

BOAT Name HYPNOTIC Sail Nr ECU-50	GPH 607,9	HULL Length Overall 14,576m Maximum Beam 4,476m Displacement 15.136kg Draft 2,124m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,355% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL Class HUNTER 50 Designer HUNTER Builder HUNTER Series 11/2003 Age 01/2007 Age Allowance 0,455% Offset File ECU50M.OFF - 04/10/2017 08:24:26 Measurement by P. GUTIERREZ - 02/10/2017		IMSL 13,494m VCGD 0,084m Sink 36,29kg/mm RL 8,335m VCGM 0,360m WS 47,91m² LSMO 13,648m Displacement/Length ratio 5,9539



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Rating Office
Federación Ecuatoriana
de Vela
Patricio D. Gutiérrez - RO
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SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Time On Distance	591,5			671,4	
Time On Time	1,0144			1,0053		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	717,9	533,7	462,8	948,2	681,1	566,7
Time on Time	0,9402	1,2648	1,4584	0,7119	0,9911	1,1912

TIME ALLOWANCES	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1102,3	900,8	796,5	731,4	693,0	672,8	656,9
52°	695,1	577,2	510,2	470,2	454,3	446,6	440,1
60°	639,5	536,9	475,5	446,7	435,2	429,5	424,4
75°	593,1	500,4	451,5	430,2	418,3	410,6	403,6
90°	586,5	494,9	446,8	425,7	412,3	401,1	383,4
110°	629,7	515,5	451,6	424,5	407,2	391,8	374,2
120°	650,5	531,6	461,4	429,5	411,6	395,8	363,6
135°	726,3	584,4	502,1	450,9	426,0	409,4	377,1
150°	871,0	678,9	570,4	499,8	452,6	428,0	397,0
Run VMG	1005,8	784,0	657,9	574,3	513,9	468,3	419,7

Certificate
Number **5003**
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VPP Ver. **2017 1.00**
Valid until **31/03/2018**

Crew Weight
Declared **950kg**
Default* **1.073kg**
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **625,4 0,9594**
Non Spin OSN **608,6 0,9858**

Selected Courses	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	1054,1	842,4	727,2	652,9	603,5	570,6	538,3
Circular Random	856,1	683,6	588,8	532,3	496,8	473,7	446,7
Ocean for PCS	1065,5	811,8	666,8	576,8	517,9	476,9	421,9
Non Spinnaker	887,1	705,7	605,4	545,1	507,0	482,0	451,7

Sails Limitations
Headsails | Spinnakers
1 | 4
Dacron Sails

Velocity Prediction in Knots for True Wind Speeds	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	46,7°	45,1°	44,8°	45,4°	44,4°	43,6°	42,9°
Beat VMG	3,27	4,00	4,52	4,92	5,19	5,35	5,48
52°	5,18	6,24	7,06	7,66	7,92	8,06	8,18
60°	5,63	6,71	7,57	8,06	8,27	8,38	8,48
75°	6,07	7,19	7,97	8,37	8,61	8,77	8,92
90°	6,14	7,27	8,06	8,46	8,73	8,98	9,39
110°	5,72	6,98	7,97	8,48	8,84	9,19	9,62
120°	5,53	6,77	7,80	8,38	8,75	9,09	9,90
135°	4,96	6,16	7,17	7,98	8,45	8,79	9,55
150°	4,13	5,30	6,31	7,20	7,95	8,41	9,07
Run VMG	3,58	4,59	5,47	6,27	7,01	7,69	8,58
Gybe Angles	144,3°	148,9°	152,1°	154,1°	158,9°	180,0°	180,0°

Class Division Length
CDL = **10,915**

Storm Sails Areas
Heavy Weather Jib **36,81**
Storm Jib (JL=10,73) **13,63**
Storm Trysail **21,43**

Owner
JUAN DOUMET
GUAYAQUIL

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature

BOAT	
Name HYPNOTIC	Sail Nr ECU-50
File ECU50	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 27/05/2009		SG 1,0250	
FFM 1,675	FF 1,682	SFFP 0,722	
FAM 1,380	FA 1,385	SAFP 13,546	
W1 130,0	PD1 350,2	WD 12,270	
W2 130,0	PD2 351,3	GSA 1,0	
W3 130,0	PD3 350,8	RSA 1,0	
W4 130,0	PD4 349,4	PLM 9000,0	
LCF from stem on CL / on sheer		8,353 / 8,644	
Maximum beam station from stem		8,973	
RM Measured		358,5kg·m	
RM Default		398,3kg·m	
Limit of positive stability / Stab.Index		101,6° / 110,6	
Freeboard at mast at 5,030		1,444	

RIG			
Forestay Tension Fixed	Spreaders 2		
Inner Stay None Fitted	Runners 0		
Carbon Mast No	Jumper Struts None		
Taper Hollows No	Jib Furler Yes		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay Yes		
Articulated Bowsprit No			
P 17,080	E 7,170	MDT1 0,135	MW 0,264
IG 16,513	J 5,030	MDL1 0,264	GO 0,264
ISP 16,993	SFJ 0,000	MDT2 0,135	BD 0,251
BAS 1,753	SPL 5,120	MDL2 0,264	MWT
FSP 0,180	TPS	TL 0,000	MCG



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0,560		
Type Feathering 3 blades	PBW 0,175		
Twin Screw No	PIPA 0,0078		
PSA 14,000	PHL 0,018	ST3 0,170	ESL 1,431
PSD 0,032	ST1 0,024	ST4 0,083	
PHD 0,091	ST2 0,138	ST5 0,295	

COMMENTS	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,190	1,53	2,72	4,61	5,95	72,58	74,70	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	16,39	16,39	16,39	9,02	8,70	122,32		SL · (SFL + 4·SHW) / 6	
Asymmetric	Not Available								

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
					7,50	16,65	63,57					* Copied from legacy *

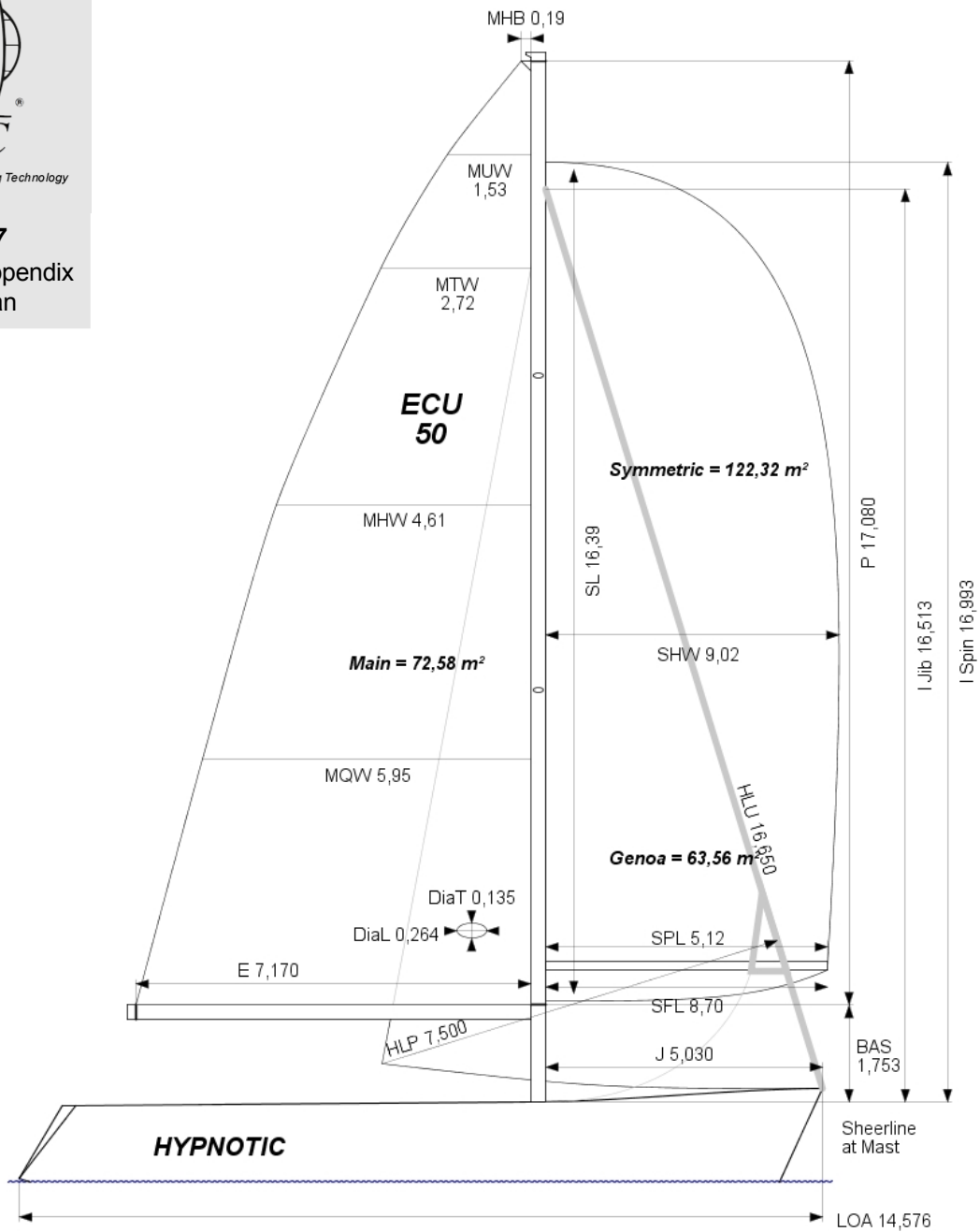
MEASUREMENT INVENTORY				
Measurer PATRICIO GUTIERREZ P G				
Date 02/10/2017				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

MEASUREMENT INVENTORY				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0,190	1,53	2,72	4,61	5,95	72,58					* Copied from legacy

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
ORC						7,50	16,65	149%	63,57							* Copied from legacy *

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S1	16,39	16,39	16,39	9,02	8,70	122,32	JM	27/05/2009	NORTH	Nylon	

ASYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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