

CUSTOMER: MBARI

END USER: MBARI

HYDRAULICS CHECK:	DATE:
ELECTRONICS CHECK:	DATE:
PROJECT MANAGER:	DATE:
QUALITY ASSURANCE:	DATE:
SOLD BY:	DATE:
SALES CHECK:	DATE:

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
 $\pm 1/16$ XX $\pm .02$ $\pm 1/2^\circ$
.XXX $\pm .005$

REMOVE BURRS, BREAK SHARP EDGES.

MATERIAL

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FINISH 125/✓

APPROX. WT, LBS
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DO NOT SCALE DRAWING

CUSTOMER P.O. No.

DYNACON
JOB No. 0843

APPROVALS

DATE

DRAWN

WAK

25NOV03

DRAFTING
CHECK

ENGINEERING
CHECK

ENGINEERING
APPROVAL

PRODUCTION
APPROVAL

THIS DRAWING
IS THE
PROPERTY OF



DYNACON, INC.
831 INDUSTRIAL BLVD.
BRYAN, TEXAS USA 77803

ANY REPRODUCTION OR USE
OF THIS DESIGN IS EXPRESSLY
FORBIDDEN UNLESS
AUTHORIZED IN WRITING.

JOB SUMMARY

SIZE

A

CAGE CODE

OFSDO

DWG NO.

0843-0001-01

REV

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SCALE 1/1

FILE \0834DOC\0834-0001-01

SHEET 1 OF 3

25NOV03 13:16

Job 843 Summary
(Reference Q311775.MBR)

1. Scope of Supply (Quantity 1 per unit unless otherwise indicated)

1 each

- MOOS Mooring Winch with Electro-active Conventional Levelwind
- 30 HP EHPU with Local Control only
- Spare Drum Assembly

2. Serial Numbers

843-101W 843-102D 843-103EALW 843-104LC 843-105EHPU 843-202D

3. System Color, Hoses, Fittings and Fasteners

Color – DYNACON Blue
DYNACON paint specifications and materials to be used
Stainless Steel hose ends and fittings
Quick Disconnects
Fasteners 13mm (1/2”) or less to be stainless steel, greater than 1/2” to be inorganic zinc coated
Royal Purple Hydraulic Oil

4. Minimum Operating Temperature

0 degrees Celsius

5. Mooring Winch

Safe Working Load (SWL):	6,000 lbs BD (3,800 lbs FD)
Maximum Line Pull (1.25 x SWL)	7,500 lbs BD (4,780 lbs FD)
Brake Holding Capacity	10,000 lbs BD (6,375 lbs FD)
Bare Drum C/L Diameter	47.1”
Full Drum C/L Diameter	73.8” (17,225 ft of 1.10” cable)
Estimated Weight:	15,000 lbs empty
Low Tension Mode:	3,000 lbs max at 200 fpm BD 1,900 lbs max at 300 fpm FD
High Tension Mode:	6,000 lbs max at 100 fpm BD 3,800 lbs max at 150 fpm FD
Capacity:	17,225 ft (5,250m) of Ø1.10” (28mm) Cable
Levelwind:	Conventional Electro-Active

6. Mooring Winch Drum

- 1 bay to accommodate cable
- 1 bay to accommodate instrumentation package, minimum 10” wide
- Cable pass thru from instrument bay to cable bay
- Minimum Core Diameter is 30”
- Maximum flange height is 22”, with 2.5” of free flange
- 4” Radial clearance between drum and frame members
- Lift points to be provided for lifting drum out of frame fully loaded with cable
- Countersunk bolt holes in flange to allow for installation of spacer plate for different cable diameters
- Lebus Shells (purchased at a later date) will be match drilled and tapped

7. Control Station

- Haul In/ Pay Out Joystick
- Emergency Stop
- Levelwind Override
- Power OK Indicator
- Low Tension/High Tension Switch and Indicator
- Minimum 10m (33 ft) Interconnect
- Local Control Pedestal

8. HPU and Drivetrain

Winch Pump:	Sunstrand 90 R 100 KA 1 B 6 L 4 F1 E 03 GBA 20 14 24
Levelwind Pump:	A10V028DR/31R-PSC62N00
Heat Exchanger:	Air/Oil – American Industrial AOCHM-20
Power Requirements:	480VAC +/- 10%, 3 phase, 60 Hz
Prime Mover:	Baldor 30HP Washdown Rated Electric Motor
Pump Coupling:	Rotex 48 01 ST 92 REGULAR 1.875 .500 1.0 D&E 1.750 13T 8/16 DP 2.0
Pump/Motor Adapter:	Magnalloy M284862C
Winch Motors (2)	White 710 540 W86 51 ZAAAA
Levelwind Motor	Charlynn 104-1002

9. Umbilical (not supplied by DYNACON)

Manufacturer:	JDR
Part or Model Number:	010 A 099 Rev 1B
Diameter:	28.0 mm
Manufacturing Tolerances:	N/A
Minimum Bend Radius:	15 inches
Weight in Air:	.784 lbs/ft
Weight in water:	.140 lbs/ft

*Final cable has not yet been determined. Two different cables will be tested on shallow dives before a final determination is made. Drum Spacers can be installed at a later date to accommodate specific cables.

10. Manuals and Documentation

Deliver with system:

- two(2) each bond copies
- one(1) each waterproof copy

11. FAT Date

TBD

Note: FAT procedures to be submitted to customer 20 days prior to FAT date.

12. Ship Date

23 FEB 04

13. Certifications

None

14. Other Features

1 Spare Drum
Suitable lifting points for crane lift
Road transportable without permits
Winch to Deck Tiedowns in form of 1" diameter bolt holes on 24" centerlines
Design to facilitate rapid drum swap

15. Exceptions to Customer Specifications

1. Max SWL Line Pull is 6,000 lbs BD instead of 10,000 lbs BD
2. LW rollers will be smaller than 15" Radius as stated in 5.2 of specification
3. Pricing based on FOB Bryan, TX, Not FOB Destination (Moss Landing, CA)