

DUTCH THRUSTER GROUP

AZIMUTH THRUSTERS



DTG branded azimuth thruster series

Optimized step size range of 120-2400 kW power

Available with Electric, Hydraulic or Diesel engine drive

Compatible with Steel, Aluminium & FRP vessels

Compliant with all major class societies and DP ratings

CONFIGURATION EXAMPLES

Drive types



E-motor



H-motor



Engine

Basic configurations



L-Drive



Z-Drive



Compact drive

Hull interfaces



Bolted

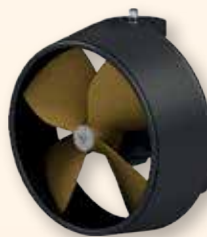


Welded

Propeller configurations



Sailing performance



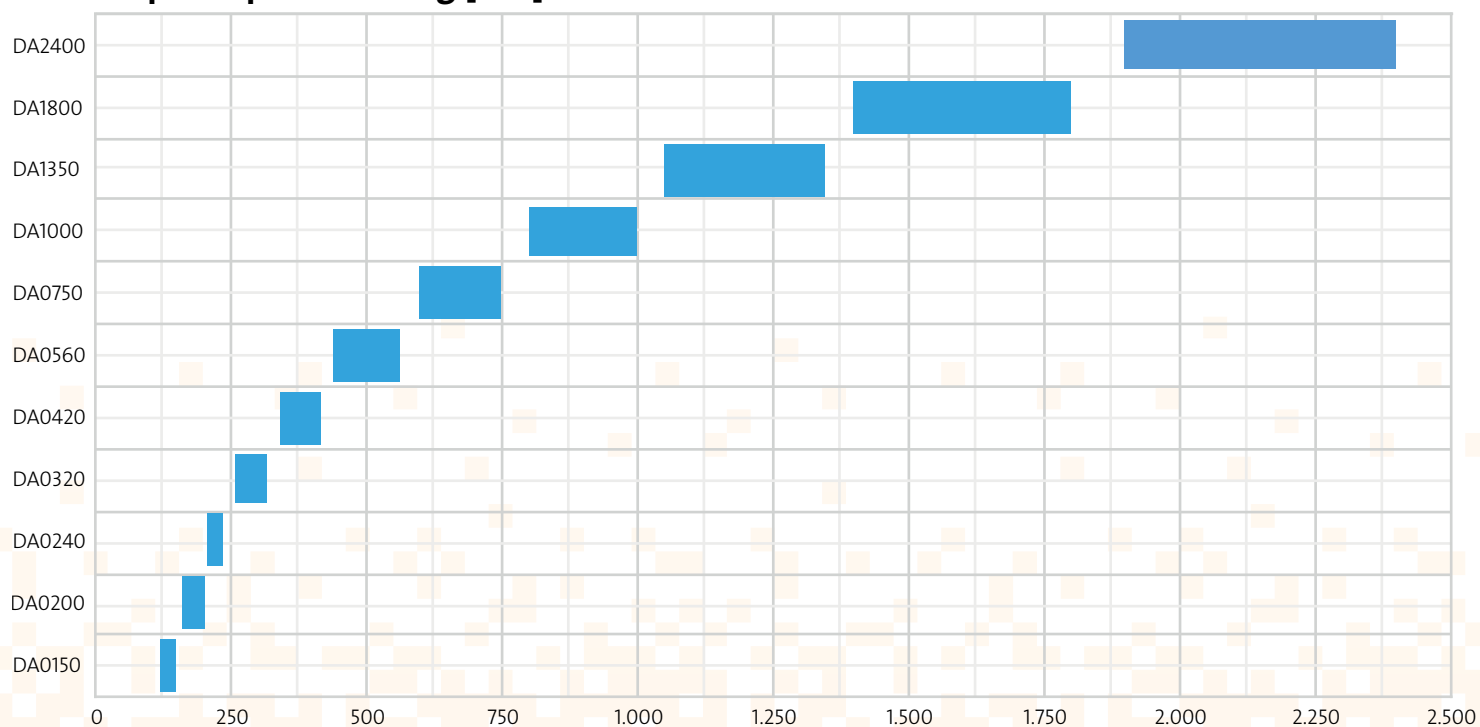
Thrust performance



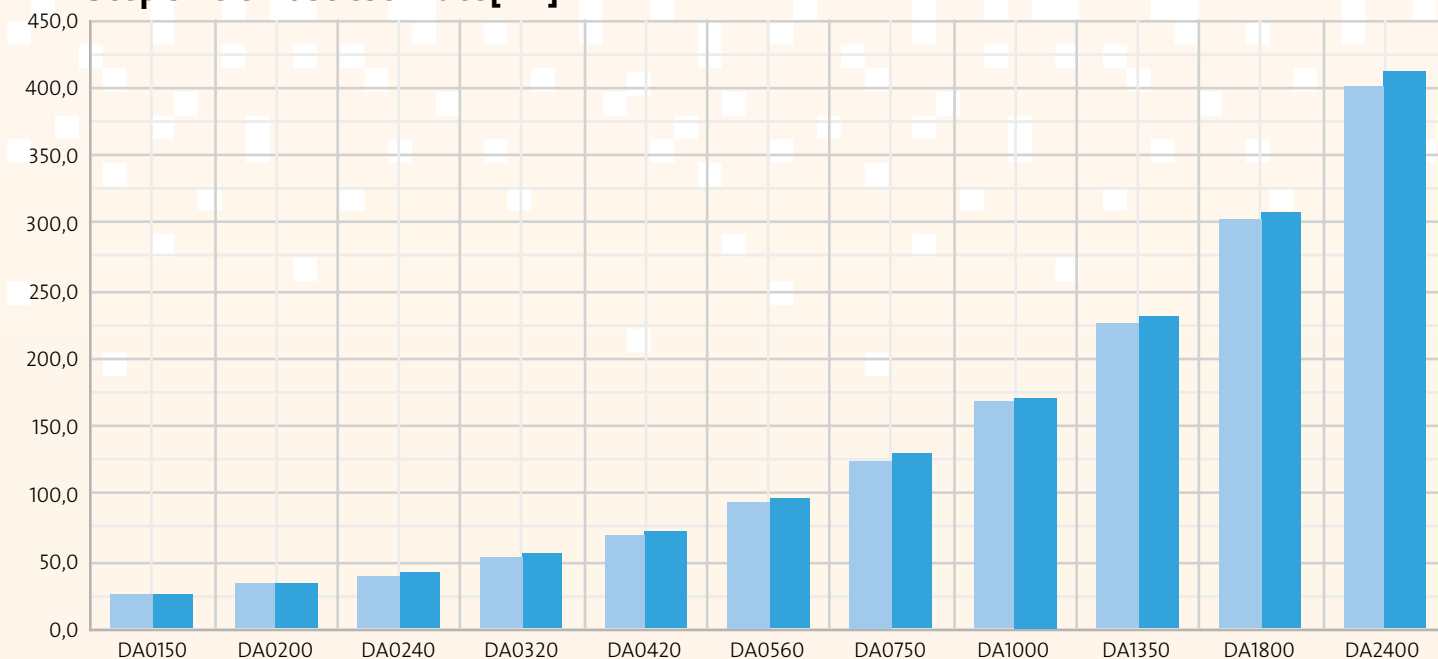
Shallow draught performance

RATING TABLES

Step size power rating [kW]



Step size thrust estimate[kN] *



DAZ**	25,1	33,5	40,2	53,5	70,3	93,7	125,5	167,3	225,9	301,2	401,5
DAL**	25,7	34,3	41,2	54,9	72,1	96,1	128,7	171,6	231,7	308,9	411,8

*Thrust estimates are based on zero speed conditions and nozzled fixed pitch propellers

** DAZ = DTG Azimuth Z-drive thruster | DAL= DTG Azimuth L-drive thruster

The configuration examples and rating tables are non-exhaustive. Contact us in case of special applications, smaller or larger thruster step sizes, alternative thruster types or out of the box solutions!

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THE DTG APPROACH



DUTCH THRUSTER GROUP

Originating from the Netherlands, the Dutch Thruster Group is a global acting manufacturer and system integrator of propulsion systems. We provide our products and services in close cooperation with local sales and service representatives.

YOUR PROPULSION PARTNER

Whether you are a naval architect, a vessel owner or a purchaser at a shipyard, selecting the right propulsion system can be a challenging task.

As "your propulsion partner" we empower you with the tools and expertise to make a cost attractive selection for your application.



WHERE APPLIED

DTG branded products are typically applied in the following branches:

- Yacht Industry
- Mega yacht industry
- Merchant vessel industry
- Offshore industry
- Navy & Coast Guard



Contact details

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Product portfolio

Tunnel thruster systems

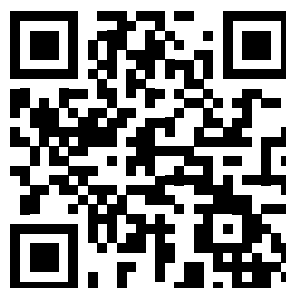
Azimuth thruster systems

Retractable thruster systems

Deck Mounted thruster systems

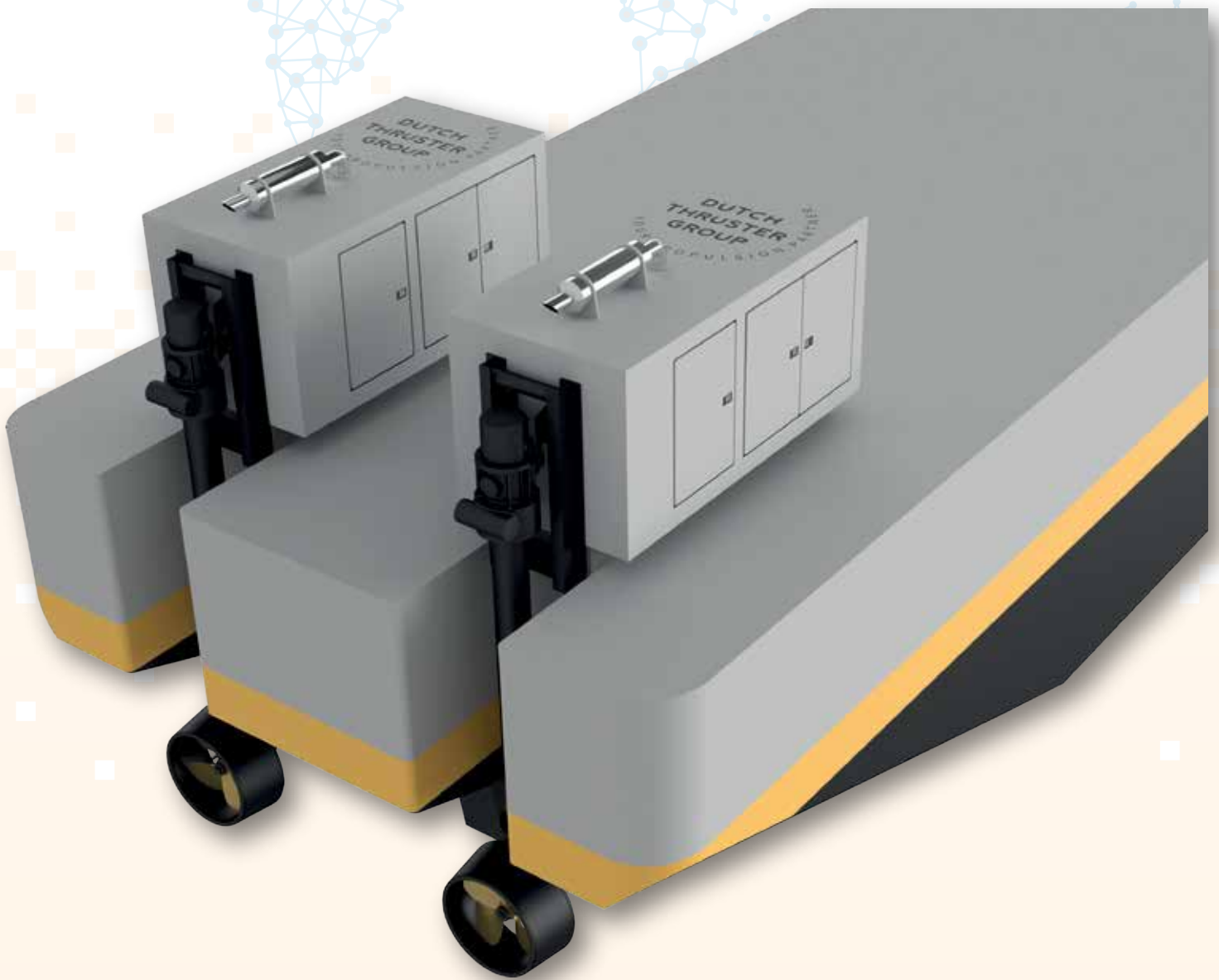
Shaft propulsion systems

Rudder & Steering systems



DUTCH THRUSTER GROUP

DECK MOUNTED THRUSTERS



DTG branded deck mounted thruster series

Optimized step size range of 120-2400 kW power

Available with Electric, Hydraulic or Diesel engine drive

Plug & Play application. No in-hull machinery space required

Compliant with all major class societies and DP ratings

CONFIGURATION EXAMPLES

Drive types



L-Drive Electric driven

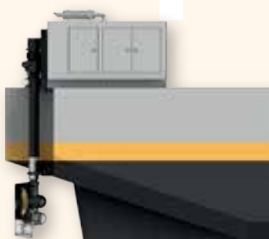


L-Drive Hydraulic driven

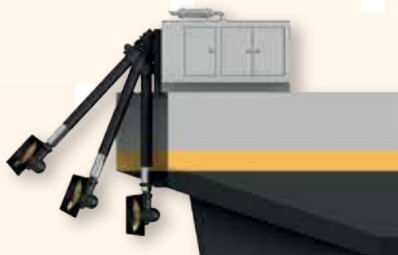


Z-drive Diesel Engine driven

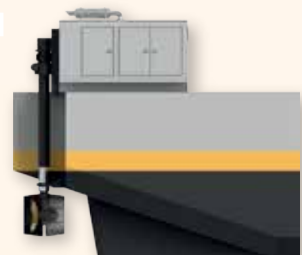
Common options



Retracting function for shallow water operation



Tilting function for propeller inspection



360 degrees 'zero tail' rotation

Propeller configurations



Sailing performance



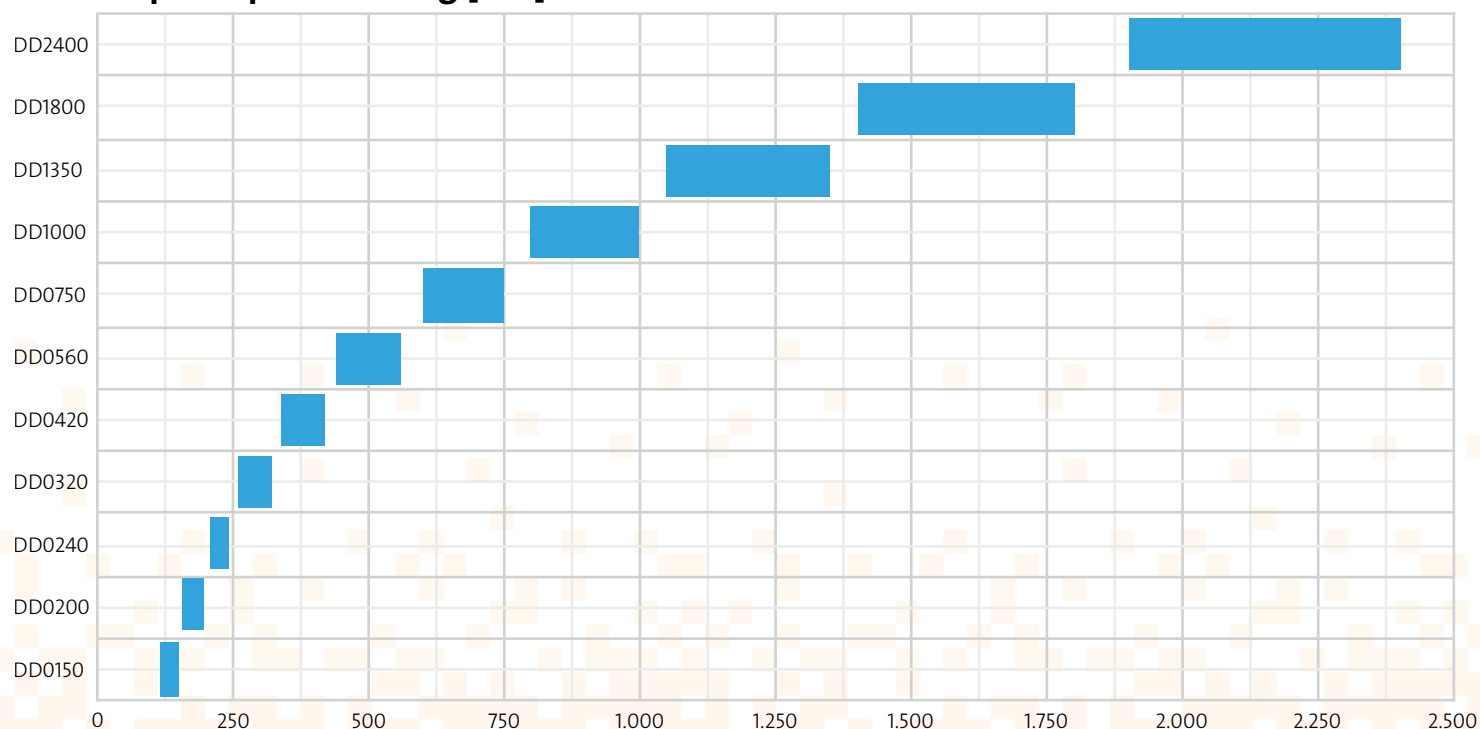
Thrust performance



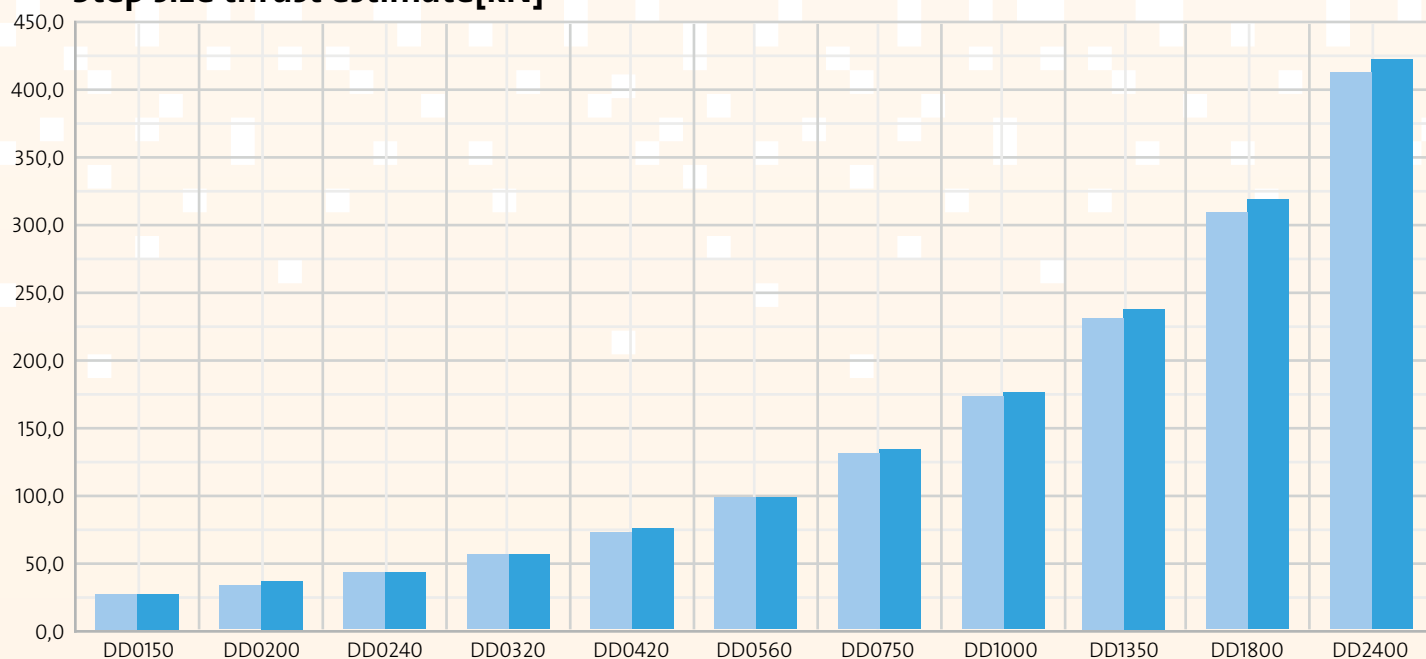
Shallow draught performance

RATING TABLES

Step size power rating [kW]



Step size thrust estimate[kN] *



DDZ**	25,1	33,5	40,2	53,5	70,3	93,7	125,5	167,3	225,9	301,2	401,5
DDL**	25,7	34,3	41,2	54,9	72,1	96,1	128,7	171,6	231,7	308,9	411,8

*Thrust estimates are based on zero speed conditions and nozzled fixed pitch propellers

** DDZ = DTG Deck mounted Z-drive thruster | DDL= DTG Deck mounted L-drive thruster

The configuration examples and rating tables are non-exhaustive. Contact us in case of special applications, smaller or larger thruster step sizes, alternative thruster types or out of the box solutions!

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Tunnel thruster systems

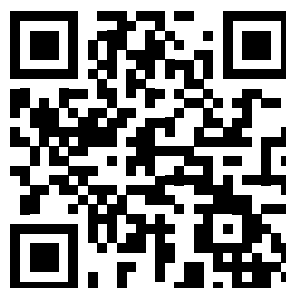
Azimuth thruster systems

Retractable thruster systems

Deck Mounted thruster systems

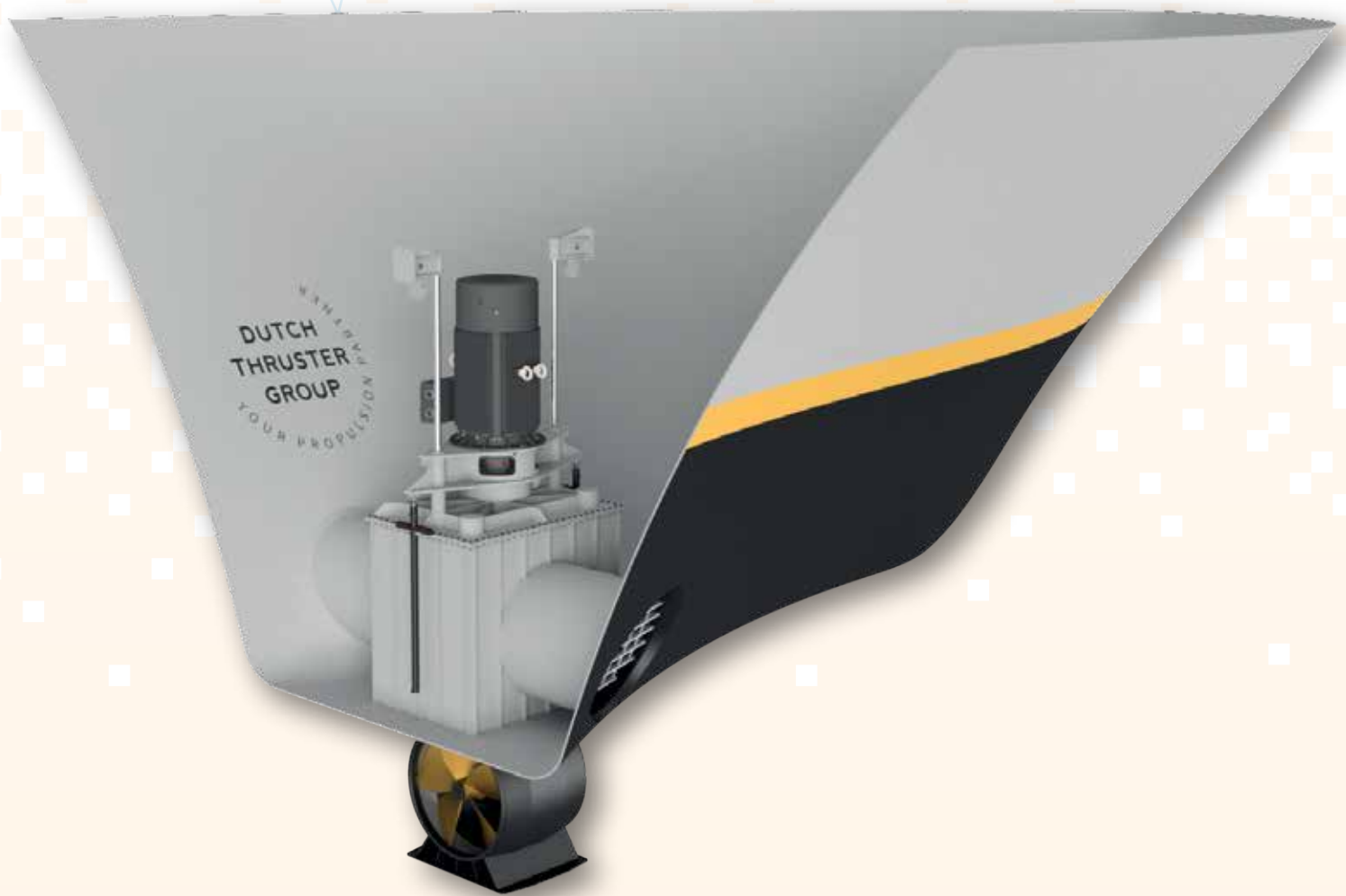
Shaft propulsion systems

Rudder & Steering systems



DUTCH THRUSTER GROUP

RETRACTABLE THRUSTERS



DTG branded retractable thruster series

Optimized step size range of 20-2400 kW power

Available with Electric, Hydraulic or Diesel engine drive

Compatible with Steel, Aluminium & FRP vessels

Compliant with all major class societies and DP ratings

CONFIGURATION EXAMPLES

Main variants



retractable tunnel thruster



retractable azimuth thruster



retractable azimuth tunnel
thruster combination

Drive types



L-Drive with E-motor



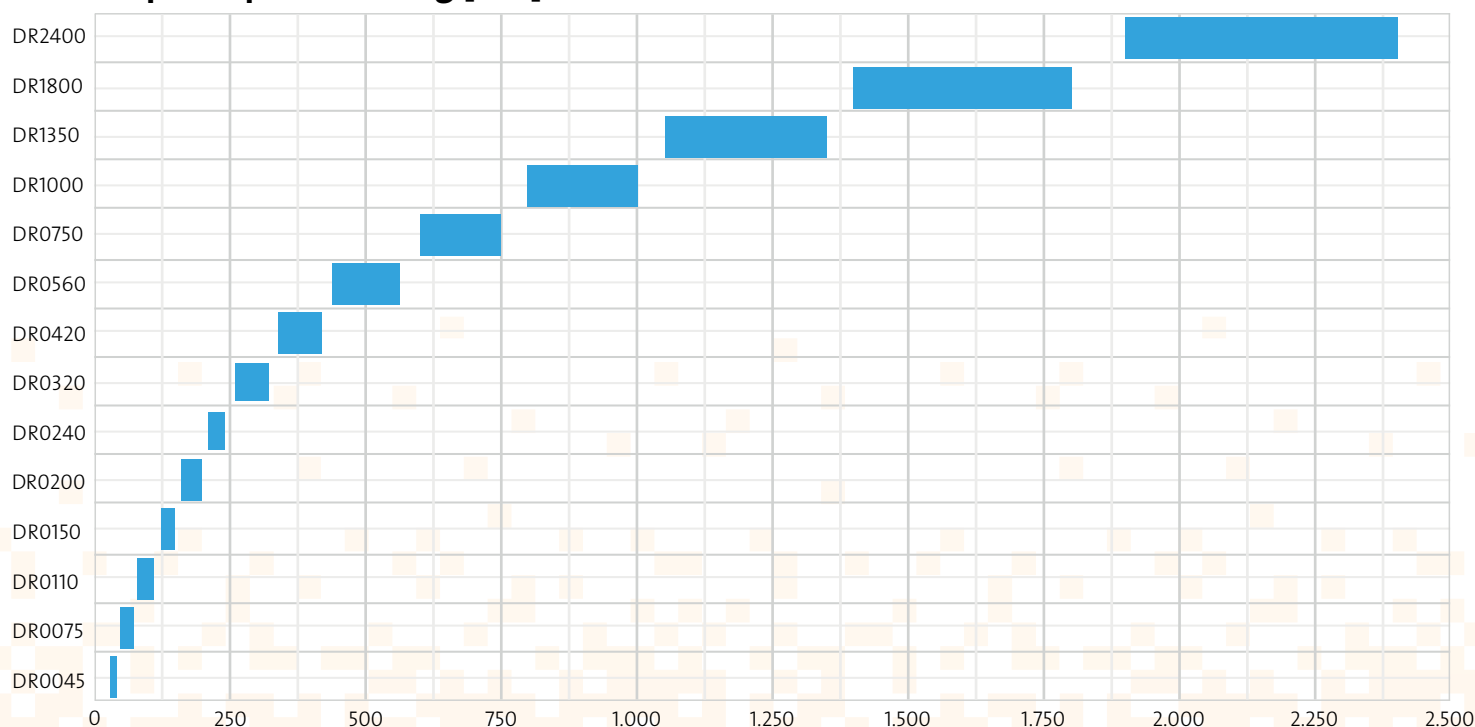
L-Drive with H-motor



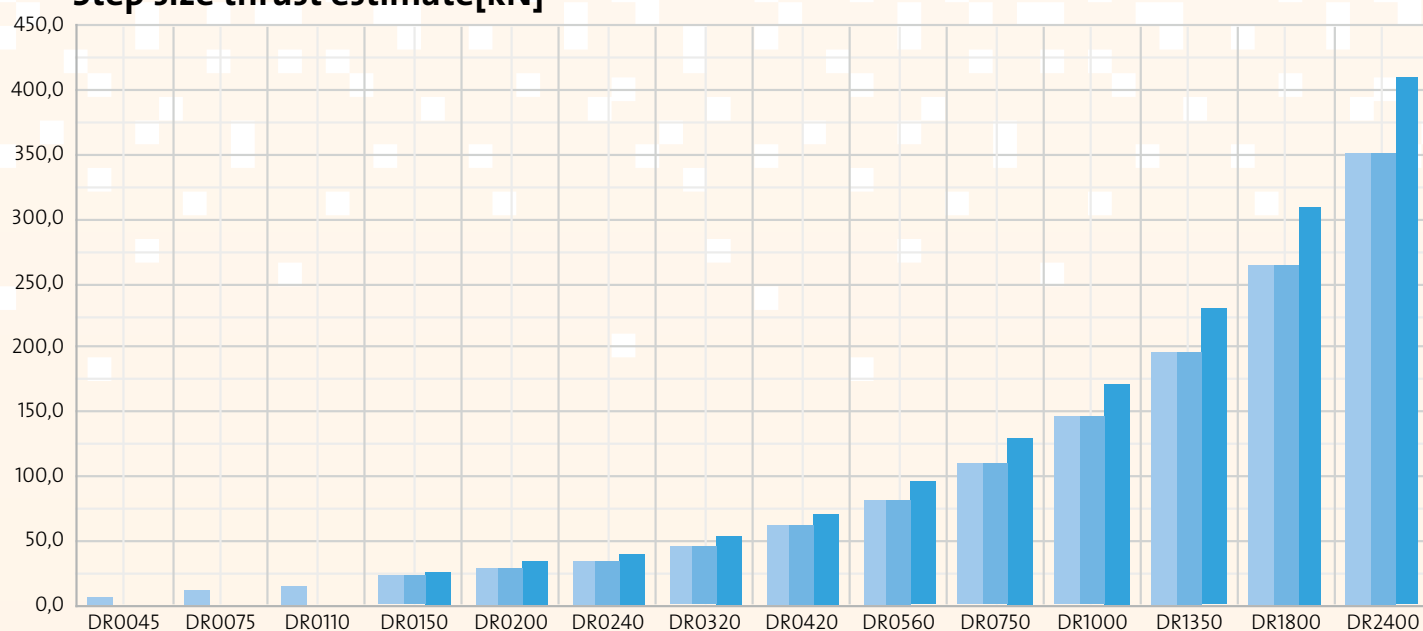
Z-Drive for Diesel Engine
or E-motor

RATING TABLES

Step size power rating [kW]



Step size thrust estimate[kN] *



DRT**	6,6	11,0	16,1	21,9	29,3	35,1	46,8	61,4	81,9	109,7	146,3	197,4	263,3	351,0
DRAT**				21,9	29,3	35,1	46,8	61,4	81,9	109,7	146,3	197,4	263,3	351,0
DRA**				25,7	34,3	41,2	54,9	72,1	96,1	128,7	171,6	231,7	308,9	411,8

*Thrust estimates are based on zero speed conditions and fixed pitch propellers

** DRT = DTG Retrable Tunnel thruster | DTG Retractable Azimuth thruster | DTG Retractable Azimuth Tunnel thruster

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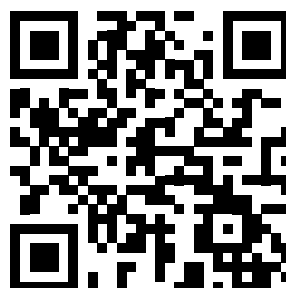
Azimuth thruster systems

Retractable thruster systems

Deck Mounted thruster systems

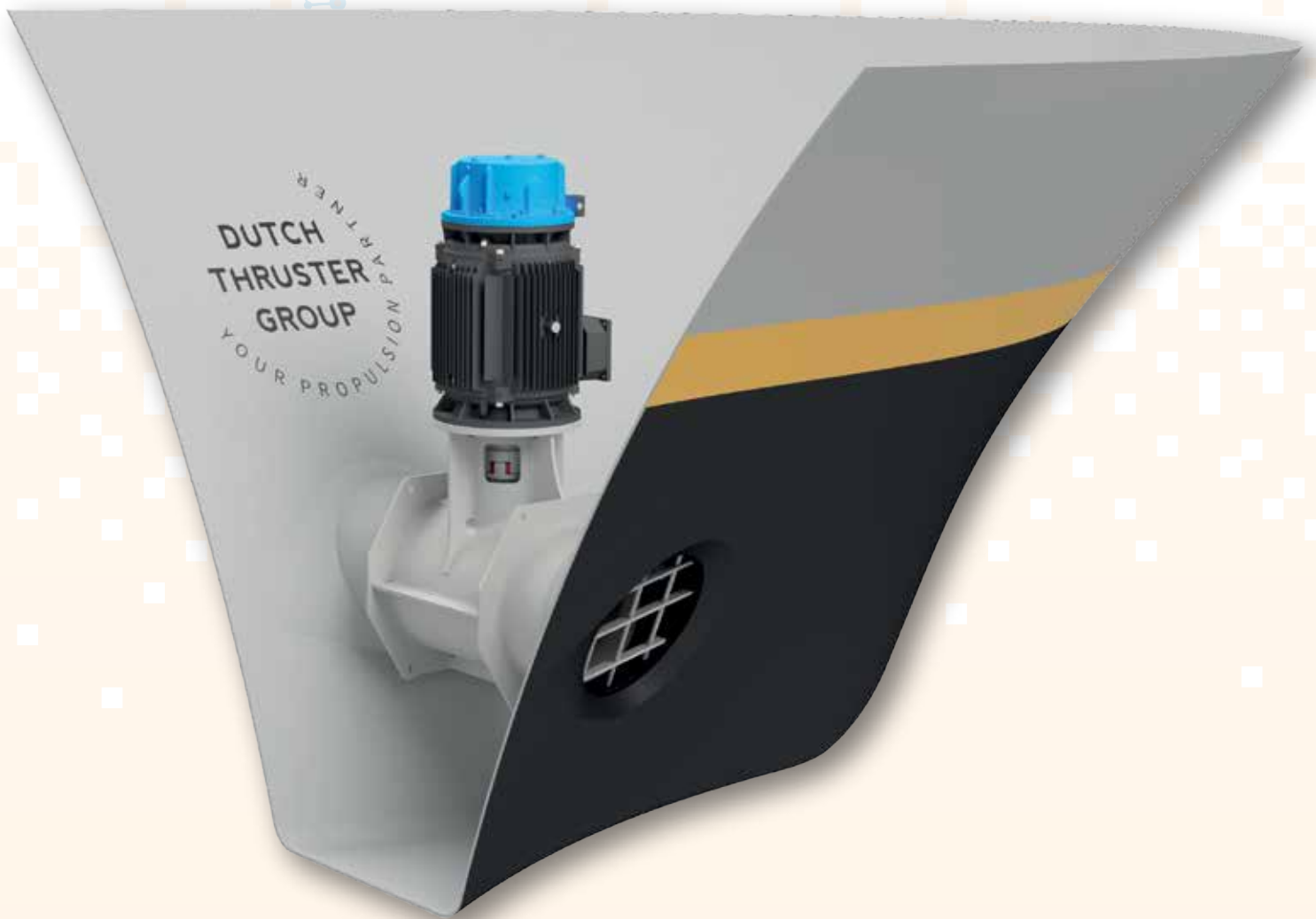
Shaft propulsion systems

Rudder & Steering systems



DUTCH THRUSTER GROUP

TUNNEL THRUSTERS



DTG branded tunnel thruster series

Optimized step size range of 20-2400 kW power

Available with Electric, Hydraulic or Diesel engine drive

Compatible with Steel, Aluminium & FRP vessels

Compliant with all major class societies and DP ratings

CONFIGURATION EXAMPLES

Drive types



E-motor



H-motor



Diesel engine

Hull materials



Steel



Aluminium



FRP & wood

Narrow hull applications



Horizontal flange mount



Vertical intermediate shaft



Multiple smaller thrusters

Wide hull applications



Segmented
tunnel structure



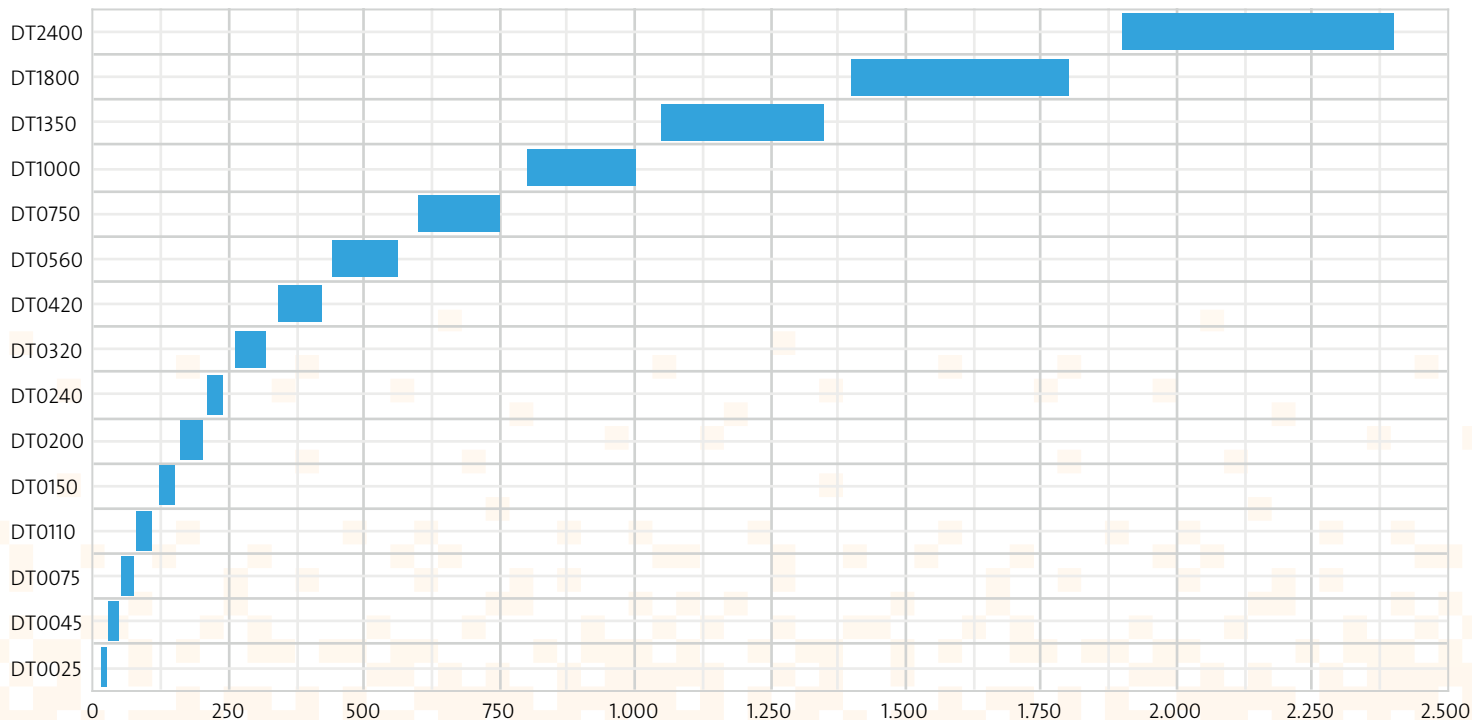
semi-segmented
tunnel structure



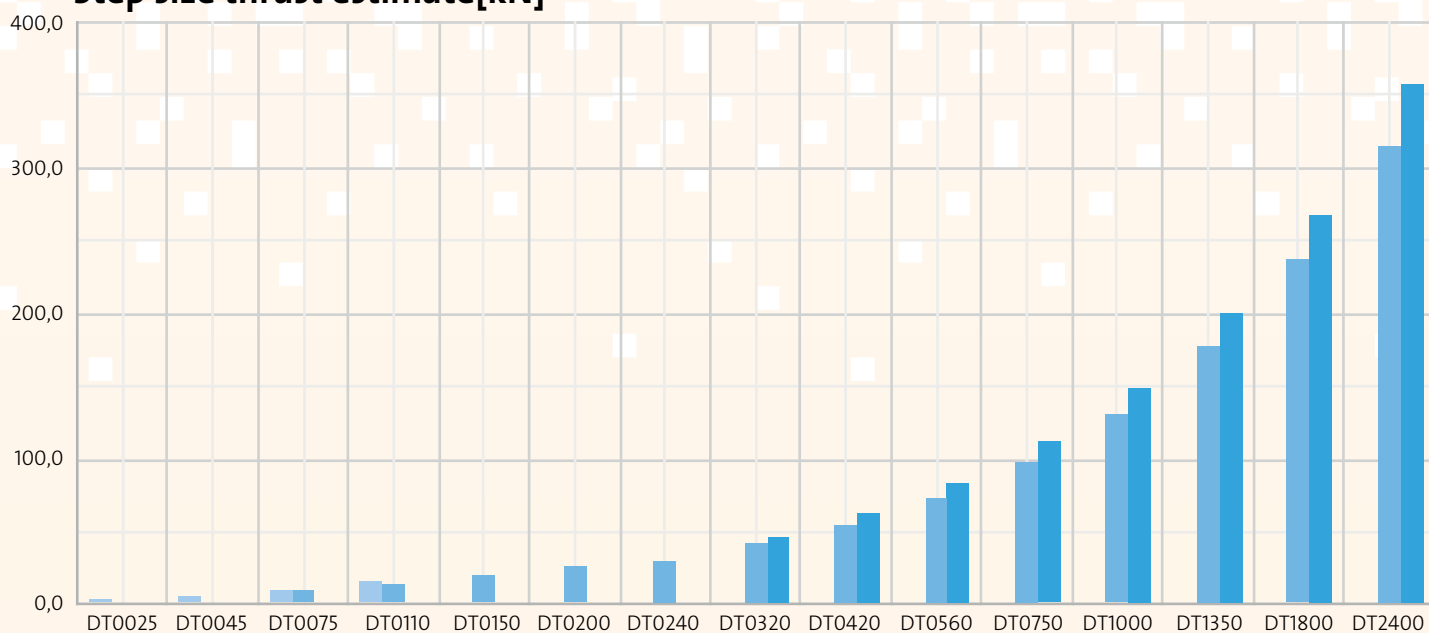
Gondola mounted
tunnel structure

RATING TABLES

Step size power rating [kW]



Step size thrust estimate[kN] *



CRP**	3,6	6,5	10,9	15,9											
FPP**			9,9	14,5	19,7	26,3	31,6	42,1	55,3	73,7	98,7	131,6	177,7	236,9	315,9
CPP**								47,7	62,7	83,5	111,9	149,2	201,4	268,5	358,0

*Thrust estimates are based on zero speed conditions, standard tunnel length and smooth grids at tunnel openings

** CRP = Contra Rotating Propeller | FPP = Fixed Pitch Propeller | CPP = Controllable Pitch Propeller

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