

Subsea Tooling Services 3 Ton TWK Subsea Boulder Grab



- Suitable for all coarse and bulky materials
- Hydraulic arms are individually driven, thereby ensuring that even the bulkiest material is securely gripped
- Topside or ROV control options available via optional 35mm Blue Logic 2 port stab
- Single point lift
- Subsea Paint Coating
- Dual Cross Port Hydraulic Check Valves For Position / Load Holding

Technical Specification

Arm Capacity	1 m ³
Payload	3000 Kg
Weight	500 Kg
No. of Arms	5
Hydraulic Interface (Optional)	2 Port Female Blue Logic 35mm c/w check valves
Pressure	50-110 bar
Flow	20-40 l/min
Height Open	1070 mm
Height Closed	1300 mm
Width Open	2000 mm
Width Closed	1070 mm
Load / Position Holding – Hydraulic Valves	Cross Port PO Check Valve CO-11A-ML-60

The Subsea Tooling Services 5Te Grab is a versatile tool that can be used for decommissioning projects and survey/debris clearance operations. Commonly used for lifting and moving various materials and equipment found subsea such as boulders, pipelines, umbilical's, grout bags and general debris. The grapple can be powered from topside control with a downline umbilical or powered directly from a work class ROV via the optional 2 port leak free 35mm hot stab.



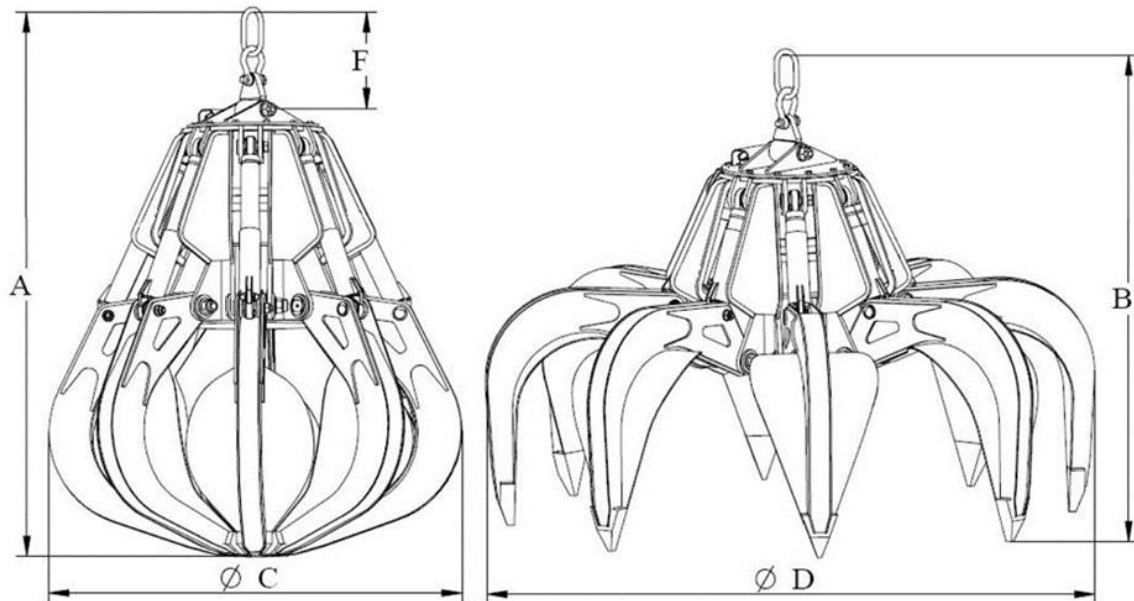
Dimensions

Arm Capacity:	1 m ³
Payload:	3000 Kg
Weight:	500 Kg
MGW:	3500kg
No of Arms:	5
Pressure:	110 bar
Flow:	20-40 LPM
Dim A:	1380mm
Dim B:	1150mm
Dim C:	1150mm
Dim D:	2000mm
Dim F:	80mm

Supplied with 1000mm long single leg sling.

Top Shackle Size – 8.5 Ton

35mm Dummy Protection Stab (Optional)



Subsea Tooling Services 5 Ton Subsea Boulder Grab



- Suitable for all coarse and bulky materials
- Hydraulic arms are individually driven, thereby ensuring that even the bulkiest material is securely gripped
- Topside or ROV control options available via 35mm Blue Logic 2 port stab
- Single point lift
- Subsea Paint Coating
- Dual Cross Port Hydraulic Check Valves For Position / Load Holding

Technical Specification

Arm Capacity	1.5m ³
Payload	5000 Kg
Weight	1200 Kg
No. of Arms	5
Hydraulic Interface	2 Port Female Blue Logic 33mm c/w check valves
Pressure	180 - 210 bar
Flow	20-40 l/min
Height Open	1440 mm
Height Closed	1820 mm
Width Open	1850 mm
Width Closed	1400 mm
Load / Position Holding – Hydraulic Valves	Cross Port PO Check Valve SUN CKCD XCN-YET / Cartridge CKCD XCN

The Subsea Tooling Services 5Te Grab is a versatile tool that can be used for decommissioning projects and survey/debris clearance operations. Commonly used for lifting and moving various materials and equipment found subsea such as boulders, pipelines, umbilical's, grout bags and general debris. The grapple can be powered from topside control with a downline umbilical or powered directly from a work class ROV via the 2 port leak free 35mm hot stab.



Dimensions

Arm Capacity: 1.5 cu.m

Payload: 5000 Kg

Weight: 1200 Kg

MGW: 6200kg

No of Arms: 5

Pressure: 210 bar

Flow: 20-60 LPM

Dim A: 1820mm

Dim B: 1440mm

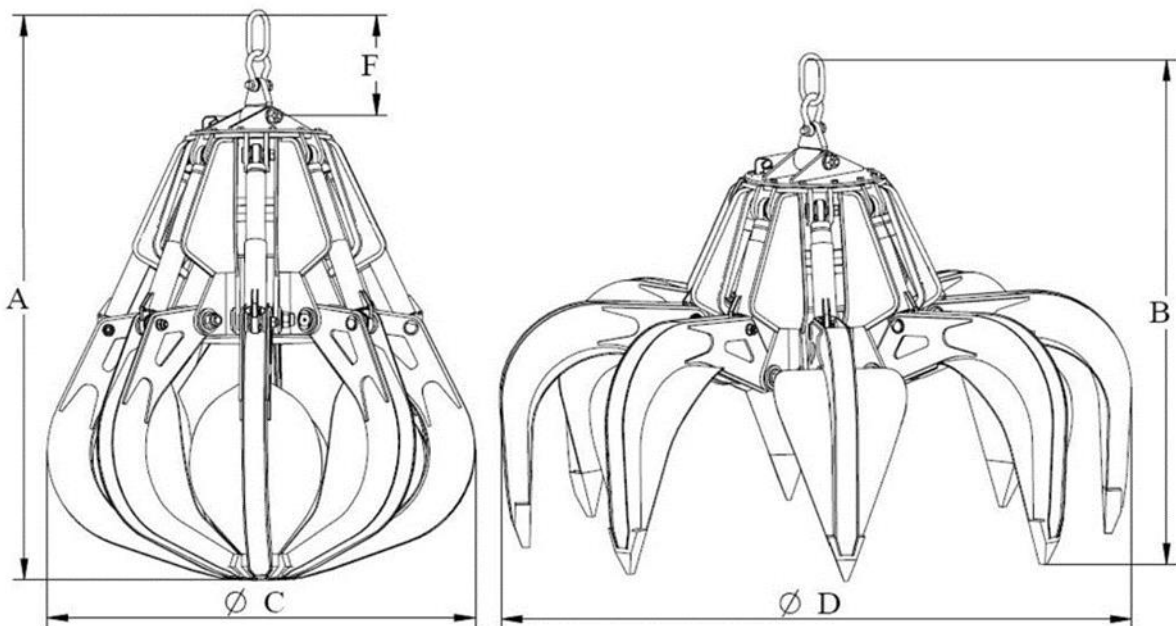
Dim C: 1400mm

Dim D: 1850mm

Dim F: 255mm

Top Shackle Size – 12 Ton

35mm Dummy Protection Stab Supplied



Subsea Tooling Services 5 Ton TWK Subsea Boulder Grab



- Suitable for all coarse and bulky materials
- Hydraulic arms are individually driven, thereby ensuring that even the bulkiest material is securely gripped
- Topside or ROV control options available via optional 35mm Blue Logic 2 port stab
- Single point lift
- Subsea Paint Coating
- Dual Cross Port Hydraulic Check Valves For Position / Load Holding

Technical Specification

Arm Capacity	1 m ³
Payload	5000 Kg
Weight	1200 Kg
No. of Arms	5
Hydraulic Interface (Optional)	2 Port Female Blue Logic 35mm c/w check valves
Pressure	180 - 210 bar
Flow	20-40 l/min
Height Open	1200 mm
Height Closed	1700 mm
Width Open	2350 mm
Width Closed	1650 mm
Load / Position Holding – Hydraulic Valves	Cross Port PO Check Valve CO-11A-ML-60

The Subsea Tooling Services 5Te Grab is a versatile tool that can be used for decommissioning projects and survey/debris clearance operations. Commonly used for lifting and moving various materials and equipment found subsea such as boulders, pipelines, umbilical's, grout bags and general debris. The grapple can be powered from topside control with a downline umbilical or powered directly from a work class ROV via the optional 2 port leak free 35mm hot stab.



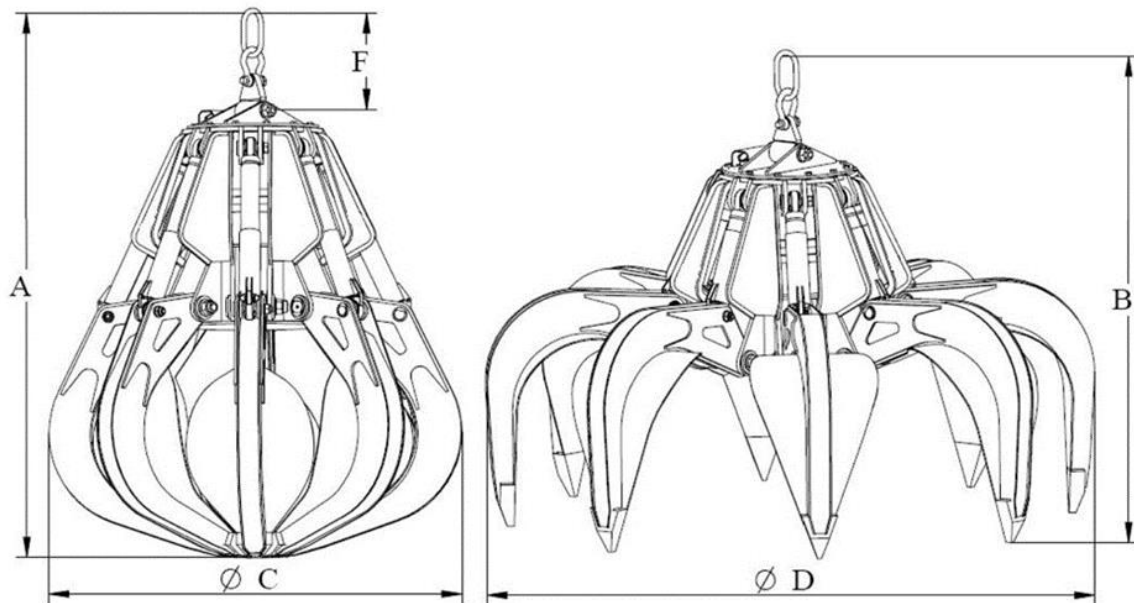
Dimensions

Arm Capacity:	1 m ³
Payload:	5000 Kg
Weight:	1200 Kg
MGW:	6200kg
No of Arms:	5
Pressure:	210 bar
Flow:	20-60 LPM
Dim A:	1810mm
Dim B:	1310mm
Dim C:	1650mm
Dim D:	2350mm
Dim F:	110mm

Supplied with 1400mm long single leg sling.

Top Shackle Size – 12 Ton

35mm Dummy Protection Stab (Optional)



Subsea Tooling Services 6 Ton TWK Subsea Boulder Grab



- Suitable for all coarse and bulky materials
- Hydraulic arms are individually driven, thereby ensuring that even the bulkiest material is securely gripped
- Topside or ROV control options available via optional 35mm Blue Logic 2 port stab
- Single point lift
- Subsea Paint Coating
- Dual Cross Port Hydraulic Check Valves For Position / Load Holding

Technical Specification

Arm Capacity	1.5 m ³
Payload	6000 Kg
Weight	1500 Kg
No. of Arms	4
Hydraulic Interface (Optional)	2 Port Female Blue Logic 35mm c/w check valves
Pressure	180-210 bar
Flow	20-40 l/min
Height Open	1560 mm
Height Closed	1950 mm
Width Open	2500 mm
Width Closed	1000 mm
Load / Position Holding – Hydraulic Valves	Cross Port PO Check Valve CO-11A-ML-60

The Subsea Tooling Services 6Te Grab is a versatile tool that can be used for decommissioning projects and survey/debris clearance operations. Commonly used for lifting and moving various materials and equipment found subsea such as boulders, pipelines, umbilical's, grout bags and general debris. The grapple can be powered from topside control with a downline umbilical or powered directly from a work class ROV via the optional 2 port leak free 35mm hot stab.



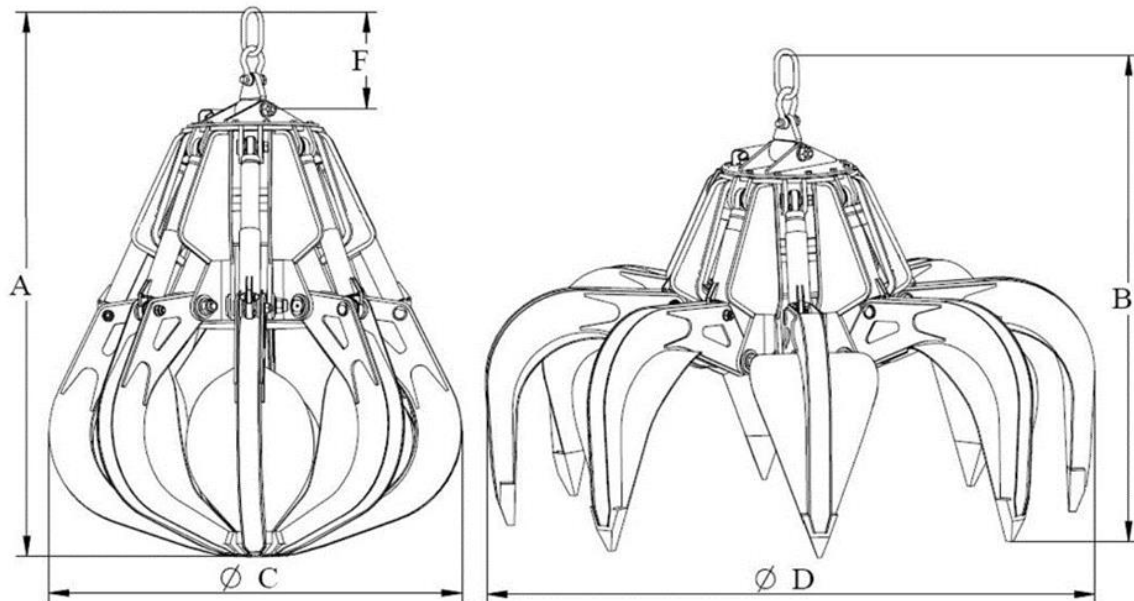
Dimensions

Arm Capacity:	1.5m ³
Payload:	3000 Kg
Weight:	500 Kg
MGW:	3500kg
No of Arms:	5
Pressure:	110 bar
Flow:	20-40 LPM
Dim A:	2060mm
Dim B:	1670mm
Dim C:	1500mm
Dim D:	1560mm
Dim F:	110mm

Supplied with 1400mm long single leg sling.

Top Shackle Size – 12 Ton

35mm Dummy Protection Stab (Optional)



Subsea Tooling Services 10Te Vantec Grab



- Suitable for all coarse and bulky materials
- Hydraulic arms are individually driven, thereby ensuring that even the bulkiest material is securely gripped
- Designed to handle a variety of different bulk materials
- Vertical and Horizontal grab handles for ROV / Divers
- Topside or ROV control options available
- Single point lift rigging
- Tool supplied as standard with whips and industry standard 3/4" Wing type Q.D. Couplings
- Shipping cradle provided

Technical Specification

Arm Capacity	3.0m ³
Payload	10,000 Kg
Weight	3,800 Kg
No. of Arms	6
Pressure	210 bar
Flow	40-80 l/min
Height Open	2700 mm
Height Closed	3360 mm
Width Open	4180 mm
Width Closed	2360 mm
Transportation Base Dimensions L X W x H x Kg	2756mm x 2400mm x 3200mm x 4800 Kg (Inc Grab)

The Vantec 10Te Grab is a versatile tool that can be used for decommissioning projects and survey/debris clearance operations. Commonly used for lifting and moving various materials and equipment found subsea such as boulders, pipelines, umbilical's, grout bags, mattresses and general debris. The grapple can be powered from topside control with a downline umbilical or powered from ROV using hot stab connection.



Dimensions

Arm Capacity: 3.0 cu.m

Payload: 10T

Weight: 4600kg Tare

No of Arms: 6

Pressure: 210bar

Flow: 40-80 LPM

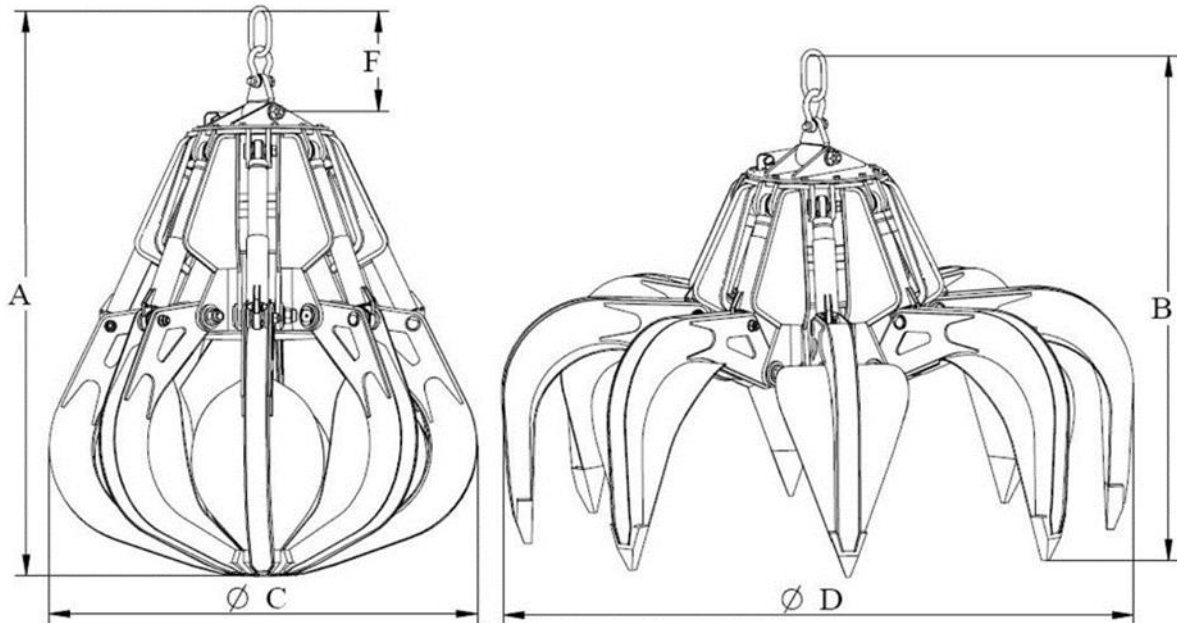
Dim A: 3360mm

Dim B: 2700mm

Dim C: 2360mm

Dim D: 4180mm

Dim F: 400mm



Subsea Tooling Services 20Te Boulder Grab



- Suitable for all coarse and bulky materials
- Hydraulic arms are individually driven, thereby ensuring that even the bulkiest material is securely gripped
- Designed to handle a variety of different bulk materials
- Topside or ROV control options available
- Single point lift rigging
- Tool supplied as standard with whips and industry standard ¾" Wing type Q.D. Couplings
- Shipping cradle provided*

Technical Specification

Arm Capacity	5.0 m ³
Payload	20,000 Kg
Grab Weight	7000 Kg
No. of Arms / Tines	6
Pressure / Hose Size & Length	210 bar ¾" R2AT @ 4000mm
Flow	40-80 l/min
Height Open	3000 mm
Height Closed	3890 mm
Width Open	5000 mm
Width Closed	3100 mm
Transportation Size (Including Cradle)	3158mm x 3158mm x 4000mm x 10,000 Kg
Lifting Shackle Size / Wire Pennant	55 Ton Shackle / 2500mm 55mm Wire Pennant Fitted to HA45ML Master Link
Load / Position Holding – Hydraulic Valves	Cross Port PO Check Valve SUN CBEA LAN YAV/S

The STS 20Te Grab is a versatile tool that can be used for decommissioning projects and survey/debris clearance operations. Commonly used for lifting and moving various materials and equipment found subsea such as boulders, pipelines, umbilical's, grout bags, mattresses and general debris. The grapple can be powered from topside control with a downline umbilical or powered from ROV using hot stab connection.



Dimensions

Arm Capacity: 5.0 cu.m

Payload: 20T

Weight: 7200kg Tare

No of Arms: 6

Pressure: 210bar

Flow: 40-80 LPM

Dim A: 3890 mm

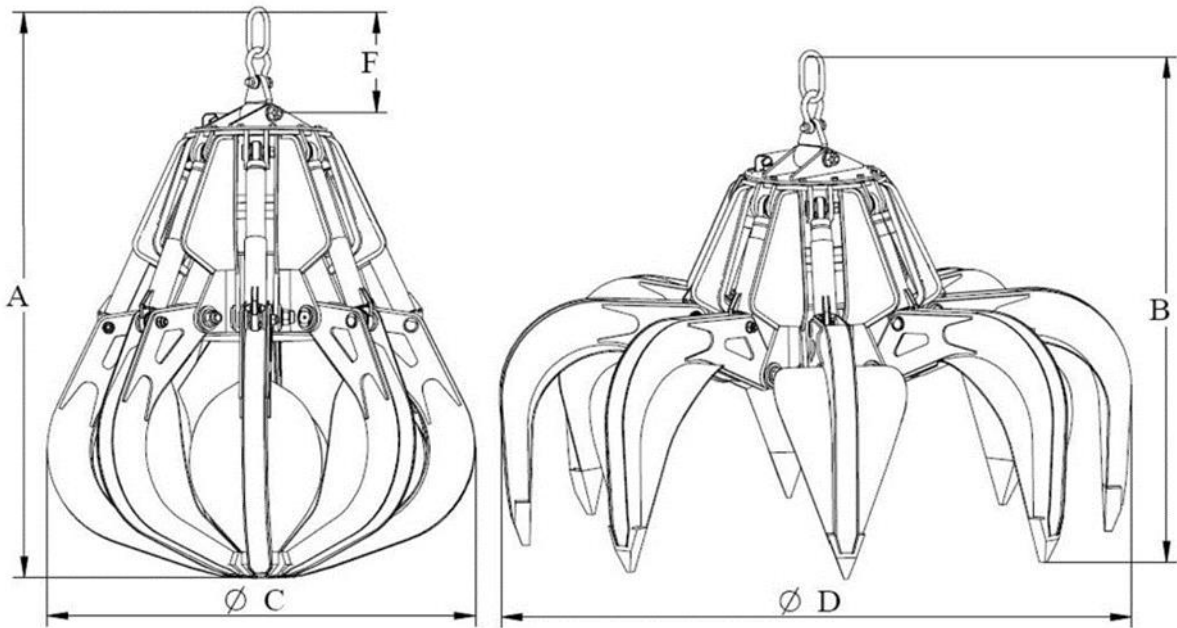
Dim B: 3000 mm

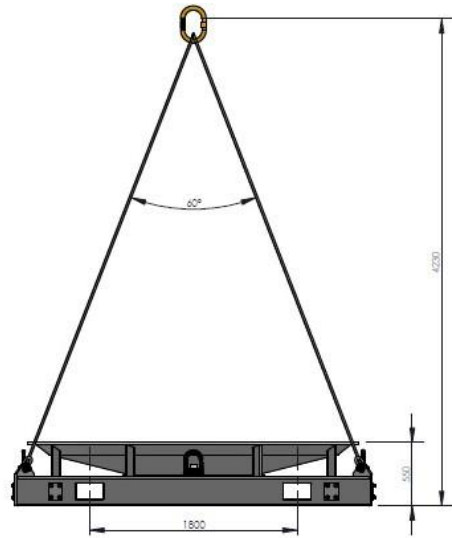
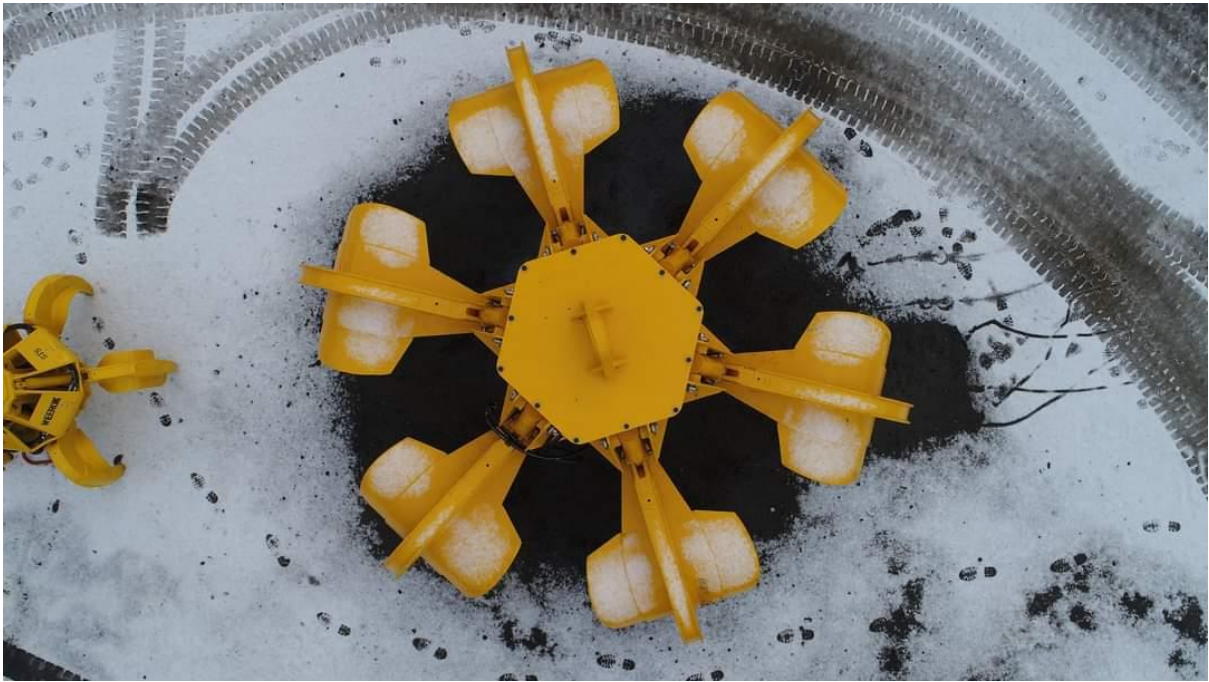
Dim C: 3100 mm

Dim D: 5000 mm

Dim F: 630 mm

** Note! Total Lifting Height Including Pennant is 6800mm**





Subsea Tooling Services 4 Ton Hydraulic Clam Shell Grab



- Suitable for all coarse and bulky materials
- Single Hydraulic Cylinder
- Topside or ROV control options available via 35mm Blue Logic 2 port stab **(Optional)**
- Single point lift - 55 Ton Shackle
- Subsea Paint Coating (Yellow RAL 1004)
- Buckets Turn 360 Degrees Independent of Main Lift Point
- Dual Cross Port Hydraulic Check Valves For Position / Load Holding
- Bucket Teeth – 5 x Interlocking

Technical Specification

Bucket Capacity	0.75m ³
Payload	4000 Kg
Weight	1000 Kg
No. of Buckets	2
Hydraulic Interface	2 x ½ R2AT C/w 8 JIC ends / Winged Q.Ds
Pressure	180 - 210 bar
Flow	20-40 l/min
Height Open	1850mm
Height Closed	2300mm
Width Open	1550mm
Width Closed	1300mm
Load / Position Holding – Hydraulic Valves	Cross Port PO Check Valve SUN CKCD XCN-YET / Cartridge CKCD XCN