

## Product Bulletin

### SPECIFICATIONS

**Horsepower: Up to: 1150hp cont.  
1250hp sprint**

**Vessel Size: Single: 30-43' (9-13m)  
Twin: 43-65' (13-20m)**

**Vessel AUW: Single: 12t (26,400lbs)  
Twin: 26t (57,300lbs)**



- The DJ170HP 17inch (431mm) waterjet meets Doen's key design criteria of high performance, reliability and simplicity of construction and maintenance
- This compact and efficient axial flow waterjet delivers superior performance at speeds up to 45+ knots with impeller options to provide enhanced low speed and high bollard pull operation
- Construction comprises Stainless Steel and heavy-duty powdercoated Aluminum components protected with an anode anti-corrosion system. The fabricated Aluminum duct is typically 30% lighter than a cast duct, and can be welded directly into Aluminum boats
- Modular construction has allowed the DJ170HP to be lightweight compact and simple to maintain. The heavy-duty main shaft and bearings assist in providing long life and trouble-free operation
- Completely inboard mounted, fully integrated, hydraulic system with in built cooling. Standard hydraulic rotary servo control (RSC) gives proportional, position sensing, control of the reversing bucket via a standard 3" (75mm) stroke Morse 33C cable
- Power steering systems and other optional electric and electronic control systems are available and can be integrated with vessel and engine controls

For the ultimate in docking control and low speed maneuvering the DJ170HP can be fitted with Doen's eDOCK joystick control. This system can also be interfaced with electronic vessel controls such as autopilots and dynamic positioning systems



**DOEN PACIFIC PTY. LTD.**  
33 Venture Way Braeside 3195  
Victoria, Australia

Tel: +61 3 9587 3944  
Fax: +61 3 9587 3179  
Email: [inquiries@doen.com](mailto:inquiries@doen.com)

## WATERJET DETAILS

Maximum Rec. Continuous Power:	1150shp (855skW)
Maximum Rec. Power Sprint:	930skW (1250shp) <sup>(A)</sup>
Maximum Rec. Impeller speed:	1975rpm
Dry Weight:	1120lb (510kg) including standard reverse controls
Entrained Water:	418lb (190kg) typical - dependant on intake geometry
Corrosion Protection:	Cathodic with Anodes
Design Standard:	To international authority standards

## CONSTRUCTION DETAILS

### Impeller:

Diameter:	17 inch (432mm)
Impeller Material:	Cast CF8M Stainless Steel

### Pump Assembly:

Impeller Casing Material:	Cast ASTM A356 Alum. Alloy with stainless steel liner
Discharge Nozzle Material:	Cast ASTM A356 Alum. Alloy

### Steering System:

Description:	Balanced nozzle
Operation:	Inboard tiller actuation
Bowl and Nozzle Material:	Cast ASTM A356 Aluminum Alloy
Nozzle Diameter Range:	8.6 – 10.2inch (220mm - 260mm)

### Reverse System:

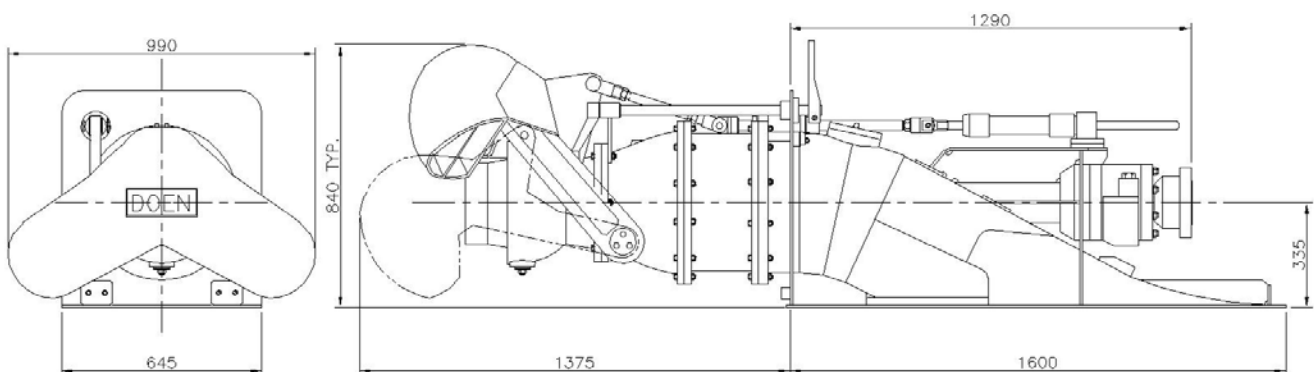
Description:	Split Duct Type – High Thrust
Operation:	Hydraulic with Inboard Cylinder Actuation
Reverse duct material:	Cast ASTM A356 & 5083 grade plate Aluminum

### Shaft Assembly:

Main Shaft Material:	Stainless Steel Grade SAF 2205
Rear Bearing:	Water Lubricated Cutlass Bearing
Main Bearings:	Spherical roller Thrust Bearing Spherical roller Bearing - Radial
Lubrication:	Oil
Shaft Seal:	Face type Mechanical Seal
Coupling Flange:	GWB series to suit application
Shaft Angle:	0 degrees

### Intake Body:

Material:	5083 grade plate Aluminum
Inspection Opening:	Inboard
Intake Grate:	Removable Stainless Steel Bars



Note (A): Requires application approval by DOEN Pacific

Due to our policy of continuous Research & Development, we reserve the right to change specifications without notice