RRS James Cook delivered 2006
Winch room arrangement RRS James Cook
Trawl system

- Trawl storage winch
- Trawl winch spooling device
- Trawl traction winch
- Trawl damper unit

**Electric motors:**
- Liquid cooled design
- Frequency controlled

**Drum**
- Lebus
- Capacity of 15000m wire (14,5/16,5/18mm)

**Max line speed** 2m/s

**Max line pull:**
- Storage drum, 2 Te @ 1 m/s
- Traction winch, 12,5 Te @ 1 m/s
Deep tow and deep water coring system

- DT Storage Winch
- DT Winch Spooling Device
- DT Steel Armoured Electro-Optical Cable

- DWC Storage Winch
- DWC Winch Spooling Device
- DWC Synthetic Rope (Plasma)

- DT/DWC Damper Unit
- DT/DWC Traction Unit (CTCU)
- DT/DWC Cable Counter

Electric motors:
- Liquid cooled design
- Frequency controlled

Drum DT
- Lebus fitted
- Capacity of 10000m wire (17.3mm)
- Focal slip ring

Drum DWC
- Capacity of 8000m rope (28mm)

Max line speed 2m/s

Max line pull:
- Storage drum, 1.5Te @ 2 m/s
- Storage drum, 5Te @ 1 m/s
- Traction winch, 20 Te @ 1 m/s
CTD system

- CTD Storage Winch
- CTD Winch Spooling Device
- CTD Traction Winch
- CTD Damper Unit
- CTD Cable Counter
- CTD Steel Armoured Electro-Optical Cable

**Electric motors:**
- Liquid cooled design
- Frequency controlled

**Drum**
- Lebus fitted
- Capacity of 8000m cable (11.43mm)
- Focal slip ring

**Max line speed** 2m/s

**Max line pull:**
- Storage drum, 1 Te @ 2 m/s
- Traction winch, 5 Te @ 1 m/s
Coring system

- Coring Winch, Direct Pull
- Coring Winch Spooling Device
- Coring Winch Steel Wire Rope

*Electric motors:*
- Liquid cooled design
- Frequency controlled

*Drum*
- Lebus fitted
- Capacity of 7000m wire (16.5mm)

*Max line speed:* 2m/s
*Max line pull:* 11 Te @ 1 m/s
Outhauler unit

Top view

Spurling Trunk
Stern A-frame

- SWL 30T
- Outreach 4,5m
- Clear lifting height 8m
- Width between legs 9,5m
- Aux towing eyes 5T
- Aux winches 5T / 100m
Parallellogram frame

- SWL 20T
- Outreach over side 2,5m
- Secondary load 4,5m/12T
- Lifting height deck 5m
- Eye plates 2 x 5T
- Aux winches 5T / 100m
Hydro Boom

- SWL 5T
- Outreach over side 5m
- Deployment speed: 0.5 m/s (maximum)
Operator Interface

Important Features

- Graphical user interface
  - Detailed system status information
  - Monitoring
  - Trending
  - Alarm Handling
  - Interface to ships network
- Main control panels
  - Operator station in the control rooms
  - Radio remote for operation on deck
- Emergency operation panels
  - All equipment can be operated locally, even if the main control system is unavailable
THANK YOU FOR YOUR ATTENTION!

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