Model -133  A320 Model -231 A320 Model -232 A320 Model -233  A321 Model -131 A321 Model -231 A321 Model -232

----- End of Listing -----

NOTE: Minor design changes (reference 14 CFR part 21 §§ 21.319 and 21.619) and major design changes (reference 14 CFR part 21 §§ 21.319 and 21.619) to drawings and specifications must be accomplished in accordance with the FAA approved HEICO PMA ODA Procedures Manual.



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 Marco Cuberos  
 PMA ODA administrator  
 HEICO Aerospace Corporation

FEBRUARY 25, 2016  
 \_\_\_\_\_  
 Date

This Supplement is an attachment to FAA-PMA approval letter dated March 28, 2001

**FEDERAL AVIATION ADMINISTRATION-PARTS MANUFACTURER APPROVAL**

DEC Technologies, Inc.  
A HEICO Aerospace Company  
136 Industrial Park Road  
Piney Flats, TN 37686

PMA NO. PQ1469CE  
SUPPLEMENT NO. 213  
DATE: September 29, 2009

<b>Part Name</b>	<b>Part Number</b>	<b>Approved Replacement For Part Number</b>	<b>Approved Basis and Approved Design Data</b>	<b>Make Eligibility</b>	<b>Model Eligibility</b>
Piston and Sleeve, Valve	DEC69-099-502	755285-2	Test and Computation per 14 CFR § 21.303, Dwg: DEC69-099 Rev: Rev E Date: Mar 27, 2009 or later FAA-approved revisions	Pratt & Whitney	PW2037 PW2037M PW2040 PW2240 PW2337
Piston	DEC69-099-011	755285-11	Test and Computation per 14 CFR § 21.303, Dwg: DEC69-099 Rev: Rev E Date: Mar 27, 2009 or later FAA-approved revisions	Pratt & Whitney	PW2037 PW2037M PW2040 PW2240 PW2337
Sleeve	DEC69-099-020	755285-20	Test and Computation per 14 CFR § 21.303, Dwg: DEC69-099 Rev: Rev E Date: Mar 27, 2009 or later FAA-approved revisions	Pratt & Whitney	PW2037 PW2037M PW2040 PW2240 PW2337
Seal Assembly	DEC46-007-501	126372	Test & Computation per 14 CFR § 21.303, Dwg: DEC46-007 Rev: Rev B Date: Jun 29, 2009 or later FAA-approved revisions	Airbus	A318 Model -111 A319 Model -111 A319 Model -112 A319 Model -113 A319 Model -114 A319 Model -115 A319 Model -131 A319 Model -132 A319 Model -133 A320 Model -111 A320 Model -211 A320 Model -212 A320 Model -214 A320 Model -231 A320 Model -232 A320 Model -233 A321 Model -111 A321 Model -112 A321 Model -211 A321 Model -131 A321 Model -231
				Boeing	737-300 Series 737-400 Series 737-500 Series
				SAAB	340A (SAAB/SF340A) SAAB 340B

**FEDERAL AVIATION ADMINISTRATION-PARTS MANUFACTURER APPROVAL**

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136 Industrial Park Road  
Piney Flats, TN 37686

PMA NO. PQ1469CE  
SUPPLEMENT NO. 213  
DATE: September 29, 2009

Link Assembly	DEC290-0176-501	290-0176-501	Test and Computation per 14 CFR § 21.303, Dwg: DEC290-0176-501 Rev.: Rev B Date: Aug 3, 2009 or later FAA-approved revisions	McDonnell Douglas	MD-90-30
Indicator Assembly	DEC1110V0192	1110V0192	Test and Computation per 14 CFR § 21.303, Dwg: DEC1110V0192 Rev.: Rev A Date: Oct 06, 2008 or later FAA-approved revisions	Pratt & Whitney	PW4052 PW4056 PW4060 PW4060A PW4060C PW4152 PW4156 PW4156A PW4158 PW4460 PW4462
Shaft, Indicator	DEC1110V0116	1110V0116	Test and Computation per 14 CFR § 21.303, Dwg: DEC1110V0116 Rev.: No Rev Date: Jun 19, 2008 or later FAA-approved revisions	Pratt & Whitney	PW4052 PW4056 PW4060 PW4060A PW4060C PW4152 PW4156 PW4156A PW4158 PW4460 PW4462
Retainer-Spring	DEC1110V0117	1110V0117	Test and Computation per 14 CFR § 21.303, Dwg: DEC1110V0117 Rev.: Rev A Date: Oct 06, 2008 or later FAA-approved revisions	Pratt & Whitney	PW4052 PW4056 PW4060 PW4060A PW4060C PW4152 PW4156 PW4156A PW4158 PW4460 PW4462

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PMA NO. PQ1469CE  
SUPPLEMENT NO. 213  
DATE: September 29, 2009

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Spring, Seal	DEC1110V0118	1110V0118	Test and Computation per 14 CFR § 21.303, Dwg: DEC1110V0118 Rev.: Rev B Date: Jan 22, 2009 or later FAA-approved revisions	Pratt & Whitney	PW4052 PW4056 PW4060 PW4060A PW4060C PW4152 PW4156 PW4156A PW4158 PW4460 PW4462
Insert, Helicoil	DEC1110V0123	1110V0123	Test and Computation per 14 CFR § 21.303, Dwg: DEC1110V0123 Rev.: No Rev Date: Dec 17, 2008 or later FAA-approved revisions	Pratt & Whitney	PW4052 PW4056 PW4060 PW4060A PW4060C PW4152 PW4156 PW4156A PW4158 PW4460 PW4462
Body-Indicator	DEC1110V0592	1110V0592	Test and Computation per 14 CFR § 21.303, Dwg: DEC1110V0592 Rev.: Rev A Date: Mar 10, 2009 or later FAA-approved revisions	Pratt & Whitney	PW4052 PW4056 PW4060 PW4060A PW4060C PW4152 PW4156 PW4156A PW4158 PW4460 PW4462

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**FEDERAL AVIATION ADMINISTRATION-PARTS MANUFACTURER APPROVAL**

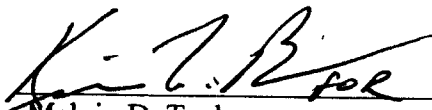
DEC Technologies, Inc.  
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 136 Industrial Park Road  
 Piney Flats, TN 37686

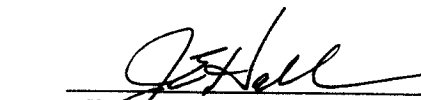
PMA NO. PQ1469CE  
 SUPPLEMENT NO. 213  
 DATE: September 29, 2009

Filter, Fuel Distribution Valve	DEC788277-1	788277-1	Test and Computation per 14 CFR § 21.303, Dwg: DEC788277-1 Rev.: Rev C Date: Jun 29, 2009 or later FAA-approved revisions	Pratt & Whitney	PW4052 PW4056 PW4060 PW4074 PW4074D PW4077 PW4077D PW4084D PW4090 PW4152 PW4156 PW4158 PW4460 PW4462
				International Aero Engines (IAE)	V2500-A1 V2522-A5 V2524-A5 V2525-D5 V2527-A5 V2527E-A5 V2528-D5 V2530-A5 V2533-A5

NOTE:

- 1) Provide minor design changes in a manner as determined by the ACO. Handle major design changes to drawings and specifications in the same manner as that for an original FAA-PMA.
- 2) The FAA approved the ICA for the above parts with their designs. If the TC holder's ICA applies to these replacement parts, provide a statement noting such. If not, provide supplementary ICA per 14 CFR § 21.50. Make referral statements or supplemental ICA readily available per 14 CFR § 21.50.

  
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 Melvin D. Taylor  
 Manager, Atlanta  
 Aircraft Certification Office

  
 \_\_\_\_\_  
 Jim Reeves  
 Manager, Atlanta  
 Manufacturing Inspection District Office