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Tiger Lifting UK Ltd



www.tigerlifting.co.uk

Home of the Tiger hoisting range & Tiger subsea lifting products

Tiger ROV Chain Blocks



Main Features

- Available in 3.0t, 10.0t and 20.0t capacity
- Fully corrosion protected exclusively by NiTEC
- Three choices of interface:
 - Hydraulic Hot Stab connection type A dual port
 - Rotary Torque Receptacle Classes 1,2 & 3
 - Manual Fishtail Direct Drive
- Compliant with BS ISO 13628-8:2002 & of BS ISO 13628-1:2005
- Stainless steel 316 framework and handle
- Proven Subsea brake components
- Heavy duty flexible chain bag c/w stainless steel mounting frame
- 4 Point manipulator connection points
- Compact and light weight
- Balanced design for easy handling and installation
- Subsea suitable bearings for top and bottom hook load sheaves
- Marine specific friction discs
- Subsea brake design
- Bespoke chain lengths to meet exact customer requirements
- Full individual spares back up
- Each unit is fully tested and certified before delivery

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Tiger ROV Chain Block

The Tiger ROV compatible chain block is available in three different interface options all in accordance with BS ISO 13628-8:2002 ROV Interfaces on Subsea production systems. Tested and finished in accordance with Annex's B & K of BS ISO 13628-1:2005:

1. Hydraulic Hot Stab connection type A dual port
2. Rotary Torque Receptacle Classes 1,2 & 3
3. Fishtail or T-bar manual connection

Available as a 3.0 tonne, 10 tonne and soon our NEW 20 tonne single head six fall capacity chain block, chained up to project specific heights of lift (H.O.L) that can be pre-set to meet the exact starting point required within the rigging drawings.

Corrosion Protection:

Exclusively working with NiTEC (UK) Ltd using their proven SEATEC 100 and ENP processes ensures the Tiger has unprecedented protection whilst operating subsea. Every single component within the Tiger ROV chain block has been protected against corrosion by working in partnership with NiTEC (UK) Ltd and combining various methods of protection using their expertise in subsea protection systems.



Hydraulic Hot Stab:

Working in partnership with Perry Slingsby Systems Ltd Tooling Division we have designed and built a dual port ISO Hot Stab hydraulic system incorporating a female type A receptacle that is protected by our full 316 Stainless steel frame handle that has 4 built in connection points for the work class manipulators to hold and operate. This exclusively designed system makes for a well-balanced unit that sits perfectly when installing the unit within the project rigging. Using only high quality check valves that prevent loss of the hydraulic fluid within the system when the hot stab is removed, these valves have a dual purpose as they ensure the minimal level of contamination to the system from sea water. These units come supplied with a dummy male stab that ensures debris does not collect in the receptacle during transportation or when the connection is not being used.

Rotary Torque Tool:

This interface has been designed to meet the exact requirements of BS ISO 13628-8:2002. These units can be supplied in Classes 1+2 or class 3 giving maximum tooling flexibility whilst only requiring an operational torque of 50Nm to lift 10 tonnes.

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Fishtail Manual Direct Drive:

Using the same guard frame as the torque tool interface built from 316L stainless steel giving maximum protection, this option gives a very flexible operator-friendly interface by incorporating a high strength but flexible compliance joint making for a very positive and reliable direct drive mechanism.

Stainless Steel Frame Handle:

All our interface options come mounted in our purpose built frames that are constructed using 316L stainless steel bar and tubing, ensuring full compliance with BS ISO 13628-8:2002(E) which gives the manipulators four T-Bar connection positions to hold onto as indicated below, and these tie in with T slots found in parallel jaw manipulators.

Subsea Brake:

Developed and designed for Subsea use creating a highly efficient, reliable braking surface for use in the most extreme conditions.

Chain Bags:

Designed to carry and hold the exact length of load chain required for the operation. Incorporating a stainless steel frame work and heavy duty PVC flexible bag reinforced by webbing with eyelet drain holes for an easy transfer through the splash zone. These chain bags prevent loose chain from getting snagged during lifting or lowering operations and protect any loose chain during transit to and from the operational site.

Chain Guides:

Specifically designed to guide the load chain safely onto or off the load sheave without snagging or jamming, the fluted chain stripper ensures unrestricted entry and exit of the calibrated load chain.

Hooks:

Drop forged and heat treated alloy hooks are furnished with heavy duty latch kits that fully engage into the nose of the hook offering maximum load security. The swivel hooks are attached to the yoke using high grade nuts & bolts allowing for complete inspection during any statutory inspection or written scheme maintenance procedure. Recessed forgings offer full protection to the load chain anchor bolts on all our bottom hooks.

High Performance Premium Grease:

Load carrying ability, mechanical stability, corrosion protection, water resistance and increased operating temperature ranges are all improved by the using only the very best lubricant.

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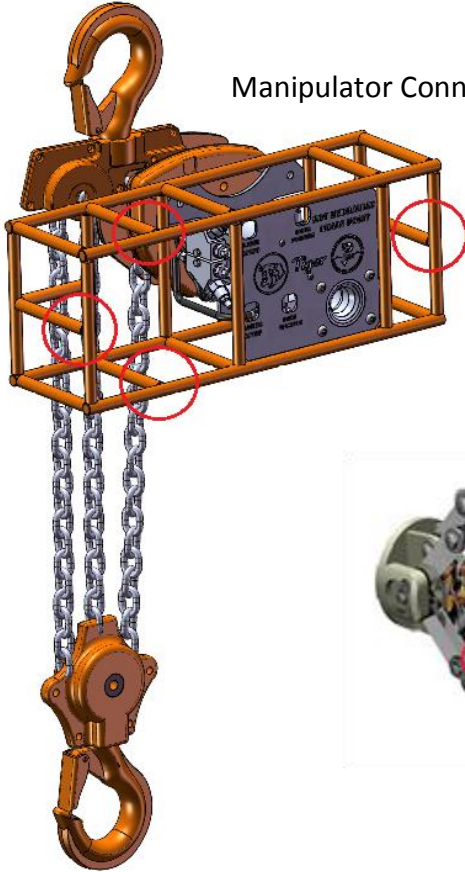
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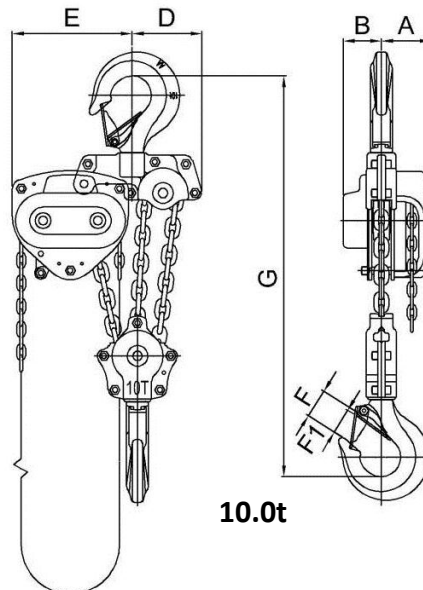
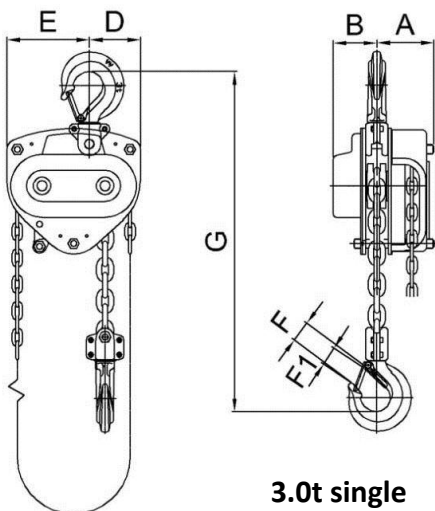


Technical Drawings

Manipulator Connection Points



Chain Block Technical Drawings



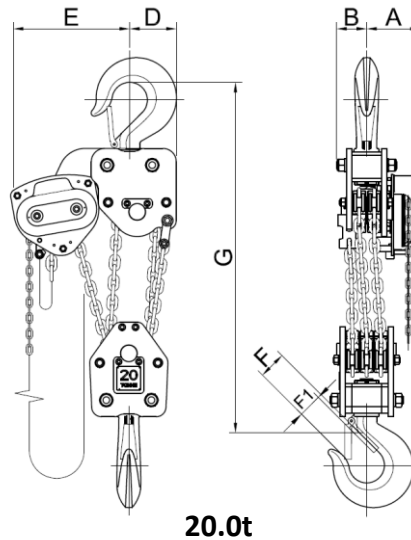
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Data Tables

Chain Block Data

Product Code	Capacity (tonne)	Effort (kg)	Dimensions (mm)							Load Chain		Standard HOL (m)	Mass Kg @ std HOL
			A	B	D	E	F	F1	G	Diameter (mm)	No. of falls		
CB-0300	3.0	38	109	84	98	157	43	38	550	ø10.0	1	3	32.5
CB-1000	10.0	40	109	84	153	263	60	54	660	ø10.0	3	3	62.3
CB-2000	20.0	43	160	90	140	350	90	70	1050	ø10.0	6	3	180.0

ROV Block Data

Product Code	Capacity (tonne)	Max Torque (Nm)	Revs per 300mm travel	Mass out of Water (Kg) (Includes chain block @ std HOL)		
				Hot Stab	Torque Tool	Fishtail
RCB-0300	3.0	45	55	60.5	57.5	53.5
RCB-1000	10.0	50	165	90.3	87.3	83.3
RCB-2000	20.0	55	340	208.0	205.0	201.0

Hydraulic Specification

Hydraulic Interface: Dual Port Hot Stab Receptacle, to ISO 13628-8 Dec 2002: Figure 20 Type A.

Recommended Hydraulic Fluid: Hydraulic Mineral oil AWS 22 or 32 or similar.

Hydraulic Supply: 210bar Maximum (via ROV or Deck Powerpack) Guide flow rate 4 to 8 litres per minute.

Motor Size: 50.3cc nominal