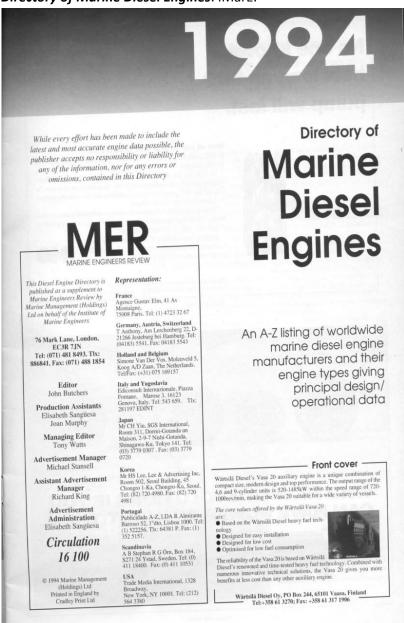
## Marine Technology Special Collection, Newcastle University

## **Trade Directories: Examples**

For a list of holdings of trade directories please visit the Collection's website for **Search Collection** then **Trade Directories**.

• Directory of Marine Diesel Engines. IMarE.



Diesel Directory

3

Four-stroke and two-stroke engine designers can look back on a year of progress in refining performance and reliability, and forward to a more rewarding marketplace for propulsion and genset drives.

## Medium and high speed

n the large medium speed engine sector GMT's ageing 550mm bore design was rejuvenated by an upgrading which exploits the rotating-piston concept hitherto unique to New Sulzer Diesel's ZA40S series and its predecessors. The technology transfer was smoothed by the Italian company's longstanding relationship with Sulzer and the fact that its parent Fincantieri group shares majority ownership of the Swiss-based designer/licensor with Germany's Bremer Vulkan.

The resulting A55 model has a longer stroke (680mm), improved fuel economy and an 8% increase in output to 1250kW (1700bhp) per cylinder at 425rev/min. The re-design also sought simplified maintenance procedures and higher reliability. The series, which is considered particularly attractive for ferries and cruise ships, is available in 6L to V18-cylinder versions to span an output band from 7500 to 22 500kW (10 200 to 30 600bhp).

The mid-bore medium speed engine arena is contested by a new contender, last year

seeing the launch of the long-gestating replacement for Stork-Wärtsilä Diesel's TM410 engine. The Dutch company's new SW38 design filled a gap in the Finnish parent group's highly successful four-stroke portfolio, slotting between the Vasa 32 and Vasa 46 series.

The 380mm bore/475mm stroke engine logged a debut contract from Wagenborg Shipping as the propulsion plant for a 9000dwt multi-purpose cargo vessel newbuilding. The SW38 design is initially rated to deliver 660kW (900bhp) per cylinder at 600rev/min. An output range from 3960 to 11 880kW (5385 to 16 155bhp) is thus covered by 6L to V18-cylinder models.

An impressively short and low engine profile aims to maximise net cargo-carrying capacity in newbuilding projects, while the reduced weight of the machinery installation fosters a lighter and lower cost hull structure.

The adoption of a new combustion philosophy was facilitated by the high stroke/bore ratio of 1.25:1, a maximum cylinder pressure of up to 210 bar, and a maximum fuel injection pressure of 1500 bar. Such parameters, the

designer explains, underwrite the flexibility to select a compression ratio, injection timing and injection rate achieving the desired noxious emission values: NOx reductions of 50-70% are reportedly possible without compromising fuel consumption.

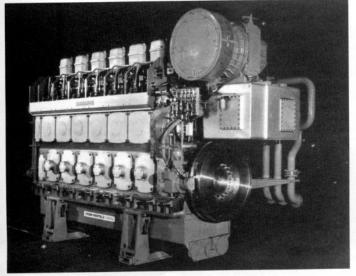
Key contributions are made by a completely new fuel injection system and the combustion chamber design. The claimed ability of the engine to meet future NOx emission limits without a catalytic converter installation should be of special interest to coastal operators.

The Norwegian member of Wärtsilä Diesel's extended family, Wärtsilä Wichmann Diesel, has been renamed Wärtsilä Propulsion AS. The company is a specialist in supplying complete packages embracing Vasa engines, gearboxes, propellers, nozzles and control systems. It also continues to offer its own-design Wichmann 28 engine.

Sales of Wärtsilä Diesel's Vasa 46 engine topped the 100 mark in 1993, new orders including 10x12-cyl models for two large diesel-electric cruise liners booked at Chantiers de l'Atlantique by RCCL. Four 8-cyl models were specified for the diesel-electric plant of a 125 000dwt North Sea shuttle tanker building at Samsung for Conoco.

The breadth of the Wärtsilä Diesel family's in-house four-stroke portfolio is such that its longstanding SEMT-Pielstick enginebuilding licence has not been renewed. The French-based licensor will now take over the associated after-sales service business, spares stocks and former market responsibilities of the Finnish group.

Large Japanese longhaul coastal passenger/vehicle ferries continue to favour SEMT-Pielstick's most powerful medium speed design, the 570mm bore PC4.2 series. A pair of

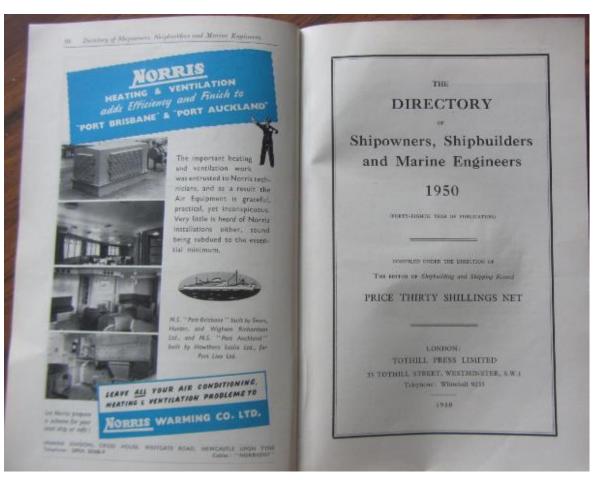


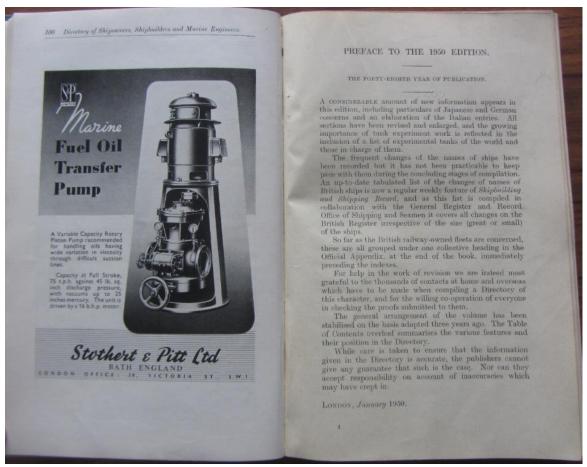


Stork Wärtsilä Diesel's new SW38 — the replacement for the TM410 — is designed as a very low NOx emission engine

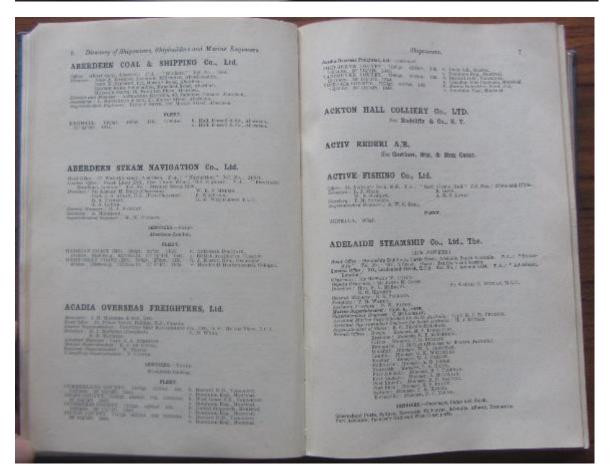
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Directory of Shipowners, Shipbuilders and Marine Engineers.

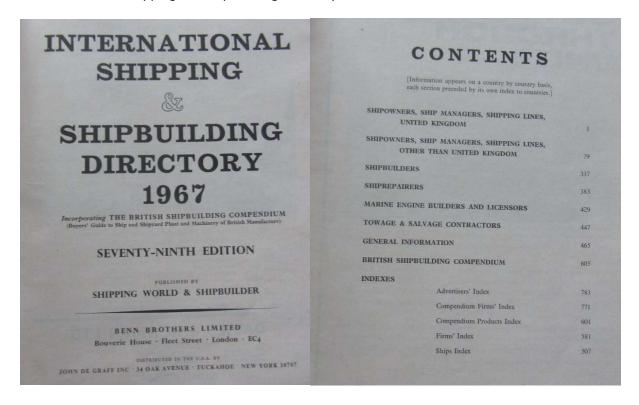


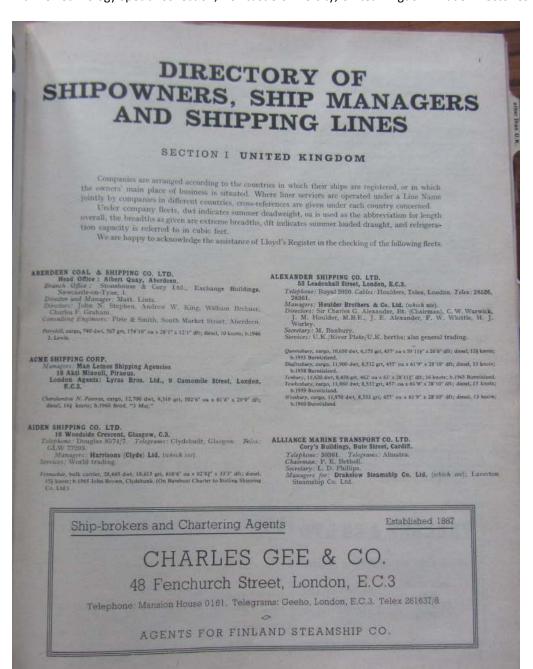


			Contents.	3
			Shipowners' Section	PAGE 5-501
			Names of Shipowners, Directors or Partners, Marine	
CONTENTS			Superintendents, Superintending Engineers, &c., together with the Fleets and the Builders of the respective Hulls and Machinery.	
Preface	P	AGH	Shipbuilders', Ship-repairers' and Marine Engine Builders'	POST HAR
	4, 502,	100	Section	502-616
Abbreviations			and Dry Dock Owners, including Names of Companies.	
Classification Societies			Directors or Partners and principal Officials, Capacities of Shipyards and Engine Works and Dry Docking facilities.	
American Bureau of Shipping		676	Consulting Naval Architects, Marine Engineers and Ship	
Bureau Veritas			Surveyors	647-657
Lleyd's Register of Shipping  Norske Veritas, Det			Organisations - Trade, Technical, Educational, &c	658-671
			Experiment Tauks	675
Registro Italiano Navale R.I.N.A.  Teikoku Kaiji Kvokai (Imperial Japanese Ma			Index to Names of Ships	729-783
			Index to Names of Shipowners, Shipbuilders, Ship-repairers	784-807
U.S.S.R. Register of Shipping			and Marine Engine Builders, Alphabetically arranged	808-890
Official Appendix - Government Departments, etc.		728	Index to Telegraphic Addresses	308-820
Cabinet Office		712	General Index—Names of Shipowners, Shipbuilders, Ship- repairers, Marine Engine Builders, Consulting Naval	
Admiralty		719	Architects Marine Engineers and Ship Surveyors,	
Air Ministry		713	Associations and Institutions, &c	
Board of Trade		713	Personal Index to Directors, Partners and Chief Officials of Shipowning, Shipbuilding and Marine Engineering	
Crown Agents for the Colonies		715	Kirms or Companies Consulting Naval Architects	
Ministry of Transport		115	Marine Engineers and Ship Surveyors, Personnel o Associations and Institutions, &c.	847-880
Shipbuilding Advisory Committee			Index to Advertisers Advt. page	
Bratish Transport Commission			Index to Advertisers	
British Raifways (Raifway Executive)				
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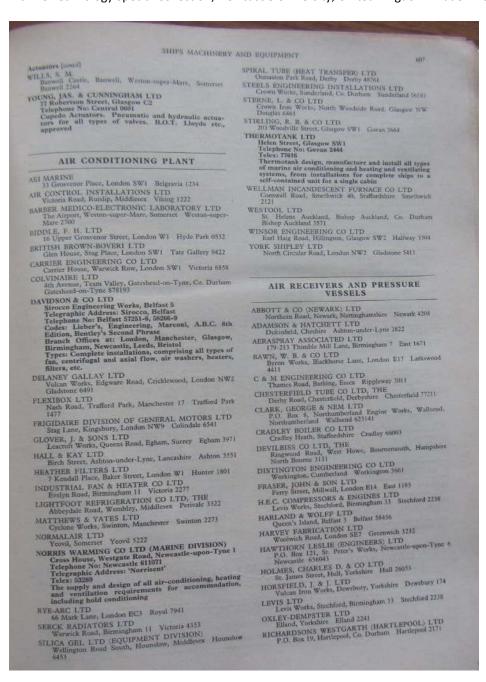


• International Shipping and Shipbuilding Directory



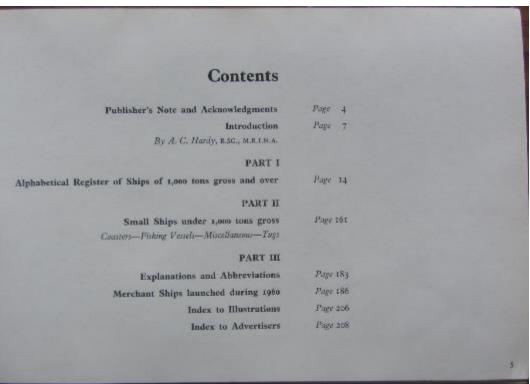


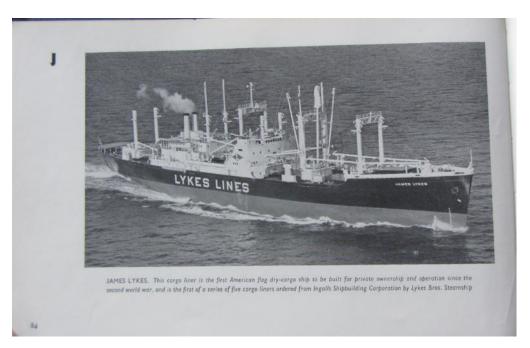
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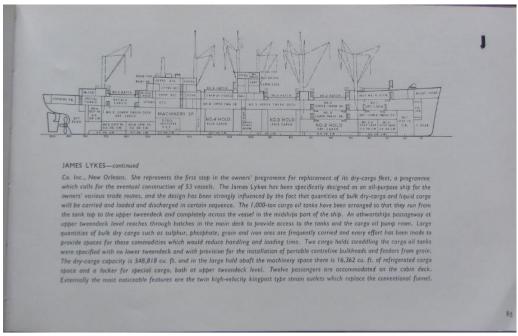


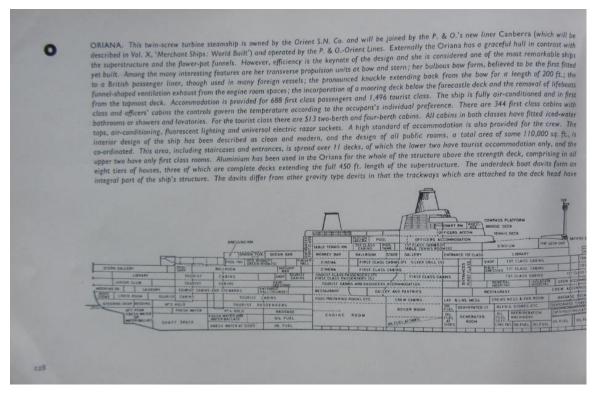
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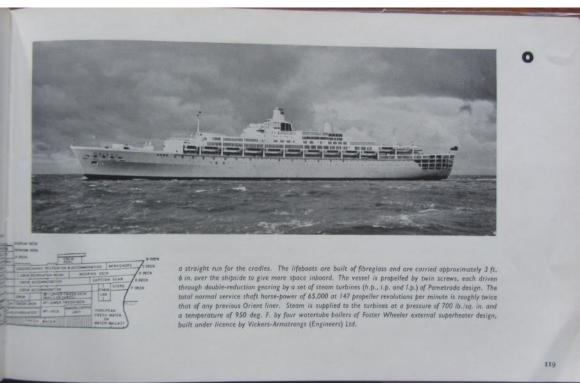




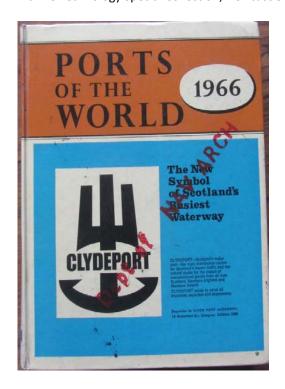


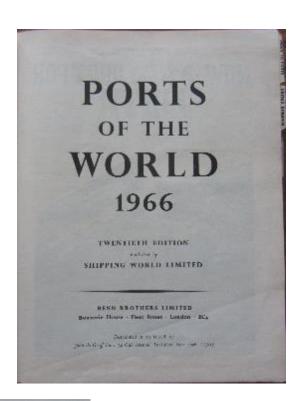






## Ports of the World





# PREFACE TO THE 1966 EDITION

HAVING, over the past two years, stalnlised the format of Perts of the Werld so that the book forms a convenient companion volume to its sister-publication International Shipping and Shiphiniding Directory, we have in this 1966 edition initiated a standardised form of entry. The aim is to present wider information in a logical sequence port-by-port, and a start has been made by dealing with U.K. ports on this basis. In future issues it will be extended to overseas ports, thus enormously assisting readers in ascertaining the precise details they may be seeking at any given time.

Inevitably the book is bigger than it has ever been before, and this expansion is bound to go on. In the developing countries alone many new ports, both large and small, come into existence each year, and our aim is as much to keep pace with this progress as to reflect change and replanning in the port facilities of the established maritime countries.

We are grateful for the ready co-operation of the many authorities and companies concerned in making prompt returns. It is gratifying to note that the number of ports which have previously had to be marked with an asterisk, as not having recently submitted revised information, has this year been considerably reduced. We shall make every endeavour to ensure that this trend is continued.

The success of this careful planning is reflected in the increasing demand for the book. The last edition had sold out within three months of publication. Steps have been taken for adequate supplies again to be available this year, but where extra copies are required readers are strongly urged to make prompt reservations.

June 1966

THE EDITOR

Bouverie House, 154 FLEET STREET, LONDON, E.C.4

## ABERDOUR, Fifeshire

Lat. 56° 4' N.; long. 3° 19' W. N. side of Firth of Forth, bout 5 miles N.W. of Edinburgh. No commercial trade. Authority—Aberdour Ratepayers Association Harbour Com-

Accommodation Wooden pier 250 ft. long, with jetty in discreasi, carried out to 4 ft. L.W.S.T., 16 ft. water at H.W.S.T., ftr, I.W. Vessels making use of the harbour do so at their own risk. Neaps rise, 10 ft. sk. Neaps rise, 10 ft.
Official - Local Factor, W. E. Crowe.

## ABERDOVEY, Merionethshire

ABERDOVEY, Merionethshire

Lat. 62° 33' N; long. 4° 2' W.

Accommodation—Pier 367 ft. carried out to 12 ft. L.W.S.T., and a wharf 365 ft. long. Vessels use pier and wharf at own risk, and no specified depth is guaranteed. Railway alongside. D. on bar 3 ft. 6 in. L.W.S.T., and 19 ft. H.W.S.T., but is subject to frequent alteration. The port is used by vessels up to about 800 tons. W—Prev. N.E. to S.W., and most dangerous S. to S.W. Charges—Moorage of vessels, 1½d. per ton reg.; slates, coal, bricks, iron, 3½d. per ton; timber, grain, flour, cotton, wood, petroleum and general merchandise, 6d. per ton actual weight.

Pilotage—C. Towage—As per arrangement.

Officials—Harb. Master, J. L. Jones; Coll. of Customs, E. Adams, Aberystwyth.

Adams, Aberystwyth.

## ALDERNEY, Channel Islands

ALDERNEY, Channel Islands

Lat. 49° 43' N.: Long. 2° 12' W.

Accommodation—Depth at entrance 12 ft. L.W.S.T.; R. of T.

17½ ft. springs, 12½ ft. neaps. Harbours are at Bray and Crabby.
Both are dry at L.W. W—prev. are easterly, but the most dangerous are those from E.N.E. leading into harb. The harbour on the north side of the Island is formed by a pier or breakwater 1,600 yds. in length. About 1,600 ft. washed down, no buoy at the end. Area 196 acres. No docks. Depth at breakwater is from 21 ft. inner end to 134 ft. outer end. New pier; four berths, two of 195 ft. long with depths of 7 to 11 ft. and 11 to 18 ft.

Pilotago—C.

Traffic Arrivals, 1964, 248 ships of 34,615 n.r.t.; 6,648 tons are in and 8,877 tons out.

Airport Alderney Airport, about 1½ miles from harbour.

Local Holidays—include New Year's Day.

Officials—Harbour Master (Tel. 20), Customs Officer, Lloyd's Sub-Agent, Capt. A. D. Jennings

## AMBLE, Northumberland (See Warkworth Harbour)

## AMLWCH, Anglesey

Lat. 53° 25' N; long. 4° 36' W.

Authority—Urban District Council.

Accommodation—A tidal harb. excavated from solid rock, can contain about fifteen vessels of 200 tons each. Used by coasters up to 600 tons. Berths for about six vessels. Depth in harbour 16 ft.

H.W.S.T.; 9 ft. H.W.N.T.

Official—Clerk of the Council, E. Ditton Jones.

## ANNALONG, Co. Down, N. Ireland

Lat. 54° 6′ N; long. 5° 51′ W.

Authority—Down County Council, Courthouse, Downpatrick.

Accommodation—Area of harb, about 1 rood 16 perches.

Depth H.W.S.T. Ilft. 6 in. H.W.N.T. 8 ft. Dries at threequarters ebb. Used by fishing boats of 9 ft. dft, and local vessels

loading dressed granite. Quay frontage, 609 ft. Breakwater
on S. side of entrance, 150 ft. long. 24 ft. wide. LV.—230 tons.

Official—Harb. Master, James Heaney.

## ANNAN, Dumfriesshire

Lat. 54° 57' N; long, 3° 16' W. Authority—Annan Harbour Trust.

Accommodation — A good harbour, dry at L.W., 15 ft. H.W.S.T. own's Quay, 13 ft. H.W.S.T.; Newbic Quay, 15 ft. Charges — Dues: Boats 2d. per ton; cargo 6d. per-ton. Pilotage Sillah.

see Silloth.

Traffic Arrivals, 1964-65, 3 ships of 583 n.r.t.; no cargo wards; 180 tons out.

Officials Clerk to Trust, Alec Knox; Coll. of Dues, Thomas

ANSTRUTHER, Fife

Lat. 56° 13' N; long. 2° 42' W.

Authority—Commissioners of Anstruther Union Harbour.

Accommodation—New harbour has an area of 7 acres. Depth
15 ft. at H.W.S.T. Old harbour has an area of 6 g acres; dry at
L.W.S.T. E. Pier (masonry) 930 ft. long. W, pier is about 1,250 ft.
long. Quayage about 3,810 ft. Used by sailing vessels and isshing
boats. S.T. 16 ft, at entrance, 15 ft. at inner harbour. W—Prev.

W, most dangerous S.E. to N.E.
Charges—Harb. dues; from 2½d. to 6d. per reg. ton.

Pilotage—2½d. per n.r.t.
Officials—Clerk, Frank Patterson; Harb. Master and Collector
of Dues, R. Legg.

APPLEDORE, Devonshire

Lat. 51° 5' N; long. 4° 12' W.

Authority—Free harbour,
Accommodation—Tidal harbour, area four acres. Depth on bar
28 to 32 ft. H.W.O.S.T., 18 ft. H.W.O.N.T. Depth in harbour
H.W.O.S.T., 30 ft., L.W. 12 ft. Appledore Public Quay, 750 ft.
long, available for ships drawing 14 ft. at H.W. Bitha Wharf
is now disused. Middle Dock Wharf suitable for ships up to 500

mow distinct. Middle Dock What suitable bit single up to some on spring tides.

Bunkers—by road tankers.

Repairs—Two drydocks, Richmond (312 ft.) and New Quay (200 ft.). Shiprepairs by Appledore Shipbuilders Ltd. (Tel. Bideford 3281).

Bideford 3281).

Charges—as at Bideford, q.v.

Pilotag)—According to Trinity House Scale.

Officials—(Hon.) Harb. Master, Capt. W. J. Harris; Lloyd's

Sub-Agents, Wm. Harris & Son, The Quay.

Ports of the World Correspondent: William Hobbs & Co.,

Shipbrokers, 12 Myrtle St., Appledore, Devon. Tel. Address:

Torships. Tel. Bideford 3806.

ARBROATH, Angus

Lat. 56° 33′ 16° N. olng. 2° 35′ 6′ W.

Authority Arbroath Town Council.

Accommodation—Outer harb., area 3\(\frac{3}{2}\) acres. Depth at entrance H.W.S.T. 15 ft. Length of quayage, 1.480 ft. Aiso outer basin between outer harb. and entrance jetty. Wet Dock: 2\(\frac{1}{2}\) acres, length 420 ft., width 260 ft. Quayage, 1.300 ft. Length of entrance 70 ft. Depth of water over sill at H.W. highest springs, 16 ft. Patent shpway 400 ft. long (length of cradle 107 ft.); lifting power 250 tons. A lifeboat station. R. of T. 14 ft. springs, 11 ft. neaps. Depth on bar 3 ft. L.W.O.S.T., 6 ft. N.T. W—Prev. are W. and S.W.; most dangerous from S.E. LV.—Steamer Petersburgh 1.090 tons. Port approx. midway between Dundee and Montrose. Harbour bar \(\frac{1}{2}\) mile S.E. of Piers (3 ft. L.W.S.). Brick transit shed 160 ft. by 30 ft. Wooden shed 90 ft. by 30ft. Loading and unloading, using ship's gear except barrows and shutes for potatoes and grain.

and grain.

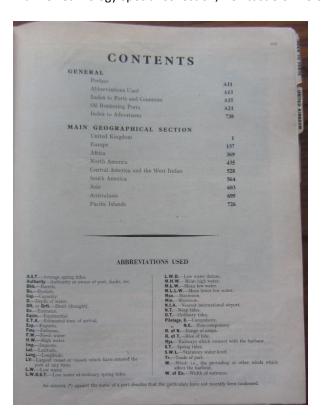
Bunkers—Oil berth (Diesel) outer harbour.

Shiprepairs—Boat building and repair yard.

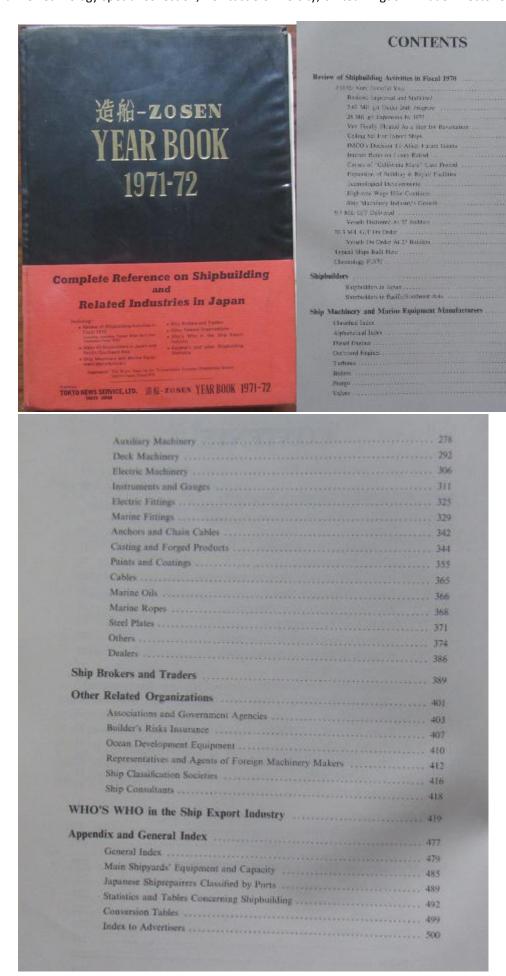
Charges—Harb. dues: all vessels to or from foreign ports, 9d, per ton reg.; to or from other ports in Gt. Britain, Ireland. Channel Is, and I. of Man, 4½d. per ton reg.; ateam vessels carrying passengers and their luggage exclusively, 3d. per ton reg. Harb. lights and police, 1½d. per reg. ton. Plankage, 1/6 to 9/9d. per vessel.

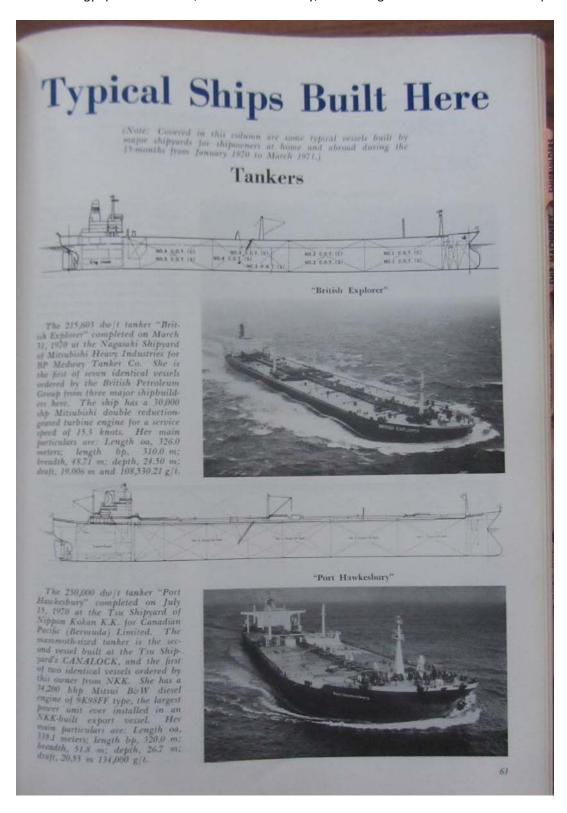
Pilotage—C. Pilots are licensed for the harb. only. Rates—6d. per ton. In addition rates are levied for the pilot master's salary, viz.: (examples only) 100 to 150 tons, 3/9; 250 to 300 tons, 6/-; 350 to 400 tons, 8/3; over 400 tons, 9/9.

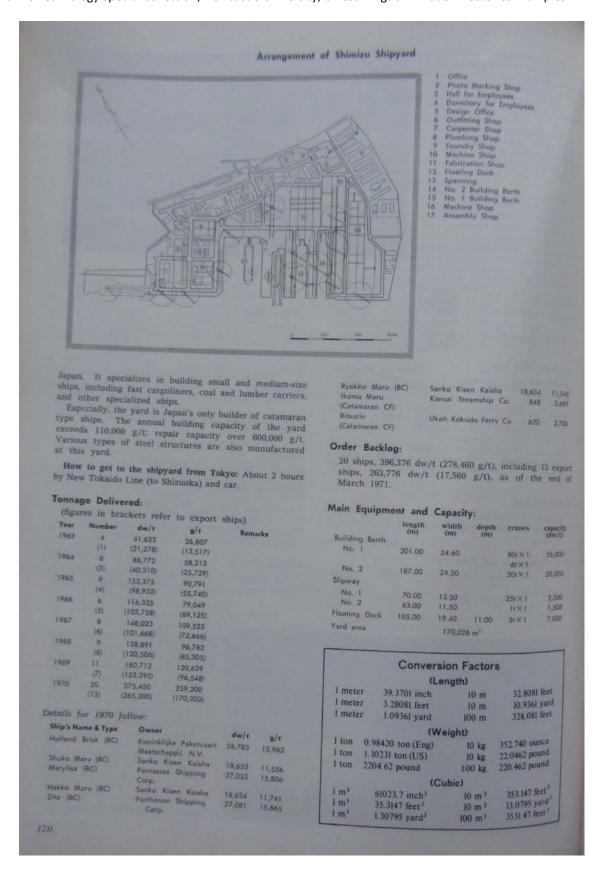
Marine Technology Special Collection, Newcastle University, United Kingdom. Trade Directories Examples



• Zosen Yearbook







## How to contact the Collection:

Marine Technology Special Collection, Newcastle University, United Kingdom. Trade Directories Examples

The Marine Technology Special Collection Newcastle University Room 3.32 Armstrong Building Queen Victoria Road Newcastle upon Tyne NE1 7RU

United Kingdom

Email: marine.archive@newcastle.ac.uk

**Telephone:** +44 (0) 191 20 83522 or 86718 (Enquiries)

**URL:** 

www.ncl.ac.uk/marine/facilities/specialcollection/