SCARGrab System

Efficient and controlled boulder-grabbing and debris-removal operations
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SCARGrab System capabilities
Based around the field-proven Oceaneering Millennium ROV system, the SCARGrab remotely operated vehicle (ROV) is a flexible subsea work platform with 330 Hp of available power and 20 Te of through-frame lift capacity, making the SCARGrab System the most powerful system available on the market.

Now in its third iteration, the SCARGrab System, with its Millennium ROV pedigree and useable power, minimizes downtime and optimizes operational efficiency.

The hydraulic power required to operate the grab is supplied from the ROV, rather than from a surface-based pump, resulting in increased efficiency and environmental awareness, stemming from the lack of exposed pipes leading from the vessel to the system. This also serves to reduce the time associated with launching and recovering the system, again maximizing operational efficiency.

The SCARGrab System is supplied with a robust orange-peel type grab for boulder and debris removal, and can be interfaced to various other subsea tools, such as deployment frames and dredge systems.

For larger-scale boulder clearance projects, the SCARGrab System can be a valuable addition to the SCAR Seabed System RP (route preparation) spread, which is better suited to boulder removal along areas of higher boulder density. As a complement to the spread, the SCARGrab System can be deployed as a cost-effective means of removing isolated objects, or boulders from areas that are sparsely populated.

Choice of launch and recovery systems are dependent on project/vessel requirements.
### SCARGrab System key features and benefits

- Flexible launch systems—vessel crane or “A” frame
- The boulder-grab system is vertically tethered and not free flying, so it can be left in the water column while the vessel moves to another location
- Simple system enables rapid mobilization, deployment/recovery, and demobilization
- Powerful unit with 4 thrusters to maximize station keeping and subsea positioning (direct function of water depth)

### System Specifications

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<table>
<thead>
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<tbody>
<tr>
<td>System power</td>
<td>330 Hp [3 x 110 Hp]</td>
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<tr>
<td>Depth rating</td>
<td>9,842 ft / 3000 m</td>
</tr>
<tr>
<td>Weight (in air)</td>
<td>6,614 lb / 3000 kg</td>
</tr>
<tr>
<td>Length</td>
<td>79 in / 2000 mm</td>
</tr>
<tr>
<td>Width</td>
<td>79 in / 2000 mm</td>
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<tr>
<td>Height</td>
<td>65 in / 1650 mm</td>
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<tr>
<td>Through-Frame SWL Capacity</td>
<td>20t</td>
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### Sensors and Control System

**Standard Equipment**

- **Vessel positioning equipment**
  - Full independent DGPS positioning system with optional redundancy
  - Onboard navigation suite, with option to display full seabed profile/infrastructure where available

- **Standard tool mounted positioning equipment**
  - 2 x 2 CCameras, 4 x lights, 3D scanning, 3D pan and tilt units,
  - Fiber Optic Gyro Altimeter and Depth Sensor, USBL Beacon

- **Optional**
  - Full INS/DVL capability, MBE Survey capable, Pipetracker capable

- **Control system**
  - Oceaneering CTAG software