

## M5 Manipulator



### RATED CAPACITIES

- Shoulder Slew Force: 1000Nm constant
- Min/Max Reach: 900/1250mm to 'T' bar slot  
1150/1500mm to end of inter-meshing fingers
- Nominal Lift: 300kg arm retracted and 210kg with arm extended
- Wrist Torque: 170Nm continuous
- Jaw Grip Force: 4500Nm
- Jaw Opening: 160mm opening on parallel jaw and 290mm with inter-meshing jaw

### DESCRIPTION

The **BENNEX** M5 has been developed to meet the requirements of the ROV Operators. The M5 has been designed by experienced engineers in conjunction with experienced operators giving an end result that ensures capability to perform with easy maintenance. The M5 has been built in Scotland and all parts are easily obtainable making spares and support readily available when required.

The M5 is capable to perform a range of additional tasks due to the in-built flexibility of having a 180 degree slew base, extra hydraulic porting at the wrist and the ability to offer HP water at the wrist. This means that more can be done without the requirement to reconfigure thus giving more capability to the ROV operator. The M5 is designed to take three different jaw configurations, Intermeshing, Parallel and Guide Post Clamp. No additional brackets are required for port or starboard mounting again allowing for easy installation on any work class ROV.

### FEATURES

- Shoulder Slew 180 degrees
- Shoulder Pitch +75 degrees to -35 degrees
- Arm Extension 350mm in construction mode  
400mm in tooling mode
- Wrist Rotate 360 degree continuous
- Jaw open/close 160mm opening on parallel jaw and 290mm with intermeshing jaw
- Plus Functions Service A supply and return with 360 degree continuous rotation  
Service B supply and return with 360 degree continuous rotation  
(using jaw open/close function)  
Compensated case drain at 25 bar with continuous rotation  
High Pressure water line rated to 680 bar ported to wrist