TERMS of USE

FUNCTION / SUB FUNCTION		OFFERING DATA	ACCESS	PRICE
General	Main Dimension	_	_	Included in basic rate
Search	Search Model Ship	Principal particulars in model ship database	No limit	
	Cra / Cw	Cra / Cw		
	Curve			
Hull Form Create	Result Report			
	Body Plan	Type Ship Body Plan		
	Cp Curve	Cp Curve		
Power Prediction	Condition Set	M-S Correlation, Air Allowance, etc.		
	Power Curve	Power Curve		
	Detail Report	Calc. Result	50 ships per year	
Output	Hull Form Download	Created Ship Hull Form	5 ships per year	Premium

^{*} More accesses over the limit are available for additional charge.

DATABASE of MODEL TEST

Number of data	Model Test : Over 1,200 cases Hull Form : Over 420 cases	
	Bulk Carrier	
	Ore Carrier	
	Tanker	
	Product Carrier	
	LNG Carrier	
Ship Type	LPG Carrier	
Gillp Type	General Cargo Ship	
	Reefer	
	Container Ship	
	PCC / PCTC	
	RORO	
	Ferry / RoPax	
	Passenger Ship	
Pango of	Lpp / B : 3.9 ~ 7.4	
Range of Principal Particulars	B / d : 2.2 ~ 6.4	
i imolpai i articulars	Cb: 0.3 ~ 0.9	

Additional Services





220-8401, Japan

3-1, Minatomirai 3-chome, Nishi-ku, Yokohama, Kanagawa,

MITSUBISHI SHIPBUILDING POWER PREDICTION & LINES SELECTION WEBSITE

www.mhi.com/jp/products/ship/engineering_mipolin.html ENGLISH www.mhi.com/products/ship/engineering_mipolin.html

Contact Us MiPoLin@mhi.com





MITSUBISHI SHIPBUILDING **POWER PREDICTION & LINES SELECTION**

The "Power Prediction & Lines Selection" system is a Web-based application based on the database of model test results accumulated in MHI Nagasaki Model Basin for over 100 years.

Flow Diagram

Features

- This application enables users to utilize vast model testing database consisted of over 1,200 cases for various kinds of ships obtained in Model Test Basin of MHI in Nagasaki.
- Type ship are selected from database referring to principal particulars for the study, and model testing results of type ship (ex. resistance curves) can be checked.
- Prismatic coefficient curve and hull form for the study are created from the type ship. Power prediction is also executed.
- The hull form are supplied as offset data in Mitsubishi standard format. The data can be converted into NAPA 3D hull with a free-of-charge macro attached to this app browser page.
- This web-based application is accessible from wherever the Internet connection is available, using typical web browsers,



Model Basin of Mitsubishi Heavy Industries, in Nagasaki

Internet System Configuration **Clients** MHI Network **Power Prediction** & Lines Selection

Clients will access to the web site for the system located in MHI network.

Define Particulars Model for Study

Type Ship Selection Form Creation

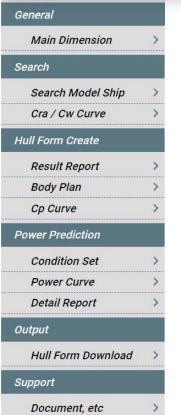
Check Body Plan / Cp Curve

Draw Speed vs Power Curve

* Number of execution is limited (See "TERMS of USE" on next page.)

MITSUBISHI SHIPBUILDING

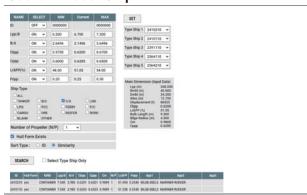
POWER PREDICTION & LINES SELECTION



Contact Us

Search Model Ship

Cp Curve



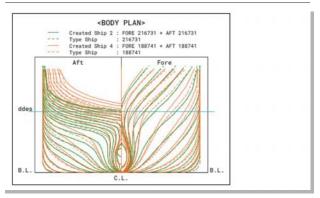
DRAW

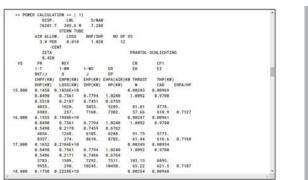
Cra / Cw Curve

Power Curve

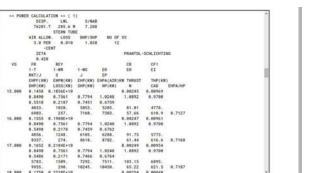


Body Plan





Power Prediction > Detail Report



Search Model Ship

- Model ships with principal particulars close to design ship are offered from the database of our model basin.
- Type ships are selected from the offered model ships on user's judgement.
- Resistance coefficient is estimated from each type ships model testing database. (Cra, Cw Curve)

Hull Form Create

- Hull form is created from the selected type ship's hull data with defined particulars for design ship.
- Body Plan / Cp curve of created ship can be compared with those of type ship and can be checked as a figure.

Power Prediction

- Parameters for calculation are set up automatically.
- Parameters for calculation are set up also manually.
- The speed & power curves / detail report are provided as output.

Hull Form Download

- It is possible to download Created hull form from this system as offset data in Mitsubishi standard format.
- Macro for converting downloaded hull form offset data into NAPA 3D hull is also available.

MITSUBISHI SHIPBUILDING Co., Ltd.