



## **BALANCE POINT CONTROL BV**

### **Equipment Specification Sheet**

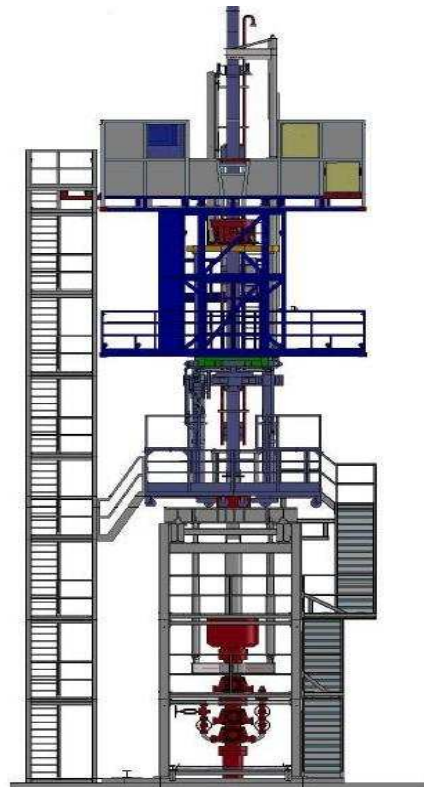
#### **385K HWO/SNUBBING UNIT**

##### 385k Space Saver II:

Based on the successful design of Space Saver I, BPC has designed Space Saver II in 2005. Like Space Saver I, this new design has also been primarily focused on Snubbing operations on high pressure wells. Besides Snubbing, Space Saver II is also very well suited for all types of Workover operations.

Space Saver II includes a number of structural simplifications compared to Space Saver I but optimizes the same design criteria. The compromise between weight/volume, operational performance and operator comfort has resulted in a multi-functional HWO/Snubbing Unit which is suitable for most types of well intervention activities and has since its first appearance successfully completed a long list of onshore and offshore projects. The flexibility and small footprint of Space Saver II makes this unit ideal for offshore environment.

The 385k Space Saver moves tubular (drill-pipe) in- and out of the well by means of 2 hydraulic cylinders (3m stroke). The use of hydraulic cylinders allows perfect control over (drill) string movements and makes it easy to use all types of oil tools.



385k Space Saver II mounted on the Box on Box Support Frame



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#### General specifications:

<b>Description</b>	<b>Data (Field)</b>	<b>Data (Metric)</b>
Pull Capacity:	385,000 lbs	175 ton
Push Capacity:	170,000 lbs	80 ton
Rotary torque:	20,000 ft. lbs	27.000 Nm
Stroke:	10 ft	3 m
Through bore:	17"	432 mm
Slip bowls:	600.000 lbs	270 ton
Gin Pole:	2 x 3300 lbs CB Winch 1 x 11000 lbs Main Winch	2 x 2,5 ton CB Winch 1 x 5,0 ton Main Winch

#### Operational activities:

- Removal and installation of completion.
- Packer setting.
- Installation and removal of Sand-screens
- Milling.
- Abandonment.
- Well Clean Out.
- Fishing.
- Installations and removal of Liners.
- Remedial operations.
- Well Head Re-configurations.
- Installation and Removal of ESP Pumping systems.

#### Advantages

- Good Operator Comfort.
- Small Footprint.
- Flexible.
- Mobile.
- Excellent Cost/Quality ratio.
- Multi-functional.

#### Long Service record

- The 385k Space Saver II has since its first appearance in 2000 successfully completed a long record of operations.



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#### Operational area

- All European Union Countries and USA. (Other countries on request).

#### Transport

- The 385k Space Saver II can be disassembled in easy transportable sections with a weight less than 10t.

#### BOP Change out & Well Head re-configurations

- Balance Point Control has designed special support frames which makes it possible to change out BOP's and perform modifications to the Well Head without disassembling the Unit.



Box on Box Support frame

#### Custom Specific Solutions

- As part of the Job planning, a Rig-Up Configuration will be selected, which is best suited for its intended scope of work. This customer specific approach ensures optimal results during each operation.

#### Rig-Up Time

- The Rig-Up time varies based on the configuration and the type of operation between 24 and 36 hours inclusive commissioning and pressure & function testing.

#### Pipe Handling

- The unit is equipped with a flexible and reliable Pipe Handling System based on the Gin Pole-Lay Down Winch principle. Large flexibility allows variable Pipe Deck locations, easy handling of all types of tubular and changing Rig-Up configurations without modifications.



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- The Gin Pole contains two Counter Balance Winches both rated at 2,5 mTon and one Main Winch rated at 5 mTon.

#### **Auxiliary Equipment**

- Dependent from the scope of work the following equipment may be needed:
  - Data Analyzing System (DAS-System).
  - Hydraulic Power Pack.
  - Well Control Equipment (Blow-out preventers, Flow-lines, Choke, etc.).
  - Mud Pump.
  - BOP Remote Control Unit.
  - Office Container.
  - Tool Container.
  - Guy Wire Container.
  - Generator.



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385k space Saver II in Action:



385k Space Saver II during a Snubbing operation



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385k Space Saver I Workbasket



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385k Space Saver I Operator Console



385k Space Saver II in The Netherlands