



## PMA Supplements Index:

ARTICLE NUMBER	ARTICLE NAME	PMA SUPP.	DATE ISSUED
DEC59-154-032 DEC59-154-054 DEC59-154-062 DEC59-154-063 DEC59-154-064 DEC59-154-033 DEC59-154-065	SEAL SPRING	DT145	DEC 19, 2005
		ODA-TK-004	JAN 20, 2016

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-004
<b>DATE:</b>	January 20, 2016

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Nut-Slflkg Clinch	50B814DEC	Pratt & Whitney P/N: 50B814	Tests and Computations per 14 CFR § 21.303, Dwg No.: 50B814DEC, Rev.: – , Dated: 11/14/14, or later FAA approved revisions.	Pratt & Whitney	PW4074 PW4077 PW4077D PW4084 PW4084D PW4090 PW4074D PW4090D PW4098
Shim	491B1613043-001DEC	Boeing P/N: 491B1613043-001	Tests and Computations per 14 CFR § 21.303, Dwg No.: 491B1613043-001DEC, Rev.: B, Dated: 1/8/15, or later FAA approved revisions.	Boeing	747-400 Series 747-400D Series 747-400F Series  767-200 Series 767-300 Series  MD-11F
Link Assy. – Drag	APL3180-01-0DEC	SAFRAN Aircelle P/N: APL3180-01-0	Tests and Computations per 14 CFR § 21.303, Dwg No.: APL3180-01-0DEC, Rev.: B, Dated: 3/25/14, or later FAA approved revisions.	Airbus	A340-541 A340-642
Seal Spring	DEC59-154-032	Boeing P/N: 314A1502-32	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC59-154, Rev.: B, Dated: 1/14/10, or later FAA approved revisions.	Boeing	737-300 Series 737-400 Series 737-500 Series
Seal Spring	DEC59-154-033	Boeing P/N: 314A1502-33	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC59-154, Rev.: B, Dated: 1/14/10, or later FAA approved revisions.	Boeing	737-300 Series 737-400 Series 737-500 Series

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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
Seal Spring	DEC59-154-054	Boeing P/N: 314A1502-54	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC59-154, Rev.: B, Dated: 1/14/10, or later FAA approved revisions.	Boeing	737-300 Series 737-400 Series 737-500 Series
Seal Spring	DEC59-154-062	Boeing P/N: 314A1502-62	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC59-154, Rev.: B, Dated: 1/14/10, or later FAA approved revisions.	Boeing	737-300 Series 737-400 Series 737-500 Series
Seal Spring	DEC59-154-063	Boeing P/N: 314A1502-63	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC59-154, Rev.: B, Dated: 1/14/10, or later FAA approved revisions.	Boeing	737-300 Series 737-400 Series 737-500 Series
Seal Spring	DEC59-154-064	Boeing P/N: 314A1502-64	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC59-154, Rev.: B, Dated: 1/14/10, or later FAA approved revisions.	Boeing	737-300 Series 737-400 Series 737-500 Series
Seal Spring	DEC59-154-065	Boeing P/N: 314A1502-65	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC59-154, Rev.: B, Dated: 1/14/10, or later FAA approved revisions.	Boeing	737-300 Series 737-400 Series 737-500 Series

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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
Seal, Triangular Backup	DEC69-109-501	Hamilton Sundstrand P/N: 755348-2	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC69-109, Rev.: A, Dated: 8/17/06, or later FAA approved revisions.	Boeing  Pratt & Whitney	757-200 Series 757-200PF Series 757-200CB Series 757-300 Series  PW2037 PW2037M  PW2040
Plug	DEC92-010-101	Eaton Aerospace P/N: B4902-1	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC92-010, Rev.: D, Dated: 8/7/13, or later FAA approved revisions.	Pratt & Whitney	PW4050, PW4052, PW4052-3, PW4056, PW4056-3, PW4060, PW4060-3, PW4060A, PW4060A-3, PW4060C, PW4062, PW4062-3, PW4074, PW4074D, PW4077, PW4077D, PW4084, PW4084D, PW4090, PW4090-3, PW4090D, PW4098, PW4164, PW4168, PW4168A, PW4152, PW4152-3, PW4156, PW4156A, PW4156A-3, PW4158, PW4158-3, PW4460, PW4460-3, PW4462, PW4462-3

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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
Valve	DEC92-010-201	Eaton Aerospace P/N: B4902-2	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC92-010, Rev.: D, Dated: 8/7/13, or later FAA approved revisions.	Pratt & Whitney	PW4050, PW4052, PW4052-3, PW4056, PW4056-3, PW4060, PW4060-3, PW4060A, PW4060A-3, PW4060C, PW4062, PW4062-3, PW4074, PW4074D, PW4077, PW4077D, PW4084, PW4084D, PW4090, PW4090-3, PW4090D, PW4098, PW4164, PW4168, PW4168A, PW4152, PW4152-3, PW4156, PW4156A, PW4156A-3, PW4158, PW4158-3, PW4460, PW4460-3, PW4462, PW4462-3
Plug-Magnetic, Mach. Thd .500-20	DEC92-010-501	Eaton Aerospace P/N: B4902  Pratt & Whitney P/N: 50R501	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC92-010, Rev.: D, Dated: 8/7/13, or later FAA approved revisions.	Pratt & Whitney	PW4050, PW4052, PW4052-3, PW4056, PW4056-3, PW4060, PW4060-3, PW4060A, PW4060A-3, PW4060C, PW4062, PW4062-3, PW4074, PW4074D, PW4077, PW4077D, PW4084, PW4084D, PW4090, PW4090-3, PW4090D, PW4098, PW4164, PW4168, PW4168A, PW4152, PW4152-3, PW4156, PW4156A, PW4156A-3, PW4158, PW4158-3, PW4460, PW4460-3, PW4462, PW4462-3

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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
Bolt, Center	DEC540-0049-1	Honeywell P/N: 540-0049-1	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC540-0049-1, Rev.: A, Dated: 5/7/07, or later FAA approved revisions.	Pratt & Whitney	PW4074, PW4074D, PW4077, PW4077D, PW4084, PW4084D, PW4090, PW4090-3, PW4090D, PW4098
Nut, Self-Locking, Dbl Hex, Silver Plated	DEC540-0794-1	Honeywell P/N: 540-0794-1	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC540-0794-1, Rev.: A, Dated: 12/12/08, or later FAA approved revisions.	Pratt & Whitney	PW4074, PW4074D, PW4077, PW4077D, PW4084D, PW4090, PW4090D, PW4098, PW4164, PW4168, PW4168A
C-Seal	DEC540-1622-1	Honeywell P/N: 540-1622-1	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC540-1622-1, Rev.: D, Dated: 2/25/09, or later FAA approved revisions.	Pratt & Whitney	PW4050, PW4052, PW4056, PW4060, PW4060A, PW4060C, PW4077, PW4090, PW4090-3, PW4152, PW4156, PW4156A, PW4158, PW4164, PW4168, PW4460, PW4462  PW4074, PW4074D, PW4077D, PW4084D, PW4090D, PW4098
C-Seal	DEC540-1623-1	Honeywell P/N: 540-1623-1	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC540-1623-1, Rev.: D, Dated: 2/25/09, or later FAA approved revisions.	Pratt & Whitney	PW4050, PW4052, PW4056, PW4060, PW4060A, PW4060C, PW4077, PW4090, PW4090-3, PW4152, PW4156, PW4156A, PW4158, PW4164, PW4168, PW4460, PW4462  PW4074, PW4074D, PW4077D, PW4084D, PW4090D, PW4098

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<b>SUPPLEMENT No.:</b>	ODA-TK-004
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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
Poppet	DEC540-1624-1	Honeywell P/N: 540-1624-1	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC540-1624-1, Rev.: D, Dated: 11/5/09, or later FAA approved revisions.	Pratt & Whitney	PW4050, PW4052, PW4056, PW4060, PW4060A, PW4060C, PW4077, PW4090, PW4090-3, PW4152, PW4156, PW4156A, PW4158, PW4164, PW4168, PW4460, PW4462  PW4074, PW4074D, PW4077D, PW4084D, PW4090D, PW4098
Hinge	DEC745-0041-501	Goodrich Aerostructures P/N: 745-0041-501	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC745-0041-501, Rev.: C, Dated: 11/21/11, 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
Hinge	DEC745-0041-502	Goodrich Aerostructures P/N: 745-0041-502	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC745-0041-502, Rev.: C, Dated: 11/21/11, or later FAA approved revisions.	Airbus	A319 Model -131 A319 Model -132 A319 Model -133 A320 Model -232 A320 Model -233 A321 Model -131 A321 Model -231  A321 Model -232

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<b>DATE:</b>	<u>January 20, 2016</u>

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Spring, Clutch	DEC728832-9	Hamilton Sundstrand P/N: 728832-9	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC728832, Rev.: B, Dated: 10/28/08, or later FAA approved revisions.	Airbus  Boeing	A330-223 A330-321 A330-322 A330-323  747-100 Series 747-100B Series 747-100B SUD Series 747-200B Series 747-200C Series 747-200F Series 747-300 Series 747-400 Series 747-400F Series  767-200 Series 767-300 Series 767-300F Series  777-200 Series 777-300 Series  MD-11  Lockheed L-1011-385-1-14 L-1011-385-1-15 L-1011-385-3  Boeing DC-10-40



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**SUPPLEMENT No.:** ODA-TK-004  
**DATE:** January 20, 2016

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Spring, Clutch	DEC728832-10	Hamilton Sundstrand P/N: 728832-10	Tests and Computations per 14 CFR § 21.303, Dwg No.: DEC728832, Rev.: B, Dated: 10/28/08, or later FAA approved revisions.	Airbus  Boeing	A330-223 A330-321 A330-322 A330-323  747-100 Series 747-100B Series 747-100B SUD Series 747-200B Series 747-200C Series 747-200F Series 747-300 Series 747-400 Series 747-400F Series  767-200 Series 767-300 Series 767-300F Series  777-200 Series 777-300 Series  MD-11  Lockheed L-1011-385-1-14 L-1011-385-1-15 L-1011-385-3  Boeing DC-10-40



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 Glastonbury, CT 06033

**PMA NO.:** PQ0816NE  
**SUPPLEMENT No.:** ODA-TK-004  
**DATE:** January 20, 2016

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Bolt-Slabbed Head	649-779-072-0DEC	CFM International P/N: 649-779-072-0	Tests and Computations per 14 CFR § 21.303, Dwg No.: 649-779-072-0DEC, Rev.: – , Dated: 10/23/14, or later FAA approved revisions.	CFM International	CFM56-5-A1

----- 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.

\_\_\_\_\_  
 Marco Cuberos  
 PMA ODA administrator  
 HEICO Aerospace Corporation

JANUARY 20, 2016

\_\_\_\_\_  
 Date

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



U.S. Department  
of Transportation

Federal Aviation  
Administration

December 19, 2005

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

Small Airplane Directorate  
Atlanta Manufacturing Inspection  
District Office  
One Crown Center, Suite 225  
1895 Phoenix Boulevard,  
Atlanta, GA 30349


PMA No. PQ1469CE

**FEDERAL AVIATION ADMINISTRATION-PARTS MANUFACTURER APPROVAL**

Per 14 CFR part 21, Subpart K, we found design data submitted with your letter dated December 19, 2005 to meet the airworthiness requirements of the regulations for the products on which the parts are to be installed. We based our finding on test and computation. Also, we determined that your company set up the fabrication inspection system at, 501 Industrial Park Road, Piney Flats, Tennessee as required by 14 CFR, § 21.303(h). Therefore, we grant parts manufacturer approval (PMA), which authorizes you to produce the replacement parts in the enclosed Supplement No. 145.

We remind you that the provisions of 14 CFR, noted in our PMA letter of approval dated October 17, 1995, also apply to the enclosed PMA Listing-Supplement No. 145. Please keep the enclosed supplement with the original PMA letter as evidence of approval to produce the parts concerned.

Sincerely,

  
for Jim Reeves  
Manager, Atlanta Manufacturing  
Inspection District Office

Enclosure

**FEDERAL AVIATION ADMINISTRATION-PARTS MANUFACTURER APPROVAL**


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

PMA NO. PQ1469CE  
SUPPLEMENT NO. 145  
DATE: December 19, 2005

Part Name	Part Number	Approved Replacement For Part Number	Approved Basis and Approved Design Data	Make Eligibility	Model Eligibility
Seal Spring	DEC59-154-032	Boeing P/N 314A1502-32	Test and Computation per 14 CFR § 21.303 <u>Dwg:</u> DEC59-154 <u>Rev:</u> No Rev <u>Date:</u> 11/10/05 or later FAA approved revisions	Boeing	737-300 Series 737-400 Series 737-500 Series
Seal Spring	DEC59-154-033	Boeing P/N 314A1502-33	Test and Computation per 14 CFR § 21.303 <u>Dwg:</u> DEC59-154 <u>Rev:</u> No Rev <u>Date:</u> 11/10/05 or later FAA approved revisions	Boeing	737-300 Series 737-400 Series 737-500 Series
Seal Spring	DEC59-154-054	Boeing P/N 314A1502-54	Test and Computation per 14 CFR § 21.303 <u>Dwg:</u> DEC59-154 <u>Rev:</u> No Rev <u>Date:</u> 11/10/05 or later FAA approved revisions	Boeing	737-300 Series 737-400 Series 737-500 Series
Seal Spring	DEC59-154-062	Boeing P/N 314A1502-62	Test and Computation per 14 CFR § 21.303 <u>Dwg:</u> DEC59-154 <u>Rev:</u> No Rev <u>Date:</u> 11/10/05 or later FAA approved revisions	Boeing	737-300 Series 737-400 Series 737-500 Series
Seal Spring	DEC59-154-063	Boeing P/N 314A1502-63	Test and Computation per 14 CFR § 21.303 <u>Dwg:</u> DEC59-154 <u>Rev:</u> No Rev <u>Date:</u> 11/10/05 or later FAA approved revisions	Boeing	737-300 Series 737-400 Series 737-500 Series
Seal Spring	DEC59-154-064	Boeing P/N 314A1502-64	Test and Computation per 14 CFR § 21.303 <u>Dwg:</u> DEC59-154 <u>Rev:</u> No Rev <u>Date:</u> 11/10/05 or later FAA approved revisions	Boeing	737-300 Series 737-400 Series 737-500 Series
Seal Spring	DEC59-154-065	Boeing P/N 314A1502-65	Test and Computation per 14 CFR § 21.303 <u>Dwg:</u> DEC59-154 <u>Rev:</u> No Rev <u>Date:</u> 11/10/05 or later FAA approved revisions	Boeing	737-300 Series 737-400 Series 737-500 Series

-----END OF LISTING-----

**NOTE: 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. If TC holder's ICA applies to these replacement parts, provide a statement noting such. If not, provide supplementary ICA per 14 CFR § 21.50.**

*jr*  
  
Jim Reeves  
Manager, Atlanta Manufacturing  
Inspection District Office