

**Master Weight & Balance
Info Sheet**

Diamond Star DA40
OE-DKK OE-DXA



AIRCRAFT BASIC DATA

OE-DKK		
Crew	BEW	BEM
0	1364	3289
Crew	DOW	DOM
1	1443	3470
2	1522	3660

OE-DXA		
Crew	BEW	BEM
0	1314	3174
Crew	DOW	DOM
1	1393	3355
2	1472	3546

Abbreviations:
BEW: Basic Empty Weight
BEM: Basic Empty Moment
DOW: Dry Operating Weight
DOM: Dry Operating Moment
MTOW: Max. Take Off Weight
MLAW: Max. Landing Weight

DRY OPERATING LOAD

COCKPIT SEATS		
Weight	Occupants	Moment
70		161
79	1P	182
80		184
90		207
100		230
108	1P+1C	248
110		253
120		276
130		299
140		322
150		345
158	2P	363
159	1P+1F	366
160		368
170		391
177	1P+1M	407
180		414
190		437
200		460

REAR SEATS		
Weight	Occupants	Moment
29	1C	95
40		131
50		163
58	2C	189
60		196
70		229
80	1F	261
90		294
98	1M	320
109	1F+1C	356
120		392
127	1M+1C	415
140		457
150		490
160	1F+1F	523
170		555
178	1M+1F	581
190		621
196	1M+1M	640

Data Origin: EU OPS 1.610
Pilot: 79 kg (85 kg - 6 kg Baggage)
Male: 98 kg (104 kg - 6 kg Baggage)
Female: 80 kg (86 kg - 6 kg Baggage)
Child (2 to <12y): 29 kg (35 kg - 6 kg Baggage)
Infant (>0 to <2y): 0 kg

USEFUL LOAD

USEABLE FUEL - MAIN TANK				
Fuel Level	Indication	Useable Fuel (Kg)	Moment	Endurance (Fuel Flow 25 kg/hr)
	3	10	26	00:24
	7	20	53	00:48
	10	30	79	01:12
1/4	13	40	105	01:36
	17	50	132	02:00
	20	60	158	02:24
1/2	23	70	184	02:48
	27	80	210	03:12
	30	90	237	03:36
	33	100	263	04:00
3/4	37	110	289	04:24
	40	120	316	04:48
	43	130	342	05:12
	47	140	368	05:36
FULL	50	150	395	06:00

USEABLE FUEL - AUX TANK		
Fuel Level	Useable Fuel (Kg)	Moment
AUX FUEL IS NOT INDICATED	160	427
	170	459
	180	491
	190	523
	200	555
	210	587
	220	619
	230	651
	240	683
	250	715
	260	747

BAGGAGE WEIGHTS vs. MOMENTS			
WEIGHT	NOSE	CABIN	EXTENSN
5	3	19	23
10	6	39	45
15	9	58	68
18	11	70	82
20	12	78	
25	15	97	
30	18	117	
35		136	
40		156	
45		175	

WARNING!
 If AUX Fuel Qty is unknown, use full Tanks for TOW/BALANCE Calculation; for FPL Endurance use only Main Tanks

MAX LOAD IN CABIN and EXTENSION COMPARTMENT TOGETHER IS 45KG!