

# SKYCHESS

*Cost Data*





## COST DATA

Standard aircraft cost comparisons  
Standard aircraft cost assumptions  
Airline operating cost inputs



# AIRCRAFT DATA AND ASSUMPTIONS

	Seats	Cargo capacity (tonnes)	Fly away price USDm	MTOW (tonnes)	Fuel kg/BH	DMC per cycle USD	DMC per FH USD	Cabin crew (base number)
<b>APT100</b>	94	4	40	38	1565	220	260	2
<b>G130</b>	132	4	84.24	68	2020	355	288	3
<b>G160</b>	159	5	95.04	74	2200	390	330	4
<b>G200</b>	196	6	107	92	2420	420	370	5
<b>G200LR</b>	196	6	120	99	2420	420	370	5
<b>G250</b>	250	7	132	224	3300	495	450	6
<b>APT300</b>	255	8	136.96	231	3050	480	425	6

**MTOW: Maximum Take-Off Weight**

**BH: Block Hour (Flight fuel plus taxi fuel)**

**DMC: Direct Maintenance Cost**

**Cycle: One take-off and landing**

**Base number: Minimum regulatory requirement**

**Note: Flight and cabin crew costs in standard data are based upon minimum regulatory requirements:  
900 hours maximum flying hours per annum per flight crew member  
1 cabin crew per 50 passengers  
Fuel price: \$1.90 per USg**



# APT100 COST TABLES

Round trips

APT100 100	500	1000	1500	2000	2500	3000	3500
Fuel	2,153	3,327	4,499	5,673	6,848	8,022	9,196
Maintenance	991	1,538	2,086	2,633	3,180	3,727	4,274
Flight Crew	951	1,470	1,988	2,507	3,026	3,544	4,063
Cabin Crew	1,056	1,632	2,208	2,784	3,360	3,936	4,512
Landing	608	608	608	608	608	608	608
Navigation	402	663	925	1,186	1,448	1,709	1,971
Aircraft Handling	532	532	532	532	532	532	532
Traffic Handling	994	994	994	994	994	994	994
<b>Total Direct Cash Operating Costs</b>	<b>7,687</b>	<b>10,764</b>	<b>13,840</b>	<b>16,917</b>	<b>19,996</b>	<b>23,072</b>	<b>26,150</b>
<b>Cost per seat kilometre</b>	<b>0.154</b>	<b>0.108</b>	<b>0.092</b>	<b>0.085</b>	<b>0.080</b>	<b>0.077</b>	<b>0.075</b>

Traffic handling based on 75% load factor



# G130 COST TABLES

Round trips

G130 132	500	1000	1500	2000	2500	3000	3500	4000
Fuel	2,778	4,292	5,808	7,323	8,839	10,353	11,869	13384
Maintenance	1,583	2,102	2,620	3,139	3,657	4,175	4,694	5212
Flight Crew	951	1,470	1,988	2,507	3,026	3,544	4,063	4582
Cabin Crew	1,584	2,448	3,312	4,176	5,040	5,904	6,768	7632
Landing	1,088	1,088	1,088	1,088	1,088	1,088	1,088	1088
Navigation	490	840	1,190	1,539	1,889	2,239	2,589	2939
Aircraft Handling	952	952	952	952	652	952	952	952
Traffic Handling	1,386	1,386	1,386	1,386	1,386	1,386	1,386	1,386
<b>Total Direct Cash Operating Costs</b>	<b>10,812</b>	<b>14,578</b>	<b>18,344</b>	<b>22,110</b>	<b>25,577</b>	<b>29,641</b>	<b>33,409</b>	<b>37,175</b>
<b>Cost per seat kilometre</b>	<b>0.164</b>	<b>0.110</b>	<b>0.093</b>	<b>0.084</b>	<b>0.078</b>	<b>0.075</b>	<b>0.072</b>	<b>0.070</b>

Traffic handling based on 75% load factor



# G160 COST TABLES

Round trips

G160 159	500	1000	1500	2000	2500	3000	3500	4000	4500
Fuel	3,025	4,676	6,325	7,976	9,625	11,277	12,926	14,577	16,226
Maintenance	1,554	2,058	2,562	3,066	3,570	4,074	4,578	5,082	5,586
Flight Crew	951	1,470	1,988	2,507	3,026	3,544	4,063	4,582	5,100
Cabin Crew	1,584	2,448	3,312	4,176	5,040	5,904	6,768	7,632	8,496
Landing	1,184	1,184	1,184	1,184	1,184	1,184	1,184	1,184	1,184
Navigation	505	870	1,235	1,600	1,965	2,330	2,695	3,060	3,425
Aircraft Handling	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036
Traffic Handling	1,666	1,666	1,666	1,666	1,666	1,666	1,666	1,666	1,666
<b>Total Direct Cash Operating Costs</b>	<b>11,505</b>	<b>15,408</b>	<b>19,308</b>	<b>23,211</b>	<b>27,112</b>	<b>31,015</b>	<b>34,916</b>	<b>38,819</b>	<b>42,719</b>
<b>Cost per seat kilometre</b>	<b>0.145</b>	<b>0.097</b>	<b>0.081</b>	<b>0.073</b>	<b>0.068</b>	<b>0.065</b>	<b>0.063</b>	<b>0.061</b>	<b>0.060</b>

Traffic handling based on 75% load factor



# G200 COST TABLES

Round trips

G200	500	1000	1500	2000	2500	3000	3500	4000	4500
196									
Fuel	3,329	5,143	6,958	8,774	10,589	12,403	14,220	16034	17849
Maintenance	1,728	2,286	2,844	3,402	3,960	4,518	5,076	5634	6192
Flight Crew	951	1,470	1,988	2,507	3,026	3,544	4,063	4582	5100
Cabin Crew	2,112	3,264	4,416	5,568	6,720	7,872	9,024	10176	11328
Landing	1,472	1,472	1,472	1,472	1,472	1,472	1,472	1472	1472
Navigation	547	954	1,361	1,768	2,175	2,582	2,989	3396	3802
Aircraft Handling	1,288	1,288	1,288	1,288	1,288	1,288	1,288	1288	1288
Traffic Handling	2,058	2,058	2,058	2,058	2,058	2,058	2,058	2,058	2,058
<b>Total Direct Cash Operating Costs</b>	<b>13,485</b>	<b>17,935</b>	<b>22,385</b>	<b>26,837</b>	<b>31,288</b>	<b>35,737</b>	<b>40,190</b>	<b>44,640</b>	<b>49,089</b>
<b>Cost per seat kilometre</b>	<b>0.138</b>	<b>0.092</b>	<b>0.076</b>	<b>0.068</b>	<b>0.064</b>	<b>0.061</b>	<b>0.059</b>	<b>0.057</b>	<b>0.056</b>

Traffic handling based on 75% load factor



# G250 COST TABLES

Round trips

G250 250	500	1000	1500	2000	2500	3000	3500	4000	4500	5000
Fuel	4,537	7,013	9,489	11,964	14,438	16,914	19,390	21865	24341	26815
Maintenance	2,295	3,105	3,915	4,725	5,535	6,345	7,155	7965	8775	9585
Flight Crew	951	1,470	1,988	2,507	3,026	3,544	4,063	4582	5100	5619
Cabin Crew	2,904	4,488	6,072	7,656	9,240	10,824	12,408	13992	15576	17160
Landing	3,584	3,584	3,584	3,584	3,584	3,584	3,584	3584	3584	3584
Navigation	775	1,410	2,045	2,680	3,315	3,950	4,585	5220	5855	6490
Aircraft Handling	3,136	3,136	3,136	3,136	3,136	3,136	3,136	3136	3136	3136
Traffic Handling	2,632	2,632	2,632	2,632	2,632	2,632	2,632	2,632	2,632	2,632
<b>Total Direct Cash Operating Costs</b>	<b>20,814</b>	<b>26,838</b>	<b>32,861</b>	<b>38,884</b>	<b>44,906</b>	<b>50,929</b>	<b>56,953</b>	<b>62,976</b>	<b>68,999</b>	<b>75,021</b>
<b>Cost per seat kilometre</b>	<b>0.167</b>	<b>0.107</b>	<b>0.088</b>	<b>0.078</b>	<b>0.072</b>	<b>0.068</b>	<b>0.065</b>	<b>0.063</b>	<b>0.061</b>	<b>0.060</b>

Traffic handling based on 75% load factor





# APT300 COST TABLES

Round trips

APT300 255	500	1000	1500	2000	2500	3000	3500	4000	4500	5000
Fuel	4,193	6,483	8,770	11,058	13,346	15,633	17,921	20208	22496	24784
Maintenance	2,205	2,970	3,735	4,500	5,265	6,030	6,795	7560	8325	9090
Flight Crew	951	1,470	1,988	2,507	3,026	3,544	4,063	4582	5100	5619
Cabin Crew	2,904	4,488	6,072	7,656	9,240	10,824	12,408	13992	15576	17160
Landing	3,696	3,696	3,696	3,696	3,696	3,696	3,696	3696	3696	3696
Navigation	785	1,430	2,074	2,719	3,364	4,009	4,654	5299	5943	6588
Aircraft Handling	3,234	3,234	3,234	3,234	3,234	3,234	3,234	3234	3234	3234
Traffic Handling	2,674	2,674	2,674	2,674	2,674	2,674	2,674	2,674	2,674	2,674
<b>Total Direct Cash Operating Costs</b>	<b>20,642</b>	<b>26,445</b>	<b>32,243</b>	<b>38,044</b>	<b>43,845</b>	<b>49,644</b>	<b>55,445</b>	<b>61,245</b>	<b>67,044</b>	<b>72,845</b>
<b>Cost per seat kilometre</b>	<b>0.162</b>	<b>0.104</b>	<b>0.084</b>	<b>0.075</b>	<b>0.069</b>	<b>0.065</b>	<b>0.062</b>	<b>0.060</b>	<b>0.058</b>	<b>0.057</b>

Traffic handling based on 75% load factor



# GENERIC ASSUMPTIONS

**These assumptions drive the aircraft cost tables in this document**

Fuel price	<b>\$1.90</b> per USG
Maintenance	See aircraft data page or Aircraft Catalogue for values; <b>50%</b> burden
Flight crew	<b>900</b> BH pa per crew Short haul: <b>\$145,000</b> salary per person + <b>\$55</b> per BH allowances Long haul: <b>\$175,000</b> salary per person + <b>\$75</b> per BH allowances
Cabin crew	Minimum requirement Short haul: <b>\$75</b> per BH salary + <b>\$45</b> per BH allowances Long haul: <b>\$92</b> per BH salary + <b>\$65</b> per BH allowances
Landing fees	<b>\$8</b> per tonne of MTOW
Navigation fees	Eurocontrol formula
Aircraft handling	<b>\$7</b> per pax
Traffic handling	<b>\$7</b> per passenger, assuming 75% load factor



# AIRLINE SPECIFIC ASSUMPTIONS

	Landing fees (per tonne of MTOW)	Aircraft handling (per tonne of MTOW)	Traffic handling (per pax)	Cargo handling (per tonne)
SHM	\$8	\$10	\$7	\$60
KUD	\$10	\$9	\$10	\$60
QIL	\$11	\$10	\$10	\$60
OOL	\$11	\$10	\$10	\$60
DAF	\$10	\$9	\$10	\$60
FYN	\$7	\$6	\$9	\$60
LON	\$8	\$9	\$9	\$60

## The following costs concern overheads and financing

General & Admin **\$0.01** per ASK

Financing  
Interest: mortgage style monthly payments  
**5%** interest, **12** year term  
Depreciation: **15** years to **10%** residual value  
Insurance: **0.5%** of aircraft price

Cash at start of game **\$1,000,000**