



**ORC**  
Offshore Racing Congress  
World leader in rating technology

**2020  
ORC Club  
Certificate**

**Rating Office**

**Offshore  
Racing  
Congress**



**Certificate**

Number **064/20**  
Issued On **30/09/2020**  
ORC Ref **02920000R21**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 649kg  
Maximum **595kg**  
Minimum\* **446kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>667.9</b>	<b>0.8983</b>
Non Spin OSN	<b>647.3</b>	<b>0.9269</b>

**Sails Limitations**

Headsails **5** Spinnakers **4**

**Spinnaker configuration**  
Symmetric: **Yes** 81.20  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

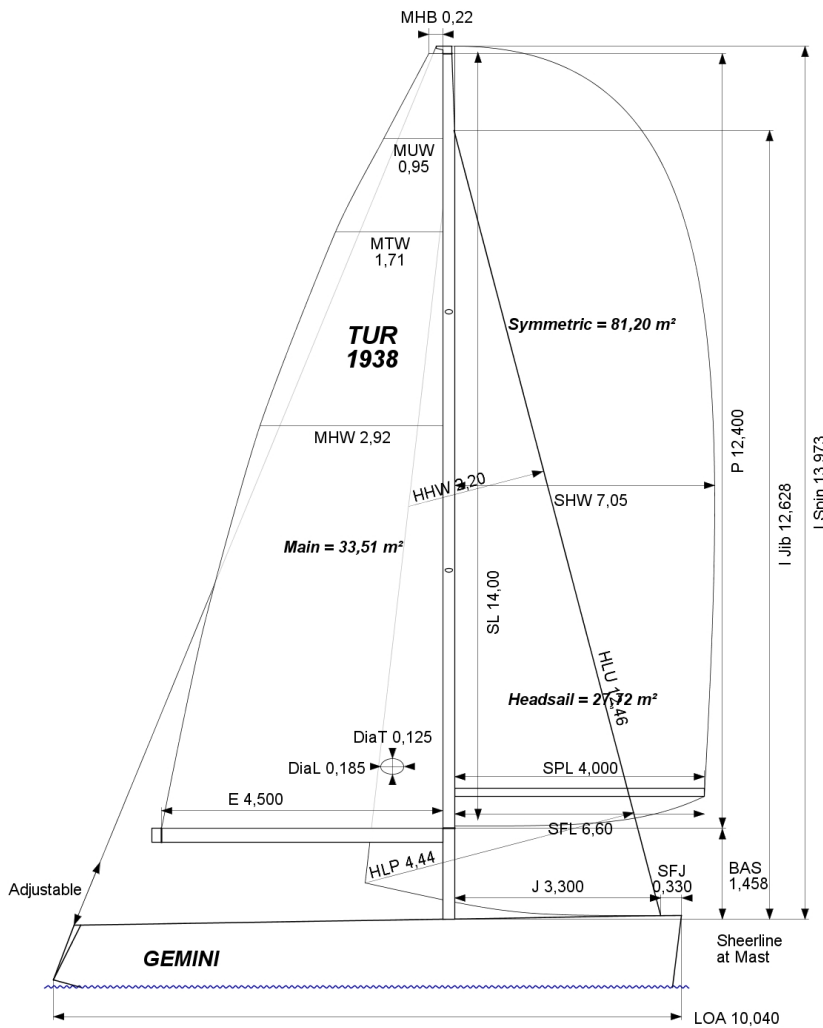
**Class Division Length**

**CDL = 8.946**

**Stability (Estimated)**

Limit Positive Stab.: **123.0°**  
Stability Index: **125.0**

**Owner**



BOAT		GPH		HULL		
Name <b>Gemini</b> Sail Nr <b>TUR-1938</b>		<b>632.3</b>		Data File <b>TUR1938</b>	LOA <b>10.040m</b>	
				Offset File <b>MAT10.off</b>	MB <b>3.142m</b>	
				Displacement <b>4,403kg</b>	Draft <b>2.049m</b>	
				IMS Division <b>Cruiser/Racer</b>	Dynamic All. <b>0.214%</b>	
				Plan Review	Construction <b>Cored</b>	
				Fiber Rigging <b>No</b>	Aramid Core <b>No</b>	
				Crew Arm Ex	Carbon Rudder <b>No</b>	
					Light Stanchions <b>No</b>	
				IMSL <b>9.556m</b>	VCGD <b>0.116m</b>	
				RL <b>8.334m</b>	VCGM <b>-0.065m</b>	
				WS <b>21.81m²</b>		
				LSM0 <b>9.592m</b>	Displacement/Length ratio <b>4.9891</b>	
				Water Ballast <b>0</b>	Trim Tab <b>No</b>	
				BLR Index <b>0.0000</b>		
				<b>CENTERBOARD</b>		
				<b>N/A</b>		
				<b>PROPELLER</b>		
				Installation <b>Strut</b>	PRD <b>0.405</b>	
				Type <b>Folding 2 blades</b>	PBW <b>0.130</b>	
					PIPA <b>0.0034</b>	
				<b>SCORING OPTIONS</b>		
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>614.0</b>			<b>683.8</b>		
Time on Time	<b>0.9772</b>			<b>0.9871</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>722.7</b>	<b>560.2</b>	<b>501.7</b>	<b>931.3</b>	<b>686.0</b>	<b>599.6</b>
Time on Time	<b>0.9340</b>	<b>1.2049</b>	<b>1.3453</b>	<b>0.7248</b>	<b>0.9839</b>	<b>1.1258</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name <b>Gemini</b>	Certificate Number <b>064/20</b>
Sail Nr <b>TUR-1938</b>	Issued On <b>30/09/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1070.7</b>	<b>884.7</b>	<b>779.8</b>	<b>731.5</b>	<b>714.5</b>	<b>707.9</b>	<b>704.1</b>
52°	<b>699.9</b>	<b>590.6</b>	<b>535.6</b>	<b>514.6</b>	<b>506.9</b>	<b>503.4</b>	<b>501.8</b>
60°	<b>661.1</b>	<b>563.7</b>	<b>520.9</b>	<b>502.4</b>	<b>493.2</b>	<b>489.2</b>	<b>487.0</b>
75°	<b>632.6</b>	<b>545.1</b>	<b>510.2</b>	<b>491.0</b>	<b>477.0</b>	<b>467.1</b>	<b>459.4</b>
90°	<b>641.6</b>	<b>542.1</b>	<b>503.6</b>	<b>489.0</b>	<b>471.5</b>	<b>454.7</b>	<b>430.7</b>
110°	<b>637.4</b>	<b>532.5</b>	<b>493.9</b>	<b>469.1</b>	<b>450.3</b>	<b>437.5</b>	<b>415.5</b>
120°	<b>655.5</b>	<b>542.4</b>	<b>498.6</b>	<b>471.4</b>	<b>444.4</b>	<b>421.0</b>	<b>394.9</b>
135°	<b>723.4</b>	<b>587.6</b>	<b>519.8</b>	<b>488.9</b>	<b>462.7</b>	<b>435.2</b>	<b>381.7</b>
150°	<b>853.5</b>	<b>679.1</b>	<b>575.6</b>	<b>518.2</b>	<b>489.7</b>	<b>465.5</b>	<b>415.1</b>
Run VMG	<b>985.5</b>	<b>784.2</b>	<b>663.9</b>	<b>587.4</b>	<b>534.0</b>	<b>500.4</b>	<b>453.0</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1028.1</b>	<b>834.4</b>	<b>721.8</b>	<b>659.5</b>	<b>624.3</b>	<b>604.2</b>	<b>578.5</b>
Circular Random	<b>868.6</b>	<b>702.1</b>	<b>613.4</b>	<b>562.4</b>	<b>531.4</b>	<b>511.1</b>	<b>484.6</b>
Coastal / Long Distance	<b>1023.8</b>	<b>783.9</b>	<b>652.8</b>	<b>580.3</b>	<b>541.9</b>	<b>511.7</b>	<b>463.8</b>
Non Spinnaker	<b>933.3</b>	<b>747.5</b>	<b>646.9</b>	<b>588.2</b>	<b>552.2</b>	<b>528.8</b>	<b>499.3</b>

<b>Velocity Prediction in Knots for True Wind Speeds</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	<b>42.8°</b>	<b>41.3°</b>	<b>40.5°</b>	<b>39.0°</b>	<b>38.3°</b>	<b>38.3°</b>	<b>38.3°</b>
Beat VMG	<b>3.36</b>	<b>4.07</b>	<b>4.62</b>	<b>4.92</b>	<b>5.04</b>	<b>5.09</b>	<b>5.11</b>
52°	<b>5.14</b>	<b>6.10</b>	<b>6.72</b>	<b>7.00</b>	<b>7.10</b>	<b>7.15</b>	<b>7.17</b>
60°	<b>5.45</b>	<b>6.39</b>	<b>6.91</b>	<b>7.17</b>	<b>7.30</b>	<b>7.36</b>	<b>7.39</b>
75°	<b>5.69</b>	<b>6.60</b>	<b>7.06</b>	<b>7.33</b>	<b>7.55</b>	<b>7.71</b>	<b>7.84</b>
90°	<b>5.61</b>	<b>6.64</b>	<b>7.15</b>	<b>7.36</b>	<b>7.64</b>	<b>7.92</b>	<b>8.36</b>
110°	<b>5.65</b>	<b>6.76</b>	<b>7.29</b>	<b>7.67</b>	<b>8.00</b>	<b>8.23</b>	<b>8.66</b>
120°	<b>5.49</b>	<b>6.64</b>	<b>7.22</b>	<b>7.64</b>	<b>8.10</b>	<b>8.55</b>	<b>9.12</b>
135°	<b>4.98</b>	<b>6.13</b>	<b>6.93</b>	<b>7.36</b>	<b>7.78</b>	<b>8.27</b>	<b>9.43</b>
150°	<b>4.22</b>	<b>5.30</b>	<b>6.25</b>	<b>6.95</b>	<b>7.35</b>	<b>7.73</b>	<b>8.67</b>
Run VMG	<b>3.65</b>	<b>4.59</b>	<b>5.42</b>	<b>6.13</b>	<b>6.74</b>	<b>7.19</b>	<b>7.95</b>
Gybe Angles	<b>145.0°</b>	<b>149.0°</b>	<b>151.0°</b>	<b>158.0°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>