

8848_2022 Remote Mechanical Steering Systems en240408

CERTIFICATION APPLICATION
Remote Mechanical Steering Systems
Ref.: EN ISO 8848:2022

FOR IMCI / IMCI (UK) USE ONLY
Certificate No.:

Manufacturer:	
Address:	
City:	
Country:	
VAT #:	
Signatory, Name:	
Signatory, Title:	
Phone:	
Email:	
WWW:	
Model Name:	
Type of component (e.g. helm assembly, steering cable, output ram etc.):	
Model Year:	
Head of Engineering:	

This application is valid for:

Directive 2013/53/EU (RCD II) related to CE marking for EU.	[Yes, No]	Indicate
Recreational Craft Regulation (RCR) related to UKCA marking for United Kingdom	[Yes, No]	

Selected test data	Clause	Requirements	Unit	As tested
1 Type of steering system: standard duty [SDS], light duty [LDS] or mini-jet [MJS]				
2 Largest diameter of steering wheel as tested			mm	
3 Largest dish of steering wheel as tested			mm	
4 Components of the steering system are corrosion resistant and galvanically compatible	4.4	[Yes/NA ?]		
5 Threaded fasteners in question are provided with locking means	4.5	[Yes/NA ?]		
6 Threaded fasteners in question are referenced by instructions and comply for assembly	4.6	[Yes/NA ?]		
7 Loose lock washers, distorted thread nuts or separately applied adhesive is not used.	4.6.1	[Yes/NA ?]		
8 If plain threaded jam nuts are used to permit adjustments the design is compliant	4.6.2	[Yes/NA ?]		
9 A locking device is designed so that its presence can be determined by visual inspection or feel after installation.	4.6.3	[Yes/NA ?]		
10 No connection fittings, including quick-disconnect fittings rely only upon a spring or springs to maintain the connection.	4.7	[Yes/NA ?]		
11 If OB steering system, the steering stops permit at least 30° of angular movement	5.1	[Yes/NA ?]		
12 If OB steering system, the dimensions indicated in Figure 1, 3 and 4 are met.	5.2	[Yes/NA ?]		
13 All mechanical parts of the steering system that transfer steering forces do meet the applicable steering system component requirements as per cl. 8.2	5.5	[Yes ?]		
14 If craft-mounted steering systems for OB installation, the dimensions indicated in Figure 1 and 2 as well as this clause are met.	6.1.1	[Yes/NA ?]		
15 The steering system is capable of operating throughout a temperature of -20°C to +80°C	6.2.1	[Yes ?]		
16 The storage temperature range of -40°C to +85°C is met	6.2.2	[Yes ?]		
17 Steering systems and components shall meet the applicable test requirements specified in Clause 8.	6.2.6	[Yes ?]		
18 Plastics and elastomers which can be exposed to sunlight shall be chosen to resist degradation by ultraviolet radiation.	6.2.7	[Yes ?]		
19 Plastics and elastomers which can be installed in engine compartments shall be chosen to resist degradation by saline atmospheres, fuel, oil, ozone and heat.	6.2.8	[Yes ?]		
20 Steering cables are permanently marked with dimensions at the output end	6.3	[Yes ?]		
21 The cable or steering-system output device provides the demanded amount of travel	6.3.2	[Yes ?]		
22 If light-duty steering system, it is permanently marked for the maximum power of 40 kW	6.3.4	[Yes/NA ?]		
23 Light duty and standard duty steering cables are not interchangeable with mini-jet craft steering system cables	6.3.5	[Yes/NA ?]		
24 If foreseen for installation below the maximum loaded waterline, ferrous metals are corrosion-resistant and equivalent to 300 series stainless steel.	6.3.6	[Yes/NA ?]		
25 The minimum bending radius is specified	6.3.7	[Yes/NA ?]		
26 Each cable in a two-cable steering systems does comply with the requirements	6.3.8	[Yes/NA ?]		



8848_2022 Remote Mechanical Steering Systems en240408

CERTIFICATION APPLICATION
Remote Mechanical Steering Systems
Ref.: EN ISO 8848:2022

FOR IMCI / IMCI (UK) USE ONLY
Certificate No.:

Manufacturer: _____
Model Name: _____
Model Year: _____

Selected test data	Clause	Requirements	Unit	As tested
27 Installation instructions for steering mechanism include the largest diameter and deepest dish of the steering wheel that may be used.	6.4	[Yes/NA ?]		
28 Mating of the steering mechanism complies with requirements if used with steering wheel, handlebar and/or joystick.	6.4.2	[Yes/NA ?]		
	6.4.3			
	6.4.4			
29 If mini-jet craft steering mechanism, travel stops to eliminate overloading the steering cable is incorporated	6.4.6	[Yes/NA ?]		
30 If helm assembly for light duty steering system it is marked with maximum power of 40 kW	6.4.7	[Yes/NA ?]		
31 The steering cable and output assembly tests have been conducted with an axial force value as per Table 2.	8.3.1.1	[Yes/NA ?]		
32 A separate cantilever force test has been conducted with a value as per Table 2	8.3.1.2	[Yes/NA ?]		
33 The output ram of a push-pull steering cable has withstood an applied force with a value as per Table 2 for 50000 reversals through the output ram interface point.	8.3.1.3	[Yes/NA ?]		
34 The steering assembly has been successfully tested with the largest rated steering wheel and deepest dish for the axial force test and the tangential force test.	8.3.2.1	[Yes/NA ?]		
	8.3.2.5	[Yes/NA ?]		
35 If mini-jet craft steering system, the fatigue test with a force value as per Table 3 has been conducted successfully.	8.3.2.6	[Yes ?]		
36 The steering mechanism withstand the impact tests successfully	9.1	[Yes ?]		
37 The steering system is marked properly	9.2	[Yes ?]		
38 An owner's manual is provided	9.3	[Yes ?]		
39 An installation manual is provided				
40 Specify type of laboratory: in-house or/and external ?				
41 Calibration report submitted for the following and/or other measuring instruments used, if applicable:				
42 Temperature measuring device				
43 Force gauge				
44 Protractor gauge				
45 Sliding gauge				
46 Other measurement device(s)				
47 Name of test laboratory				
48 Reference number of test report				
49 Test report and drawings submitted with application?				
50 Comments:				

As the manufacturer or his authorised representative, I declare under our sole responsibility that the above product(s) to which this declaration relates is in conformity with ISO 8848. This application has not been lodged with any other notified body and/or conformity assessment body.

Date (yymmdd) and Signature: _____

8848 _2022 Remote Mechanical Steering Systems en240408

Manufacturer: _____

Model Name: _____

Model Year: _____

This page is only for IMCI / IMCI (UK) office use

IMCI / IMCI (UK) Inspector (if applicable)

I declare under our sole responsibility that I have not been active for the manufacturer in design, construction, marketing or other activities. The content of the forms have been checked.

Evaluation by Inspector: Stamp, Clear Name, Signature and Date: _____

Comments on Evaluation by Inspector: _____

IMCI / IMCI (UK) office

Application review

Application accepted for IMCI: clear name, date (yymmdd) [Yes, No] _____

Application accepted for IMCI (UK): clear name, date (yymmdd) [Yes, No] _____

Comments to application or reason(s) if refused: _____

Evaluation

Evaluation by office (if applicable): Clear Name, Signature and Date (yymmdd): _____

Comments on Evaluation by office: _____

Review

Review by office: Clear Name, Signature and Date (yymmdd): _____

Comments on Review by office: _____

The certification decision is made by signing and dating the corresponding IMCI certificate