

# Airtrails GmbH

## Specifications ATR 42-320

**MSN 378**



### AIRCRAFT DATA

Model	<b>ATR 42-320</b>
Manufacturer Serial Number	<b>378</b>
Date of entry into service	June 1994
Last operator	Avianca/Taca
Last registration flown	HR-AXN
<b>Total Flight Hours Since New</b>	<b>30190</b>
<b>Total Flight Cycles Since New</b>	<b>42933</b>
<b>Aircraft data projected as of:</b>	<b>Jul-2017</b>

### ENGINES

	<b>No. 1 (LH)</b>	<b>No. 2 (RH)</b>
Manufacturer Type	PW121	PW121
Manufacturer Serial Number	<b>PCE120099</b>	<b>AC0085</b>
TSN	36322	5372
CSN	43691	5495
TSO	13053	5372
TSHSI	3612	5372
Engine data as of (date):	proj. to Jul-2017	proj. to Jul-2017
Last Shop Visit	HSI 05/2013	HS Repair 07/2016

### LCF (LLP) tables

	<b>Life Limit, FC</b>	<b>CSN</b>	<b>Remaining FC</b>
<b>LH Engine #1, ESN PCE120099</b>			
LP Impeller	25000	17450	<b>7550</b>
HP Impeller	30000	17450	<b>12550</b>
Cover HPT Front	15000	8794	<b>6206</b>
Cover HPT Rear	15000	8794	<b>6206</b>
HP Turbine Disk	15000	8794	<b>6206</b>
HP Turbine Blades	15000	4027	<b>10973</b>
Interstage Air Seal	15000	11756	<b>3244</b>
LP Turbine Disk	30000	4027	<b>25973</b>
PT Disk 1st Stage	30000	4027	<b>25973</b>
PT Disk 2nd Stage	30000	8794	<b>21206</b>

### **RH Engine #2, ESN AC0085**

LP Impeller	25000	5495	<b>19505</b>
HP Impeller	30000	7	<b>29993</b>
Cover HPT Front	15000	5495	<b>9505</b>
Cover HPT Rear	15000	5495	<b>9505</b>
HP Turbine Disk	15000	5495	<b>9505</b>
HP Turbine Blades	15000	5495	<b>9505</b>
Interstage Air Seal	15000	5495	<b>9505</b>
LP Turbine Disk	30000	7	<b>29993</b>
PT Disk 1st Stage	30000	5495	<b>24505</b>
PT Disk 2nd Stage	30000	5495	<b>24505</b>

**PROP 1 ASSEMBLY, HS 14SF-5****Prop No.1 HT Components**

	Hub	Actuator	Transfer Tube
P/N	782701-5	790180-3	814829-1
S/N	2014080048	880701	36134
TBO (FH)	10500	10500	10500
TSO (FH)	26	2557	6808
<b>Time (FH) to next OH</b>	<b>10474</b>	<b>7943</b>	<b>3692</b>
<b>Calendar OH due</b>	<b>Jul-2022</b>	<b>n/a</b>	<b>n/a</b>

**Blade Assy Prop No. 1**

	No. 1 Blade	No. 2 Blade	No. 3 Blade	No. 4 Blade
P/N	tbd	SFA13M1ROA+D	SFA13U1POA	SFA13U1POA
S/N	tbd	857581*	2010050095*	2012040016
TBO (FH)	10500	10500	10500	10500
TSO (FH)	max 5500	0	0	3124
<b>Time (FH) to next OH</b>	<b>min 5000</b>	<b>10500</b>	<b>10500</b>	<b>7376</b>
<b>Calendar OH due</b>	<b>Jul-2019 or later</b>	<b>Jul-2024</b>	<b>Jul-2024</b>	<b>Jan-2020</b>

**PROP 2 ASSEMBLY, HS 14SF-5****Prop No.2 HT Components**

	Hub	Actuator	Transfer Tube
P/N	782701-5	790180-2	814829-1
S/N	2011120019	517	01-02-040
TBO (FH)	10500	10500	10500
TSO (FH)	4371	3520	3520
<b>Time (FH) to next OH</b>	<b>6129</b>	<b>6980</b>	<b>6980</b>
<b>Calendar OH due</b>	<b>Mar-2019</b>	<b>n/a</b>	<b>n/a</b>

**Blade Assy Prop No. 2**

	No. 1 Blade	No. 2 Blade	No. 3 Blade	No. 4 Blade
P/N	SFA13U1ROA+D	SFA13U1POA	SFA13U1POA	SFA13M1ROA+D
S/N	879536-5	888157-5*	888334-5	853679*
TBO (FH)	10500	10500	10500	10500
TSO (FH)	973	0	4325	0
<b>Time (FH) to next OH</b>	<b>9527</b>	<b>10500</b>	<b>6175</b>	<b>10500</b>
<b>Calendar OH due</b>	<b>May-2021</b>	<b>Jul-2024</b>	<b>May-2019</b>	<b>Jul-2024</b>

\* NOTE: Blades S/N marked with \* are to be submitted to SV before delivery. If any of those Blades will need to be scrapped it will be replaced with serviceable blade with minimum 5000 FH and minimum calendar life 2YE to next next major inspection (OH).

**LANDING GEARS**

	NLG	MLG (LH)	MLG (RH)
P/N	D22698100-8	D22685040-18	D22686040-18
S/N	B177	MN221	MN223
CSN	32672	29864	30076
CSO	4614	0	0
<b>Remaining FC (TBO 18000 FC)</b>	<b>13386</b>	<b>18000</b>	<b>18000</b>
<b>Calendar OH due (TBO 8YE)</b>	<b>Sept 2019</b>	<b>Dec 2023</b>	<b>Dec 2023</b>

**AIRFRAME MAINTENANCE PROGRAM ACCOMPLISHMENT**

	Last done	Next due	Remaining time	Unit
C check (FH)	30190	30690	<b>5000</b>	FH
2C check (FH)	23444	33444	<b>3254</b>	FH
4C check (FH)	23444	43444	<b>13254</b>	FH
2YE Check	Jul-2017	Jul-2019	<b>24</b>	MO
4YE Check	Jul-2017	Jul-2021	<b>48</b>	MO
8YE check	Jul-2017	Jul-2025	<b>96</b>	MO
12 YE check	Jul-2017	Jul-2029	<b>144</b>	MO
36K/12000 FC	38319	50319	<b>7386</b>	FC

## MAIN FEATURES OF THE AIRCRAFT

<b>Weights</b>	<b>Kg</b>
MTOW	16900
Max. Landing Weight	16400
Operating Empty Weight	11025
Fuel capacity	4500

## **AVIONICS EQUIPMENT**

	<b>Manufacturer</b>	<b>P/N or Model</b>	<b>Qty</b>
FGC	HONEYWELL	FZ600	1
AUDIO CONTROL UNIT	TEAM	CAU2533AB03	1
VHF COMM	COLLINS	VHF-22C	2
DADC	HONEYWELL	AZ-810	2
CVR	FAIRCHILD	A100	1
ELT	SOCATA	ELT 96A	1
DFDR	FAIRCHILD	F800	1
WEATHER RADAR	HONEYWELL	WR-800	1
VOR / ILS	COLLINS	VIR-32	2
DME	COLLINS	DME-42	2
ADF	COLLINS	ADF-60	2
ATC TRANSPONDER	COLLINS	TDR-94D	2
RADIO ALT	TRT	ERT011	1
EGPWS	HONEYWELL	MK VIII	1
GNSS	HONEYWELL	HT-1000	1
TCAS	COLLINS	TTR-921	1
EFIS DISPLAY	HONEYWELL	ED-800	4
SYMBOL GENERATOR	HONEYWELL	SG-811	2
FDAU	SFIM	ED34A330	1
MPC	SAGEM	ED09876	1

## **OTHER**

Number of passenger seats:	48Y
Seats:	Sicma 9202 series
Lavatory:	YES
Galley:	YES
Navigation Equipment:	HT-1000 GNSS (PRNAV capable)
MPC:	YES
HF Radio:	NO
8,33 kHz VHF:	YES
Securized Cockpit Doors:	NO
TCAS 7.1	YES
ATC Enhanced Mode S:	YES
ICAO Annex 10 FM Immunity:	YES

## **NOTES**

Specifications are subject to change without prior notice.  
All data contained herewith are subject to verification upon inspection.