

Product Bulletin

SPECIFICATIONS

- Horsepower: Up to:** 510hp cont.
600hp sprint
- Vessel Size: Single:** 23-30' (7-9m)
Twin: 30-43' (9-13m)
- Vessel AUW: Single:** 6t (13,200lbs)
Twin: 12t (26,400lbs)



- The DJ120 transom mount 12.2inch (310mm) 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 transom mounting and very low profile of the waterjet ensure minimal intrusion into valuable onboard space
- Modular construction has allowed the DJ120 to be extremely robust, lightweight, compact and simple to maintain and repair. The heavy-duty main shaft and bearings assist in providing long life and trouble-free operation
- Fully integrated hydraulic system with in built cooling, steering and reverse cylinders bulkhead mounted and all connections inboard and protected from corrosion
- Hydraulic rotary servo control (RSC) gives proportional, position sensing, control of the reversing bucket via a standard 3" (75mm) stroke Morse 33C cable
- Optional inboard inspection hatch for vessels operating in waters with dangerous marine life

For the ultimate in docking control and low speed maneuvering the DJ120 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



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WATERJET DETAILS

Maximum Rec. Power Continuous:	510shp (380skW)
Maximum Rec. Power Sprint:	600shp (450skW) ^(A)
Maximum Rec. Input Coupling speed:	2800rpm
Standard Coupling Rotation	Anti-clockwise (Looking forward from stern)
Dry Weight:	495lb (225kg) including reverse controls
Entrained Water:	114lb (52kg) (weight of water in pump and inlet duct)
Corrosion Protection:	Cathodic with Anodes
Design Standard:	To international authority standards

CONSTRUCTION DETAILS

Impeller:

Diameter:	12.2inch (310mm)
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	Hydraulic – bulkhead mount
Bowl and Nozzle Material:	Cast ASTM A356 Aluminum Alloy
Nozzle Diameter Range:	6.1 - 6.7inch (155mm - 170mm)

Reverse System:

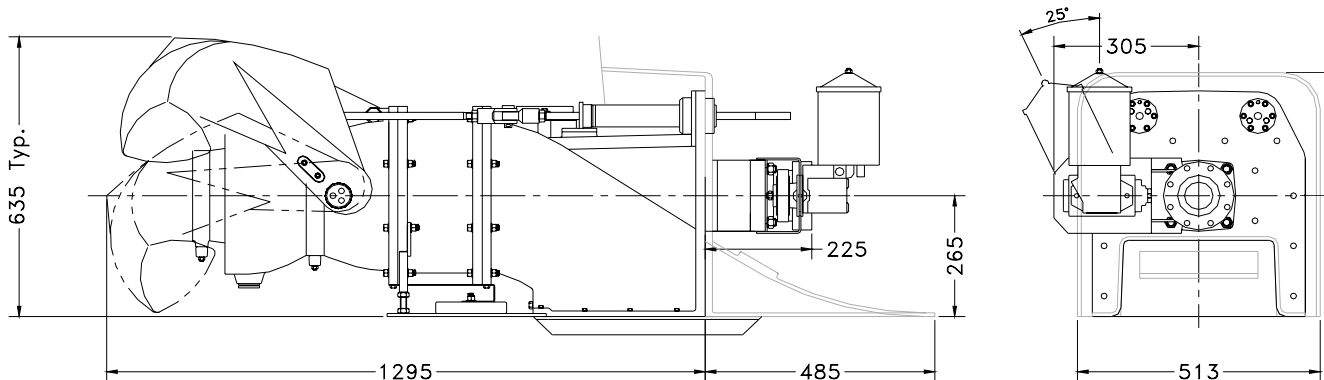
Description	Split Duct Type – High Thrust
Operation	Proportional hydraulic
Reverse duct material	Cast ASTM A356 Aluminum Alloy

Shaft Assembly:

Main Shaft Material:	Stainless Steel Grade SAF 2205
Rear Bearing:	Water Lubricated Cutlass Bearing
Main Bearing:	Angular contact Thrust Bearing
Lubrication	Grease
Shaft Seal:	Face type Mechanical Seal
Coupling Flange:	SAE Ø150 – 8 holes (5.9inch)
Shaft Angle	0 Degrees

Intake Body:

Material:	Cast ASTM A356 Aluminum Alloy
Inspection Opening:	Standard - Outboard quick release type Optional – Inboard
Intake Grate:	Removable Bar type



Note (A): Requires application approval by DOEN Pacific

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