

# 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



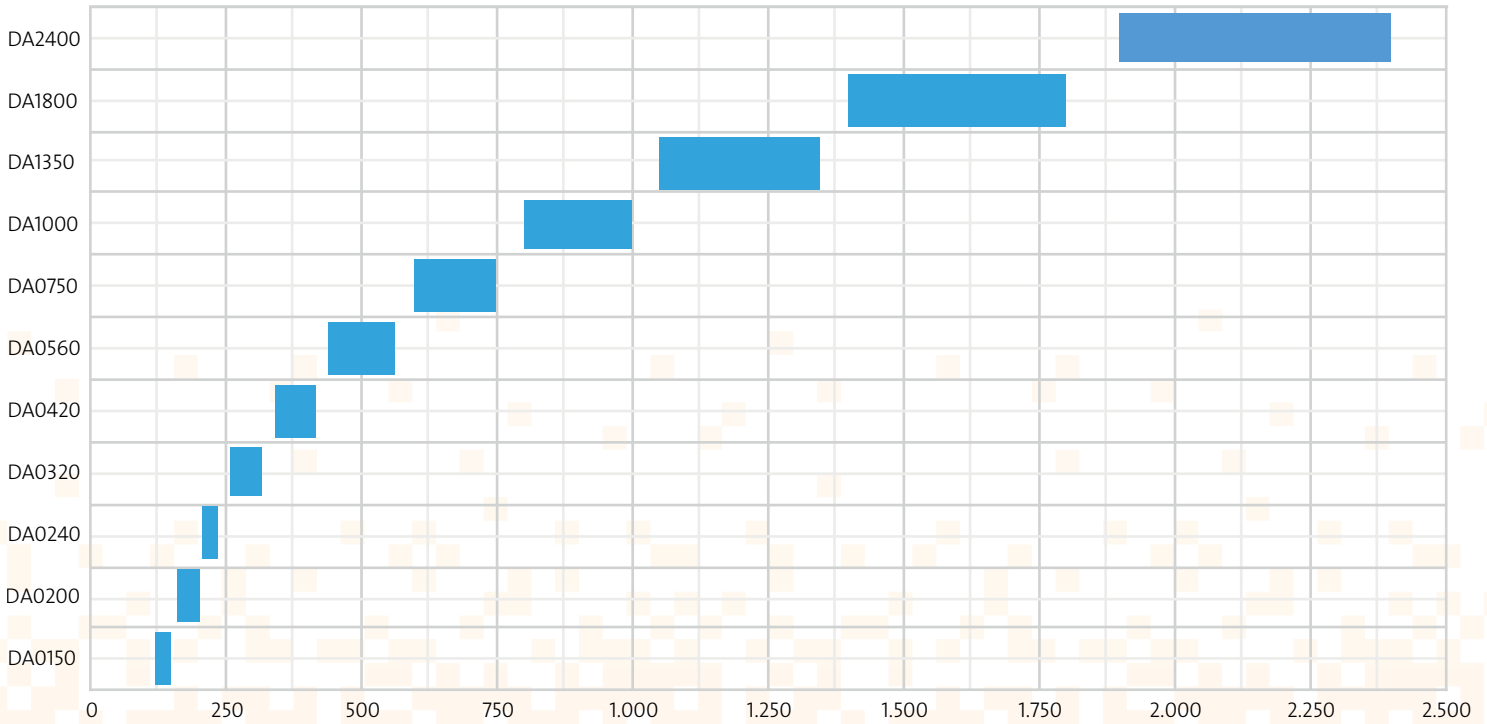
Thrust performance



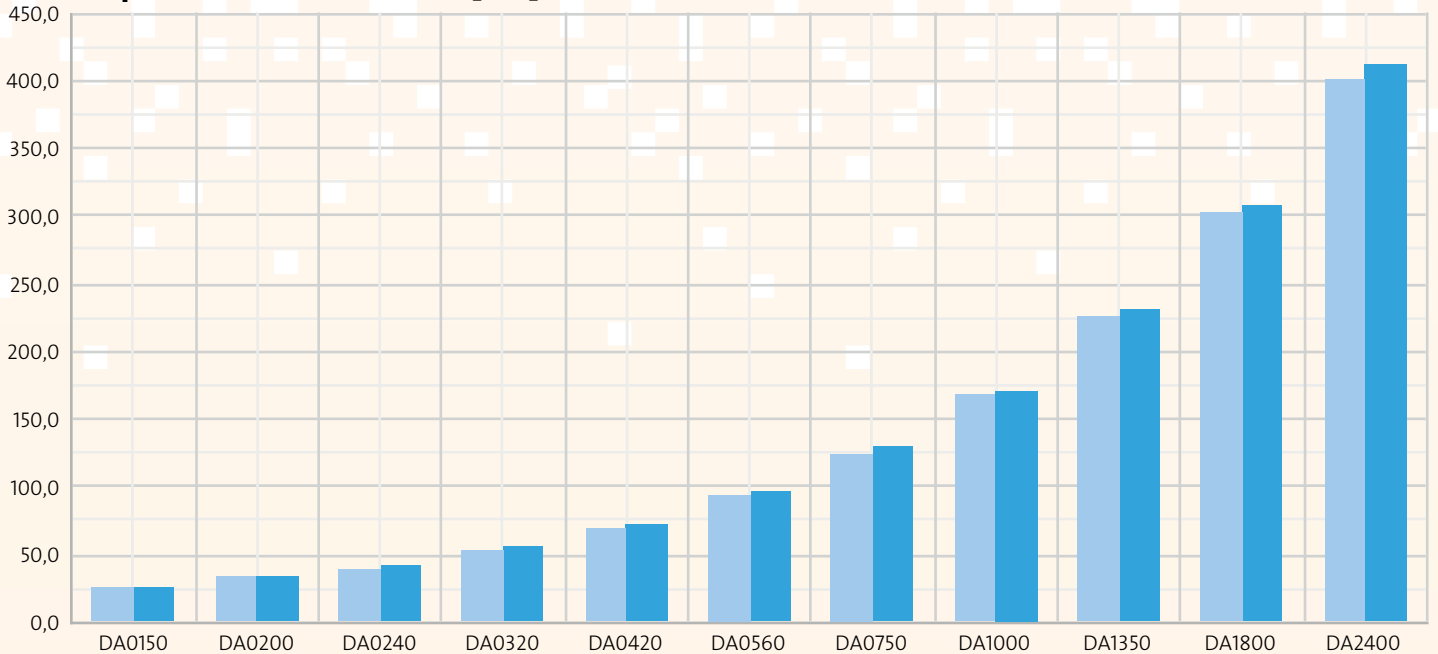
Shallow draught performance

# RATING TABLES

## Step size power rating [kW]



## Step size thrust estimate [kN] \*



<b>DAZ**</b>	25,1	33,5	40,2	53,5	70,3	93,7	125,5	167,3	225,9	301,2	401,5
<b>DAL**</b>	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  
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YOUR PROPULSION PARTNER

## 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

Dutch Thruster Group BV

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### Product portfolio

Tunnel thruster systems

**Azimuth thruster systems**

Retractable thruster systems

Deck Mounted thruster systems

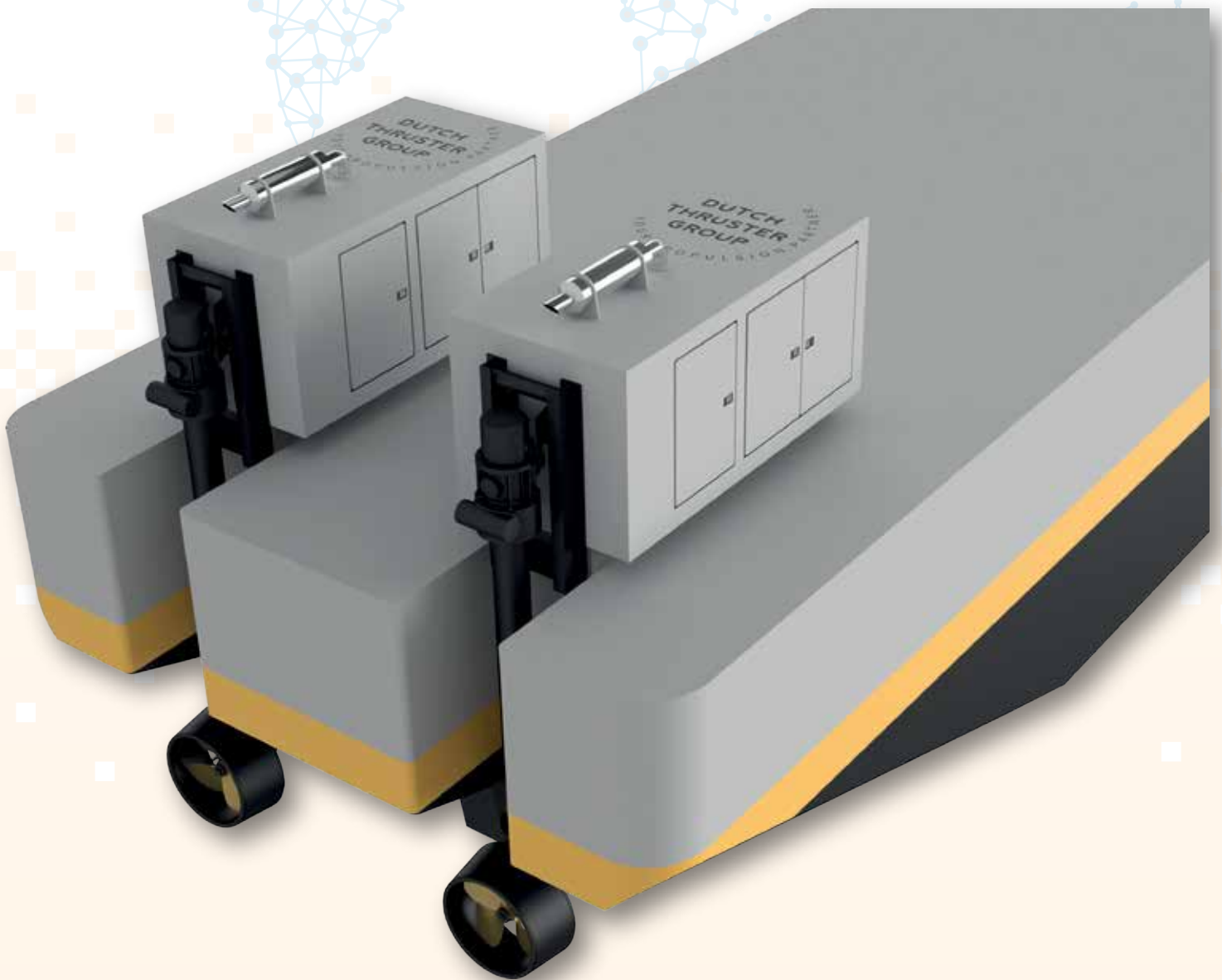
Shaft propulsion systems

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

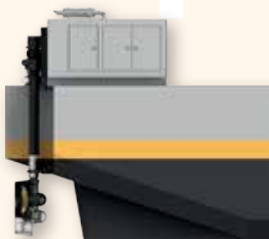


L-Drive Hydraulic driven

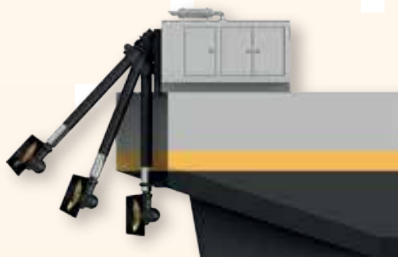


Z-drive Diesel Engine driven

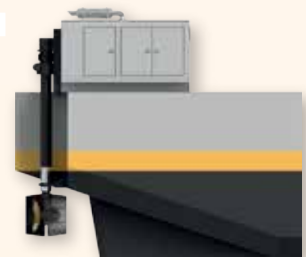
## Common options



Retracting function for shallow water operation



Tilting function for propeller inspection



360 degrees 'zero tail' rotation

## Propeller configurations



Sailing performance



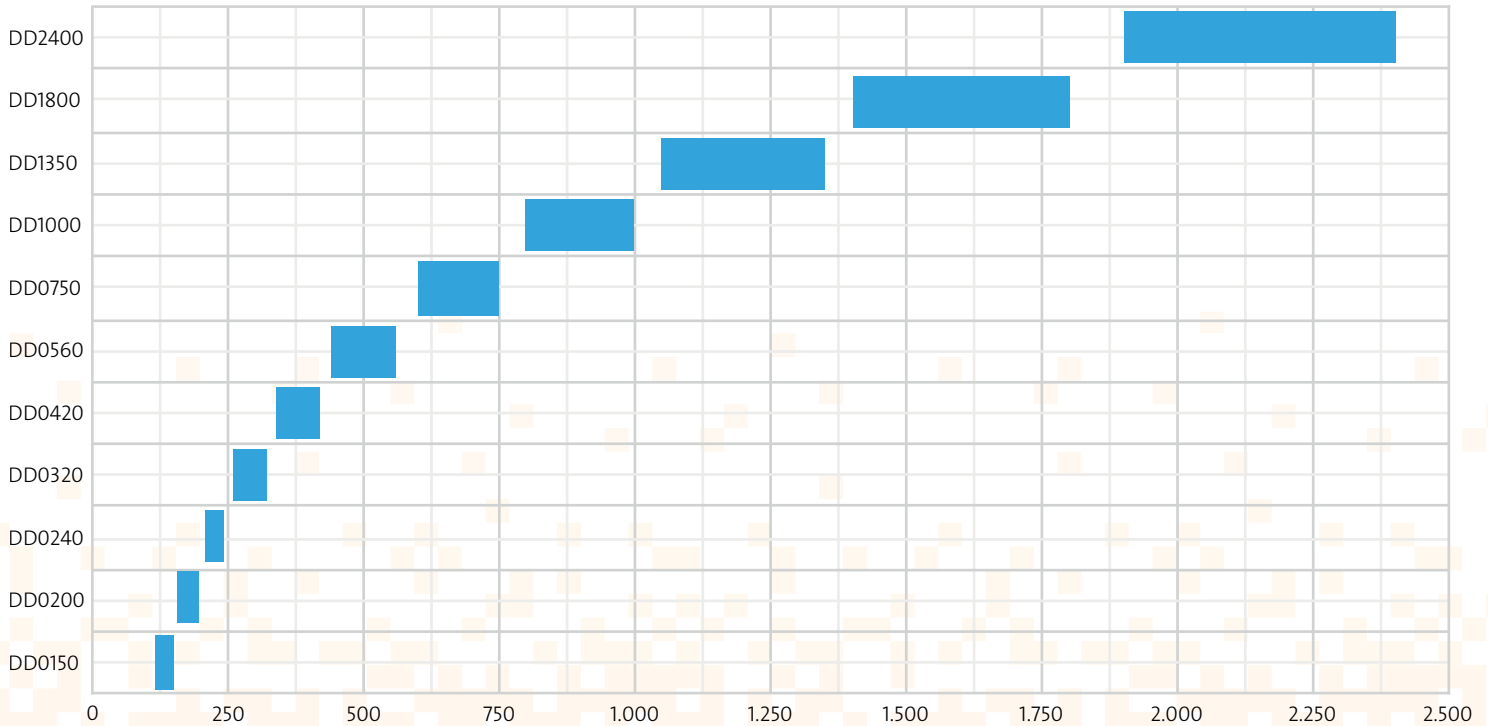
Thrust performance



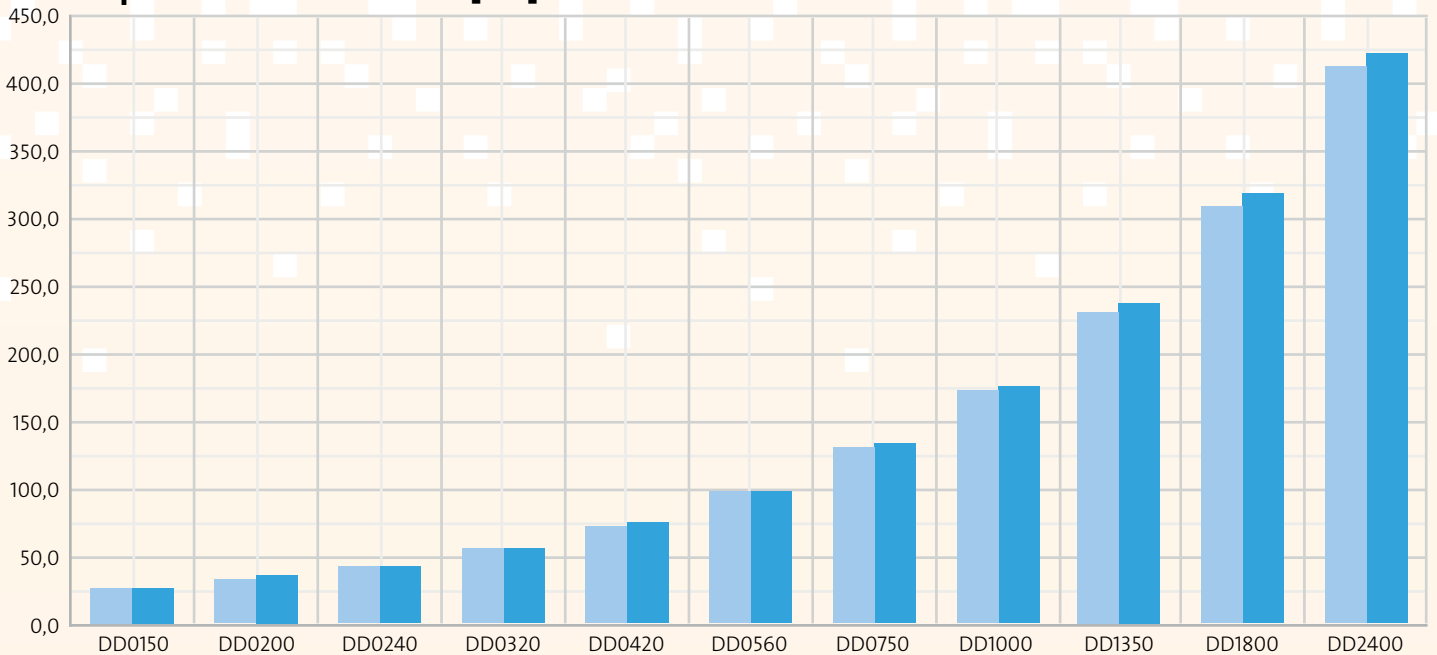
Shallow draught performance

# RATING TABLES

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## Step size thrust estimate [kN] \*



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<b>DDL**</b>	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

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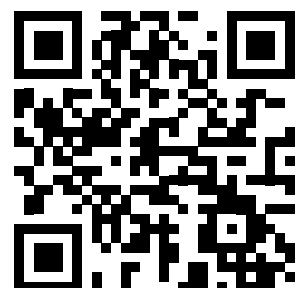
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### Product portfolio

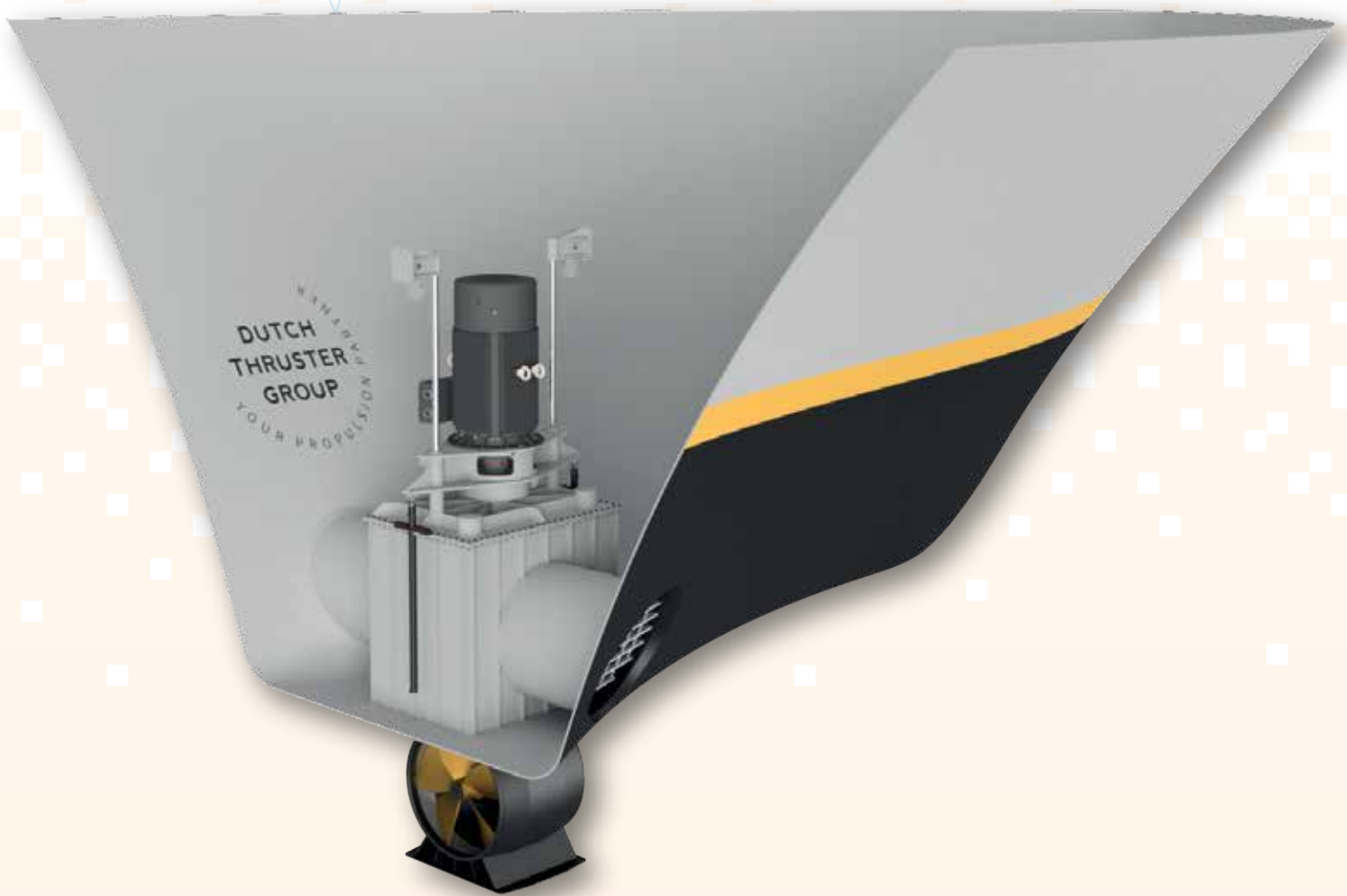
Tunnel thruster systems  
Azimuth thruster systems  
Retractable thruster systems  
**Deck Mounted thruster systems**  
Shaft propulsion systems  
Rudder & Steering systems





# DUTCH THRUSTER GROUP

## 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

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# CONFIGURATION EXAMPLES

## Main variants



retractable tunnel thruster



retractable azimuth thruster



retractable azimuth tunnel thruster combination

## Drive types



L-Drive with E-motor



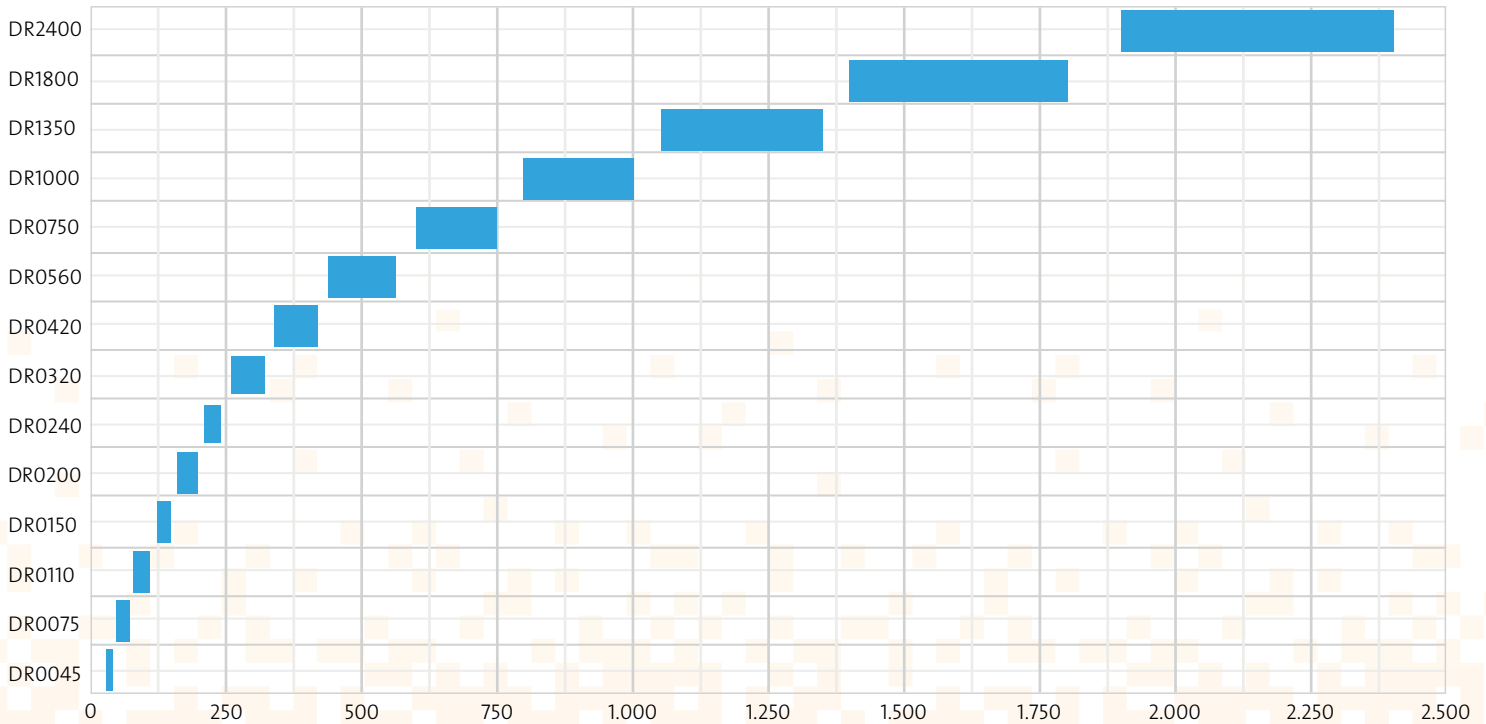
L-Drive with H-motor



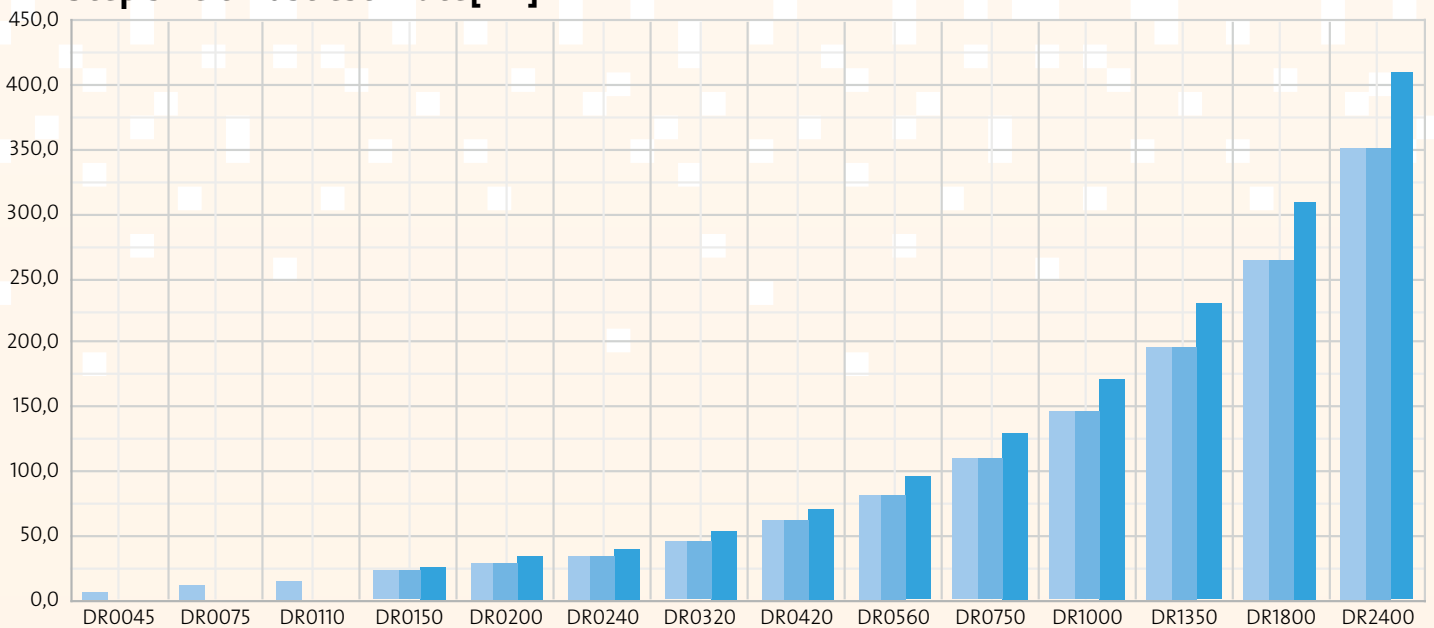
Z-Drive for Diesel Engine or E-motor

# RATING TABLES

## Step size power rating [kW]



## Step size thrust estimate [kN] \*



<b>DRT**</b>	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
<b>DRAT**</b>				21,9	29,3	35,1	46,8	61,4	81,9	109,7	146,3	197,4	263,3	351,0
<b>DRA**</b>				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 Retractable 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

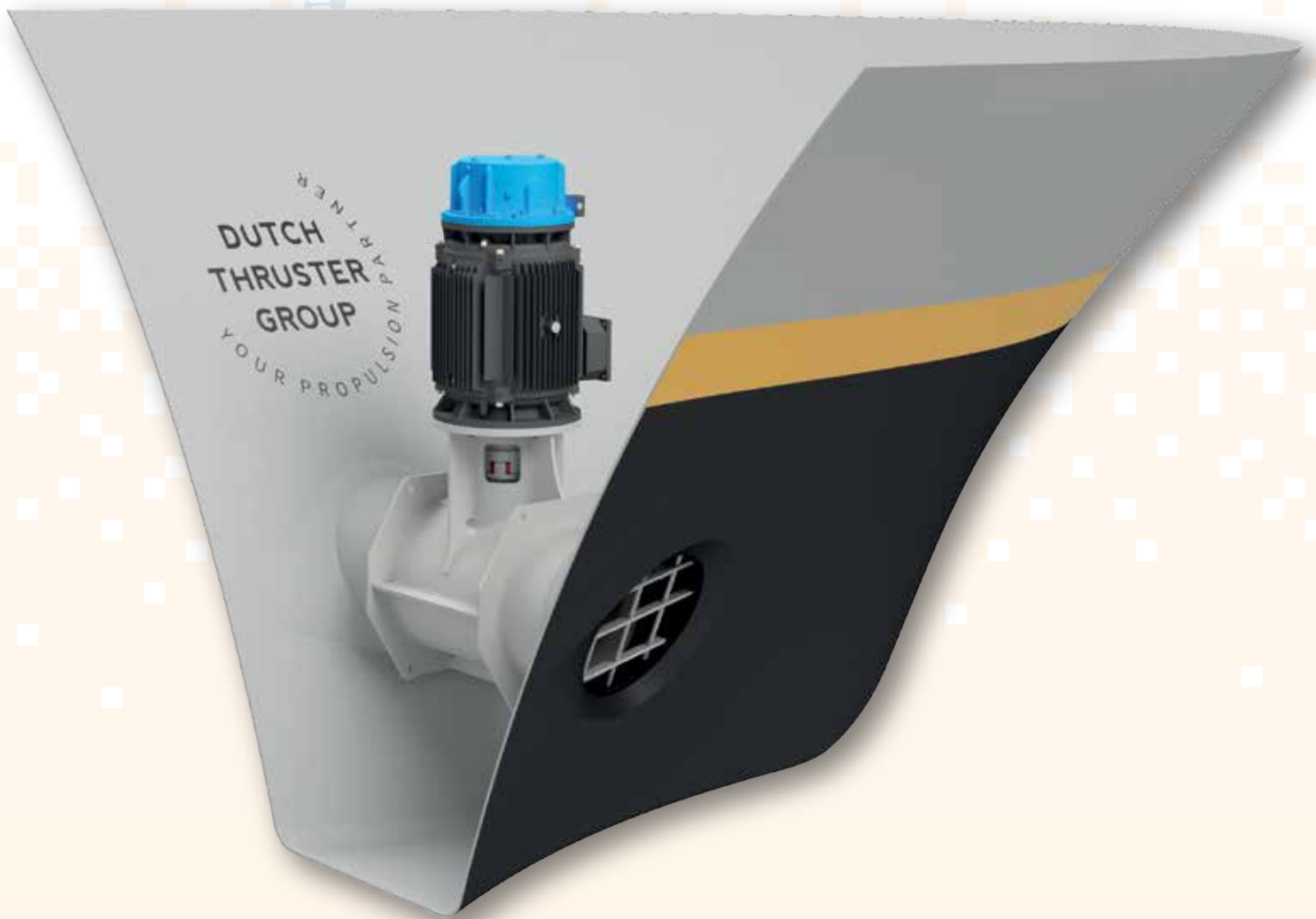
Shaft propulsion systems

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

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# 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

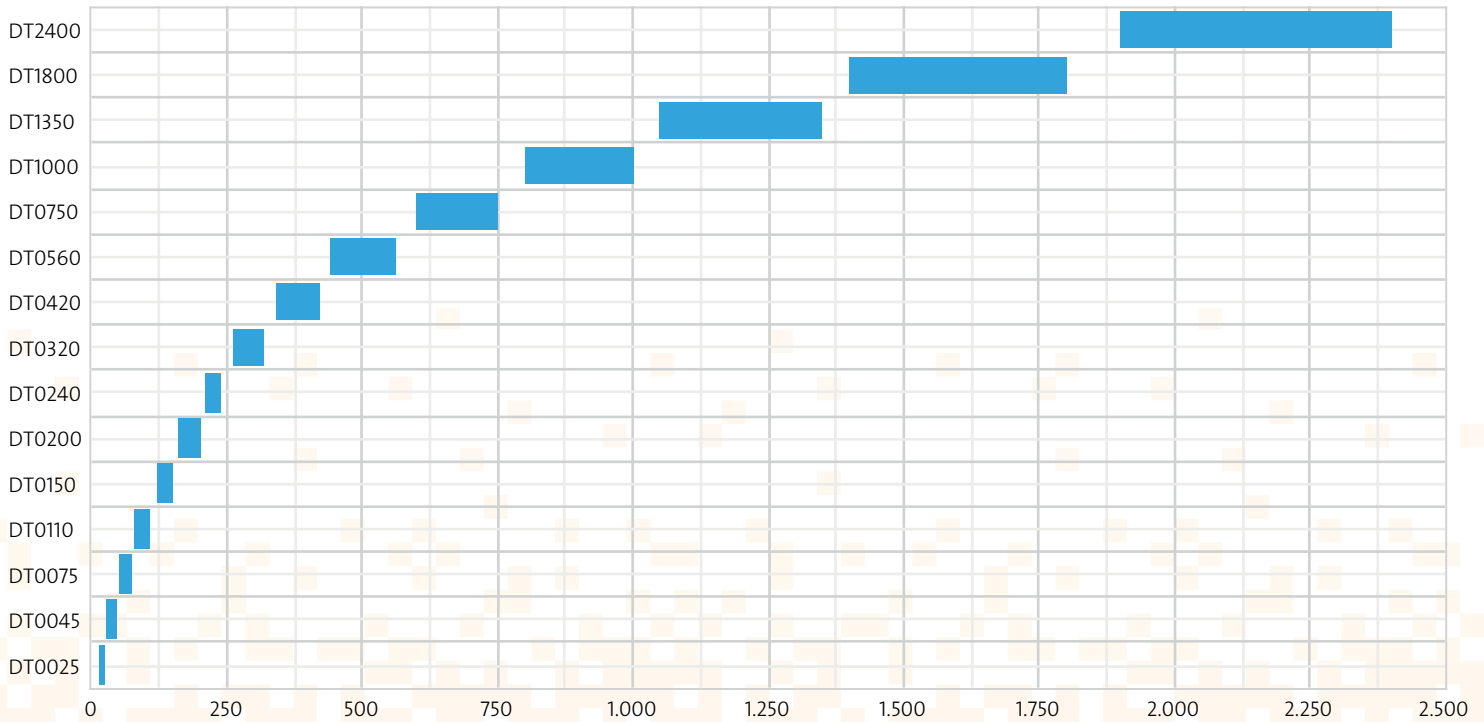


Gondola mounted tunnel structure

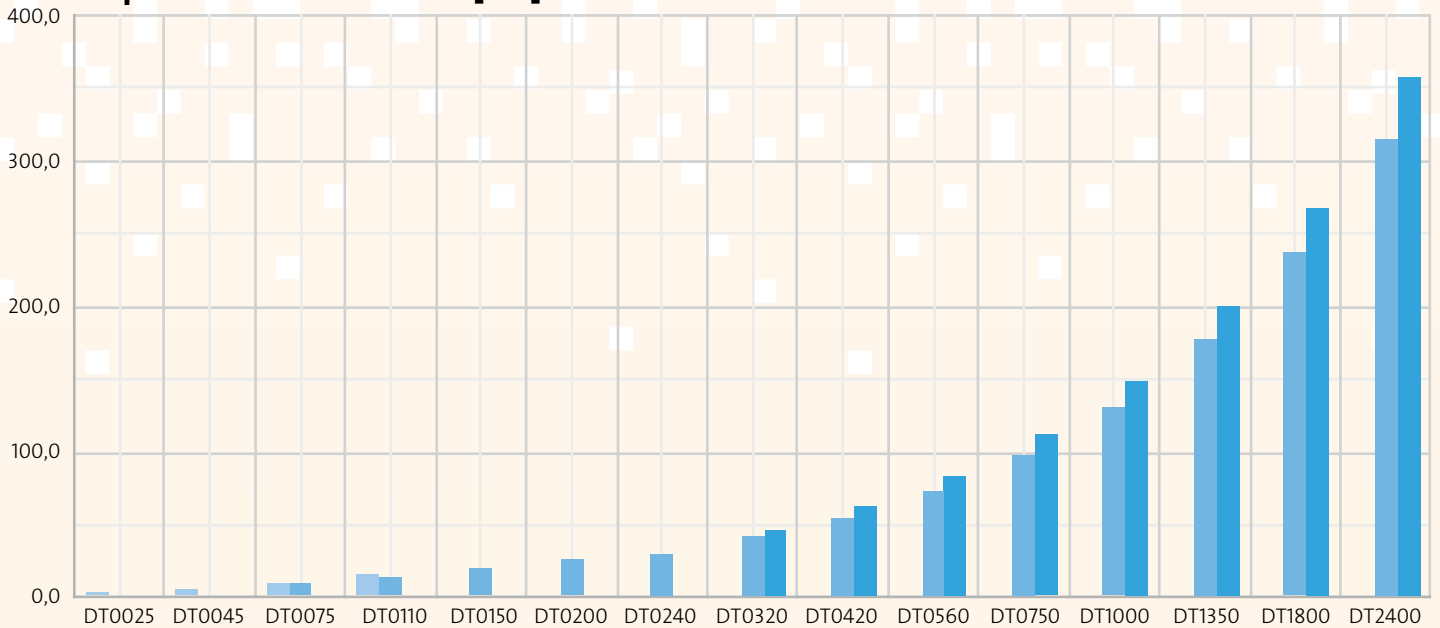


# RATING TABLES

## Step size power rating [kW]



## Step size thrust estimate [kN] \*



<b>CRP**</b>	3,6	6,5	10,9	15,9											
<b>FPP**</b>			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
<b>CPP**</b>								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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