

RIGMASTER MANIPULATOR 5F

ENVIRONMENTALLY FRIENDLY
NO HYDRAULIC SLIP-RING



Description

The Rigmaster series of manipulators is suited to work with the highest performing vehicles under the most demanding conditions. The Rigmaster manipulator is known as a heavy lift grabber arm that can be mounted on a wide range of subsea ROVs. The Rigmaster arm is a reliable manipulator which is a perfect alternative where you need strength. It also has a low operation cost.

Typical Operations

- ▣ ROV
- ▣ Subsea grip and handling
- ▣ Rough operations

Features

- ▣ Tough and Durable
- ▣ Environmentally Friendly
- ▣ Compact Design
- ▣ Service & User Friendly
- ▣ Low operational Cost
- ▣ Left-Hand & Right-Hand operational

SPECIFICATIONS

Rigmaster Manipulator 5F

Arm Specification

| | |
|-------------|---|
| Type | Rigmaster Manipulator 5F |
| Part number | ARM-RIG |
| Materials | Anodized aluminium, stainless steel, titanium |

| | |
|--------------------------|-------------------------------|
| Weight | In Air: 64Kg / In Water: 48Kg |
| Standard Dept | 6,500 msw |
| Reach | 1,372mm |
| Lift at Full Extension | 181 Kg |
| Maximum Lift, Nominal | 270 Kg |
| Standard Gripper Opening | 289mm |
| Grip Force, Nominal | 205 Nm |
| Wrist Rotate, Continuous | 6-35rpm |

Actuator Function

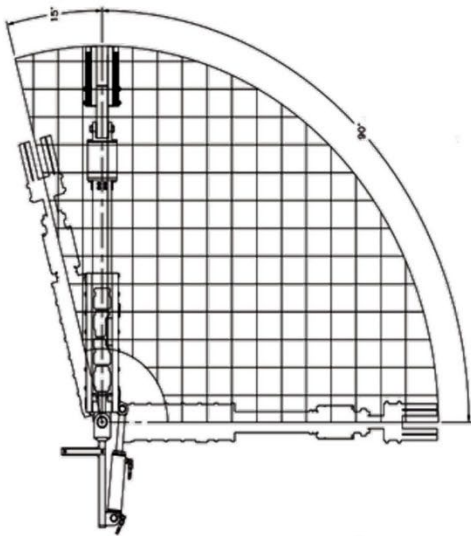
| | |
|------------------------|---------------|
| Base Yaw | Linear, 105° |
| Shoulder Pitch | Linear, 105° |
| Boom, extend / retract | Linear, 305mm |
| Wrist Pitch | Linear, 120° |
| Wrist Rotate | Gerotor, 360° |
| Gripper, standard | Linear, 284mm |

Hydraulic Specifications

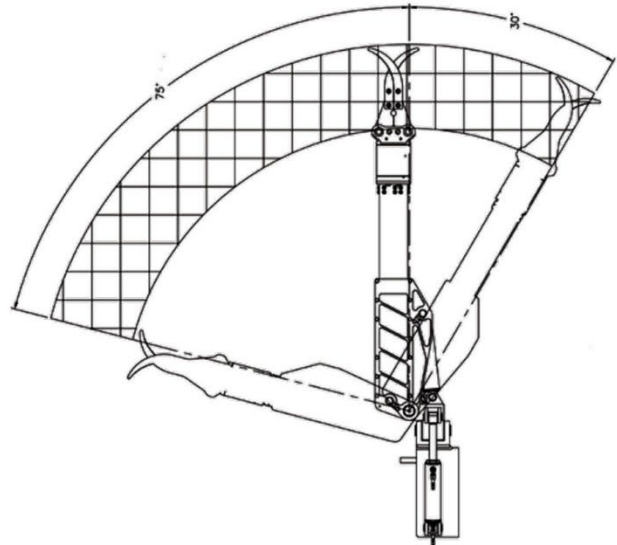
| | |
|------------------------|-------------------------------|
| Fluid | Mineral, Glycol, or Synthetic |
| Viscosity | 10-200 cSt |
| Available flow | 5.7 – 19 lpm |
| Max Pressure | 207 Bar / 3000 PSI |
| Max. Fluid Temperature | 54°C |
| Fluid Cleanliness | ISO 4406 14/11 |
| Filtration | 10 microns |

Hydraulic Connections

JIC 04 Female



Range of motion, top view



Range of motion, side view

