



Product Catalogue for

PURSE SEINERS



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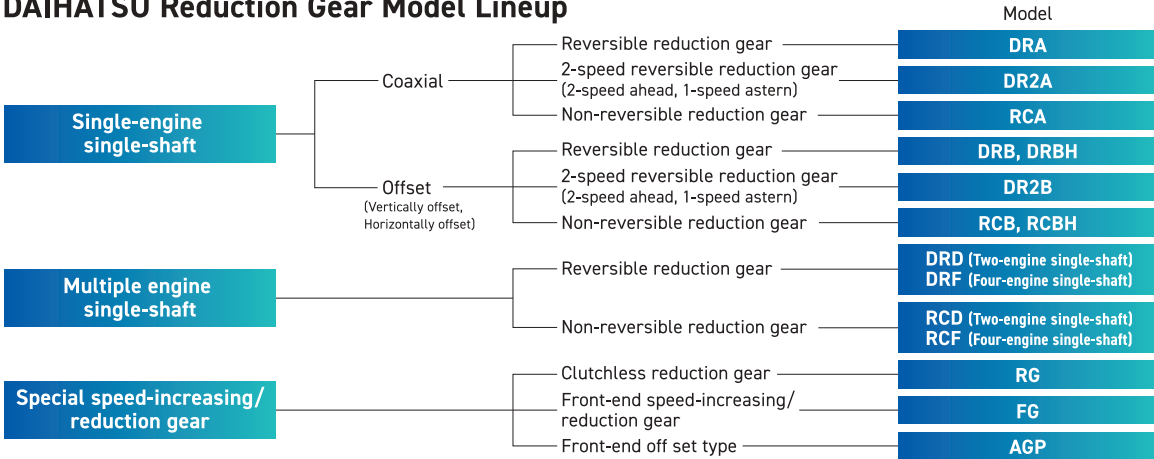
Marine Propulsion Engines



Output

Model		500	1000	1500	2000	2500	3000	3500	4000	4500	5000 (kWm)
6DEM-23	750min ⁻¹			950~1200kWm(1290~1630PS)/750min ⁻¹							
	900min ⁻¹			1180~1440kWm(1600~1955PS)/900min ⁻¹							
6DKM-26e				1330~1820kWm(1805~2470PS)/750min ⁻¹							
6DEM-28				1850~2240kWm (2515~3045PS)/750min ⁻¹							
8DKM-28e				2360~2880kWm(3205~3915PS)/750min ⁻¹							
6DCM-32e				2500~2900kWm(3395~3940PS)/750min ⁻¹							
6DKM-36e				2950~3500kWm(4010~4755PS)/600min ⁻¹							
8DCM-32e				2900~3860kWm(3940~5240PS)/750min ⁻¹							
8DKM-36e				4400~4650kWm(5980~6320PS)/600min ⁻¹							

DAIHATSU Reduction Gear Model Lineup



DRA-80F



DRB-25J

Diesel Gensets
Auxiliary Engines



DE-18

Engine speed	min ⁻¹	720	750	900
Engine output	kWm	375~700	375~700	400~860
Generator output	kWe	340~650	340~650	370~810
Fuel oil		MDO~up to 700mm ² /s/50°C HFO		
Cylinder bore	mm	185		
Piston stroke	mm	280		
Number of cylinders		6		
Pme	MPa	2.54		
Piston speed	m/sec	6.72	7.00	8.40

The generator output values above are for reference only. They may vary depending on the generator specifications.



DE-20

Engine speed	min ⁻¹	900
Engine output	kWm	811~1090
Generator output	kWe	750~1030
Fuel oil		MDO~up to 700mm ² /s/50°C HFO
Cylinder bore	mm	205
Piston stroke	mm	300
Number of cylinders		6
Pme	MPa	2.45
Piston speed	m/sec	9.00

The generator output values above are for reference only. They may vary depending on the generator specifications.



DE-23

Engine speed	min ⁻¹	750	900
Engine output	kWm	800~1280	1000~1516
Generator output	kWe	740~1210	930~1440
Fuel oil		MDO~up to 700mm ² /s/50°C HFO	
Cylinder bore	mm	230	
Piston stroke	mm	320	
Number of cylinders		6	
Pme	MPa	2.53	
Piston speed	m/sec	8.00	9.60

The generator output values above are for reference only. They may vary depending on the generator specifications.

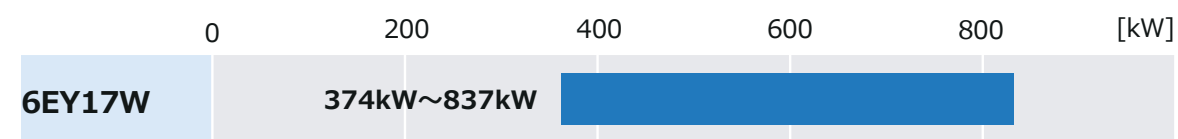
YANMAR Marine Engines For Fishing Vessels

For Large Workboats on Purse Seiners

Propulsion Engine



6EY17W



For Small Workboat on Purse Seiners

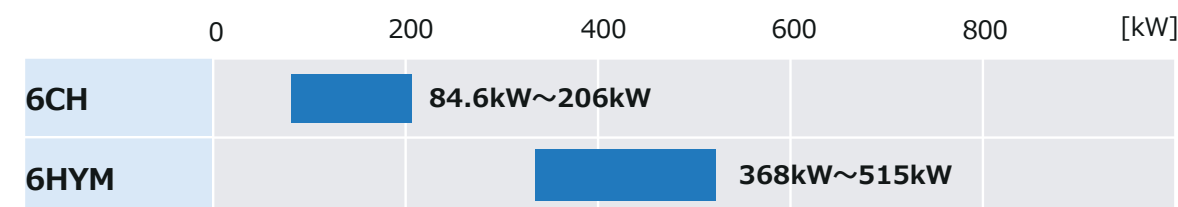
Propulsion Engine



6CH



6HYM



YANMAR POWER SOLUTIONS CO., LTD.

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YANMAR Marine Engines For Fishing Vessels

We develop reliable diesel engines that have good durability.
Our technology enables great economic efficiency and environmental performance.

For Purse Seiners

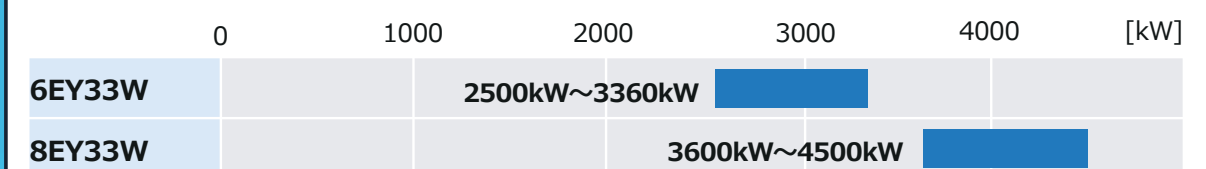
Propulsion Engine



6EY33W



8EY33W



Generator Engine



12AYL



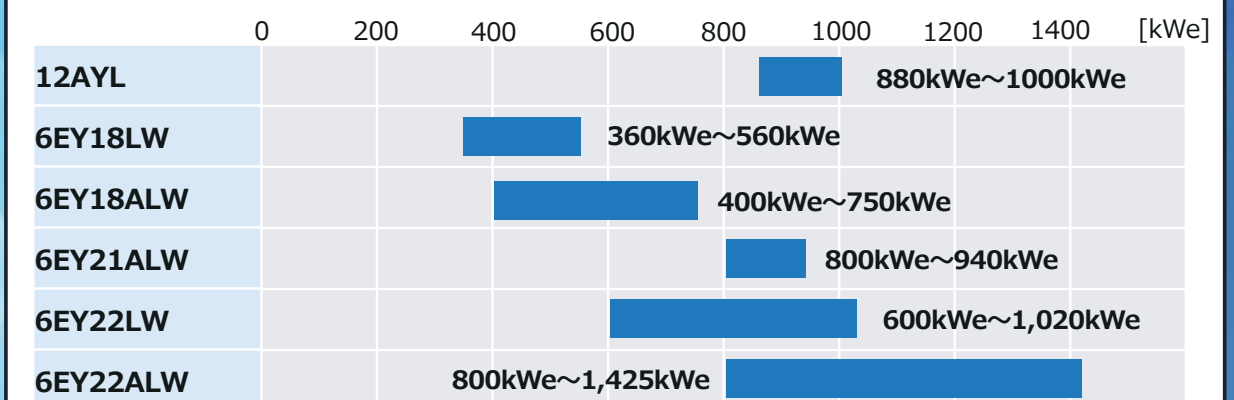
6EY18(A)LW



6EY21ALW



6EY22(A)LW



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Thin-walled plain bearings specialized in alloy bearings such as copper alloys and white metal.

From design and development to manufacturing, we provide high-standard, high-quality bearings through in-house integrated production.

Applicable fields :

From special environments (high speeds and high temperatures) in chemical plants to marine engines and reducers. Can be used in a wide range of fields, including high-load, high-durability bearings used in

Since its establishment in 1905, we have specialized in plain bearings focused on alloy bearings such as copper alloys and white metal. We have a proven track record of supplying to various fields, including marine vessels, industrial machinery, and chemical plants. In particular, we excel in the manufacturing of thin-walled plain bearings, which are rare in Japan.



centrifugal casting



precision machining



correction/correction



plating process



Micro analysis
component analysis



thin wall plain bearing

We propose the optimal bearing based on performance requirements and operating conditions. To ensure that the bearing functions in the best condition without trouble, we excel in the design and manufacturing of thin-walled plain bearings (thickness from 2 mm), which require advanced expertise backed by proven experience. This includes setting the optimal oil film thickness, a crucial factor for plain bearings, and determining the assembly conditions necessary for reliable operation.



Isodametal Co., Ltd.

WEB: <https://www.isodametal.co.jp/>

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KAMOME Fixed Pitch Propeller

KAMOME Fixed Pitch Propeller



Details

Fixed Pitch Propeller (FPP) has been developed since 1924 when the company was founded. For 100 years since then, Kamome has been researching and developing continuously for all of the technical features such as designing, analyzing system and production etc. supported by a lot of customers' satisfaction and reliability.

Kamome continues to strengthen its position for getting more customers' satisfaction by developing more varieties and better features of FPP in accordance with future requirements for the next generation.



KAMOME
PROPELLER

Kamome Propeller Co., Ltd.

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KAMOME

Controllable Pitch Propeller A-Type Series

Medium and Small type CPP



CPC-80A Type CPP for 1,500kW



Details

- KAMOME CPP have developed in 1961 by our original techniques.
- CPC-A type series are mainly applied for medium and small ships and propeller hub is fore and aft split type.

Features

- Supported by our extensive experience, it is simple but solid construction and easy operation and maintenance.
- An original control system is adopted for keeping ship's operating efficiency as the largest condition.
- Continuous investigation of the propeller efficiency and anti-vibration/noise promise you safe and comfortable sailing.



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KAMOME

Controllable Pitch Propeller B-Type Series

Medium and large type CPP



CPC-180 Type CPP for 21,650PS



Details

Features

- Since development of our original CPP in 1961, nearly 5,500 units of CPP including A type has been produced and installed in various kinds of vessels, such as Ro-Ro ship, RoPax ferry, Container ship, Tanker, Offshore support vessel, Coast Guard patrol ship, Research ship, not only in Japan but also all over the world.
- The biggest CPP so far delivered is for 21,650PS of Main Engine with propeller diameter of 6,000mm x 125 min⁻¹ for RO-RO Ship servicing in Japan.



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GPX Propeller

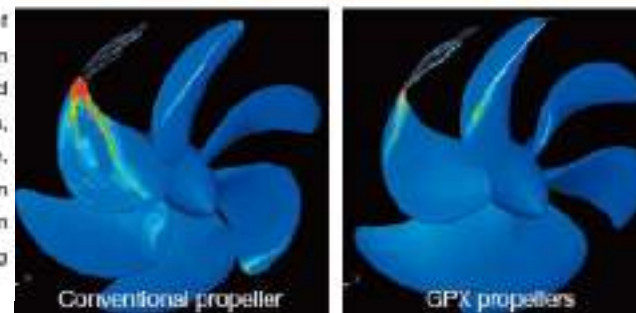
SMALLEST BLADE AREA PROPELLER



Design technology with CFD

Highly accurate cavitation prediction is essential for the design of propellers with minimized blade areas, aimed at reducing fuel consumption and maximizing energy savings. Our large-scale CFD system, equipped with 8,000 cores, enables us to conduct various cavitation simulations, leading to high-performance designs in a short timeframe. Furthermore, while many companies invest significant amount of time and money on model tests during development, we leverage our large-scale CFD system to verify energy saving effects at the scale of the actual ship, ensuring delivery of optimal designs.

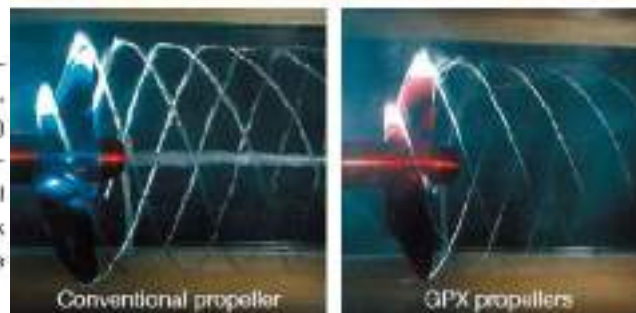
Example of cavitation analysis via CFD



Integration of smallest blade area and NHV technology

The GPX propeller, born from a joint research with the Ministry of Land, Infrastructure, and Transport as part of the latter's greenhouse gas (GHG) reduction project, integrates minimized blade area with NHV (non-hub-vortex) technology further improves the performance by reducing frictional resistance through minimizing the blade area and utilizing the hub vortex recovery effect of NHV technology, which separates our GPX propellers apart from conventional ones.

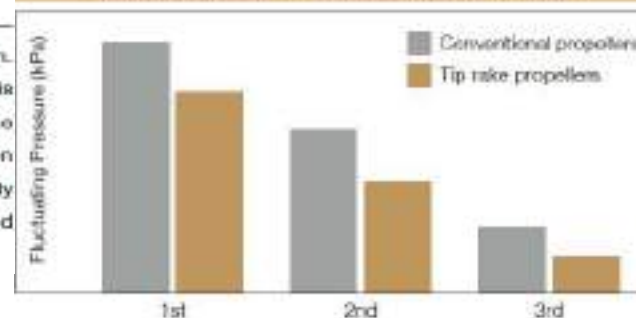
Propeller hub vortex cavitation comparison



Tip rake for cavitation reduction

Generally, a reduction in the propeller blade area increases cavitation. However, the GPX propeller, with its tip rake design, overturns this conventional wisdom. The tip rake, which is the angle formed by the locally curved tip of the blade, suppresses cavitation, reducing erosion risk and pressure fluctuations. Our tip rake technology simultaneously achieves the generally contradictory phenomena of a small blade area and improved cavitation performance.

Measured pressure fluctuations from model tests



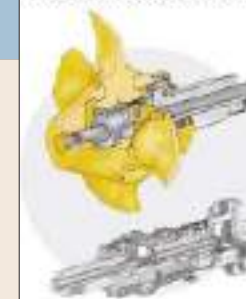
NAKASHIMA
We Go Beyond

Controllable-pitch propeller

CONTROLLABLE PITCH PROPELLER

MODEL XS

Medium and small vessels



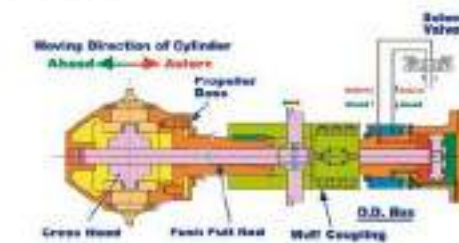
MODEL XL

Large vessels



This type is mainly used in small and medium vessels. The hydraulic cylinder controlling the blade angle is in the intermediate shaft on the inboard side of the vessel. The oil from the pump of the hydraulic unit enters the oil distribution (OD) box of the cylinder shaft through a solenoid valve. When the pitch control handle is moved, a signal is produced and pressure oil enters the cylinder from the OD box via a pilot check valve, pushing the piston. Movement of piston is transmitted to the crosshead via the push-pull rod, which modulates the blade. This simple construction reduces maintenance costs. The inside of the hub is lubricated using grease, eliminating the possibility of oil leakage from the inside of the hub and thus any risk of environmental pollution.

[Schematic diagram]



This type is mainly used in large vessels. The hydraulic cylinder controlling the angle of rotation is installed inside the propeller hub on the outside of the vessel. The hydraulic cylinder moves the propeller blades directly to change their angle. As no spindle torque acts on the OT Tube, OT Tube will not be deformed and the accuracy of blade angle control is superior to that of rod systems. Furthermore, the use of proportional control valves ensures smooth, accurate blade angle control, even minute blade angle control, such as Auto Load Control. The machine is equipped with a double hydraulic system consisting of normal and emergency control valves and pumps for main and auxiliary use.

[Schematic diagram]



What is a controllable-pitch propeller?

This propeller facilitates forward, stop, and backward movements by finely controlling the blade angle. In combination with side thrusters, this propeller facilitates smooth entry/exit and berthing/unberthing operations, which require frequent changes in vessel speed. It can also instantly respond to emergency stops, from ahead max to astern max. Blade angle adjustment allows the vessel speed to be adjusted flexibly while keeping the engine running at the most efficient load, thus reducing fuel consumption and nitrogen oxide emissions. Because of these advantages, controllable-pitch propellers are widely used in a wide variety of vessels, including fishing vessels, tankers, ferries, and tugboats. A unique design method derived from our know-how on fixed-pitch propellers is used to determine the optimal pitch and camber distributions, resulting in a highly efficient propeller. The blade cross section is shaped to facilitate a flat pressure distribution on the propeller surface, thereby improving cavitation performance.

NAKASHIMA
We Go Beyond

KAMOME SIDE THRUSTER TCB-Type Series / TFA -Type Series

Excellent performance and high reliability have been realized through the delivery of more than 4,500 units since 1960.

TCB-Type Series CPP-Type Thruster



Features

- Employing thicker duct plate and newly developed propeller have achieved less noise and vibration, which ensures a comfortable living environment on board.
- For easy operation, KTC100 Control System has been equipped as a standard accessory.
- Tough and rational structural design based on tank test has accomplished superior strength and durability and easy maintenance.

TFA-Type Series Fixed Pitch Propeller Type Thruster



Features

- Superior strength
- Less noise and vibration
- Easy installation and periodical inspection
- Various type of driving



TCB-type details



TFA-type details



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Tunnel thruster

TRANSVERSE THRUSTER

MODEL NT-F Fixed pitch thruster

Propeller diameter: 282 ~ 3,150 mm
Input power: 18 ~ 3,800 kW



MODEL NT-C Controllable pitch thruster

Propeller diameter: 100 ~ 3,150 mm
Input power: 18 ~ 3,800 kW



Powerful thrusters with improved thrust

The optimal blade shape for the thruster was selected from numerous design shapes using analysis technology based on a large-scale CFD system developed. The result is a compact, powerful thruster whose nominal thrust is approximately 20% greater than those of our previous products. The compact design not only allows for greater freedom of placement, but also enables the thrusters to be positioned further forward of the hull, which increases the turning moment of the hull and helps improve maneuverability. The small tunnel bore also helps reduced hull resistance.

Reliable construction based on a proven track record

Since 1976, when the company started manufacturing tunnel thrusters, it has been consistently developing, manufacturing and marketing highly reliable high-performance thrusters, with more than 7,000 units having been adopted. The knowledge we have developed on the basis of our experience in manufacturing numerous products has enabled us to create highly reliable thrusters. Our thrusters can be used safely as thruster operation systems, such as peripheral equipment.

• We have simple and robust units for both controllable pitch and fixed pitch types. The thruster body can be taken from hull easily, facilitating maintenance and inspection on-shore.

• The propeller shaft seals is of the same type as the main propulsion stem tube seal. Biodegradable oil (BLO) can be used to comply with the US Environmental Protection Agency's Vessel General Permit. The hydraulic and lubricating oils used for blade angle control are used together, and are thus easy to manage.

• The standard header tank for controllable pitch thrusters are fitted with a high-performance filter to keep the lubricating oil and controllable pitch hydraulic oil clean.

• The remote control unit of the controllable pitch thruster is equipped with a liquid crystal display (LCD) screen, enabling centralized control of a substantial amount of information. Operators can use the console stand on the ship's bridge to circum. It is used to recognize the status of the thruster system, including peripheral equipment, and maintain safe operation.

• Service agencies offering maintenance and after-sales support can be found in Asia, the Middle East, Europe, Africa, North America and South America.

NAKASHIMA
We Go Beyond

Optimal response to every requirement

Special propeller shapes have been developed for considerate underwater noise, such as research vessels, to reduce such noise. A special seal enables thruster operation without usage restrictions, even in the presence of a large draft difference during operation, such as in heavy-lift vessels. We can provide optimal designs based on our experience with all types of vessels. Special wing thruster.



Special propeller shape thruster

Product range

MODEL NT-F Fixed pitch thruster

Thruster Model	Input Power(kW)
TFN-15S	27
TFN-25S	45
TFN-50S	57
TFN-75S	83
NT-F005	140
NT-F007	215
NT-F010	285
NT-F020	385
NT-F030	520
NT-F040	670
NT-F050	830
NT-F060	1,005
NT-F070	1,250
NT-F080	1,500
NT-F090	1,800
NT-F100	2,150
NT-F110	2,500
NT-F120	3,000
NT-F130	3,800

MODEL NT-C Controllable pitch thruster

Thruster Model	Input Power(kW)
TC-70N	115
NT-C010	285
NT-C020	385
NT-C030	520
NT-C040	670
NT-C050	830
NT-C060	1,005
NT-C070	1,250
NT-C080	1,500
NT-C090	1,800
NT-C100	2,150
NT-C110	2,500
NT-C120	3,000
NT-C130	3,800

This image table shows the approximate output of the drive unit when used as an auxiliary propulsion unit (once area, intermittent operation specifications), ship classification, continuous operation specifications and special specifications are considered separately. Please contact us for details. Some models include previous types.

*Outputs are subject to change without notice.

07 Pump >>> Centrifugal Pump model TVS / MSS

TEIKOKU MACHINERY WORKS, LTD.



Teikoku Machinery Works Centrifugal Pump



Model TVS



Model MSS

Pump Model	Specifications(60Hz)				Construction		
	Capacity (m³/h)		Total Head (m)		Vertical or Horizontal	Impeller Stage	Coupling Rigid(R) or Flexible(F)
	Min.	Max.	Min.	Max.			
TVS	30	400	13	67	V	1	R
MSS	2	80	5	65	V/H	1	F

Company Name :	Teikoku Machinery Works, Ltd.
Established :	October 1, 1934
Capital :	6.75 million yen
Business :	General machinery manufacture; Design,manufacture,and sales of pumps for marine vessels
Contact Address:	https://english.teikokupump.co.jp/inquiry/

08 Fresh Water Generator >>> AQUAPET MARK II REVERSE OSMOSIS DESALINATION SYSTEM

SASAKURA ENGINEERING CO.,LTD.



SASAKURA

AQUAPET MARK II REVERSE OSMOSIS DESALINATION SYSTEM



FEATURES

●Highly efficient module

A highly efficient Reverse Osmosis Module is used which is not subject to damage by rust or bacterial attack, thus providing a long service life and continuous troublefree operation.

●Compact construction

The equipment is composed of a pretreatment unit and a desalination unit. This compact unit permits easy installation in locations where the space is limited.

●Easy operation

Freshwater is obtained by the operation of high-pressure pump and a pressure regulating valve. There is little to go wrong and it is simple to operate.

●Unusual desalting capability

The reverse osmosis module is exclusively designed for the removal of organic matter, bacteria and colloids and highly efficient. Freshwater with a salt content of less than 500ppm(TDS) is obtained.



SASAKURA

SASAKURA ENGINEERING CO.,LTD.

7-32, Takejima 4-Chome, Nishiyodogawa-ku,
Osaka. 555-0011, Japan

Tel:+81-6-6473-2134 FAX:+81-6-6473-5540

<https://www.sasakura.co.jp/en>



08 Fresh Water Generator >>> OASIS Fresh Water Generators

SASAKURA ENGINEERING CO.,LTD.

09 Bilge Separator >>> BILGE SEPARATOR PURELIO

SASAKURA ENGINEERING CO.,LTD.

オアシス造水装置 OASIS Fresh Water Generators



オアシス造水装置は、昭和38年に第一号機を発売以来既に7,000台を超える納入実績を有し、漁船、貨物船、官庁船、作業船、その他あらゆる船舶に採用され好評を頂いております。
「オアシスVAシリーズ」は、当社独自の技術と豊富な経験をもとに、さらに高性能化された造水装置です。

Over 7,000 units of these OASIS type fresh water generators have been delivered since they were first commercialized in 1963. They are adopted for a variety of small ship and boats including fishing boats, cargo boats, official ships and work ships and enjoy a high reputation.
The "OASIS VA Series" is an advanced fresh water generator specially developed through SASAKURA's superior technologies and long manufacturing experience.



特徴

1. 据付スペースが少ない
2. 配管、配線が簡単工事負担減
3. 運転操作が安全、簡単
4. 高純度の蒸留水
5. 保守点検が容易な構造
6. 廃熱利用の海、省エネルギー

Features

1. Allows the installation space to be reduced.
2. Facilitates piping and wiring, thus enabling a cost effective installation.
3. Ensures safe and easy operations.
4. Produces a high purity distillate.
5. Built to facilitate the maintenance and inspection.
6. Utilizes the waste heat energy-saving feature.



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Tel:+81-6-6473-2134 FAX:+81-6-6473-5540



BILGE SEPARATOR PURELIO

For Environmet, More Compact,
More Efficiency, More easily maintenance
Future type Bilge Separator

Oil Content 5 ppm
(DNV type Approved)

Easy
Maintenance

Compact
Design

Low
Running
Costs



Sasakura manufactured and sold the first bilge separator in 1963.

In response to increasing environmental awareness and growing market needs in recent years, we have achieved an oil content of 5 ppm (DNV Type Approved under CLASS PROGRAMME DNVGL-CP-0208) in treated water.

Our bilge separators provide unmatched bilge separation performance and easy maintainability.



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<https://www.sasakura.co.jp/en>



MYCOM COMPRESSOR SERIES (Reciprocating type)

Excellence in performance, durability, and high-Pressure resistance:
Next-generation energy saving compressor

Reciprocating Compressor
[Two Stage] Open Type

M II-SERIES



*Some optional items are included in this photo.

High Performance Derived from New Design

This newly designed compressor minimizes internal heating of the intake gas resulting in the highest level of performance in our product portfolio

Much Improved Overhaul Interval

The MII series incorporates a new valve structure with improved durability and dramatically extended overhaul intervals of 16,000 hours.



Operating condition: 800 to 1200 rpm / Depend on the refrigerant
* Under normal operation

Applications

This model serve large-scale deep freezing applications.

Easy Maintenance

Hydraulic lines for capacity control are incorporated into the casing design, allowing simplified package designs as well as easy replacement of consumable components.

Multiple Applications

Multiple configurations are available in drive type (direct drive/belt drive) and refrigerant compatibility (Ammonia and Fluorocarbon refrigerants).

Specifications

Model ¹⁾ (N/F)		G2M II
Item		
Refrigerant		Ammonia / HFCs (R404A, R507A)
Compressor type		Reciprocating, Open Type
Number of cylinders		Low stage : 8 High stage : 2
Bore	mm	146
Stroke	mm	106
Displacement ²⁾	m ³ /h	Low stage : 620 High stage : 207
Rotation speed	rpm	800-1500 ³⁾
Drive method		Direct drive / Overhang motor / V-belt
Capacity control	%	100/66/33

*1. Specify the refrigerant by adding a prefix to the type code (N= Ammonia / F = Fluorocarbon).

*2. Displacement at 950 rpm

*3. The range of rotation speed varies by operating conditions. Please refer to the ranges of use stated in the operating instructions.



MAYEKAWA MFG.CO.,LTD.

[Inquirers]global@mayekawa.com



www.mayekawa.com

MYCOM COMPRESSOR SERIES (Screw type)

Highly-efficient screw compressor with
wide product range and No.1 track record

Screw Compressor
[Single Stage] Open Type

SCV SERIES



Variable Vi Mechanism (2.63-5.80range) to Efficiently Cover Wide Temperature Range

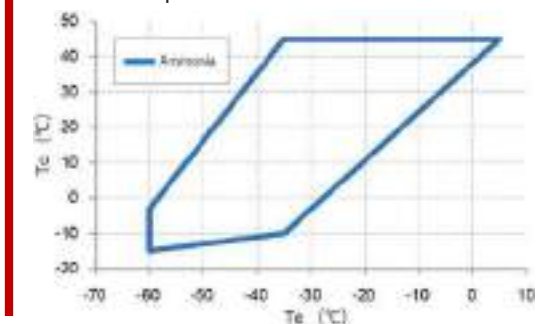
Offers Wide Range of Capacities

Available in 13 models, the SCV series covers a wide displacement range from 415 m³/h to 4740m³/h*.

* At 2950 rpm

Applications

Operates over a wide range of temperature and serves in industrial refrigerating, freezing, and air conditioning applications. Also workable as a booster compressor.



Longtime Seller

With a proven 4:6 rotor configuration, the SCV series offers optimal performance to customers.

Specifications

Model (N/P/E/F) ¹⁾		160V			200V			250V			320V		
Item		SD	MD	LD	SD	MD	LD	SD	MD	LD	SD	MD	LD
Refrigerant		Ammonia / Propane, Propylene / HFCs											
Theoretical displacement	2950rpm	m ³ /h	415	510	622	810	1020	1210	1500	1900	2360	2800	3170
	3550rpm	m ³ /h	499	624	749	975	1230	1460	1800	2280	2840	3370	3820
Minimum rotation speed	rpm	1450 ⁴⁾											
Maximum rotation speed	rpm	4500 ⁴⁾											
Rotation direction		CCW as viewed from motor											
Capacity control	%	100-30											
Gas inlet port		MYCOM 135A ⁴⁾			MYCOM 150A ⁴⁾			MYCOM 250A ⁴⁾			MYCOM 350A ⁴⁾		
Gas outlet port		MYCOM 100CD ⁴⁾			MYCOM 125CD ⁴⁾			MYCOM 150CD ⁴⁾			MYCOM 200CD ⁴⁾		

*1. Specify the refrigerant by adding a prefix to the model code (N = ammonia / P = propane, propylene / F = fluorocarbon).

*2. Please contact us separately for models with a designation ending with G (downward discharge).

*3. The range of rotation speed varies by operating conditions. Please refer to the ranges of use stated in the operating instructions.

*4. Flanges with a designation starting with MYCOM are in-house products of MYCOM.



MAYEKAWA MFG.CO.,LTD.

[Inquirers]global@mayekawa.com



www.mayekawa.com

MYCOM COMPRESSOR SERIES (Compressor Unit)

Industrial Refrigeration Packages
High Efficiency Refrigerant
Screw Compressor
[Single Stage]

MCN SERIES



Adopted Natural Refrigerant Ammonia

- High capacity@BkW
- Low environmental impact

GWP (Global Warming Potential) < 1
ODP (Ozone Depletion Potential) = 0

FLEXIBLE SELECTION

- Compressor : SCV series, UD series
- Oil cooler : Thermosyphon, Water cooled, Liquid injection
- Motor : Can be selected request
- Option : Full flow lubrication and Dual oil filter selection available

WIDE TEMPERATURE RANGE

- Booster to swing temperature range
- Variable manual Vi
- Economizer : High capacity and high efficiency at wide temperature range

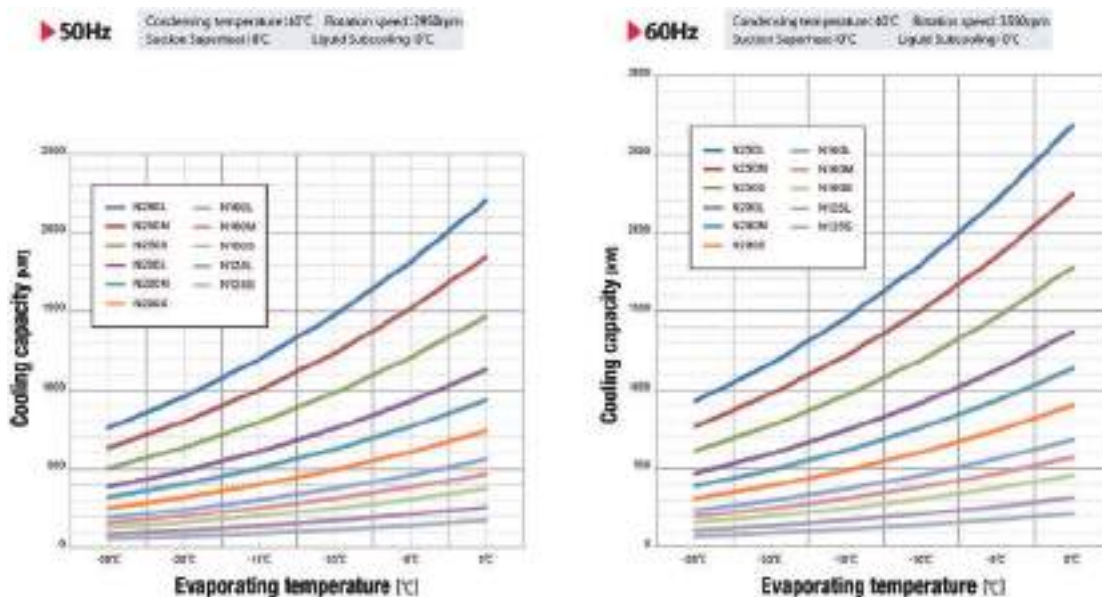
SPECIAL CONTROL PANEL

- New control panel (MYPRO TOUCH)
- Icon touch type on the screen
- Can be selected two screen type (standard : type M)

HIGH RELIABILITY & QUALITY

- High quality parts (oil pump, oil filter, oil separator)
- Reliable service by Mayekawa
- Robust packages

Performance charts



MAYEKAWA
MYCOM

MAYEKAWA MFG.CO.,LTD.

[Inquirers]global@mayekawa.com



www.mayekawa.com

Nissin's fishing vessel refrigeration equipment technology

Refrigeration equipment for Purse seiner



<Features>

- ✓ Refrigeration equipment that can withstand the harsh conditions of fishing vessels
 - Ultra-low pressure compressors also used on frozen tuna fishing vessels
 - Titanium heat exchanger
- ✓ Supports environmentally friendly refrigerants
 - Ammonia refrigeration equipment
 - Low-GWP fluorocarbons (such as R454C) and artificial non-fluorocarbon refrigerants (HFO).
- ✓ High-quality control by electronic systems
 - Brine cooler, fish hold cooling with electronic expansion valve control
 - A unique control method enables highly efficient freezing and cooling with minimal temperature unevenness.
 - Brine temperature abnormal low temperature alarm function
 - Pre-warning function for refrigerant liquid back and refrigerant liquid supply stop function
 - Automatic optimization function for expansion valve capacity etc.



**NISSIN REFRIGERATION
& ENGINEERING LTD.**

日新興業株式会社

https://www.nissin-ref.co.jp/english/
Mail : nre-webmaster@nissin-ref.co.jp



Taiyo T-Type Cycle Power Marine Energy-Saving Generator System



This device was developed to enable a generator to be driven by the main engine, and it has been widely adopted as a **“Shaft Generator”**, which significantly contributes to energy savings.

TAIYO ELECTRIC CO., LTD
www.taiyo-electric.co.jp

Taiyo Brushless AC Generator

Efficient. Reliable. Engineered for the Sea.



< Product Overview >

Type:	Self-ventilated
Excitation:	Brushless
Ratings:	Continuous Duty
Frequency:	50Hz / 60Hz
Poles:	4-pole
Insulation:	Class H
Coupling:	SAE adaptor & flexible coupling

TAIYO ELECTRIC CO LTD
www.taiyo-electric.co.jp

TAIYO Main Switch Board

Marine Power Distribution Panel



- 1) Divided BUS
BUS is divided by using BUS-TIE (standard application).
Complied to SOLAS rule.
- 2) BUS installation part
BUS is installed lower part of MSB (up to 800kVA Gen.).
Due to light weight and low gravity balance of MSB.

TAIYO ELECTRIC CO., LTD
www.taiyo-electric.co.jp

Taiyo Marine Motor



General Purpose SHIP Motor

Type: Totally enclosed fan cooled Horizontal
IM1001 IP-44 IC411 in IEC34

Voltage: AC440V 60Hz or AC380V 50Hz

Rating : Continuous

Bearing: Sealed ball bearings or
regreasable Open ball bearings

Outline : IEC72, JEM1410
Characteristics: JEM1277

TAIYO ELECTRIC CO., LTD
www.taiyo-electric.co.jp

14 Navigation Light >>>

LED Navigation Light (NS-TYPE)

NIPPON SENTO CO.,LTD.

NEW LED NAVIGATION LIGHT UNDER DEVELOPMENT!

FIRST STEPS INTO THE WORLD

- ★ Planned to be certified for both JG / MED
- ★ Designed to operate on both AC / DC power
- ★ Design patent pending

NIPPON SENTO CO.,LTD.

<http://www.nipponsento.co.jp>

15 Radar >>>

High Power S-band Fishing Radar (60kW) Model : FAR-2268DS

FURUNO ELECTRIC CO.,LTD.

FURUNO

High Power S-Band Fishing Radar

Model **FAR-2268DS** 60 kW

More details on www.furuno.com

Gain in Searching POWER with S-band antennas

The benefit of S-band antennas lie not only in their signal strength of 60 kW, but also in their capability to detect objects other than ships without being disturbed by weather or sea swell. With the FAR-2268DS, the user will be able to find birds and therefore determine the location of promising fishing grounds.

Flock of birds spotted around a ship

S-Band Antenna

Multi-Gradation Image Representation

Displays variations in target reflection strength using multiple gradation levels, enabling clear distinction between ships and flocks of birds. The density of echo colors also helps indicate the activity level of birds.

Birds

FURUNO ELECTRIC CO., LTD. Find your local contact point

Marine Radar JMR-5400 Series

A marine radar system designed for fishing vessels, featuring dramatically improved short-range detection performance.



Discover the full capabilities online:
<https://www.jrc.co.jp/en/product/jmr5400>

JRC Japan Radio Co., Ltd.

Japan Radio Co., Ltd.
NAKANO CENTRAL PARK EAST, 10-1, Nakano 4-chome,
Nakano-ku, Tokyo 164-8570, Japan
Phone : +81-3-6832-1721 WEB: <https://www.jrc.co.jp/en/>

INQUIRY



Auto Pilot / Eco Operation Saving Course System (ACE)

Model : PR-3000

Saving Energy and Course using Tokyo Keiki Auto Pilot



PR-3000 Auto Pilot

PRODUCT OVERVIEW

Tokyo Keiki Auto Pilot is advanced equipment to control ships. Up until now, only one sensor was used for Auto Pilot — either Gyro Compass or GPS. With the PR-3000, both sensors work together, enabling the ship to keep its set course far more accurately. For fuel-conscious operators, choose Tokyo Keiki Auto Pilot.

ECO

Track Control
Fuel Saving Mode

● ACE Track Control System



TOKYO KEIKI

Tokyo Keiki Inc.

TEL: +81-3737-8611

<https://tokyokeiki.jp/e/products/marine/>

Mechanical Gyro Compass / Fiber Optic Gyro Compass

Mechanical & Fiber Optic Gyro Compass

Model : TG-8100

Model : TF-900

The World's No.1 Share Gyro Compass

No.1

Global Market Share
Gyro Compass



TG-8100 (Mechanical Gyro) • TF-900 (Fiber Optic Gyro)

PRODUCT OVERVIEW

Gyro Compass is Tokyo Keiki's flagship product and holds the No.1 global market share. Not only installed in commercial ships, but also fishing boats worldwide. The Fiber Optic Gyro Compass (TF-900), originally developed for naval vessels, has been re-engineered to meet the specific requirements of fishing boats and commercial ships.



Tokyo Keiki Inc.

TEL: +81-3737-8611

<https://tokyokeiki.jp/e/products/marine/>

TruEcho CHIRP WITH UNIQUE FISH SIZE INDICATOR Model : FCV-1900G

FURUNO



TruEcho CHIRP WITH UNIQUE FISH SIZE INDICATOR

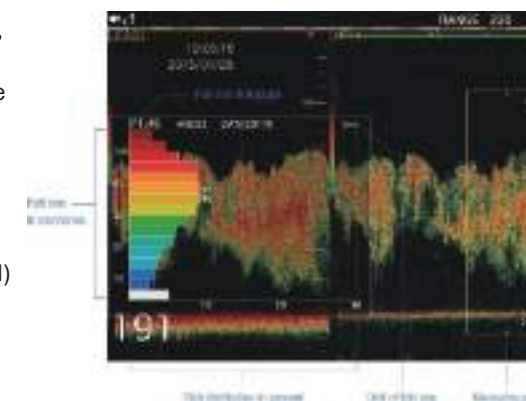
FCV-1900G

More details on
www.furuno.com



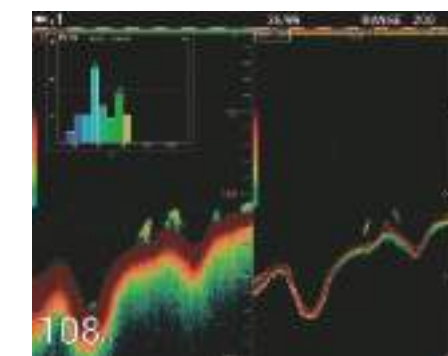
Identify size and distribution with the fish size graph

With a quick glance at the simple and efficient graph, you can get all the information you need to identify fish size and distribution. Once you know the fish size and its distribution, you can use this information to estimate the species and whether it's a viable target or not. Together with the TruEcho CHIRP™ technology. The FCV-1900G allows you to make an accurate decision.
(Recommended transducers: CM265LH or CM599LH)



Accurately judge which target to go after

Experience incredibly accurate echoes, even in deep waters thanks to our TruEcho CHIRP™ technology. The FCV-1900G is well suited for trawlers where accurate and reliable information about the sea bottom is necessary. Utilizing the fish size graph, choosing the right target is simple, allowing you to maximize your time at sea, while avoiding unnecessary bycatches.



FURUNO ELECTRIC CO., LTD.

Find your local contact point



FULL-CIRCLE COLOR SCANNING SONAR Model : FSV-25 MARK-2

FURUNO

FULL-CIRCLE COLOR SCANNING SONAR

Model **FSV-25 MARK-2**



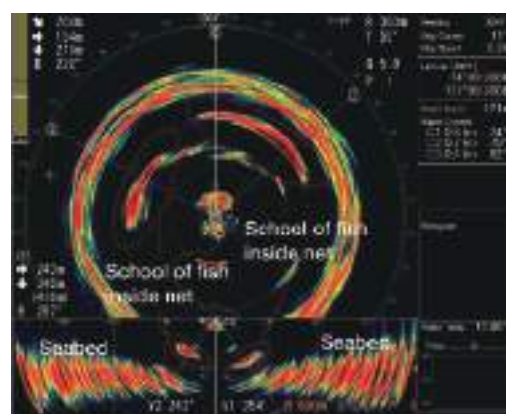
More details on
www.furuno.com



Extended detection range to identify schools of fish at great distances

Thanks to recent advancements in low-frequency transducer elements, signal processing and increased transmission power, the detection range has been greatly improved (by approx. 30% compared to the previous model) with the FSV-25MARK-2 series. You can instantly spot and follow schools of fish from several kilometers away.

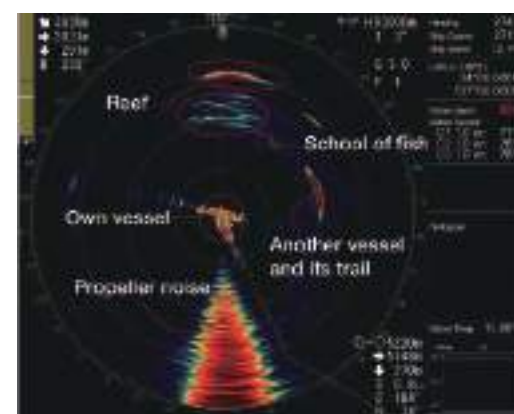
■ Close-range detection



【300 m range】

Two schools of fish can be seen right after the purse-line has been pulled and the net has been closed.

■ Long-range detection



【3000 m range】

A school of fish 2000 m ahead. The fish school appears to swim close to a reef.

FURUNO ELECTRIC CO., LTD.

Find your local contact point



GNSS Compass JLR-41

The new GNSS Compass JLR-41 is a heading sensor that uses GNSS (Global Navigation Satellite System) to determine the ship's heading.

JLR-41 is equipped with a spoofing/jamming countermeasure function*1. When spoofing/jamming is detected, users are notified via pop-up, icon, and buzzer. Furthermore, satellite signals affected by spoofing/jamming are excluded to maintain accurate positioning*2. This contributes to safe and secure navigation

*1: A separate license is required to enable the spoofing/jamming detection function.
*2: If few satellites are unaffected by spoofing/jamming, positioning may not be possible.



Discover the full capabilities online:
<https://www.jrc.co.jp/en/product/jlr41>

JRC *Japan Radio Co., Ltd.*

Japan Radio Co., Ltd.

NAKANO CENTRAL PARK EAST, 10-1, Nakano 4-chome,
Nakano-ku, Tokyo 164-8570, Japan

Phone : +81-3-6832-1721 WEB: <https://www.jrc.co.jp/en/>

INQUIRY



AIS JHS-183



Captures operational information of nearby vessels to support safe navigation in surrounding waters.

JHS-183	
IMO Type Approved	✓
Frequency	156.025-162.025 MHz, default channels 161.975 MHz, 162.025 MHz, DSC (receive only): 156.525 MHz
Frequency accuracy	Within $\pm 3 \times 10^{-6}$
Channel spacing	25 kHz
Type of emission	AIS: G1D (F1D)
Type of modulation	AIS: GMSK
Power	19-35V DC (optional AC/DC power supply unit 100-220V AC)
Consumption	Up to 3.0A (transmitting), up to 1.0A (receiving)

Discover the full capabilities online: <https://www.jrc.co.jp/en/product/jhs183>



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Nakano-ku, Tokyo 164-8570, Japan
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INQUIRY



Radar Transponder Tron SART20



Designed specifically for search and rescue (SAR) operations, this radar transponder features a compact and lightweight design for easy portability.

General Specification	
Weight	450 g
Material housing	Polycarbonate with 10 % glass fibre
Frequency	X-band (3 cm) (9.2~.5 GHz)
Radiated power	> 400 mW EIRP(+26 dBm)
Sweep type	•12 sweep sawtooth type •Forward 7.5 μs$\pm$1 μs •Return 0.4 μs$\pm$0.1 μs starts with return sweep
Receive sensitivity	Better than -50 dBm e.r.s
Response delay	Max 0.5 μ s
Antenna pattern	•Horizontal polarization •Omnidirectional radiation in the horizontal plane •Greater than $\pm$2.5 degrees elevation angle in the vertical plane

Discover the full capabilities online:
<https://www.jrc.co.jp/en/product/tronsart20>



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Nakano-ku, Tokyo 164-8570, Japan
Phone : +81-3-6832-1721 WEB: <https://www.jrc.co.jp/en/>

INQUIRY



406MHz Satellite Emergency Position Indicating Radio Beacon Tron 60AIS



Tested for compliance with international standard IEC 61097-2 Ed.4 (April 2021), this system ensures reliable performance and operation.

Equipped with AIS homing technology for rapid location identification and compatible with multi-GNSS systems.

Features infrared LED lights for SAR operations, optimized for use with night vision devices.

General Specification

Antenna	406 MHz Cospas-Sart Transmitter: Omni directional 121.5 MHz Homing Transmitter: Omni directional AIS Transmitter: Omni directional
GNSS Receiver	PCB inverted-F antenna
Battery	Type: Plithium metal Voltage: 12 VDC/2.9 Ah (term of validity: 10 years)
Release Sensor	Made by Hammer (term of validity: 2 year)

Discover the full capabilities online:
<https://www.jrc.co.jp/en/product/tron60ais>



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INQUIRY



NAVTEX Receiver for GMDSS NCR-333



Simultaneously receives navigational warnings, weather alerts, SAR information, and other broadcasts transmitted on three different frequencies.

Users can select preferred stations and message types through programmable settings for tailored reception.

Specifications / Components

Receiving frequency	490kHz, 518kHz, 4209.5kHz
Receiving mode	F1B NAVTEX broadcast
Sensitivity	CER better than 1x10 ⁻² at 1uV / input to 50Ω antenna
Frequency stability	+/-15Hz
Display	5.7-inch Black & White LCD
Received message storage function	Each Channels : 200 messages / Storage length : 70hours
Interface for external units	Serial Interface : 2ports (For Printer and Integrated Navigation System)
Power supply	12V - 24V DC

Discover the full capabilities online: <https://www.jrc.co.jp/en/product/ncr333>



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INQUIRY



Electric Chart Display System (ECS)

+ Fishing Support System (Fishery Eye)

ECS-9024H

ECS-9027H

More Easy Fishing and More Easy Voyage

Chart + Fishery Data

Integration



ECS-9024H



ECS-9027H

PRODUCT OVERVIEW

Tokyo Keiki ECS is not just showing chart, also Fishing Support System as well. Receiving information of Fishing Support System is provided through satellite, it is shown on ECS. Sea Water Temperature, Quantity of plankton etc... can be shown on chart.

Using Fishing Support System information, you can move to Fishing Point using Auto Tracking Function with Tokyo Keiki ECS + Auto Pilot.



Tokyo Keiki Inc.

TEL: +81-3737-8611

<https://tokyokeiki.jp/e/products/marine/>

MF/HF Radio Equipment JSS-2150/2250/2500



This MF/HF radio equipment is compliant with GMDSS Class A DSC. It supports continuous operation at maximum rated output across all communication modes, not limited to voice transmission.

Specs

Model	JSS-2150	JSS-2250	JSS-2500
IMO type approved	✓		
Output power	150W	250W	500W
Regurations	IMO A.806(19), A.694(17), MSC68(68), MSC/Circ.862, IEC 60945 Ed.4 2002-08		
Transmission frequency	1605.0 ~ 27500.0kHz(100Hz steps)		
Reception frequency	90.0 ~ 29999.9kHz(100Hz steps)		
Frequency stability	Within ±10Hz		
DSC watch keeping frequency	2187.5kHz, 4207.5kHz, 6312.0kHz, 8414.5kHz, 12577.0kHz, 16804.5kHz		
Type of emission	J3E, F1B, A1A, H2B, J2D, H3E(receiving only)		
User programmable channel	Up to 400 (20 channels x 20 groups)		
ITU preset channel	1722ch		

Discover the full capabilities online: <https://www.jrc.co.jp/en/product/jss2150>



Japan Radio Co., Ltd.

Japan Radio Co., Ltd.

NAKANO CENTRAL PARK EAST,10-1, Nakano 4-chome,
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Phone : +81-3-6832-1721 WEB: <https://www.jrc.co.jp/en/>

INQUIRY



Marine VHF Radiotelephone JHS-800S



the world's first Class A DSC-compliant international VHF radiotelephone to feature a 5-inch high-brightness color LCD touchscreen, offering superior visibility and intuitive operation.

Specs

Model	JHS-800S
Standard	IMO resolution A.694 (17) (1991) IMO resolution A.803 (19) (1995) IMO resolution MSC.68 (68) (1997) IMO MSC / Circ.862 (1998) IEC 60945 Ed.4.0 (2002-08)
Display	5 inch TFT color LCD,800 × 480 dots (WVGA),Brightness: 1000 cd/m2
Communication modes	Simplex and semi-duplex press talk system
Transmission frequency	Simplex / semi-duplex : 155.000 - 163.500 MHz
Reception frequency	Simplex / semi-duplex : 155.000 - 163.500 MHz
Antenna output power	6 - 25 W (when reducing : 0.5 - 1 W)
Modulation method	FM / FSK
Type of emission	Radiotelephone communications : F3E / G3E DSC / ATIS : F2B / G2B
Channel spacing	25 kHz
Frequency accuracy	±10 × 10-6 or less

Discover the full capabilities online: <https://www.jrc.co.jp/en/product/jhs800s>



Japan Radio Co., Ltd.
NAKANO CENTRAL PARK EAST,10-1, Nakano 4-chome,
Nakano-ku, Tokyo 164-8570, Japan
Phone : +81-3-6832-1721 WEB: <https://www.jrc.co.jp/en/>

INQUIRY



GATE RUDDER SYSTEM by KAMOME PROPELLER



Steer to the new era

Completely new concept rudder creating the thrust
The GATE RUDDER® consists of two uniquely shaped rudders placed in parallel either side of the propeller instead of placing behind the propeller, which reduces resistance of rudder and creates thrust to improve the energy consumption.

ADVANTAGE

- Confirming 14% Energy Saving on actual ship.
- Excellent course keeping and turning performance.
- Less noise and Underwater Radiated Noise (URN).



KAMOME
PROPELLER

Kamome Propeller Co., Ltd.

690 Kamiyabe-cho, Totsuka-ku, Yokohama 245-8542 Japan
Tel: +81-45-811-2461
Contact Foam :
<https://www.kamomepropeller.co.jp/en/contact/form/>

KAMOME K-7 RUDDER (High Lift Flap Rudder)



Superiority

High lift

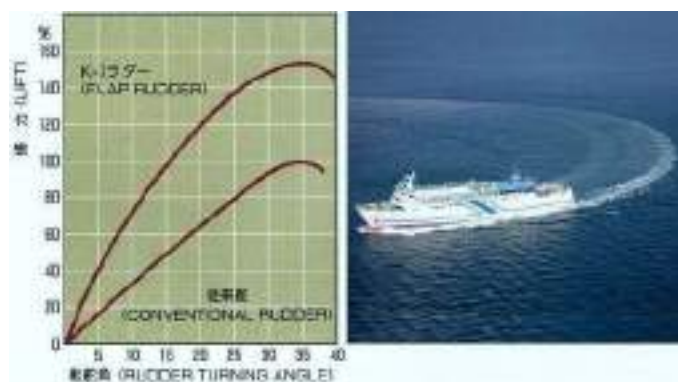
Comparing conventional rudder, K-7 rudder could obtain 50% higher lift especially when the ship runs at low speed.

High stability

Due to the reaction force of flap during sharp turning, recovery of trim could be achieved. And also due to the high effect of flap at low speed of the ship, K-7 rudder is suitable for operation of ship in narrow water way.

Simple Structure and Easy Maintenance

The moving parts of the rudder are simple structure made of durable material, which makes maintenance work easier.



details



Kamome Propeller Co., Ltd.

690 Kamiyabe-cho, Totsuka-ku, Yokohama 245-8542 Japan

Tel: +81-45-811-2461

Contact Form:

<https://www.kamomepropeller.co.jp/en/contact/form/>

KAMOME K-7 RUDDER SERIES

KAMOME REACTION AND BULB RUDDER



KAMOME REACTION AND BULB RUDDER is an energy-saving rudder designed to improve propulsion efficiency by combining a reaction rudder—with its upper and lower leading edges curved to generate rudder thrust from the propeller's rotational flow—and a spindle-shaped rudder bulb designed to closely approach the propeller hub. By appropriately curving the upper and lower leading edges of the rudder blade, rudder resistance is reduced, and the spindle-shaped rudder bulb effectively suppresses hub vortices generated by the propeller to the utmost extent. This optimal combination forms the design concept of the **KAMOME REACTION AND BULB RUDDER**.



Kamome Propeller Co., Ltd.

690 Kamiyabe-cho, Totsuka-ku, Yokohama 245-8542 Japan

Tel: +81-45-811-2461

Contact Form:

<https://www.kamomepropeller.co.jp/en/contact/form/>

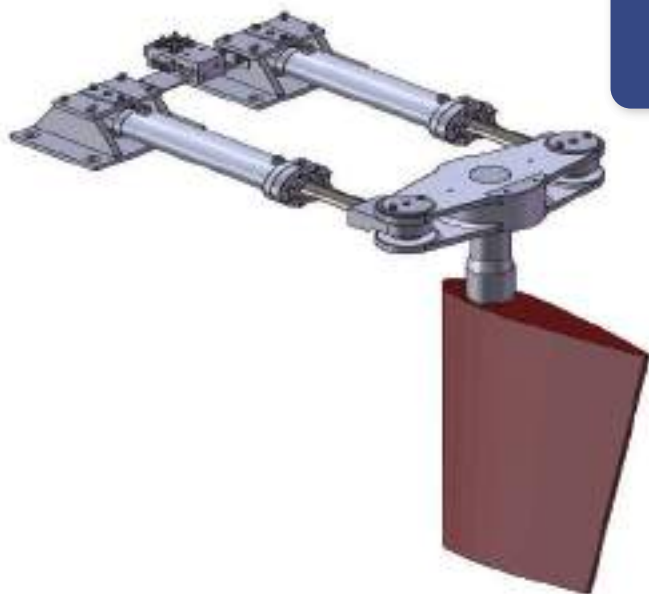
26 Hydraulic System >>> Electro-Hydraulic Steering Gear System

TOKYO KEIKI INC.

Electro-Hydraulic Steering Gear System

Model : SS / SP Series

Reliable and Low-Maintenance



40+
Years
Track Record

SS/SP Series Electro-Hydraulic Steering Gear System

PRODUCT OVERVIEW

Together with Auto Pilot, Tokyo Keiki supplies Steering Gear System as a complete Steering Gear Control System package. Over 40 years, Tokyo Keiki has a proven track record supplying Steering Gear Systems to commercial ships, fishing boats, and domestic vessels worldwide.



Tokyo Keiki Inc.
TEL: +81-3737-8611
<https://tokyokeiki.jp/e/products/marine/>

27 Valve >>> General-purpose butterfly valve

NIIKURA KOGYO CO.,LTD.



NIIKURA KOGYO CO.,LTD.

General use Butterfly valve



Nominal Diameter		Flange Connection		
A Designation	B Designation	Bolt	Tap	Face-to-Face Dimension
50	2		M12	41
65	2-1/2		M12	44
80	3		M12	44
100	4	φ 19	M16	51
125	5	φ 19	M16	54
150	6	φ 19	M16	54
200	8	φ 23	M20	64

Compliant with JIS 5K flange standard

Operating temperature
EPDM -20°C~+80°C
NBR -10°C~+60°C

Valve Body Material	Seat Material	Operating Temperature	Fresh Water	Seawater	Alkaline Solution	Acidic Solution	Heavy Oil	Lubricating Oil	Light Oil	Petroleum
CAC703	NBR	-10°C~+60°C	△	△	×	×	○	○	○	○
	EPDM	-20°C~+80°C	○	○	×	×	×	×	×	×
SCS14	NBR	-10°C~+60°C	△	△	△	△	○	○	○	○
	EPDM	-20°C~+80°C	○	○	○	○	×	×	×	×

Features of this product

- Smooth opening and closing operation even at -20 °C to + 80 °C
- By processing the valve body into a special shape, the wear deterioration of the seat is halved.
- The special shape inside the main body achieves both reduction of opening and closing torque and sealing performance.
- Seat structure that does not require a flange gasket

ECO-Cap

Energy saving device for Zone-2

ESD 1-3% Improvement



Hub-vortex-diffusing propeller cap

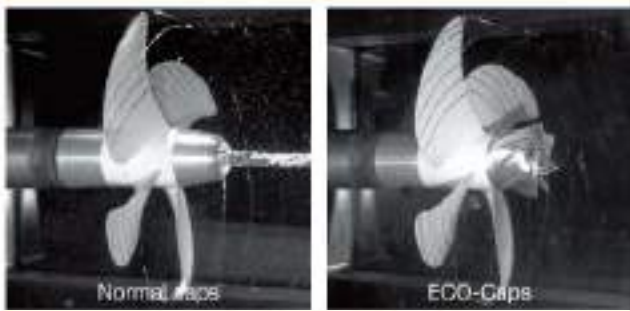
The circumferential flow generated from the trailing edge of the propeller generates a hub vortex at the aft end of the cap, which dissipates energy. Therefore, over 500 different cap shapes were trial-designed to identify one that can diffuse the hub vortex and recover the energy losses. Numerous trial designs showed that a cap with multiple wings was the most effective, so this became the prototype for the ECO-Cap. The diffusion of hub vortices was confirmed in model tests in a circulation water tunnel.



Visualization of hub vortices via model tests

Increase of propeller cap thrust

The pressure distribution at the rear end of the cap shows that a normal cap has greater resistance due to negative pressure, whereas the ECO-Cap generates thrust due to positive pressure, resulting in increased propulsive force. In model tests, the efficiency of an ECO-Cap is higher by approximately 1.0%–1.3% than that of a normal cap. Although model tests generate only weak hub vortices and smaller energy losses than actual vessels, the energy loss recovery (amount of efficiency improvement) induced by the ECO-Cap is expected to be greater in actual vessels.



Pressure distribution at aft end of cap
Blue: negative pressure; red: positive pressure

Energy saving in actual vessels

The ECO-Cap for actual ships uses very thin blades made of FRP to reduce resistance; these are mounted on a cap body made of copper alloy. The use of FRP material also minimizes the mass difference with the standard cap. Verification checks of the energy saving effects of installing ECO-Caps on existing vessels showed an improvement in fuel consumption of approximately 2.8% compared with that before the ECO-Caps were installed.



NAKASHIMA
We Go Beyond

Ultimate rudder bulb

Energy saving device for Zone-3

ESD 3-6% Improvement



Rudder bulb closest to the propeller

Three main factors contribute to the efficiency gains made by rudder bulbs:

- (i) Reduction of hub vortices occurrence
- (ii) Increasing wake gain and uniformity of propeller wake
- (iii) Improved interference effects between propeller and rudder

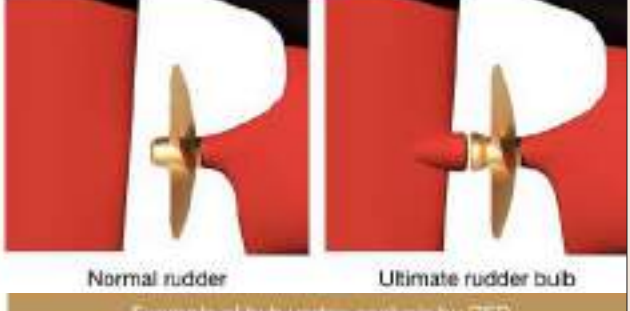
As a rudder bulb closer to the propeller is more effective, the Ultimate rudder bulb has a rounded cap to ensure that the bulb is positioned closest to the propeller.



Increase of rudder thrust

A strong hub vortex, which normally causes energy losses at the rudder, is generated from the aft end of the cap toward the port side of the rudder. A strong hub vortex hitting the rudder leads to increasing rudder resistance. The Ultimate rudder bulb reduces rudder resistance by increasing the negative pressure at the leading edge of the rudder as the bulb head suppresses the hub vortex.

Self-propulsion test results on the Ultimate rudder bulb on a 208BC model ship showed an efficiency improvement of over 5%–6%, and the lift-drag ratio was comparable to that without the rudder bulb in a rudder angle change tests.



Delivery record

Several existing vessels in service are using the Ultimate rudder bulb. They are used in both low- and high-speed vessels and on both fixed- and controllable-pitch propellers.



NAKASHIMA
We Go Beyond

Composite stator

NEW CONCEPT STATOR for Zone-1

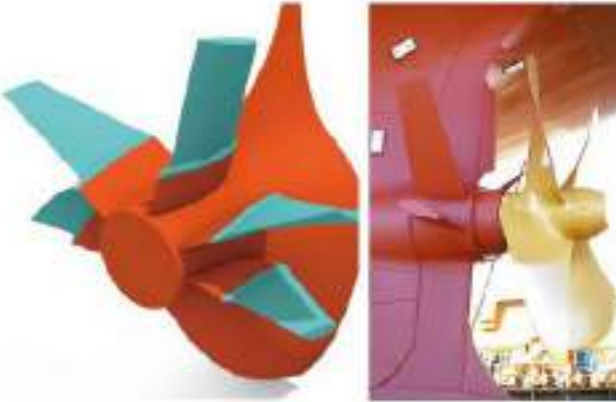
ESD 4-5

Collaboration with iFTC

Variable pitch stator by GFRP

The Eco-Stator is a stator on the stern tube in front of the propeller. This energy saving device, manufactured by Fluid Technia (FTC), improves thrust by radially mounting (wing-like plates) and controlling the flow at the stern.

The Composite Eco-stator made of glass fiber reinforced plastics (GFRP) was jointly developed by Nakashima Propeller and Fluid Technia. Taking advantage of the characteristics of GFRP material, the angle of attack can be changed by twisting the stator to design the optimal shape. The stator can then be easily attached to the hull using steel shoes. (Jointly patented)




NAKASHIMA

NAKASHIMA PROPELLER CO., LTD.
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709-0625 Japan
TEL +81-86-279-5111
E-mail NPCwebmaster@nakashima.co.jp
URL <http://www.nakashima.co.jp>

HYDRAULIC MONITORING SYSTEM

INTELLIGENT CONTROL. MAXIMUM RELIABILITY.

MHT's Hydraulic Monitoring System combines 45 years of hydraulic expertise with advanced digital technology to deliver the next generation of vessel operation solutions. The system comprehensively monitors and digitizes the operating status of onboard hydraulic equipment such as winches, cranes, power blocks, and hydraulic pumps, providing real-time insights that drive safer, smarter, and more efficient operations.

1. SYSTEM OVERVIEW & KEY FEATURES

- CENTRALIZED MONITORING**
All onboard hydraulic equipment and pumps are displayed as intuitive symbols on a single screen, allowing the entire system status to be understood at a glance.
- REAL-TIME DATA MEASUREMENT**
Operating pressure, oil temperature, speed settings, and other key parameters are measured in real time and visualized in dynamic graphs.
- AUTOMATIC DATA STORAGE & ANALYSIS**
Operation data is automatically recorded and stored. Historical data can be analyzed for operating hours, pressure trends, and performance evaluation.
- FUTURE REMOTE MONITORING**
Satellite communication enables real-time data analysis by shipowners and MHT experts from shore, providing powerful remote support.

2. KEY BENEFITS & VALUE PROPOSITION

- EARLY DETECTION & MINIMIZED DOWNTIME**
Quickly identify the root cause of issues by analyzing accumulated data.
• Example: If pressure on the main drum of the purse winch drops, the system can identify causes such as contamination in the compensator of the control valve.
• Benefit: Repairs can be made without stopping operations, or with minimal downtime.
- EFFICIENT MAINTENANCE PLANNING BASED ON OPERATING HOURS**
We propose parts replacement and maintenance based on actual operating hours, not fixed time intervals.
• Example: Before docking, analyze cumulative operating hours to determine which pumps require maintenance.
• Benefit: Reduces unnecessary maintenance, lowers costs, and enables efficient repair planning.
- OPTIMIZED ENERGY EFFICIENCY (INTEGRATED WITH LOAD SENSING SYSTEM)**
Integrated with the Electric Load Sensing System, the system supplies only the pressure required when needed.
• Performance: Reduces pressure loss (e.g., from 10 MPa to 6 MPa), minimizing energy consumption.
• Benefit: Lowers power consumption and suppresses oil leakage during idle periods, protecting equipment and the environment.
- POWERFUL SHORE-BASED SUPPORT**
Online data analysis via satellite allows shipowners and MHT engineers to check vessel conditions remotely.
• Benefit: Receive accurate advice and solutions from experts on shore, even for complex hydraulic issues.

3. WHY CHOOSE MHT'S SYSTEM?

- VISUALIZE THE INVISIBLE**
Transform complex hydraulic systems into clear data and graphs, increasing operational confidence.
- FROM COST TO INVESTMENT**
Significantly reduce future maintenance costs and prevent losses caused by unexpected failures.

MHT's Hydraulic Monitoring System is more than a monitoring tool— it is the intelligent foundation that maximizes the stability and profitability of your operations.

MHT MHT Inc.
3-1-53 Minato, Chuo-ku,
Fukuoka 810-0075 Japan
TEL: +81-92-711-1091
FAX: +81-92-711-1749
<https://www.mhtc.co.jp/english/>

MHT

TUNA PURSE SEINER HYDRAULIC DECK MACHINERY

**Powerful. Reliable. Efficient.
Engineered for the Best Catch.**

MHT provides a comprehensive range of hydraulic deck machinery for tuna purse seiners. With proven performance, advanced technology, and worldwide support, our equipment ensures safe, efficient, and productive fishing operations under the most demanding conditions.

MHT ADVANTAGE



Proven Reliability

Decades of experience and a track record of reliability in tuna purse seiner fleets worldwide.



High Performance

Powerful, durable, and precision-engineered hydraulic machinery designed for demanding marine operations.



Advanced Technology

Optimized hydraulic systems for maximum efficiency, safety, and fuel economy.



Global Support

Worldwide service network, parts supply and technical support whenever and wherever you need it.

OUR COMMITMENT

MHT is committed to delivering innovative solutions that maximize vessel performance, reduce operating costs, and support sustainable fishing for future generations.

WINDLASS

Powerful anchoring and mooring operations.



SKIFF ROPE WINCH

For skiff handling and quick deployment.



CORKLINE WINCH

For handling corkline during purse setting.



BOAT DAVIT CYLINDER

Hydraulic cylinder for boat davit systems.



BOAT DAVIT CONTROL STAND



AUXILIARY TOPPING WINCH
Auxiliary winch for topping operations.



MAIN TOPPING WINCH
Main winch for powerful and stable topping operations.



VANG WINCH
For vang line handling and tension control.



CARGO WINCH
For loading and unloading cargo.

BRAILING WINCH
For brailing operations.



BUNT WINCH
For bunt line handling.



HIGH POWER CRANE

Heavy-duty crane for cargo handling and general operations.



MHT

CHOKER WINCH

For choker line handling.



AZE WINCH

For Aze line handling.



ABA-FLEX

Flexible boom system for purse handling.



PUMP UNIT

High-efficiency hydraulic power unit.



BRAILING WINCH

For brailing operations.



PURSE WINCH
High-capacity winch for purse seine hauling.



SINGLE WINCH
General-purpose hydraulic winch.



POWER BLOCK INHAUL WINCH



POWER BLOCK
High-performance power block for heavy lifting.



ASSIST ROLLER
Guide and support for purse lines.



DOUBLE WINCH
Versatile winch for various operations.



MARINE PROVEN
Engineered specifically for tuna purse seine applications.



DURABLE & RELIABLE
Heavy-duty construction for long service life and minimal downtime.



EFFICIENT OPERATION
Optimized hydraulic systems for lower fuel consumption and higher productivity.



GLOBAL NETWORK
Worldwide sales, service, and technical support.

MHT

MHT Inc.
3-1-53 Minato, Chuo-ku,
Fukuoka 810-0075 Japan



TEL: +81-92-711-1091



<https://www.mht.co.jp/english/>

POWER BLOCK

MHT Power Blocks are trusted by purse seiner fleets around the world. Combining strong hoisting performance, net-friendly design, and advanced digital management systems, our power blocks deliver superior efficiency, reliability, and long service life in the harshest marine environments.

TUNA PURSE SEINER HYDRAULIC DECK MACHINERY

1. KEY ADVANTAGES & EVOLUTION

SIGNIFICANTLY IMPROVED HOISTING CAPACITY

The latest PB180 achieves a powerful 15 t rated load, up from the previous PB130 series (9 t to 12 t). This enables larger operations and reliable performance even in severe conditions.

NET-FRIENDLY ANTI-RUST & LOW-FRICTION DESIGN

PB180 is equipped with stainless steel (SUS) side shafts to prevent rust and protect nets from abrasion, extending the life of your valuable fishing gear.

OPTIMIZED DRUM ANGLE FOR MAXIMUM EFFICIENCY

An effective drum angle is g. 30° for PB180 is designed to maximize hauling efficiency and reduce power loss during operation.

IMPROVED MAINTENANCE & SERVICEABILITY

Open gear design and easily replaceable strip rubber and grip tire reduce onboard maintenance time and cost.

2. MAIN SPECIFICATIONS

ITEM	12T-PB-130	12T-PB-130 (NEW)	15T-PB-180
Target Vessel	1,200 G/T, 1,500 G/T	1,200 G/T, 1,500 G/T	1,600 G/T, 2,000 G/T
Rated Load (Steel Roll Capacity)	12 t	12 t	15 t
Drum Angle	60°	60°	30°
Unit Weight	2,700 kg	3,000 kg	3,900 kg

※ Specifications are subject to change without notice.

APPLICATION

MHT Power Blocks are specifically designed and built for tuna purse seiners. With robust construction, net-friendly performance, and high reliability, they support efficient and safe hauling operations under the most demanding conditions at sea.

3. TRUSTED SUPPORT

FAST PARTS SUPPLY:

We maintain a ready-to-ship system for control valves, power block dedicated parts such as striped rubber), and other key components.

GLOBAL TECHNICAL SUPPORT:

Our extensive network allows us to dispatch engineers worldwide to major fishing hubs and vessels wherever they operate.

ENGINEER TRAINING SUPPORT:

We provide comprehensive training for vessel engineers, from the fundamentals of hydraulics to MHT's proprietary technologies, helping improve onboard troubleshooting and overall operational capability.

MHT Power Blocks combine “overwhelming power, net-friendly design, and intelligent maintenance based on data”, making them an essential solution for the next generation of tuna purses seiner operations.

MHT Inc.
3-1-53 Minato, Chuo-ku,
Fukuoka 810-0075 Japan

TEL: +81-92-711-1091
FAX: +81-92-711-1749
https://www.mhtc.co.jp/english/

Purse Seine for Skipjack Tuna (Bonito)

【Complete Seine Nets】

Dimensions:
Float line length × Stretched height:
1,750m × 350m - 1,950m × 360m

Mesh size: Bunt: 90mm
Body: 300 - 450mm

Material: Nylon and polyester

▲ Schematic diagram of the purse seine

▲ Behavior of the fishing gear reproduced through scale-model tank experiments.

Features:

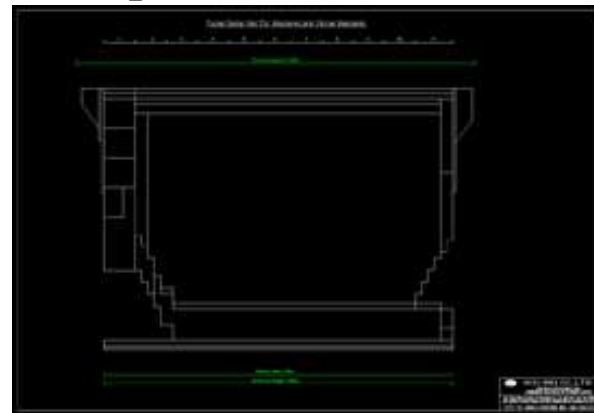
A large purse seine with a polyester net body and an extended float line, optimized for targeting large pelagic and fast-swimming species such as tuna and skipjack.

Its low hanging-ratio design enhances sinking speed for efficient encirclement of target schools.



Purse Seine for Mackerel and Horse Mackerel

【Complete Seine Nets】



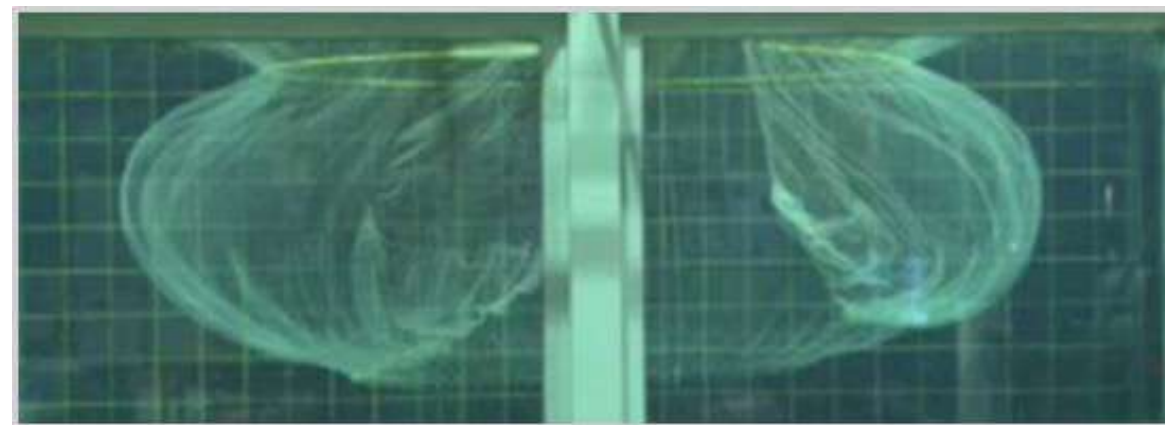
Dimensions:

Float line length × Stretched height:
900m × 390m - 1,180m × 360m

Mesh size: Bunt: 38 - 43mm
Body: 38 - 43mm

Material: Nylon and polyester

▲ Schematic diagram of the purse seine



▲ Behavior of the fishing gear reproduced through scale-model tank experiments.

Features:

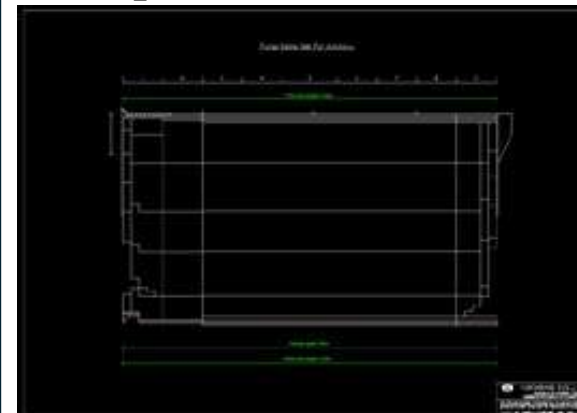
A purse seine featuring a polyester net body with increased net depth, designed for targeting surface and midwater species such as mackerel and horse mackerel.

The high-specific-gravity polyester netting delivers enhanced sinking performance compared with Conventional nylon netting, improving fishing efficiency and catch performance.



Purse Seine for Sardine and Anchovy

【Complete Seine Nets】



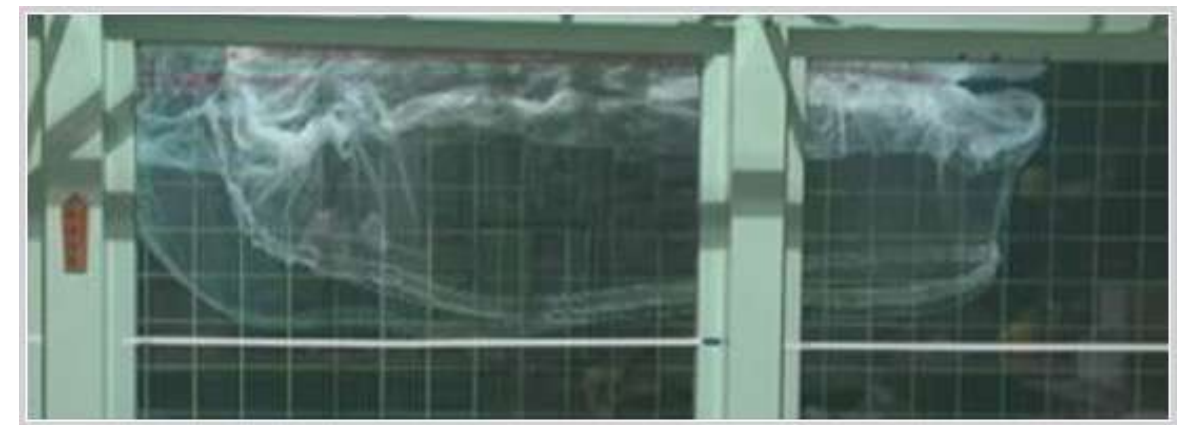
Dimensions:

Float line length × Stretched height:
930m × 330m - 1,140m × 350m

Mesh size: Bunt: 18 - 30mm
Body: 18 - 32mm

Material: Nylon

▲ Schematic diagram of the purse seine

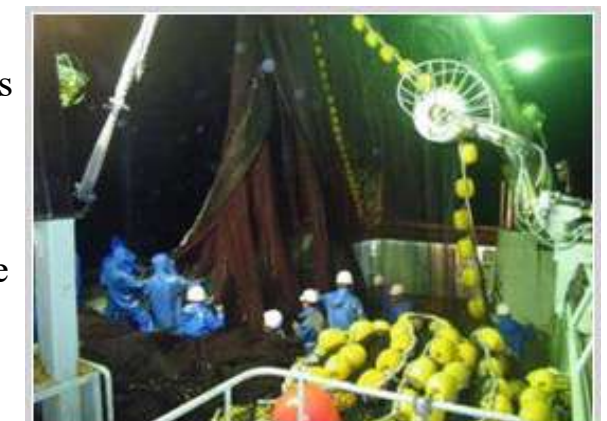


▲ Behavior of the fishing gear reproduced through scale-model tank experiments.

Features:

A durable nylon purse seine designed for harvesting large schools of small pelagic species such as sardine and anchovy.

Its relatively high hanging-ratio design helps maintain the net's shape during operation, ensuring stable encirclement and effective capture of target schools.



Wire Ropes for Purse Seine

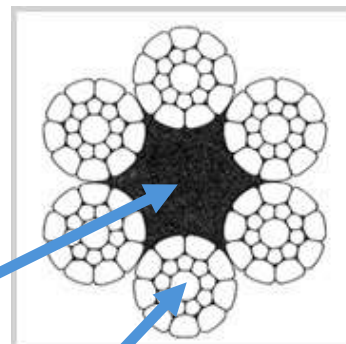
【Tough Dry Wire 6 × P · S(19)】

Construction : 6 × P · S [1 + 9 + 9]

Core : Fiber

Coating : Galvanized

Tough Dry Wire is a premium wire rope developed by Tokyo Rope MFG for purse seine fisheries.



The synthetic fiber core maintains strand stability while retaining lubricant for long-lasting internal corrosion protection. Compared with conventional steel-core wire ropes, Tough Dry Wire offers:

- Greater flexibility
- Superior shock and vibration absorption
- Enhanced lubricant retention
- Lower weight

Its die-formed profile strands provide smooth surface contact, delivering:

- Higher breaking strength
- Enhanced fatigue resistance
- Superior abrasion resistance
- Reduced distortion
- Less wear on equipment (e.g., drums, rollers, and sheaves)

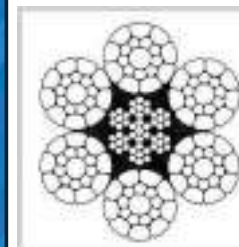
Dia (mm)	Breaking Load		Rough Calculation Unit Mass*
	(kN)	(tf)	
19	227	23.16	1.49
22	304	31.02	2.00
24	362	36.94	2.38
26	425	43.37	2.79
28	493	50.31	3.23
30	566	57.76	3.71

*Reference : For Wire Rope with Profile Wires on the authority of TOKYO ROPE MFG. Co.,Ltd.



Wire Ropes for Purse Seine

【Tough Dry Wire IWRC 6xP · S(19)】



Construction :
7 × 7 + 6 × P ·

S [1 + 9 + 9]

Core : Wire Rope

Coating : Galvanized

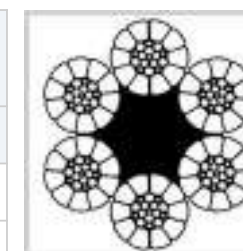
Synthetic fiber core for flexibility and grease retention. Advantages over steel-cored ropes:

- Higher breaking strength
- Greater resistance to lateral pressure
- Less elongation and diameter loss

Dia (mm)	Breaking Load		Rough Calculation Unit Mass*
	(kN)	(tf)	
19	255	26.02	1.63
22	343	35.00	2.19
24	408	41.63	2.61
26	478	48.78	3.06
28	555	56.63	3.55
30	637	65.00	4.07
32	725	73.98	4.63

【Tough Wire 6xP · WS(26)】

Dia (mm)	Breaking Load		Rough Calculation Unit Mass*
	(kN)	(tf)	
10	68.6	7.00	0.413
11.2	86.1	8.79	0.517
12	98.8	10.08	0.594
12.5	107	10.92	0.645
14	119	12.13	0.803
16	155	15.81	1.05
18	196	19.99	1.33
20	242	24.68	1.64
22	293	29.88	1.98
24	349	35.59	2.36
26	409	41.71	2.77
28	474	48.33	3.21
30	617	62.96	3.71



Construction :

6 × P · WS [1 + 5 + (5+5) + 10]

Core : Fiber

Coating : Standard Galvanized

Made with finer steel wires than Tough Dry Wire, it provides:

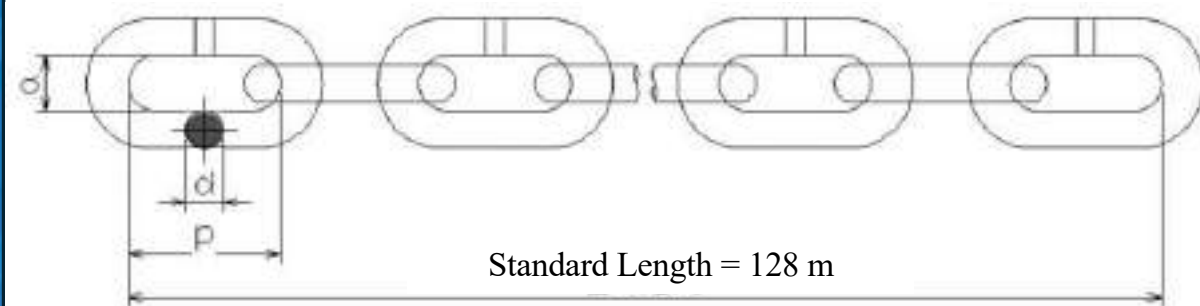
- greater flexibility
- easier handling or splicing

*Reference : For Wire Rope with Profile Wires on the authority of TOKYO ROPE MFG. Co.,Ltd.

Hardware Products for Purse Seine

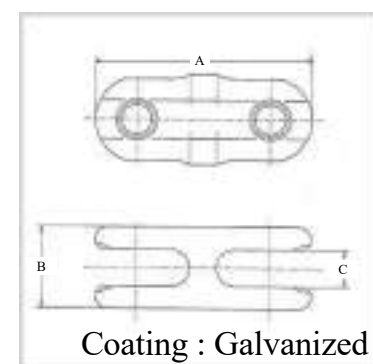
【Tuna Chain】

Coating : Galvanized



Item No.	Size	Dimension			Weight in Air (kg/m)	Weight in Water (kg/m)	Minimum Breaking Load (t)
	d	P	a				
	(mm)	(mm)	(mm)				
MF1235	12	35	19.1		3.29	2.87	12.5
MF1344	13.5	44	20		3.9	3.4	16
MF14550	14.5	50	19		4.34	3.73	20
MF1655	16	55	20		5.27	4.6	22

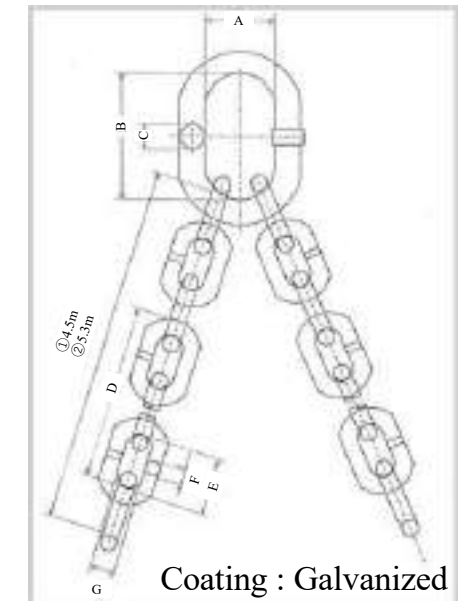
【Chain Joint】



Item No.	Size(mm)			Screw Dia (mm)	Material	Chain Size
	A	B	C			
FJ-1214	85	34	14.5	14	Stainless Steel	12~13φ
FJ-1316	100	38	17	16	Stainless Steel	13~16φ
FJ-1316P	100	42	17	16	SCM Steel	13~16φ
FJ-19P	118	50	18	18	SCM Steel	End Plate

Hardware Products for Purse Seine

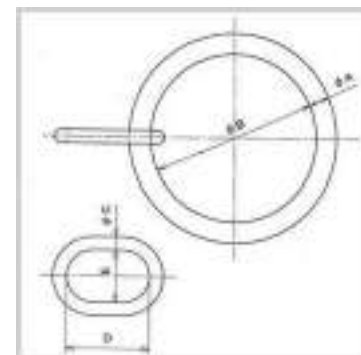
【Bridle Chain】



Length	Dia of Chain (mm)	Dia of Ring (mm)	Ring Size (mm)	Weight in Air (kg/pc)
4.5m Double	10	13.5	35 × 65	20
5.3m Double	10	13.5	35 × 65	23.5

Proof Load (t): 8.7 Minimum Breaking Load (t): 17.3

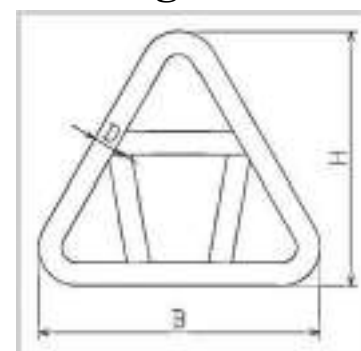
【Purse Ring】



Item No.	Size (mm)				
	A	B	C	D	E
22φ	22	260	16	106	38
25φ	25	260	16	106	38

Coating : Galvanized

【Triangle Hardware】

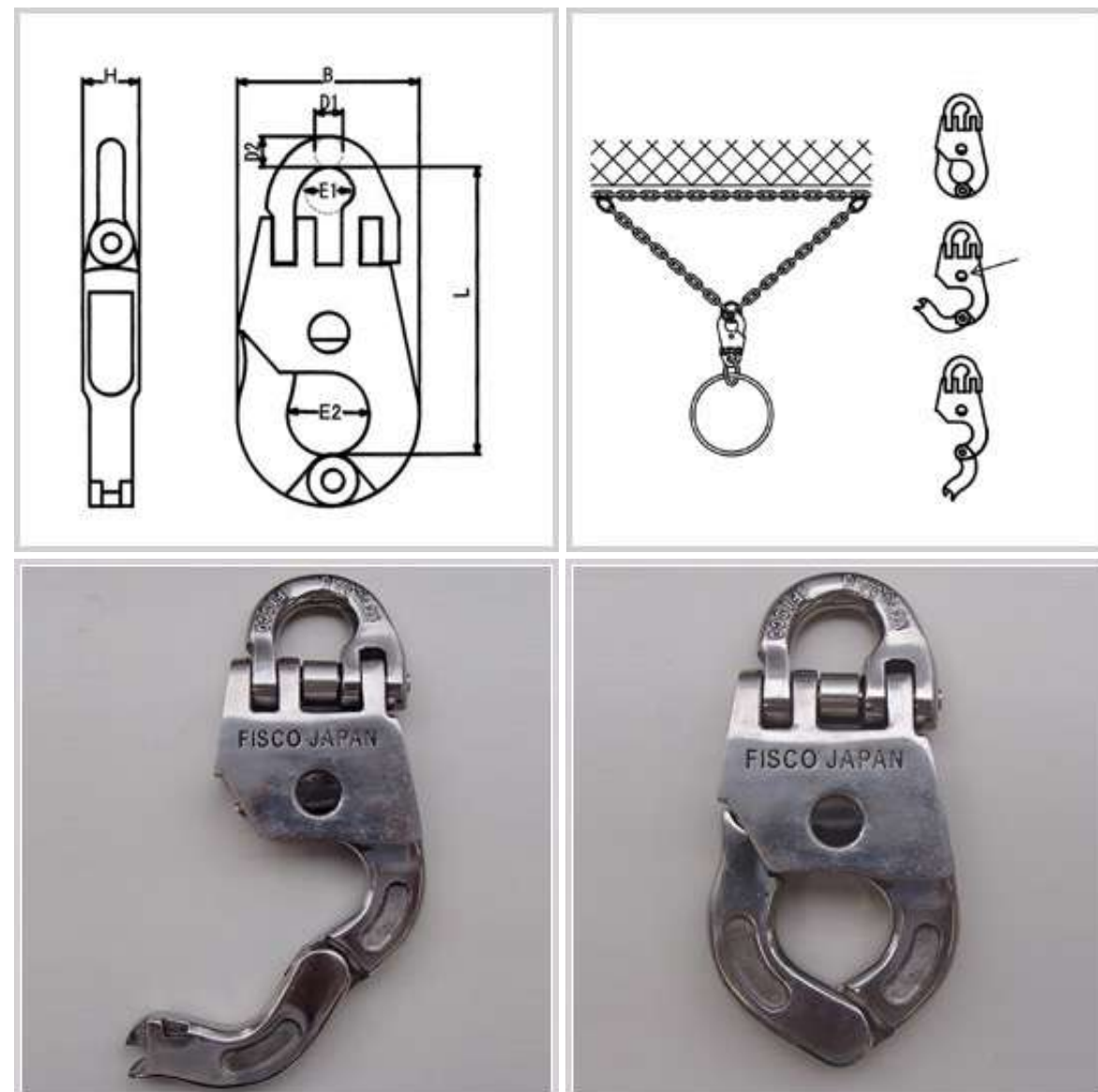


Item No.	Size(mm)		
	D	B	H
NG-2959	32	380	380
NG-12649	35	380	385
NG-2962	38	386	391
U40-101	40	402	416

Material: SUS304

Hardware Products for Purse Seine

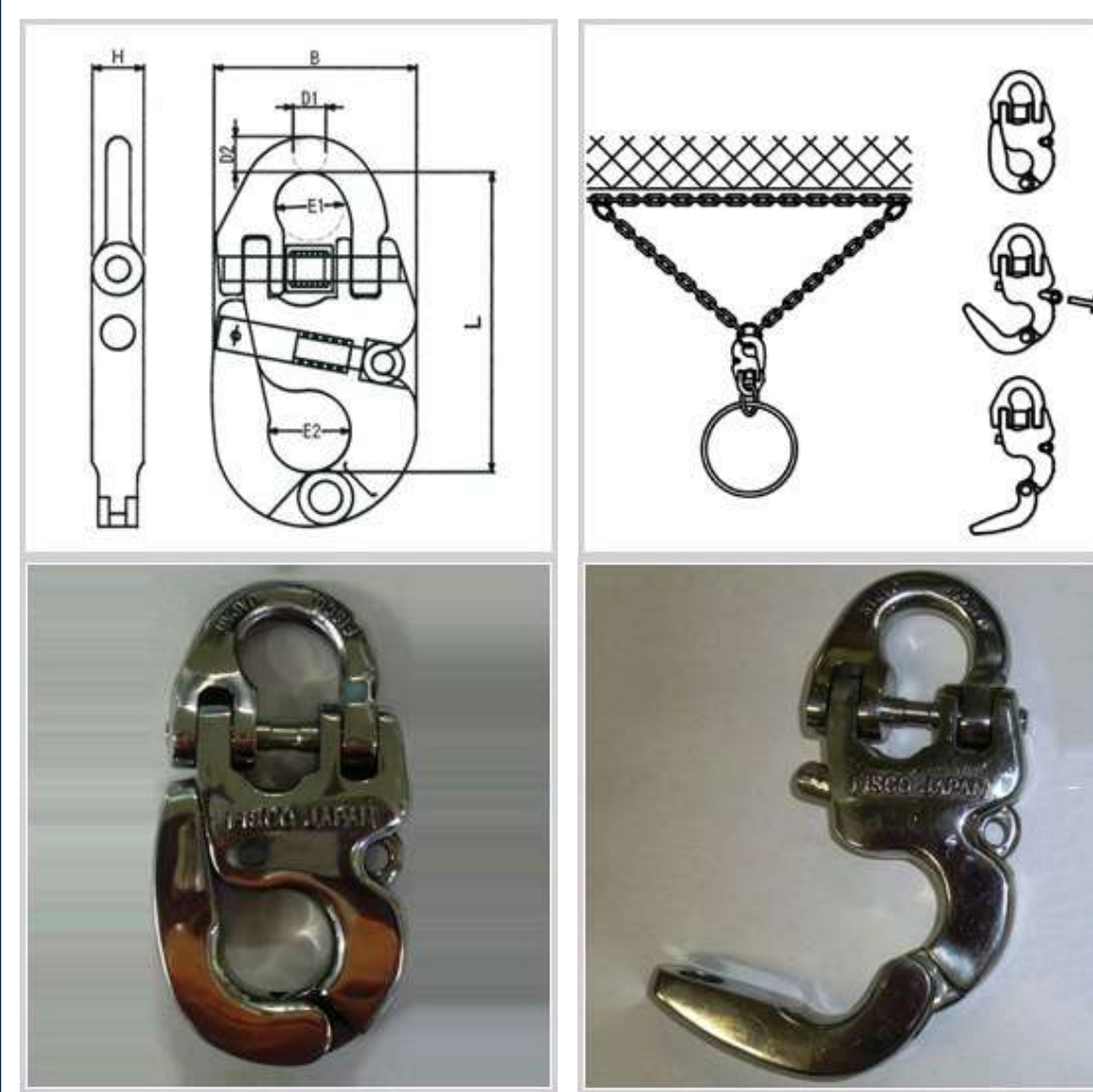
【Magic Ring】



Item No.	Size (mm)							Safe Working Load (t)	Weight (kg)
	L	B	D1	D2	E1	E2	H		
SUS304	129	84	12	13	25	30	26	1.3	1.2

Hardware Products for Purse Seine

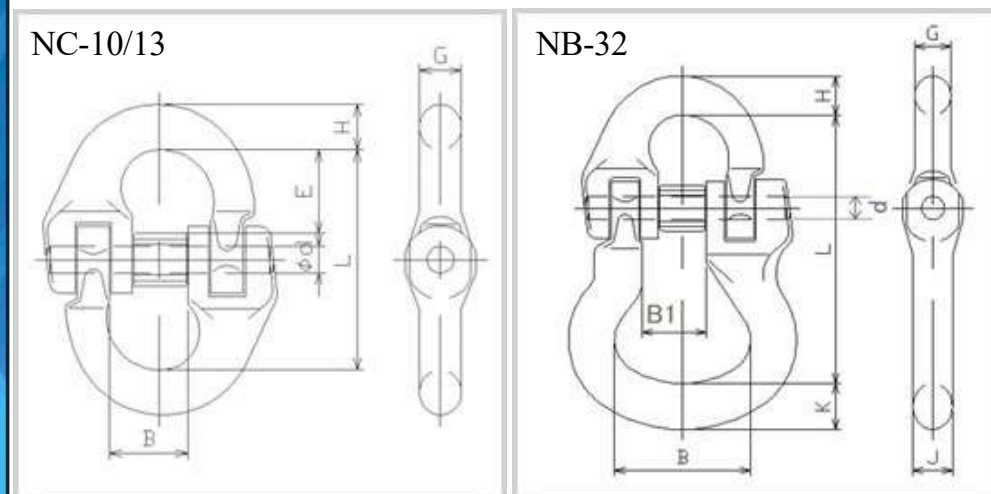
【Magic Shackle】



Item No.	Size (mm)							Safe Working Load (t)	Weight (kg)
	L	B	D1	D2	E1	E2	H		
SUS304	110	72	12	13	25	30	18	2.0	0.8

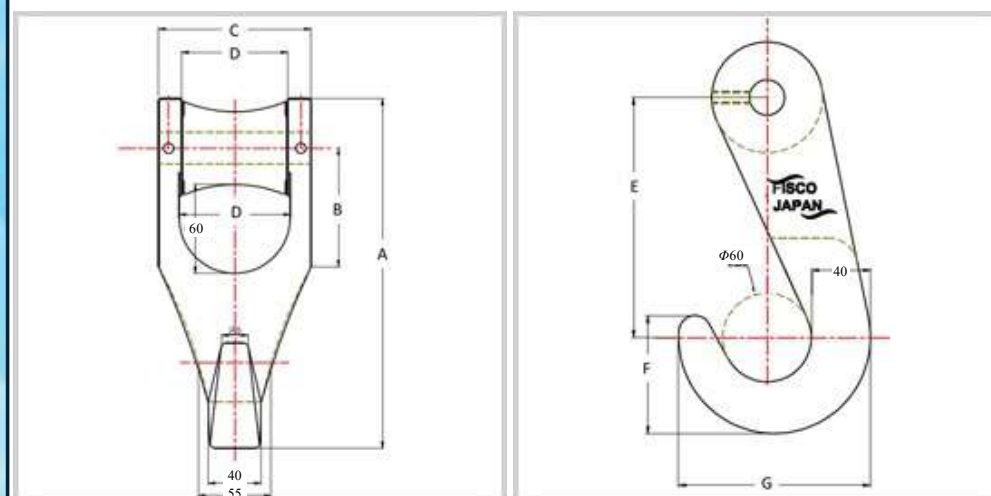
Hardware Products for Purse Seine

【Coupling Link】



No.	Material	S.W.L	Size(m/m)									Weight (Kg)
		(t)	L	B	B1	E	G	H	J	K	d	
NC-10/13	SUS304	2.0	66	25	-	26	11	13	-	-	9	0.45
NB-32	SCM	25.6	260	120	67	-	35	39	39	44	24	11.0

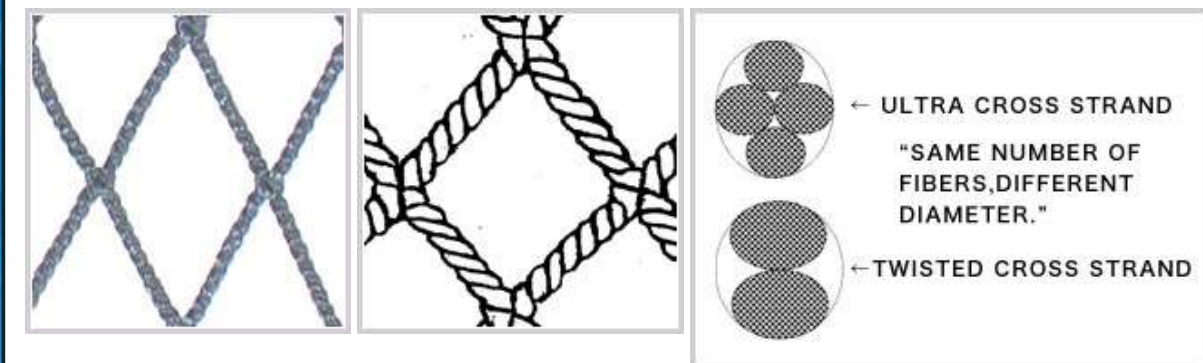
【Choker Hook】



Item No.	Size (mm)								Weight (Kg)
	A	B	C	D	E	F	G	H	
CH-11.5S	265	95	115	80	84	162.5	80	130	8.5

Seine Nettings

【Ultra Cross Knotless Netting (UC Net)】



Features

Light weight, low resistance and high strength

Materials

polyester, nylon, polyethylene, Dyneema(R) or Vectoran(R)

※Dyneema(R) is a trademark of Toyobo and Vectoran(R) is a trademark of Kuraray.

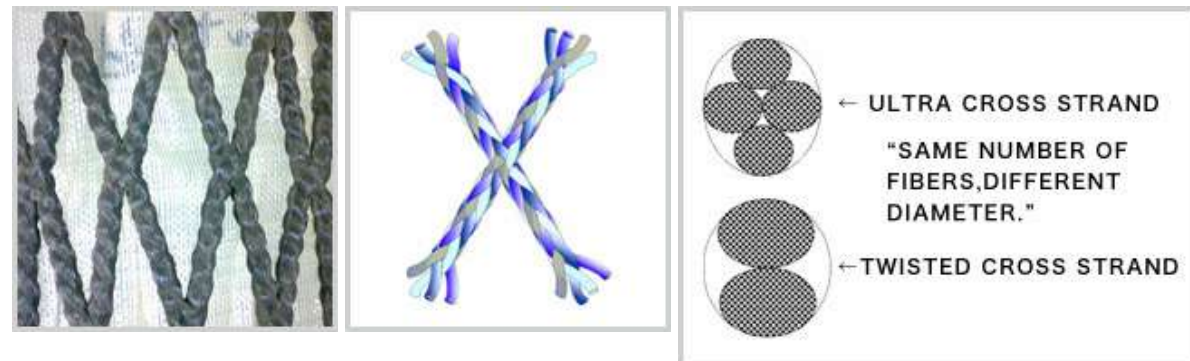
Specifications

Material	Denier	Minimum ply	Maximum ply	Minimum mesh size
polyester	250D	10	400	16mm
nylon	210D	10	400	16mm
polyethylene	200D	16	400	18mm
polyethylene	400D	10	200	18mm
Dyneema(R)	1600D	2	50	30mm
Vectoran(R)	1500D	2	50	30mm



Seine Nettings

【Ultra Cross Knotless Netting (UC Net)】

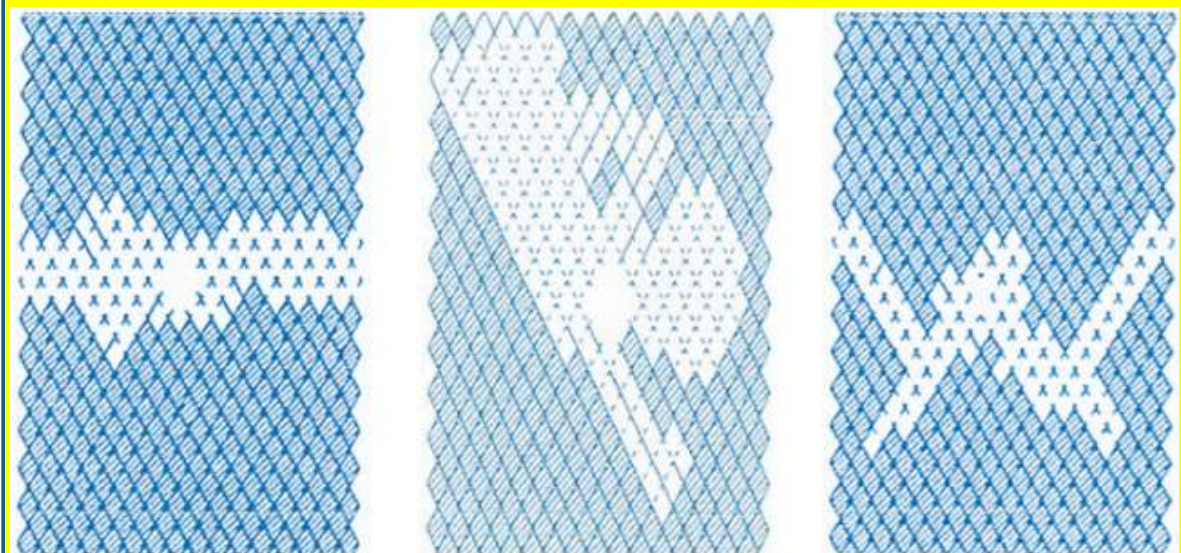


High Strength & Durability

Ultra Cross combines knotless construction with four-strand braided twine to deliver exceptional strength and durability. The stable braided structure resists fraying, distortion, slippage, and tearing, while the smooth knotless surface reduces abrasion for extended service life.

▼ Tensile Test of Nettings

~Comparison of Tear Propagation After Single-Mesh Removal



UC Net

Twisted Knotless Netting

Knotted Netting



Superior Resistance to Tear Propagation



Seine Nettings

Improved Fishing Efficiency

The knot-free design promotes smoother water flow and reduces hydrodynamic drag. Its compact braided profile lowers towing resistance and enhances sinking performance for more efficient fishing operations.

Lightweight & Easy Handling

Using less twine than conventional knotted netting, Ultra Cross is lighter and less bulky. The smooth knotless construction also improves handling during shooting, hauling, and onboard operations.

Stable Mesh & Better Selectivity

Secure four-strand braided intersections maintain consistent mesh geometry throughout the net's service life. This outstanding dimensional stability makes Ultra Cross ideal for square mesh and selective fishing applications.

Better Catch Quality

The smooth knotless surface minimizes fish bruising and abrasion, helping preserve catch quality and maximize market value.

Specifications

Material	Denier	Minimum ply	Maximum ply	Minimum mesh size
polyester	250D	24	800	26mm
nylon	210D	24	800	26mm
polyethylene	380D	100	800	60mm
Dyneema(R)	1,600D	4	120	44mm
Vectoran(R)	1,500D	4	120	44mm



Ropes for Purse Seine

【Nylon -3 Rope】



☆ Excellent shock absorption through moderate elongation

Dia (mm)	Breaking Strength (t)	Breaking Strength (kN)	Weight (kg/200m)	Dia (mm)	Breaking Strength (t)	Breaking Strength (kN)	Weight (kg/200m)
6	0.81	7.94	4.43	40	27.2	267	195
8	1.38	13.5	7.86	42	29.7	291	215
10	2.09	20.5	12.3	45	33.8	331	246
12	2.93	28.7	17.7	50	41.0	402	304
14	3.90	38.2	24.0	55	49.0	481	368
16	4.98	48.8	31.3	60	57.5	564	438
18	6.20	60.8	39.7	65	66.5	652	513
20	7.52	73.7	48.9	70	76.5	750	596
22	9.00	88.3	59.2	75	87.0	853	683
24	10.5	103	70.4	80	98.0	961	777
26	12.3	121	82.6	85	110	1,079	874
28	14.0	137	95.8	90	122	1,196	980
30	16.0	157	109	95	135	1,324	1092
32	17.7	174	125	100	148	1,451	1210
34	20.1	197	141				
36	22.4	220	158				
38	24.7	242	176				

Material : Nylon
Construction : 3 Strand
Specific Gravity : 1.14
Color : White



Ropes for Purse Seine

【Nylon -8 Rope】



☆ Excellent shock absorption through moderate elongation

Dia (mm)	Breaking Strength (t)	Breaking Strength (kN)	Weight (kg/200m)	Dia (mm)	Breaking Strength (t)	Breaking Strength (kN)	Weight (kg/200m)
6	0.81	7.94	4.5	40	27.2	267	193
8	1.38	13.5	7.8	42	29.7	291	212
10	2.09	20.5	11.7	45	33.8	331	240
12	2.93	28.7	18.1	50	41.0	402	306
14	3.90	38.2	24.6	55	49.0	481	371
16	4.98	48.8	31.1	60	57.5	564	448
18	6.20	60.8	38.9	65	66.5	652	522
20	7.52	73.7	48.6	70	76.5	750	604
22	9.00	88.3	60.3	75	87.0	853	693
24	10.5	103	68.0	80	98.0	961	790
26	12.3	121	81.0	85	110	1,079	872
28	14.0	137	97.0	90	122	1,196	981
30	16.0	157	111	95	135	1,324	1100
32	17.7	174	125	100	148	1,451	1210
34	20.1	197	139				
36	22.4	220	152				
38	24.7	242	171				

Material : Nylon
Construction : 8(2 × 4)
Specific Gravity : 1.14
Color : White

Ropes for Purse Seine

【Nylon -12 Rope】



☆ Excellent shock absorption through moderate elongation

Dia (mm)	Breaking Strength (t)	Breaking Strength (kN)	Weight (kg/200m)	Dia (mm)	Breaking Strength (t)	Breaking Strength (kN)	Weight (kg/200m)
6	0.95	9.29	4.76	30	19.7	193	114
8	1.61	15.8	8.38	32	21.8	214	129
10	2.48	24.3	13.2	34	24.7	242	145
12	3.49	34.2	18.8	36	27.6	271	163
14	4.69	46.0	24.8	38	30.0	294	181
16	6.05	59.3	32.6	40	33.4	328	200
18	7.58	74.3	41.6	※42	36.5	358	222
20	9.25	90.7	51.2	※45	41.5	407	254
22	11.10	109.0	61.6	※50	50.4	494	314
24	13.0	127	73.2	※The maximum length of the rope with the diameter of 42mm, 45mm and 50mm is 100m.			
26	15.2	149	85.8				
28	17.2	169	99.2				

Material : Nylon
Construction : 12(2 × 6)
Specific Gravity : 1.14
Color : White

Ropes for Purse Seine

【Ultra Line –D3 Rope】



Material: Dyneema (R)
Construction : 3 Strand
Specific Gravity : 0.97
Color : White

Ultra Line Rope is a UHMWPE (Ultra High Molecular Weight Poly-ethylene) rope. Made with Dyneema®, an ultra-high-strength, high-modulus fiber, it combines **wire-rope-level strength with exceptional light weight.** *Dyneema(R) is a registered trademark of Toyobo in Japan.

Dia (mm)	Breaking Strength (t)	Breaking Strength (kN)	Weight (kg/200m)
6	1.8	17.7	3.82
8	3.0	29.4	6.80
10	4.4	43.1	10.6
12	6.0	58.8	15.3
14	7.9	77.5	20.8
16	10.0	98.1	27.1
18	12.3	121	34.4
20	14.8	145	42.4
22	17.4	171	51.3
24	20.3	199	61.1
26	23.4	229	71.7
28	26.6	261	83.1
30	30.0	294	95.4
32	33.6	330	109
34	37.3	366	123
36	41.3	405	138
38	45.4	445	153
40	49.6	486	173
42	54.0	530	187

Ropes for Purse Seine

【Ultra Line –D8 Rope】



Material: Dyneema (R)
Construction : 8(2 × 8)
Specific Gravity : 0.97
Color : White

*Dyneema(R) is a registered trademark of Toyobo in Japan.

Dia (mm)	Breaking Strength (t)	Breaking Strength (kN)	Weight (kg/200m)
8	3.13	30.7	7.20
10	4.64	45.5	11.1
12	6.37	62.5	15.9
14	8.35	81.9	21.8
16	10.5	103	28.0
18	13.1	128	35.7
20	15.6	153	43.8
22	18.6	182	53.0
24	21.5	211	63.0
26	24.9	244	74.0
28	28.2	277	86.0
30	31.9	313	99.0
32	35.7	350	112
34	39.7	389	127
36	43.8	430	142
38	48.2	473	158
40	52.7	517	175
42	57.4	563	193
45	65.0	637	221
50	78.2	767	272
55	92.4	906	329
60	108.0	1,059	392

Ropes for Purse Seine

【Ultra Line –D12 Rope】



Material: Dyneema (R)
Construction : 12(2 × 6)
Specific Gravity : 0.97
Color : White

*Dyneema(R) is a registered trademark of Toyobo in Japan.

Dia (mm)	Breaking Strength (t)	Breaking Strength (kN)	Weight (kg/200m)
6	2.25	22.1	4.06
8	3.83	37.6	7.22
10	5.78	56.7	11.3
12	8.10	79.4	16.3
14	10.8	106	22.2
16	13.8	135	29.0
18	17.1	168	36.8
20	20.8	204	45.4
22	24.8	243	55.0
24	29.2	286	64.4
26	33.8	331	76.8
28	38.7	380	89.2
30	43.9	431	102
32	49.6	486	117
34	55.4	543	132
36	61.6	604	148
38	68.0	667	165
40	74.7	733	182
42	81.8	802	200
46	96.8	949	242
48	105.0	1,027	262
50	113.0	1,107	284

Ropes for Purse Seine

【Megaton-X Rope】



Material: Dyneema®
Construction: 12-Strand Braid
Color: Silver

*Dyneema(R) is a registered trademark of Toyobo in Japan.

Megaton-X Rope is a UHMWPE (Ultra High Molecular Weight Polyethylene) rope. Made with Dyneema®, an ultra-high-strength, high-modulus fiber, it combines **wire-rope-level strength with exceptional light weight.**

Features

- **Floats on water** (specific gravity: 0.97)
- **Wire-rope-level strength** at the same diameter
- **Outstanding durability** among synthetic fiber ropes
- **Anti-Twisting** 12-strand braided construction

Comparison of Megaton-X and a wire rope

	Dia (mm)	Breaking Strength (t)	Weight (kg/200m)	Degree of Elongation (%)
Wire Rope (JIS6x24 Grade:G)	16	11.9	170	3.0~4.0%
Megaton-X	16	15.3t	31.6	3.0~4.0%

Megaton-X			Wire Rope (JIS 6x24 Grade:G)		
dia (mm)	Breaking Strength (t)	Weight (kg/200m)	dia (mm)	Breaking Strength (t)	Weight (kg/200m)
12	8.89	17.8	12	6.72	95.6
14	10.9	24.2	14	9.15	130.2
16	14.2	31.6	16	11.9	170
18	17.1	40.0	18	15.1	216
20	20.1	48.4	20	18.7	266
22	24.1	58.6	22	22.6	322

Ropes for Purse Seine

【Megaton-X Rope】

Megaton-X					
Dia (mm)	Breaking Strength (kN)	Breaking Strength (t)	Weight (kg/100m)	Minimum Length (m)	Maximum Length (m)
6	22.8	2.33	2.2	100	400
8	34.0	3.47	4.0	100	400
9	49.1	5.01	5.3	50	200
10	57.3	5.84	6.2	50	200
12	87.2	8.89	8.9	50	200
14	107	10.9	12.1	50	1,000
16	139	14.2	15.8	50	1,000
18	168	17.1	20.0	50	800
20	197	20.1	24.2	50	800
22	236	24.1	29.3	50	400
24	279	28.4	34.9	50	400
26	325	33.1	41.0	50	400
28	388	39.6	47.5	50	400
30	456	46.5	55	50	200
32	508	51.8	62	50	200
34	576	57.8	70	50	200
36	628	64.0	79	50	200
38	685	69.9	88	50	200
40	744	75.9	97	50	200
42	811	82.7	107	50	100
44	881	89.8	118	50	100
46	940	95.9	128	50	100
48	1000	102	140	50	100
50	1098	112	152	50	100

Ropes for Purse Seine

【High Blend -3 Rope】



Material : **Polypropylene & Polyester**
Construction : 3 Strand
Specific Gravity : 1.09
Color : Blue

Benefits of PP and PES
&
Nylon-rope-level strength

- ★Low elongation
- ★Excellent UV resistance
- ★Excellent abrasion resistance
- ★Minimal strength loss when wet

Dia (mm)	Breaking Strength (t)	Breaking Strength (kN)	Weight (kg/200m)	Dia (mm)	Breaking Strength (t)	Breaking Strength (kN)	Weight (kg/200m)
3	0.2	2.0	1.1	30	14.3	140	110
4	0.3	3.3	1.96	32	16.1	158	126
5	0.5	5.1	3.07	34	18.0	176	142
6	0.7	7.2	4.42	35	19.0	186	150
7	1.0	9.5	6.01	36	20.6	202	159
8	1.2	12.2	7.85	38	23.3	228	177
9	1.5	15.1	9.94	40	25.1	246	196
10	1.9	18.3	12.3	42	27.5	270	216
12	2.6	25.8	17.7	45	31.2	306	248
14	3.5	34.2	24.0	50	38.3	375	307
16	4.5	43.8	31.4	55	46.7	458	371
18	5.6	54.5	39.7	60	53.2	522	441
20	6.8	66.2	49.1	65	61.9	607	518
22	8.1	79.0	59.4	70	72.0	706	601
24	9.5	92.8	70.7	75	83.4	818	690
26	11.0	108	82.9	80	93.5	917	785
28	12.6	124	96.2	85	106	1,044	886
				90	117	1,148	993

Ropes for Purse Seine

【High Blend -8 Rope】



Material : **Polypropylene & Polyester**
Construction : 8(2 × 4)
Specific Gravity : 1.09
Color : Blue

Benefits of PP and PES
&
Nylon-rope-level strength

- ★Low elongation
- ★Excellent UV resistance
- ★Excellent abrasion resistance
- ★Minimal strength loss when wet

Dia (mm)	Breaking Strength (t)	Breaking Strength (kN)	Weight (kg/200m)	Dia (mm)	Breaking Strength (t)	Breaking Strength (kN)	Weight (kg/200m)
6	0.7	7.2	4.2	35	19.0	186	142
7	1.0	9.5	5.7	36	20.6	202	150
8	1.2	12.2	7.4	38	23.3	228	167
9	1.5	15.1	9.4	40	25.1	246	185
10	1.9	18.3	11.6	42	27.5	270	205
12	2.6	25.8	16.7	45	31.2	306	234
14	3.5	34.2	22.7	50	38.3	375	288
16	4.5	43.8	29.6	55	46.7	458	349
18	5.6	54.5	37.4	60	53.2	522	415
20	6.8	66.2	46.2	65	61.9	607	487
22	8.1	79.0	55.9	70	72.0	706	566
24	9.5	92.8	66.6	75	83.4	818	649
26	11.0	108	78.1	80	93.5	917	739
28	12.6	124	90.6	85	106	1,044	834
30	14.3	140	104	90	117	1,148	935
32	16.1	158	119	95	130	1,272	1,042
34	18.0	176	134	100	144	1,410	1,155

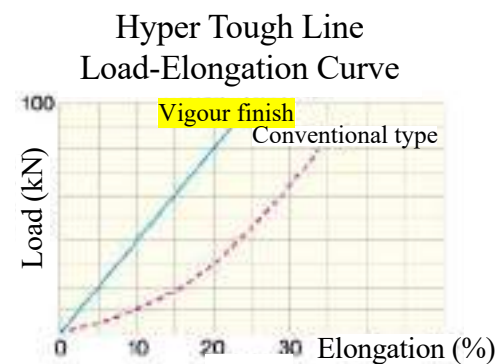
Ropes for Purse Seine

【Hyper Tough Line -3 Rope】



Material : High-tenacity Polypropylene
Construction : 3 strand
Specific Gravity : 0.91
Color : Light gray, White, Black or Blue

- ☆10% higher strength than conventional PP ropes
- ☆Excellent flexibility
- ☆Excellent resistance to abrasion and UV degradation
- ☆**Vigour finish** improved dimensional stability.



Dia (mm)	Breaking Strength (t)	Breaking Strength (kN)	Weight (kg/200m)	Dia (mm)	Breaking Strength (t)	Breaking Strength (kN)	Weight (kg/200m)
10	1.6	15.5	10.5	30	12.6	123	92.2
11	1.9	18.5	12.6	32	14.0	138	105
12	2.2	21.6	15.0	34	15.5	154	119
14	3.0	29.8	20.6	35	16.6	163	125
16	3.8	37.2	26.1	36	17.4	171	132
18	4.8	47.2	33.6	38	19.2	188	146
20	5.7	55.9	41.1	40	21.1	207	165
22	7.1	69.5	50.7	42	23.4	230	181
24	8.2	80.7	59.7	45	26.1	256	207
26	9.5	93.1	69.0	50	32.2	316	255
28	10.8	105.5	79.6				

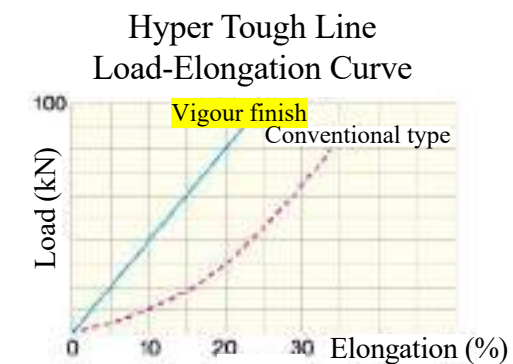
Ropes for Purse Seine

【Hyper Tough Line -8 Rope】



Material : **High-tenacity Polypropylene**
Construction : 8(2 × 4)
Specific Gravity : 0.91
Color : Light gray, White, Black or Blue

- ☆10% higher strength than conventional PP ropes
- ☆Excellent flexibility
- ☆Excellent resistance to abrasion and UV degradation
- ☆**Vigour finish** improved dimensional stability.



Dia (mm)	Breaking Strength (t)	Breaking Strength (kN)	Weight (kg/200m)	Dia (mm)	Breaking Strength (t)	Breaking Strength (kN)	Weight (kg/200m)
10	1.6	15.5	10.3	30	12.6	123	92.9
11	1.9	18.5	12.8	32	14.0	138	106
12	2.2	21.6	15.5	34	15.5	154	119
14	3.0	29.8	19.4	35	16.6	163	126
16	3.8	37.2	26.5	36	17.4	171	133
18	4.8	47.2	33.4	38	19.2	188	148
20	5.7	55.9	41.3	40	21.1	207	165
22	7.1	69.5	49.9	42	23.4	230	183
24	8.2	80.7	59.4	45	26.1	256	209
26	9.5	93.1	69.7	50	32.2	316	257
28	10.8	105.5	81.0				

Twines

【Nylon Braided Twine】



Dia (mm)	Weight (g/m)	Weight (kg/pcs)	Length (m)	Package
3.0	5.71	2.0	350	Box, Coil, Spool
3.5	8.0	2.0	250	Box, Coil, Spool
4.0	10.0	2.0	200	Coil, Spool
4.5	13.5	2.7	200	Coil, Spool
5.0	16.5	3.3	200	Coil, Spool
6.0	18.0	3.6	200	Coil, Spool
7.0	23.5	4.7	200	Coil, Spool
8.0	37.0	7.4	200	Coil, Spool
9.0	45.0	9.0	200	Coil
10.0	62.5	12.5	200	Coil
11.0	75.0	15.0	200	Coil
12.0	85.0	17.0	200	Coil
14.0	110.0	22.0	200	Coil
16.0	140.0	28.0	200	Coil

Material : Nylon

Color : White, Black

Twines

【Polyester Braided Twine】



Dia (mm)	Weight (kg/pcs)	Length (m)	Strength (kN)
2	2.5	800	1.1
2.5	2.5	600	1.5
3	2.5	400	2.2
3.5	2.5	300	3
4	2.5	240	3.7
4.5	2.5	200	4.5
5	2.5	170	5.3
6	4.4	200	7.9
7	6.2	200	11.1
8	8.0	200	14.4
9	10.0	200	18.0
10	12.4	200	22.3
12	17.8	200	32.0

Weather-resistant polyester braided twine is easy to handle and provides secure knot holding.

Twines

【Polytex Twisted Twine】



Material: Polyester and polyethylene
Construction: 3 strand
Direction of twist: Z twist
Color: White and light gray



The rope shrinks when it is wet.
Knotted parts shrink and are tightened in the water.

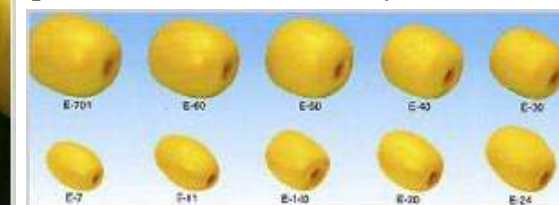
Item No.	Dia	Breaking Strength (kg)	Breaking Strength (kN)	Weight (g/m)	Shape	Size	No. of unit per package (pcs)
	(mm)					(kg)	
PTW25	2.19	53.2	0.52	2.5	Ball	2.5	10
PTW32	2.39	63.2	0.62	3.2	Ball	2.5	10
PTW5	2.96	96.5	0.95	5.0	Ball	2.5	10
PTW75	4.00	162	1.59	7.5	Ball	2.5	10
PTW10	4.27	183	1.79	10.0	Ball	2.5	10
PTW10-5	4.27	183	1.79	10.0	Coil	5.0	5
PTW125	4.53	226	2.22	12.5	Ball	2.5	10
PTW125-5	4.53	226	2.22	12.5	Coil	5.0	5
PTW15	4.96	274	2.69	15.0	Coil	5.0	5
PTW20	6.50	405	3.97	20.0	Coil	5.0	5
PTW25	7.50	530	5.20	25.0	Coil	5.0	5
PTW25-10	7.50	530	5.20	25.0	Coil	10.0	4
PTW375	8.70	695	6.82	37.5	Coil	10.0	4
PTW45	9.40	800	7.85	45.0	Coil	10.0	4
PTW50	9.50	815	7.99	50.0	Coil	10.0	4
PTW625	11.0	1,060	10.4	62.5	Coil	10.0	4
PTW90	14.0	1,665	16.3	90.0	Coil	10.0	4

Floats

【Efloat】



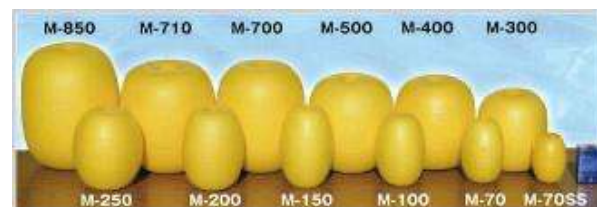
Efloat is a series of EVA floats for purse seine and set net fisheries, trusted since 1978 for proven performance and reliability.



Article	Buoyancy (g)	Weight (g)	Color	Dimensions (mm)			Quantity Per Carton (pcs)
				Length	Diameter	Hole	
E-701	6,800	1,147	Yellow/Red/White	249	236	38	18
E-60	5,600	972	Yellow/Red	225	223	38	18
E-50	5,000	846	Yellow	226	217	37	24
E-40	4,200	765		203	200	33	24
E-33	3,000	520		188	176	33	30
E-30	2,700	438		177	169	33	30
E-24	2,100	370		177	152	27	45
E-20	1,800	313		180	142	26	60
E-140	1,300	231		165	128	26	60
E-11	766	135		170	104	24	100
E-7	600	105		136	95	15	100

Floats

【Polyten Float】



Polyten Float is a durable EVA float offering excellent weather resistance, abrasion resistance, and flexibility. Its one-piece molded construction prevents peeling around the rope hole, while the closed-cell foam structure provides virtually zero water absorption.

Article	Buoyancy (g)	Weight (g)	Color	Dimensions (mm)			Quantity Per Carton (pcs)
				Length	Diameter	Hole	
M-850	8,500	1,375	Yellow/Red/White	285	245	40	12
M-710	7,000	1,160		245	235	40	18
M-700	6,300	1,030		250	220	40	18
M-500	5,200	880		222	215	40	24
M-400	4,000	675		205	195	35	30
M-300	3,000	500		185	175	32	36
M-250	2,500	380		183	160	30	45
M-200	2,000	325	Yellow	180	145	22	60
M-150	1,500	250		180	130	28	75
M-150H	1,400	250		178	128	22	75
M-100	1,000	180		162	115	20	108
M-70	720	115		150	108	20	160
M-70SS	300	115		113	76	20	108

Floats

【Polyform Float】



Suitable for floating, marking or mooring longline, gill net, drift net, set net and lobster/crab pots.

Features:

- Uniform wall thickness for maximum strength and durability
- Polyform's unique vinyl valve system
- Reinforced rope hold for enhanced strength and durability
- Dual inflation/deflation valve system (A-5, A-6, A-7)
- Ideal for rafting applications
- Available in seven high-visibility colors

Article	Buoyancy (g)	Weight (g)	Color	Dimensions (mm)				Quantity Per Carton (pcs)
				Diameter	Circumference	Length	Eye Hole	
A-0	6	0.6	Red	23.5	74.0	28.0	2.5	20
A-1	13	1.15		30.5	99.0	39.0	2.2	10
A-2	32	2.1		39.5	126.0	51.0	2.5	10
A-3	52	3.1		47.5	155.0	62.0	2.8	7
A-4	90	4.1		58.0	190.0	73.0	2.8	7
A-5	215	8.3		76.4	240.0	94.0	3.0	5
A-6	405	11.3		94.2	260.0	119.0	3.8	3
A-7	670	21		110.0	346.0	142.0	4.8	2

Bio-based biodegradable materials for FAD



Manufacturing FADs using bio-based biodegradable materials (primarily PLA) offers the following advantages:

- ① Possesses approximately 70% of the mechanical properties of synthetic nylon while achieving superior durability compared to natural fibers
- ② Enables rapid seaweed growth, effectively attracting fish schools
- ③ Capable of long-term marine degradation even if released into the ocean (ISO certification under consideration through Japan's NEDO project)
- ④ Minimal impact on marine organisms even when microplasticized in the ocean

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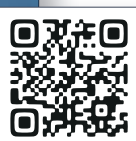
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