

## Skid Mounted Grease Injection / Hydraulic Control Units


Hunting's standard control unit for E-line operations combines all of the hydraulic functions of a Hydraulic Control Unit with the grease injection functions of a Grease Injection Unit in one compact frame. With an upright stance that allows the operator to work from a standing position, whilst monitoring what is happening at the wellhead.

They are equipped with wet centre hose reels which allow for safe and convenient storage of the hoses, along with easy deployment and retrieval of the hoses.

The standard unit will supply grease to a Grease Injection Control Head and a BOP, as well as supplying hydraulic power to:

- **Dual or Triple BOP**
- **Tool Catcher**
- **Tool Trap**
- **Single or Dual Grease Head Pack Off**
- **Line Wiper**

Grease injection systems are available for 5,000 psi, 10,000 psi and 15,000 psi, using the best air driven pumps available. Two pumps are supplied in each system. These can be used individually, using the other pump as a back up, or for really seamless grease supply with the maximum possible flow, they can be used in unison. Valves are provided on the control panel which allow for all possible flow options. Grease is contained in a 100 gallon tank that is integral to the main frame.

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The standard unit has a single line to feed grease to the grease head. However, with more and more grease heads being supplied with two injection ports there is an option to fit an additional injection line within the basic frame. The grease return brings contaminated grease back to the unit for disposal.

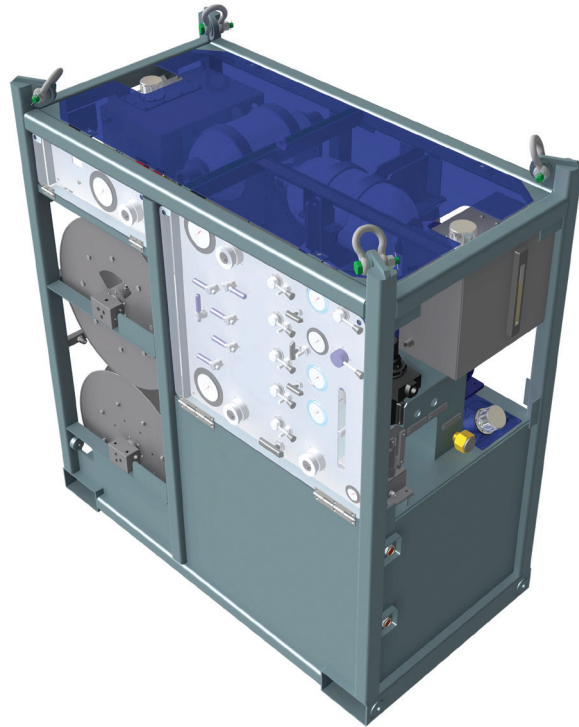
Standard frames for these units are painted steel. However, we recommend stainless steel – a stainless steel frame will last longer and require virtually no maintenance throughout its lifetime. The air driven pumps that we use are selected to give the best performance with the minimum of maintenance.

The standard models have up to a 40:1 ratio, giving 4,000 psi of hydraulic pressure from 100 psi of air pressure. Stainless steel hand pumps are supplied for use with the pack offs and for system back up. The standard unit also has a 10 litre accumulator but additional accumulator power can be specified if required.

The stainless steel control panel includes all of the necessary valves and gauges. The panel is engraved with a system diagram which includes a graphic illustration of the item of Pressure Control Equipment being operated by a particular valve. Hoses are mounted on wet centre hose reels and have manual rewind mechanisms.

More complex systems are available within slightly larger frames. Systems that operate Surface and Sub-Surface Safety Valves, Surface Safety Valves, Hydraulic Ball Valves and that have full Emergency Shut Down capability, with remote stations are available.

(See charts overleaf)



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Wireline Operations - Mechanical Plant

GREASE INJECTION / HYDRAULIC CONTROL UNITS			
Operating Pressure	BOP	Standard Unit Steel Frame	Standard Unit SS Frame
5000 PSI	Dual	572-0205-003	572-0205-004
	Triple	572-0305-002	572-0305-003
10,000 PSI	Dual	572-0210-004	572-0210-005
	Triple	572-0310-012	572-0310-013
15,000 PSI	Dual	572-0215-000	572-0215-001
	Triple	572-0315-001	572-0315-002

**LW / TC / Pack Off**

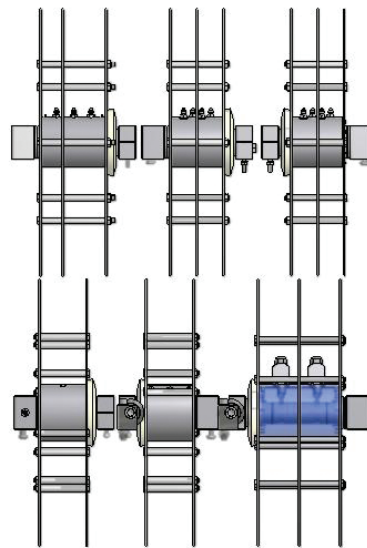
120ft Hose Bundle  
 2 x 1/4" ID  
 5000 psi WP  
 120ft Hose  
 1 x 1/4" ID  
 10,000 psi WP

**BOP 3 / Tool Trap**

2 x 75ft Twin House  
 4 x 1/4" ID  
 5000 psi WP

**BOP 1 / BOP 2**

2 x 75ft Twin House  
 4 x 1/4" ID  
 5000 psi WP



**Grease Return**

120ft Hose  
 3/8" ID  
 10,000 psi WP

**Grease to BOP**

75ft Hose  
 3/8" ID  
 10,000 psi WP

**Grease Supply 1 & 2**

2 x 120ft Hose  
 3/8" ID  
 10,000 psi WP

Other available options:

- **Frame certification to DNV 2.7-1 (Note:- this includes a removable enhanced stability base)**
- **Additional 10 litre accumulator**
- **Second grease supply line hose reel (Note: standard unit has a second grease supply line out but does not include a hose reel for this line)**
- **Grease drain valve panel mounted (Note:- standard unit has this valve mounted on a stab plate)**
- **Chemical Injection System or Test System**
- **Chemical Fluid Transfer System (drum to tank)**
- **Air motor drive hose reels**
- **Storage Locker (Note:- this option is only available if a Chemical Injection System or Test System has not been specified)**

