

DOKMAR MARITIME PUBLISHERS B.V.

# SHIP KNOWLEDGE

SHIP DESIGN, CONSTRUCTION AND OPERATION

KLAAS VAN DOKKUM



**DOK  
MAR**

6<sup>TH</sup> EDITION

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WWW.DOKMAR.COM



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# ACKNOWLEDGEMENTS

**I stand in great debt to the following persons for their invaluable cooperation in realizing this sixth edition:**

- Mr J.H. ten Katen, retired ship repairer and ex Lloyd's Surveyor, for his rich experience in the shipping industry and his textual contributions in plain, simple wording. He expertly provided corrections and added much supplementary material, as well.
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**The following persons, authorities each in their field, supplied the following chapters:**

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| Chapter 4               | Arie Stuurman     | Naval Architect     |
|                         | Guus van der Bles | Naval Architect     |
| Chapter 6 part 7        | Hans ten Katen    | Naval Architect     |
| Chapter 11 part 1 and 2 | Hans ten Katen    | Naval Architect     |
| Chapter 13              | René Borstlap     | Electrical Engineer |
| Chapter 16 part 4       | Herbert Koelman   | Naval Architect     |

## Translation:

- Carmen Koenen-Loos, The Netherlands
- Michel Wijnhold, The Netherlands

## Textual corrections and proof readings:

- Carol Conover, The Netherlands
- Mike Cooke-Yarborough, Naval Architect, UK
- Mimi Kuyper- Heeres, Senior lecturer Nautical English M.I.W.B. Terschelling, The Netherlands
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# 1

## SHIPWISE

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## 1 Introduction

This chapter shows some isometric views of ships. All visible parts and spaces are numbered and named. This is meant as an introduction to different types of ships and can be used as a reference for the following chapters.

## 2 Multi-purpose ship

1. Rudder
2. Propeller
3. Main engine with gearbox and shaft generator
4. CO<sub>2</sub> bottles in CO<sub>2</sub> room
5. Man overboard boat (MOB)
6. Free fall lifeboat
7. Crane for MOB, lifeboat, life raft and provisions.
8. Funnel with all exhaust pipes
9. Rear mast with navigation lights
10. Mast table with radar scanners
11. Top deck with magnetic compass and search light
12. Accommodation
13. Hatch stacking crane
14. Heavy fuel oil tank
15. Bulk cargo
16. Vertical bulkhead or pontoon
17. Heavy cargo, steel coils
18. Project cargo
19. Horizontal decks or hatch covers
20. General cargo, rolls of paper
21. Sheer strake
22. Hold fan exhausts
23. Fixed bulkhead
24. Container pedestal
25. Tank top, max. load 15 t/m<sup>2</sup>
26. Containers, 1 bay, 5 rows, 3 tiers
27. Vertical bulkhead or pontoon
28. Hatch coaming
29. Wing tank (ballast)
30. Bulk cargo
31. Gangway
32. Stacked hatches
33. Foremast with forward steaming light
34. Breakwater
35. Anchor windlass
36. Collision bulkhead
37. Deep tank
38. Bow thruster in tube
39. Bulbous bow and forepeak tank
40. Port side
41. Starboard side

