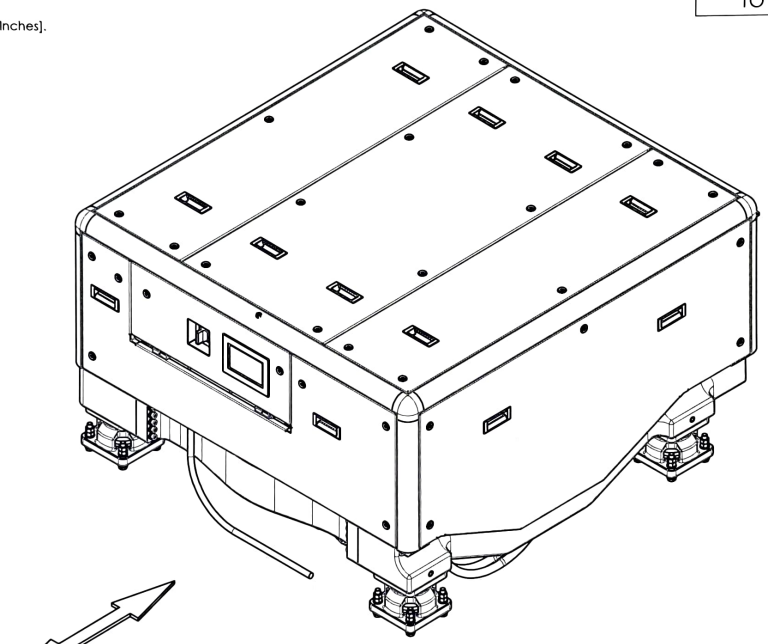
NOTES:

1. CONTACT VEEM IF GYRO INTENDED TO BE LOCATED MORE THAN 2m ABOVE DWL OR MORE THAN 70% OF LWL FORWARD OF TRANSOM.
2. DO NOT INSTALL GYRO WITH FRONT PANEL FACING PORT OR STARBOARD.
3. GYRO UNIT MAY BE INSTALLED WITH FRONT PANEL FACING FORWARD OR AFT.
4. REFER TO SHEET 6 FOR STRUCTURAL LOADS.
5. ALL DIMENSIONS IN: mm AND DIMENSIONS IN BRACKETS: [Inches].

WARNING !

GYRO-INDUCED LOADS ARE VERY LARGE.
FULL STRUCTURAL ANALYSIS IS REQUIRED TO PROVIDE SUFFICIENT SUPPORT.



FORE OR AFT

ISOMETRIC VIEW

CHANGE DESCRIPTION		ELECTRICAL REQUIRMENTS UPDATED / COOLING REQUIRMENTS UPDATED / SHEET 12 UPDATED															
16	ISSUED FOR PRODUCTION	JDD	Jan	13/11/24	JW	[illegible]	13/11/24	-			-			DF	[illegible]	13/11/24	
REV.	DESCRIPTION	DRN	INITL	DATE	ENG CHK	INITL	DATE	MAN APP	INITL	DATE	ELECT APP	INITL	DATE	SALES APP	INITL	DATE	

REVISIONS

VEEM MARINE
PROPELLERS AND SYSTEMS DESIGNED

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DRAFTING TO AS 1100.101 AND 1100.201

TOLERANCES IN ACCORDANCE WITH -

MACHINE SURFACES 3.2 UON

DEBURR ALL SHARP EDGES

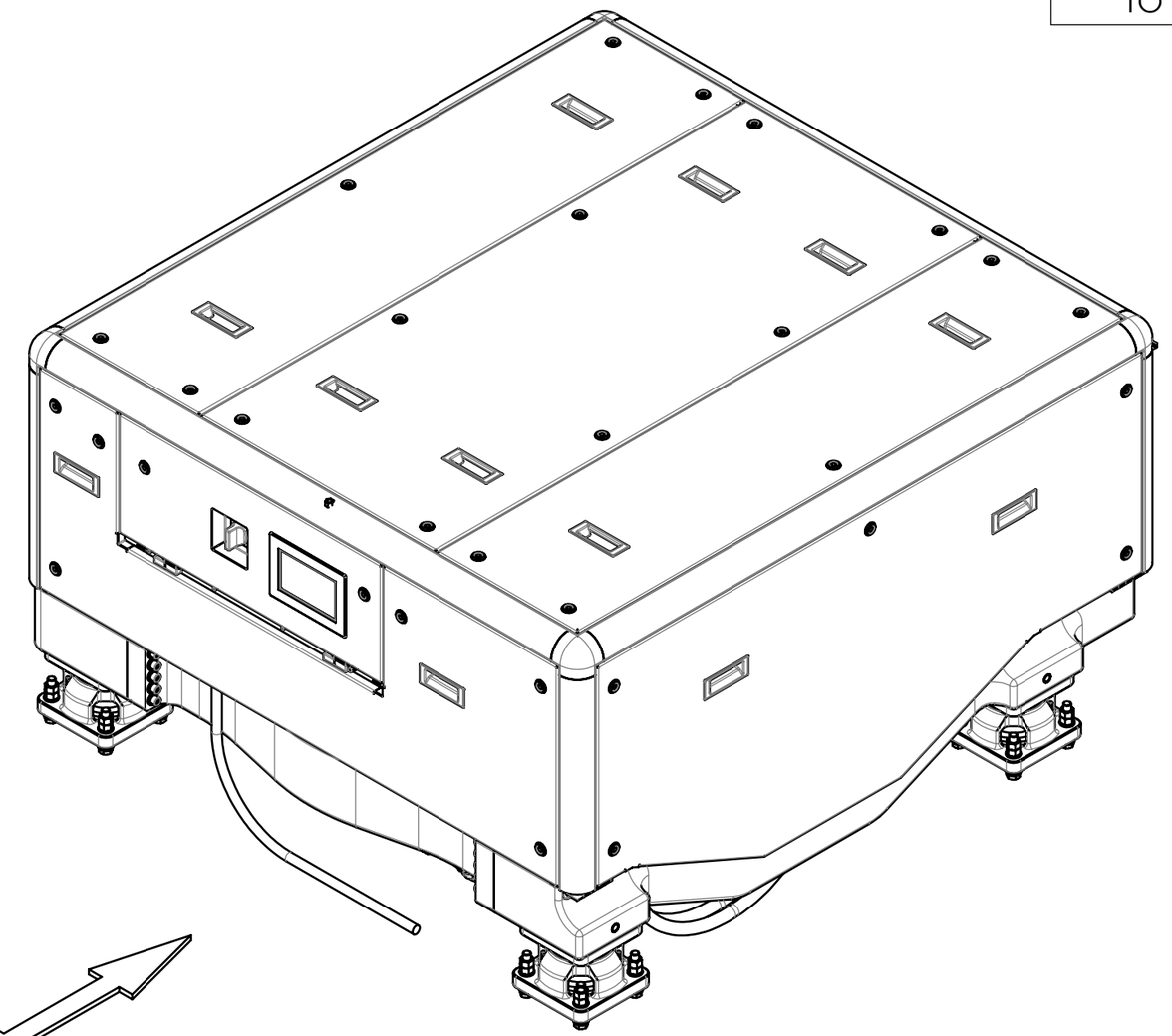
PART/ASSEMBLY No 0400-AT-1000-16	MASS SEE SHEET 2	TOTAL QTY / GYRO 1	
DESCRIPTION VEEM GYRO 52 & 70 INSTALLATION			
DRG No 0400-DT-1000		REV 16	
MATERIAL -		PROCESS ASSEMBLY	
SHEET 01 OF 11	SCALE 1:12		SHEET SIZE A3

NOTES:

1. CONTACT VEEM IF GYRO INTENDED TO BE LOCATED MORE THAN 2m ABOVE DWL OR MORE THAN 70% OF LWL FORWARD OF TRANSOM.
2. DO NOT INSTALL GYRO WITH FRONT PANEL FACING PORT OR STARBOARD.
3. GYRO UNIT MAY BE INSTALLED WITH FRONT PANEL FACING FORWARD OR AFT.
4. REFER TO SHEET 6 FOR STRUCTURAL LOADS.
5. ALL DIMENSIONS IN: mm AND DIMENSIONS IN BRACKETS: [Inches].

WARNING !

GYRO-INDUCED LOADS ARE VERY LARGE.
FULL STRUCTURAL ANALYSIS IS REQUIRED
TO PROVIDE SUFFICIENT SUPPORT.



FORE OR AFT

ISOMETRIC VIEW

CHANGE DESCRIPTION		ELECTRICAL REQUIRMENTS UPDATED / COOLING REQUIRMENTS UPDATED / SHEET 12 UPDATED														
16	ISSUED FOR PRODUCTION	JDD			JW			-			-			DF		
REV.	DESCRIPTION	DRN	INITL	DATE	ENG CHK	INITL	DATE	MAN APP	INITL	DATE	ELECT APP	INITL	DATE	SALES APP	INITL	DATE
REVISIONS																

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TOLERANCES IN ACCORDANCE WITH -

MACHINE SURFACES 3.2 UON

DEBURR ALL SHARP EDGES

PART/ASSEMBLY No	MASS	TOTAL QTY / GYRO
0400-AT-1000-16	SEE SHEET 2	1

DESCRIPTION: VEEM GYRO 52 & 70 INSTALLATION

DRG No: 0400-DT-1000 REV: 16

MATERIAL: -

PROCESS: ASSEMBLY

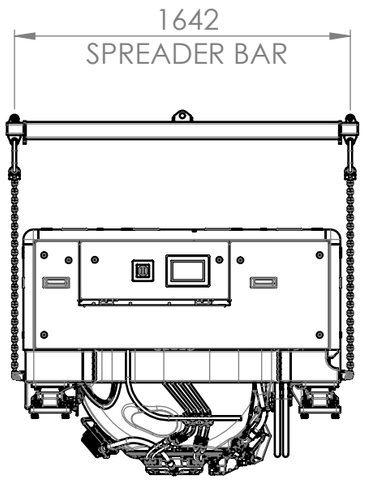
SHEET: 01 OF 11

SCALE: 1:12

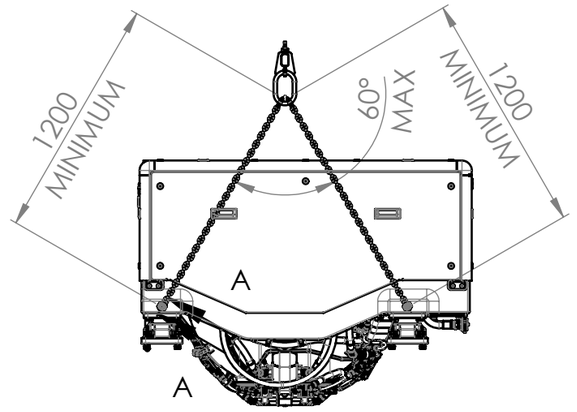
SHEET SIZE: A3

NOTES:

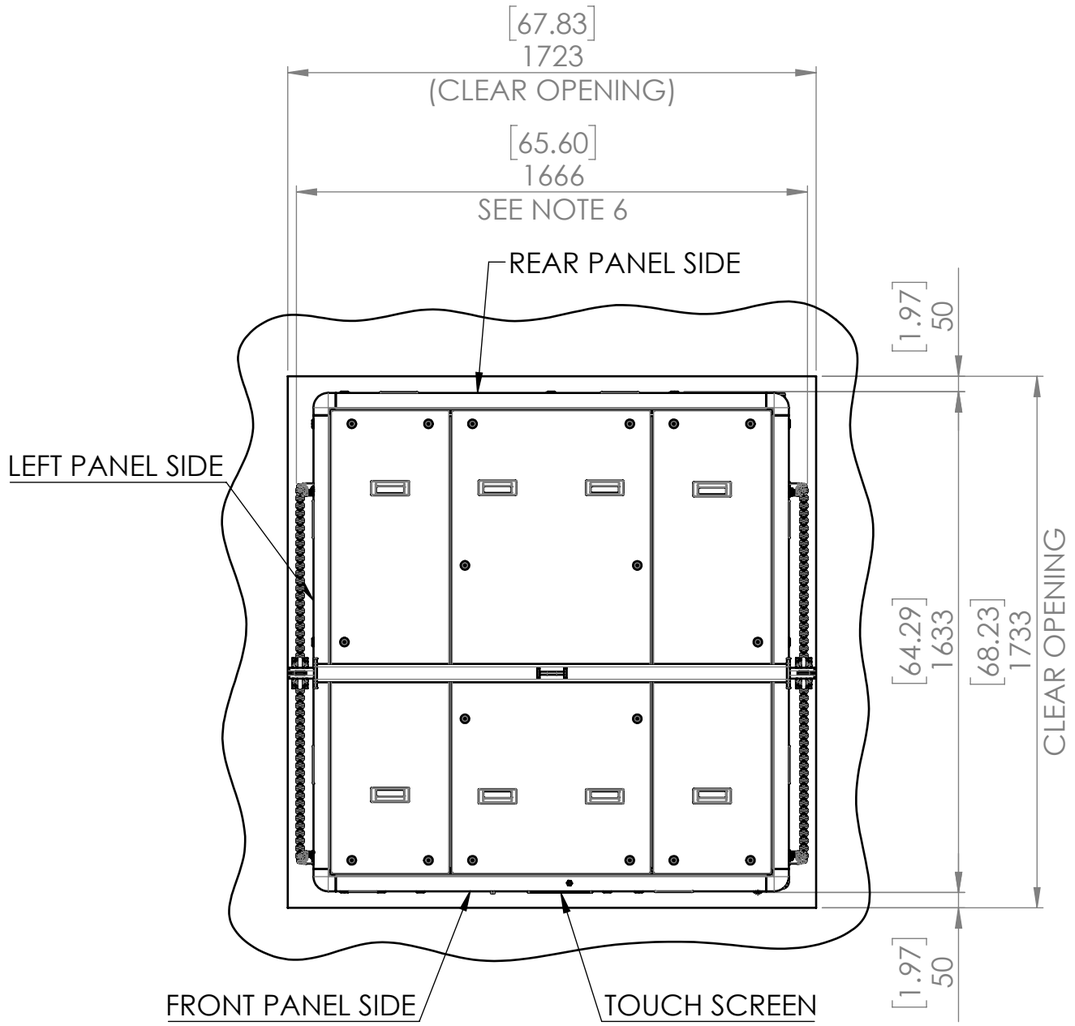
1. MAXIMUM SLING ANGLE 60°. SPREADER BAR 1642 mm LONG TO BE USED. LONGER SPREADER BAR MAY BE REQUIRED DEPENDING ON LIFTING LUGS USED.
2. ENSURE RIGGING DOES NOT CONTACT GYRO ENCLOSURE OR DAMAGE MAY RESULT.
3. LIFTING RIGGING IS NOT INCLUDED IN GYRO STANDARD SCOPE OF SUPPLY.
4. ENSURE DIMENSIONS OF RIGGING INCLUDED IN DESIGN OF INSTALLATION SOFT PATCH CLEAR OPENING.
5. FOR DEEP LIFTS, CONSIDER SPREADER BAR WHEN DESIGNING DECK OPENING.
6. ALL DIMENSIONS IN: mm AND DIMENSIONS IN BRACKETS: [Inches].



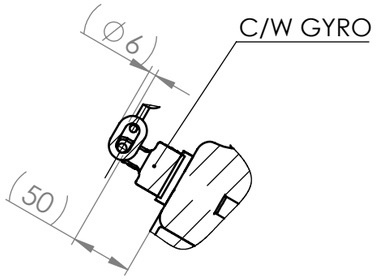
FRONT VIEW
SCALE 1 : 30



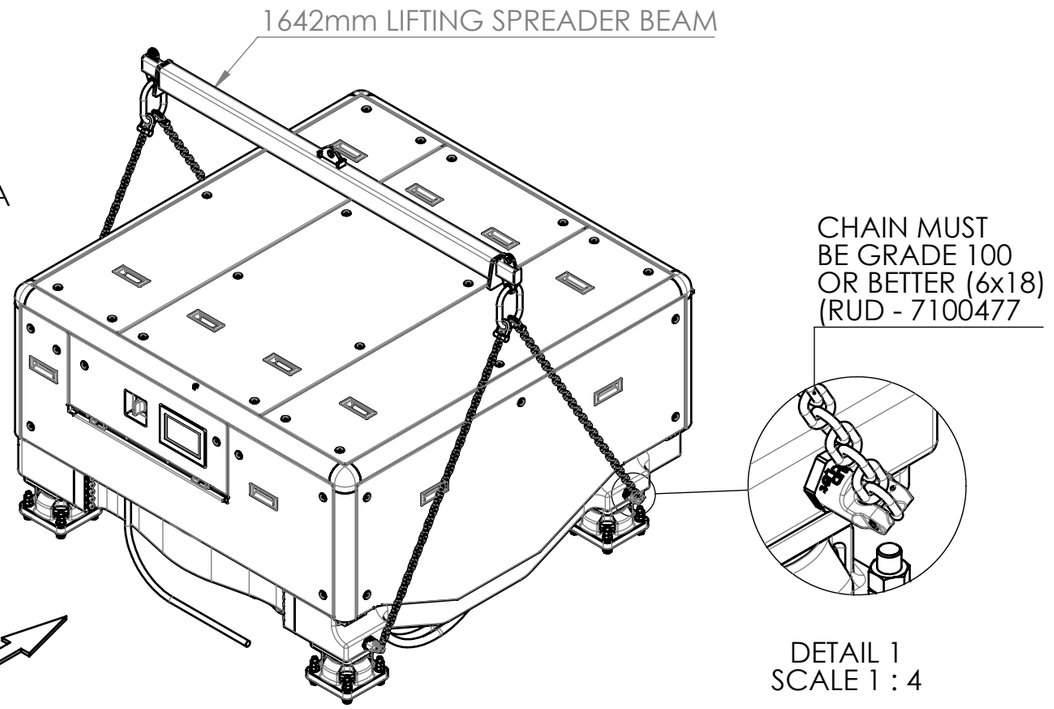
RIGHT SIDE
SCALE 1 : 30



CLEAR OPENING DIMENSIONS FOR VERTICAL LIFT
TOP VIEW



SECTION A-A
SCALE 1 : 5



DETAIL 1
SCALE 1 : 4

ISOMETRIC VIEW

FORE OR AFT

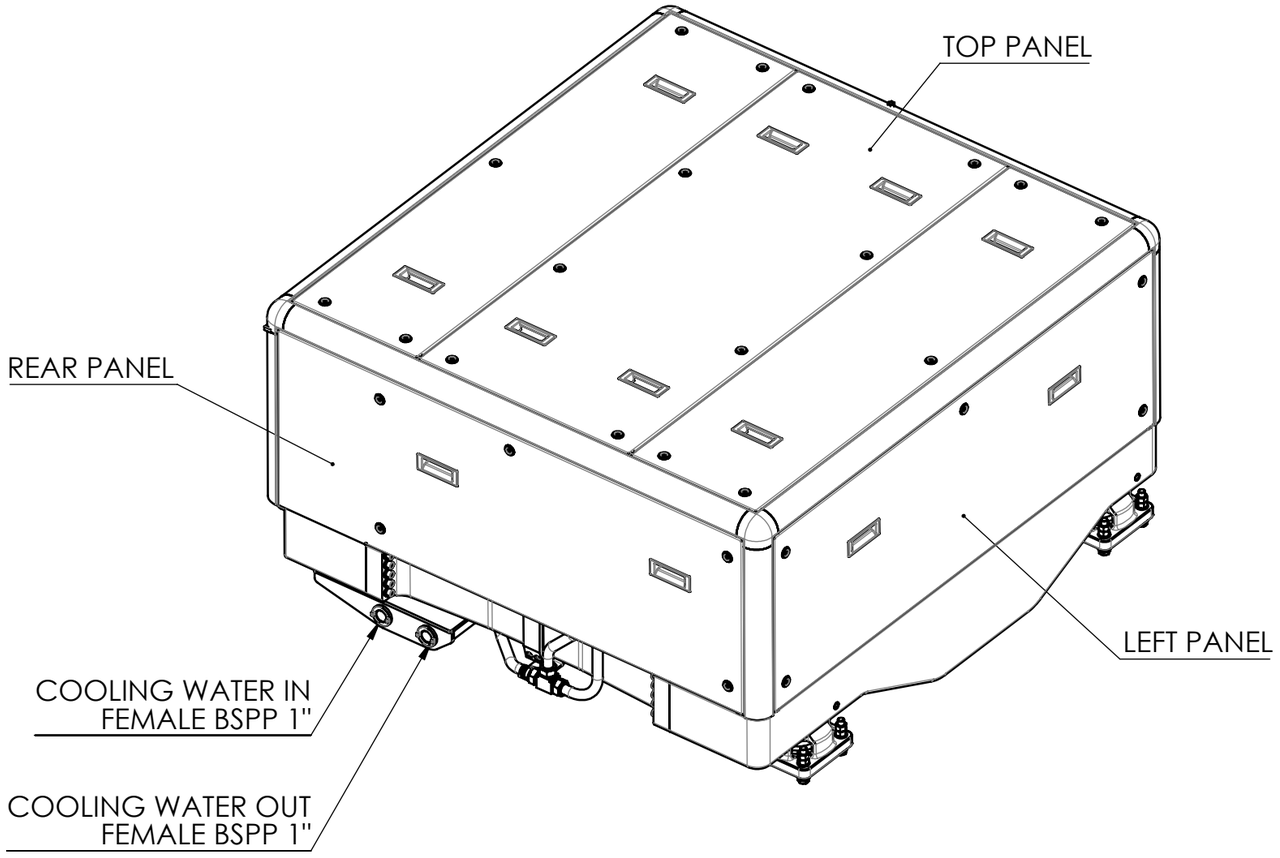
MASS [Kg]	VG52SD	VG70SD
MASS WITH ENCLOSURE *	2575 Kg	2850 Kg
MASS WITHOUT ENCLOSURE *	2525 Kg	2800 Kg
* EXCLUDING MASS OF RIGGING.		

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DRAFTING TO AS 1100.101 AND 1100.201
TOLERANCES IN ACCORDANCE WITH -
MACHINE SURFACES 3.2 UON
DEBURR ALL SHARP EDGES

PART/ASSEMBLY No 0400-AT-1000-16	MASS SEE TABLE	TOTAL QTY / GYRO 1
DESCRIPTION LIFTING DRAWING		
DRG No 0400-DT-1000		REV 16
MATERIAL -		PROCESS ASSEMBLY
SHEET 02 OF 11	SCALE 1:20	SHEET SIZE A3



COOLING WATER TEMP °C	FLOW RATE (LITRES/min)	PRESSURE DROP bar	DISCHARGE TEMP °C
UP TO 39	75	1.4	48
DATA FOR MAX LOADING CONDITIONS AND AT 50°C AIR			
COOLING WATER HEAT LOAD 43kW MAXIMUM. COOLING WATER MINIMUM TEMP 2°C.			
GYRO AMBIENT TEMPERATURES STORAGE: -5 C TO 55 C. OPERATIONAL: -5 C TO 50 C.			

AIR HANDLING TO CONSIDER COMPARTMENT HEAT LOADS AS BELOW	
COMP. TEMP. (°C)	HEAT (W)
20	1200
30	900
40	600
50	300
60	0

COOLING WATER OPTIONS:

- RAW SEAWATER COOLING WATER MAY BE USED WITH # 16-20 MESH FILTER.
- CLOSED CIRCUIT INTER-COOLER SYSTEM RECOMMENDED.
- COOLANT TO BE DEMINERALISED WATER WITH APPROPRIATE DOSE OF CORROSION INHIBITOR.

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TOLERANCES IN ACCORDANCE WITH -

MACHINE SURFACES 3.2 UON

DEBURR ALL SHARP EDGES

PART/ASSEMBLY No	MASS	TOTAL QTY / GYRO
0400-AT-1000-16	SEE SHEET 2	1

DESCRIPTION: COOLING INTERFACE CONNECTIONS

DRG No: 0400-DT-1000 REV: 16

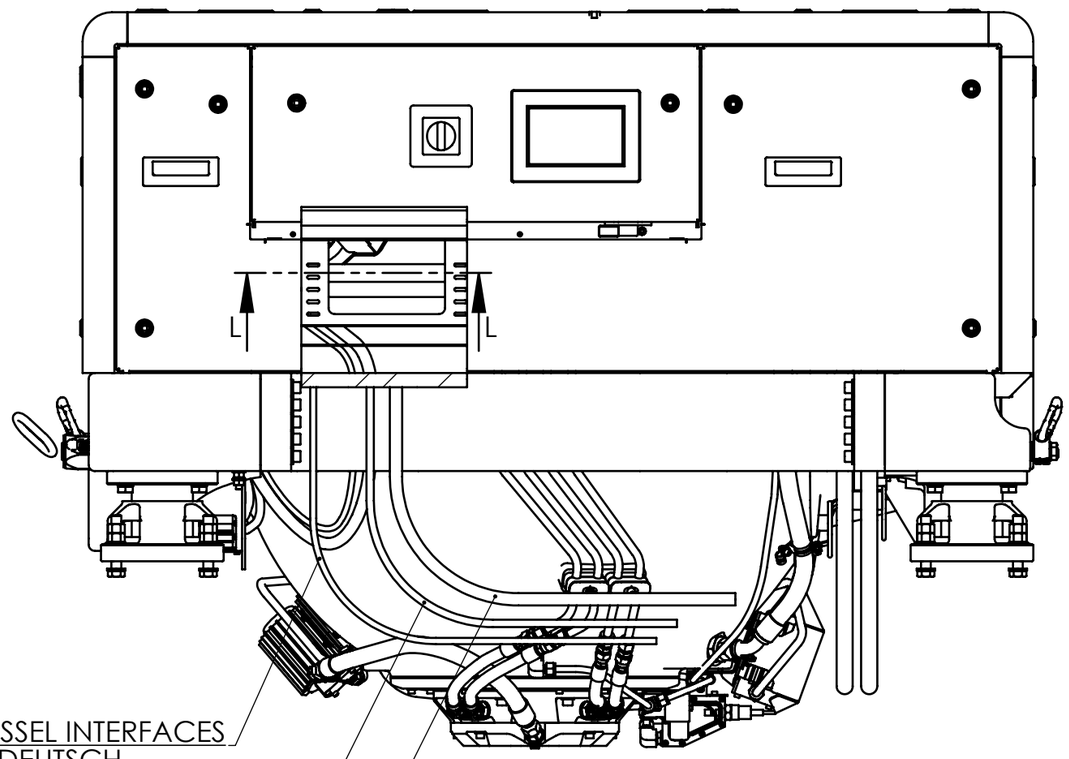
MATERIAL: -

PROCESS: ASSEMBLY

SHEET: 03 OF 11

SCALE: 1:10

SHEET SIZE: A3

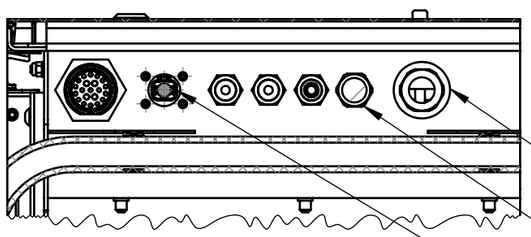


x6.8 VESSEL INTERFACES
4 - PIN DEUTSCH

24 VDC CABLE CONNECTION
(MAX. GLAND DIA. 25 mm)

AC POWER ELECTRICAL CABLE
(MAX. GLAND DIA. 32 mm)

FRONT PANEL VIEW



AC POWER ELECTRICAL CABLE
(MAX. GLAND DIA. 32 mm)

24 VDC CABLE CONNECTION
(MAX. GLAND DIA. 25 mm)

x6.8 VESSEL INTERFACES
4 - PIN DEUTSCH

SECTION L-L
SCALE 1 : 5

POWER SUPPLY REQUIREMENTS

THREE PHASE SUPPLY (3Ø) 50/60Hz

VOLTAGE:		400V**	415V	440V	460V
PHASE CURRENT: BEARINGS RUN-IN	32 kVA	46 Arms	45 Arms	43 Arms	40 Arms
PHASE CURRENT: NEW BEARINGS ***	32 kVA	46 Arms	45 Arms	43 Arms	40 Arms

NOTES:
PHASE CURRENTS BASED ON MINIMUM POWER FACTOR OF 0.80, ACTUAL POWER FACTOR DEPENDS ON THE VESSEL POWER DISTRIBUTION DESIGN.

DC SUPPLY:
24V, 56A (MIN 50Ah UNINTERRUPTED SUPPLY OF 24V DC REQUIRED IN THE EVENT OF LOSS OF AC POWER)

ELECTRICAL & DATA CABLES TERMINATED THROUGH GLANDS IN CABINET, SEE SHEET 11

CABLING AND BREAKERS TO BE SIZED ACCORDING TO SHEET 11

HARMONICS:
OVERALL POWER DISTRIBUTION & HARMONIC VOLTAGE DISTORTION MANAGEMENT IS THE RESPONSIBILITY OF THE POWER DISTRIBUTION INTEGRATOR.
SEE VEEM DOCUMENT 0400-SE-0001 FOR GYRO STABILISER HARMONIC CURRENT DISTORTION SPECTRUM MEASURED AT FACTORY FOR VG52SD & VG70SD

** MINIMUM OF 398 V_{RMS} MUST BE PROVIDED AND MEASURED AT THE GYRO. LOWER VOLTAGE AT GYRO MAY RESULT IN LESS THAN RATED RPM BEING ACHIEVED.

*** THE VEEM GYRO IS DELIVERED WITH BEARINGS RUN-IN AT FACTORY. THE POWER SUPPLY REQUIRED IN THIS CONDITION IS AS DESCRIBED IN THE ROW IN TABLE ABOVE MARKED "PHASE CURRENT (BEARINGS RUN-IN)".
AFTER BEARINGS ARE REPLACED IN THE FIELD THERE WILL BE A RUN-IN PERIOD DURING WHICH THE RUNNING RESISTANCE OF THE NEW BEARINGS WILL BE HIGHER. THE RUN-IN PERIOD DEPENDS UPON THE LEVEL OF LOADING OF THE BEARINGS DURING THAT PERIOD AND CAN VARY WIDELY (50 HOURS UNDER HEAVY LOADING, UP TO HUNDREDS OF HOURS UNDER LIGHT LOADING CONDITIONS).
IF THE POWER SUPPLY IS MAINTAINED AT THE SAME LEVEL AS FOR RUN-IN BEARINGS, A PERIOD OF LOWER ACHIEVABLE RPM IS EXPECTED. OPTIONALLY, IF PREFERRED, IN ORDER TO OVERCOME THE ADDITIONAL RESISTANCE DURING THIS PERIOD (AND THEREFORE MAINTAIN RATED RPM), ADDITIONAL POWER IS REQUIRED AS DESCRIBED IN THE ROW IN THE TABLE ABOVE MARKED "PHASE CURRENT (NEW BEARINGS)".

VEEM MARINE
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TOLERANCES IN ACCORDANCE WITH -

MACHINE SURFACES 3.2 UON
DEBURR ALL SHARP EDGES

PART/ASSEMBLY No	MASS	TOTAL QTY / GYRO
0400-AT-1000-16	SEE SHEET 2	1

DESCRIPTION: ELECTRICAL POWER CONNECTIONS

DRG No: 0400-DT-1000 REV: 16

MATERIAL: -

PROCESS: ASSEMBLY

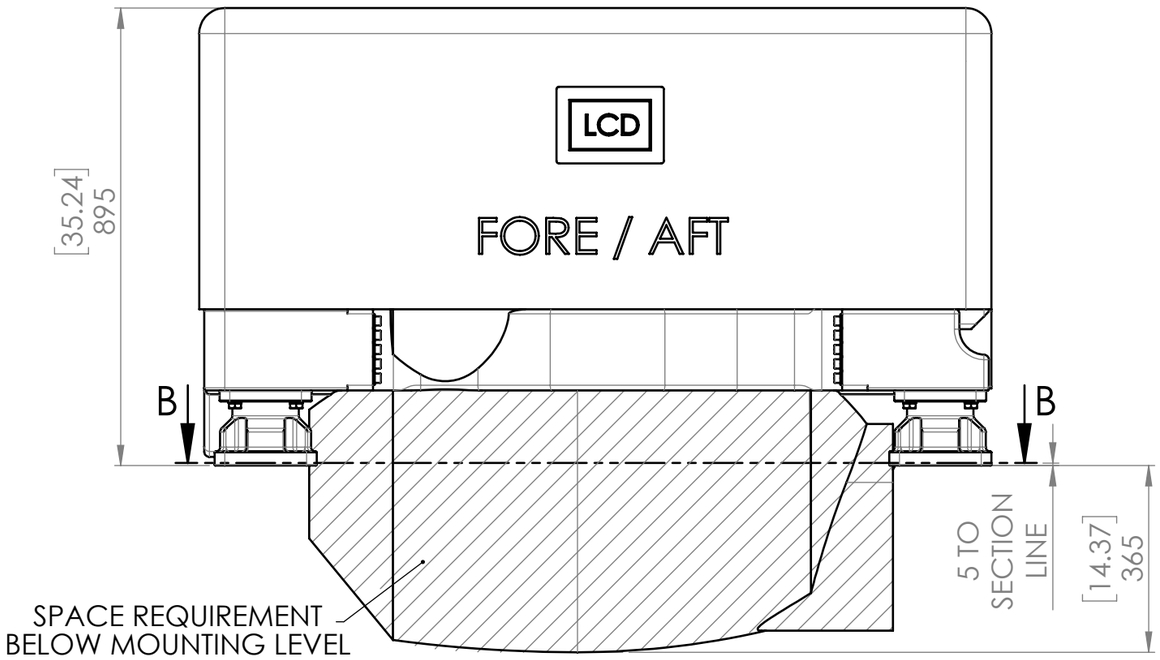
SHEET: 04 OF 11

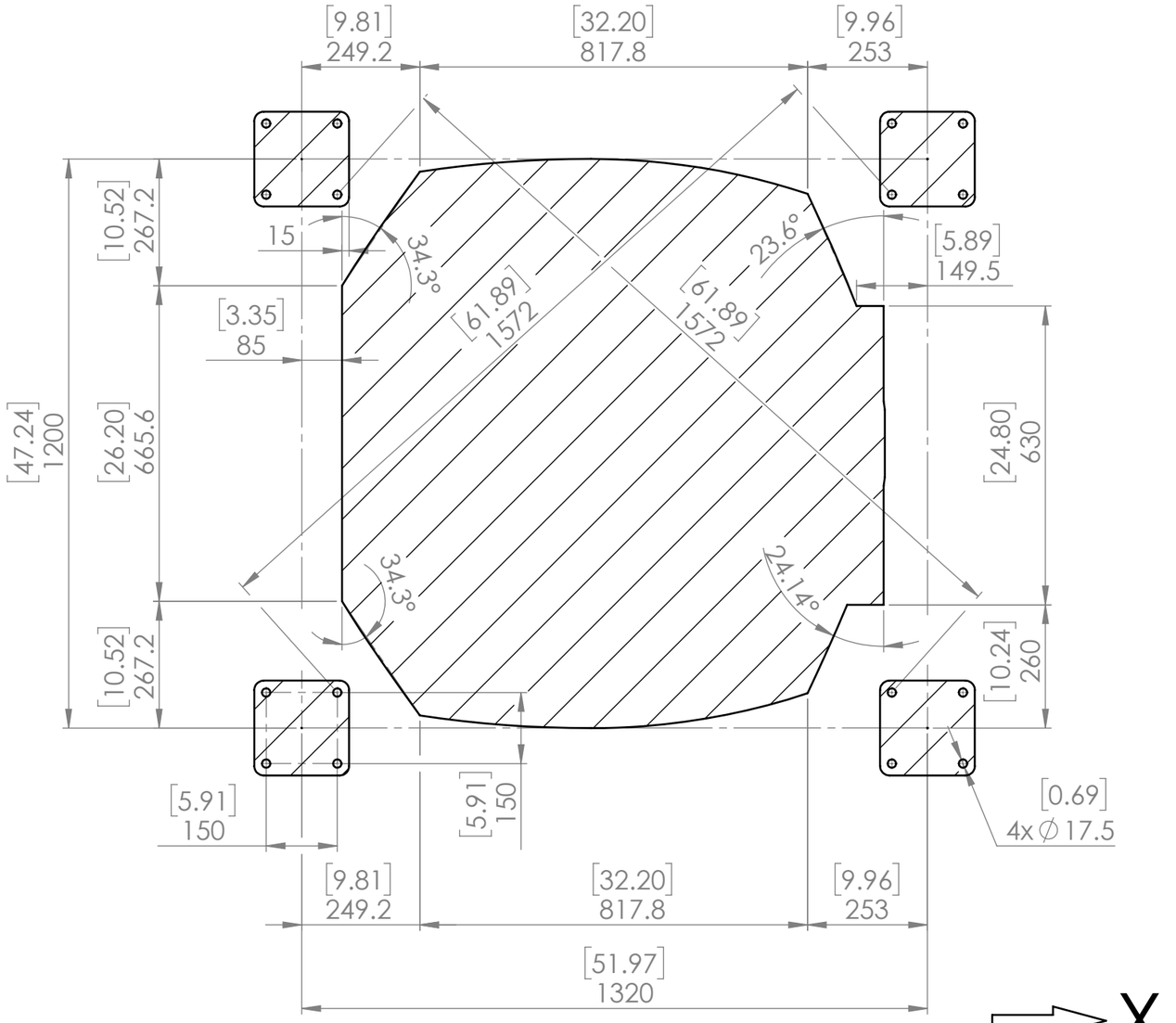
SCALE: 1:10

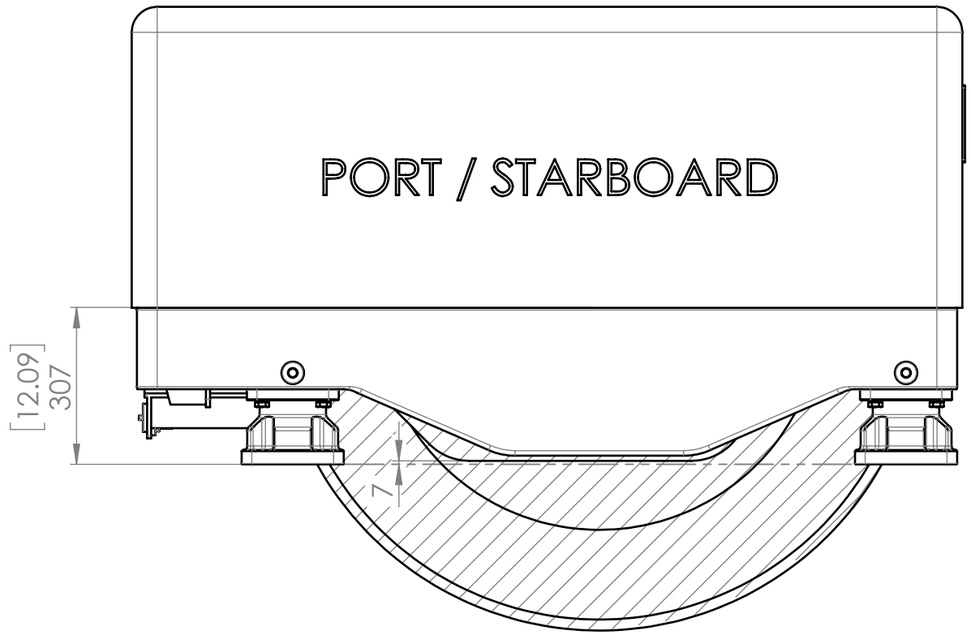
SHEET SIZE: A3

NOTES:

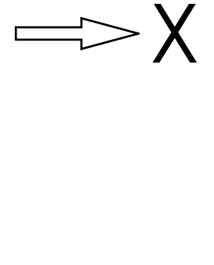
- THE HATCHED AREA IS REQUIRED FOR SAFE OPERATION.
- MOUNTING SURFACES AT FOUR LOCATIONS TO BE LEVEL WITHIN 1mm ACROSS EACH MOUNT AND WITHIN 3mm ACROSS THE WHOLE FOOTPRINT.
- MOUNTING HOLE PATTERN TO BE DRILLED WITHIN +/-0.5mm
- ALL DIMENSIONS IN: mm AND DIMENSIONS IN BRACKETS: [Inches]
- IT IS RECOMMENDED THAT THE STRUCTURAL INTERFACE DESIGNER MAKE PROVISION FOR ACCESS BELOW THE GYRO BY A TECHNICIAN. THIS WILL SAVE SIGNIFICANT TIME IN EXECUTING SOME SERVICE AND MAINTENANCE TASKS.







SECTION B-B
VIEW FROM ABOVE

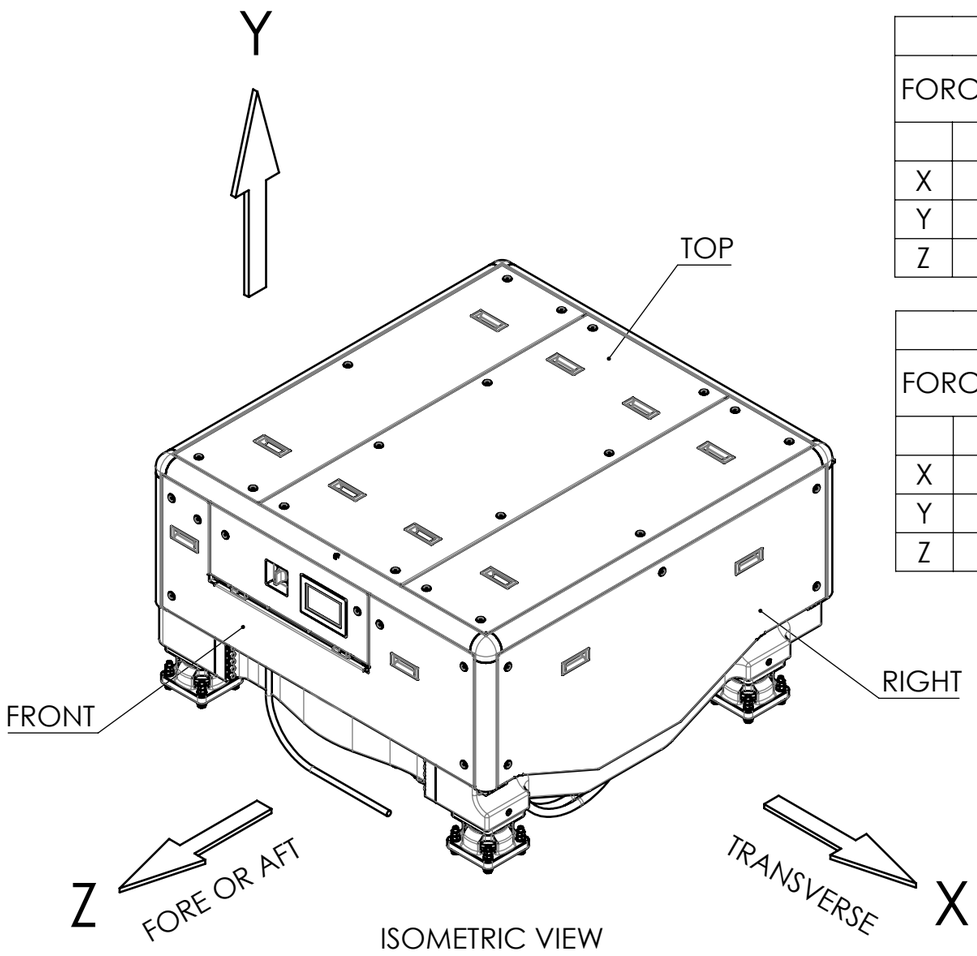


PART/ASSEMBLY No: 0400-AM-1000-15	MASS: SEE SHEET 2	TOTAL QTY / GYRO: 1
DRAFTING TO: AS 1100.101 AND 1100.201	DESCRIPTION: SPACE REQUIREMENTS UNDER STABILISER	
TOLERANCES IN ACCORDANCE WITH: -	DRG No: 0400-DT-1000	REV: 16
MACHINE SURFACES: 3.2 UON	MATERIAL: -	PROCESS: ASSEMBLY
DEBURR ALL SHARP EDGES	SHEET: 05 OF 11	SCALE: 1:12 / SHEET SIZE: A3

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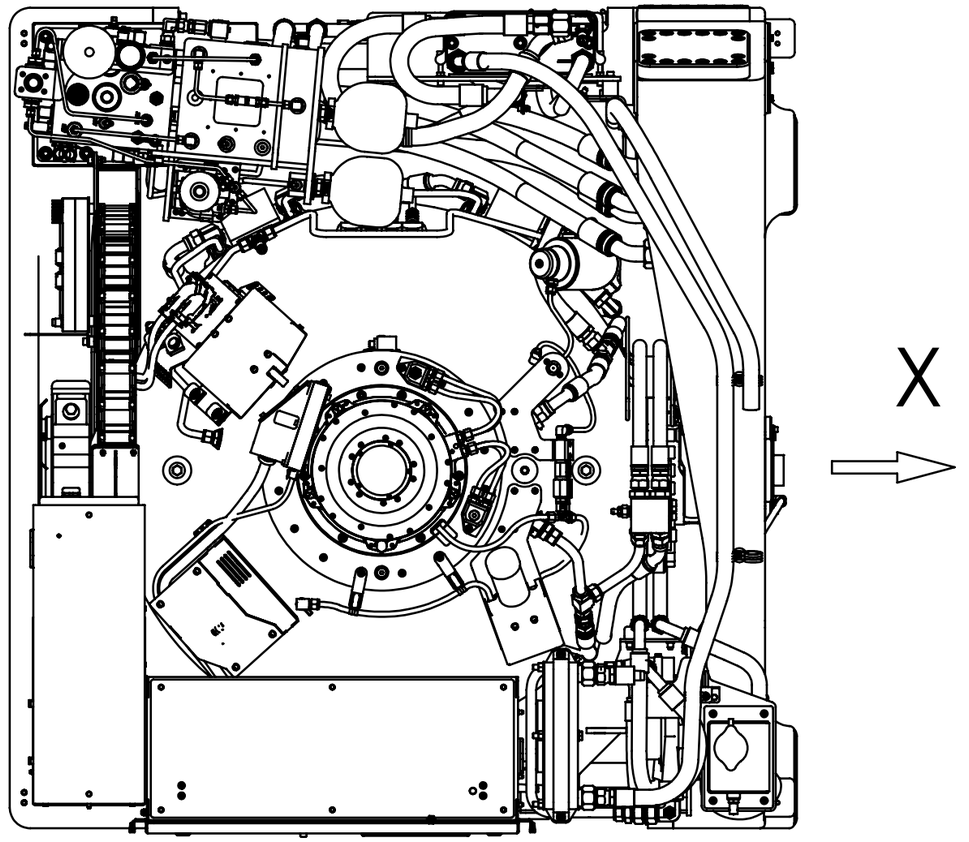
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ISOMETRIC VIEW

VG52SD		
FORCES ON EACH MOUNT		
	MAX	MIN
X	17.1kN	-17.1kN
Y	70.0kN	-83.5kN
Z	18.0kN	-18.0kN

VG70SD		
FORCES ON EACH MOUNT		
	MAX	MIN
X	24.0kN	-24.0kN
Y	78.5kN	-93.3kN
Z	22.3kN	-22.3kN



WARNING !

GYRO-INDUCED LOADS ARE VERY LARGE.
FULL STRUCTURAL ANALYSIS IS REQUIRED
TO PROVIDE SUFFICIENT SUPPORT.

NOTES:

- FY (VERTICAL) LOADS SHALL BE CONSIDERED TO FULLY REVERSE AT THE VESSELS NATURAL ROLLING PERIOD.
- FX AND FZ (HORIZONTAL) LOADS SHALL BE CONSIDERED TO FULLY REVERSE AT HALF THE VESSELS NATURAL ROLLING PERIOD.
- EACH LOAD SHALL BE CONSIDERED TO BE INDEPENDENT. ONEROUS LOAD COMBINATIONS SHALL BE CONSIDERED.
- TO BE READ IN CONJUNCTION WITH TECHNICAL NOTE 1404.
- LOADS ARE SAME FOR CW OR CCW ROTATION.
- ALL DIMENSIONS IN: mm AND DIMENSIONS IN BRACKETS: [Inches]

VEEM MARINE
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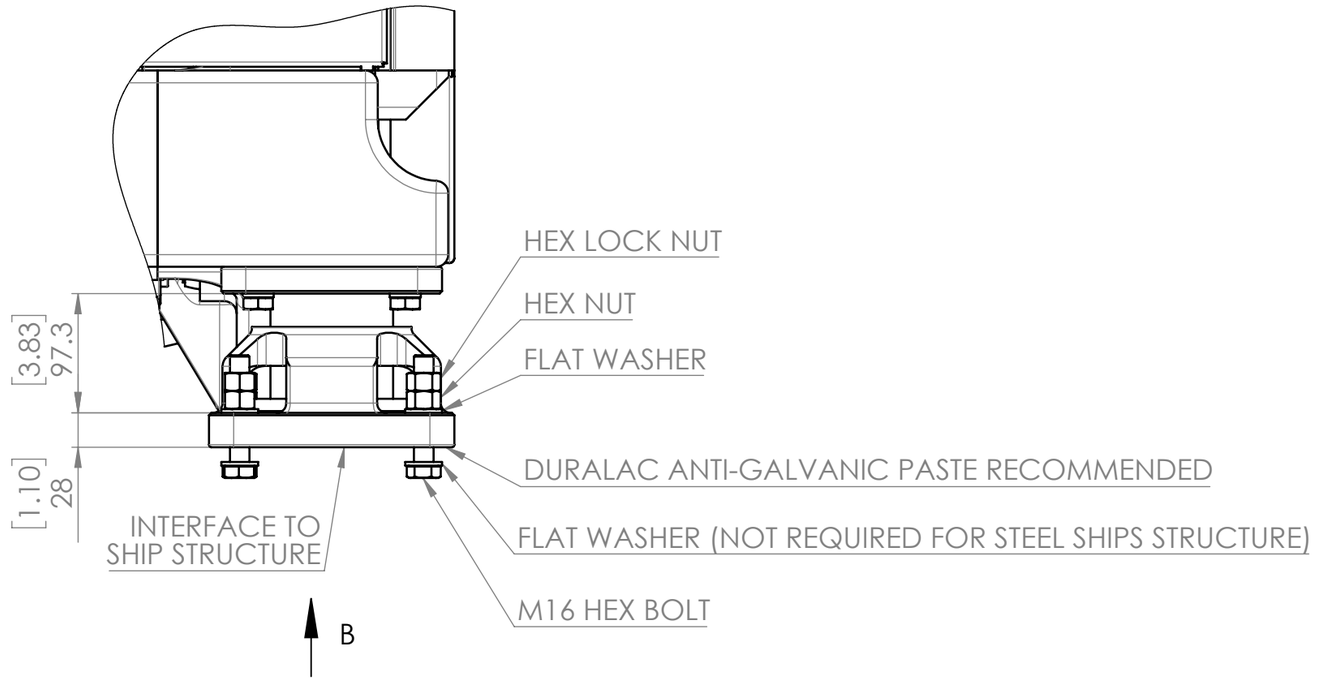
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TOLERANCES IN ACCORDANCE WITH -
MACHINE SURFACES 3.2 UON
DEBURR ALL SHARP EDGES

PART/ASSEMBLY No	MASS	TOTAL QTY / GYRO
0400-AT-1000-16	SEE SHEET 2	1

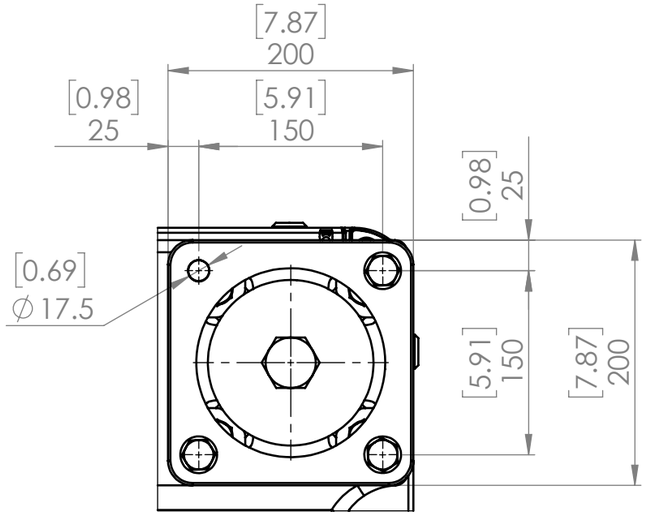
DESCRIPTION: FORCES ON MOUNTS
DRG No: 0400-DT-1000
REV: 16
MATERIAL: -
PROCESS: ASSEMBLY
SHEET: 06 OF 11
SCALE: 1:12
SHEET SIZE: A3

NOTES:

- MIN PRE-LOAD 65kN ±10% ON MOUNT BOLTS.
- ENGINEERING OF TIGHTENING METHOD IS THE RESPONSIBILITY OF THE INSTALLER.
- M16 GRADE 8.8, SS A4-80 OR EQUIVALENT RECOMMENDED.
- TRAINED TECHNICIAN WITH MEANS TO MEASURE PRE-LOAD ACHIEVED WITHIN ±10% REQUIRED.
- IF CARBON STEEL FASTENERS USED, PROTECTIVE COATING REQUIRED TO PREVENT CORROSION.
- ALL DIMENSIONS IN: mm AND DIMENSIONS IN BRACKETS: [Inches].



VIEW OF VIBRATION MOUNT



VIEW B

PART/ASSEMBLY No: 0400-AT-1000-16	MASS: SEE SHEET 2	TOTAL QTY / GYRO: 1

VEEM MARINE
PROPELLERS AND GYROSTABILIZERS

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TOLERANCES IN ACCORDANCE WITH -

MACHINE SURFACES 3.2/ UON

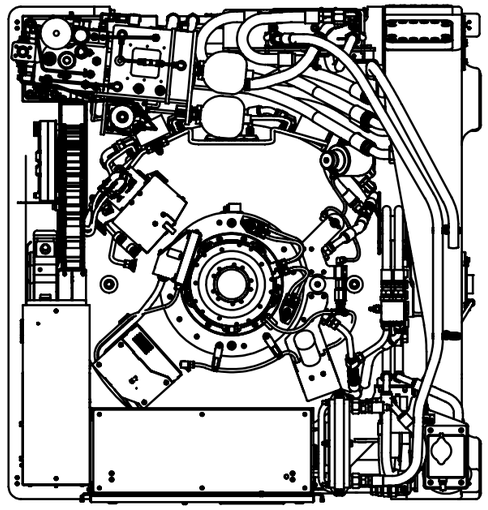
DEBURR ALL SHARP EDGES

DESCRIPTION: MOUNTING INTERFACE

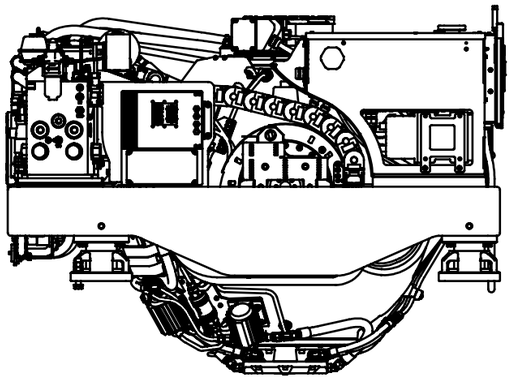
DRG No: 0400-DT-1000 | REV: 16

MATERIAL: - | PROCESS: ASSEMBLY

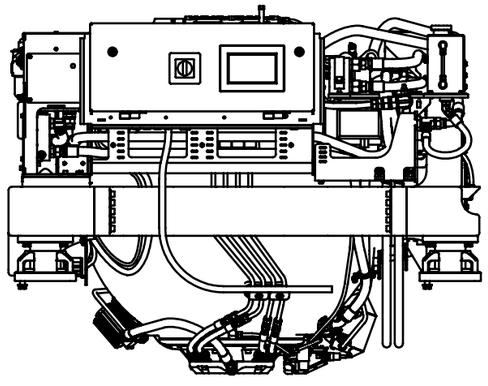
SHEET: 07 OF 11 | SCALE: 1:5 | SHEET SIZE: A3



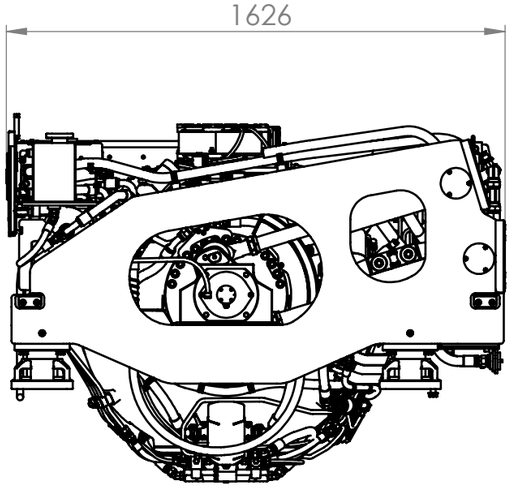
TOP PANEL VIEW



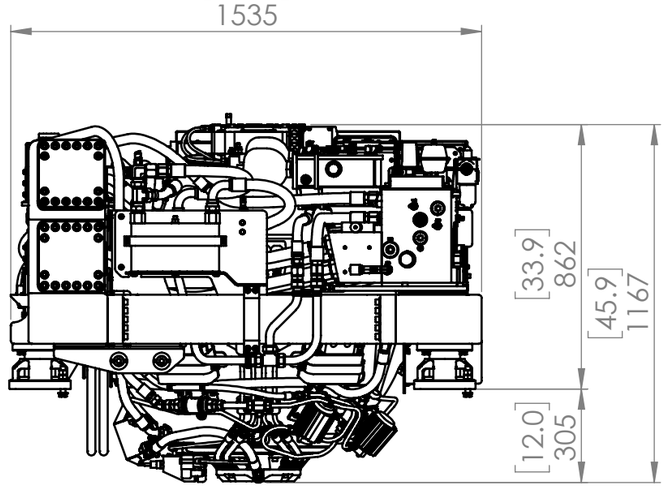
LEFT PANEL VIEW



FRONT PANEL VIEW



RIGHT PANEL VIEW



REAR PANEL VIEW

ELEVATIONS WITH ENCLOSURE REMOVED

NOTES:

- ALL DIMENSIONS IN: mm AND DIMENSIONS IN BRACKETS: [Inches].
- ENCLOSURE PANELS REQUIRED TO PROTECT PERSONNEL FROM INJURY.
- SEE OPERATING MANUAL FOR NOTES ON REMOVING ENCLOSURE PANELS AT OWNERS RISK.

VEEM MARINE
PROPELLERS AND GYROSTABILIZERS

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DRAFTING TO AS 1100.101 AND 1100.201

TOLERANCES IN ACCORDANCE WITH -

MACHINE SURFACES 3.2 UON

DEBURR ALL SHARP EDGES

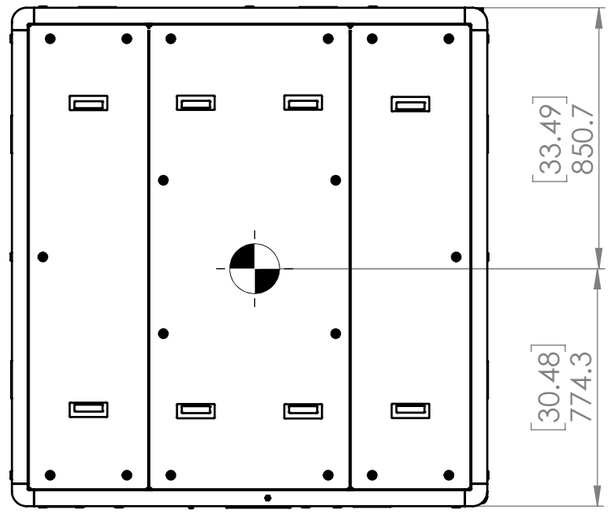
PART/ASSEMBLY No	MASS	TOTAL QTY / GYRO
0400-AT-1000-16	SEE SHEET 2	1

DESCRIPTION: ELEVATIONS WITHOUT ENCLOSURE

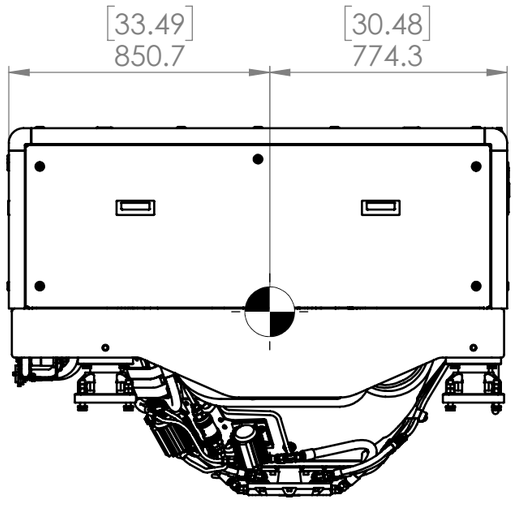
DRG No: 0400-DT-1000 | REV: 16

MATERIAL: - | PROCESS: ASSEMBLY

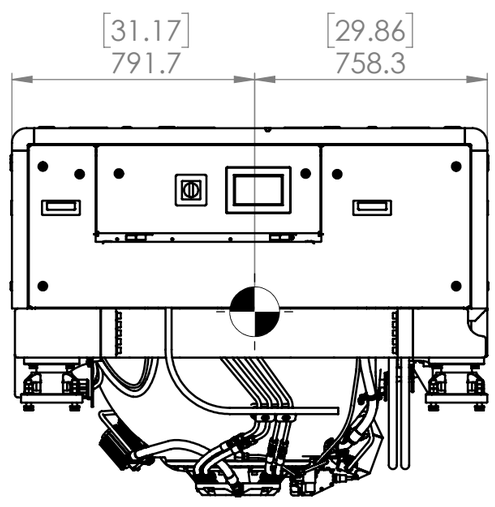
SHEET: 08 OF 11 | SCALE: 1:20 | SHEET SIZE: A3



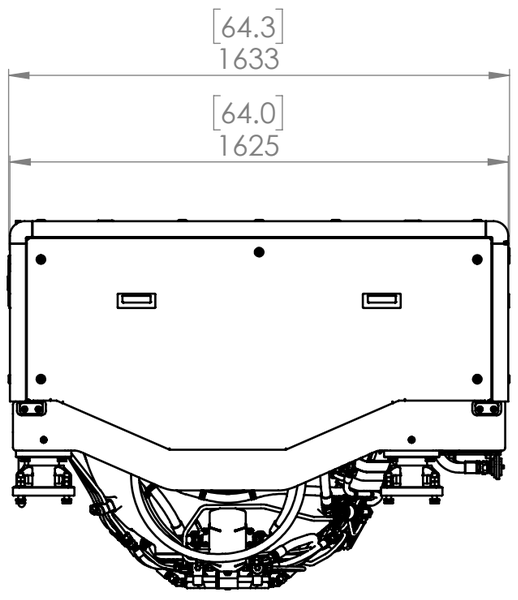
TOP PANEL VIEW



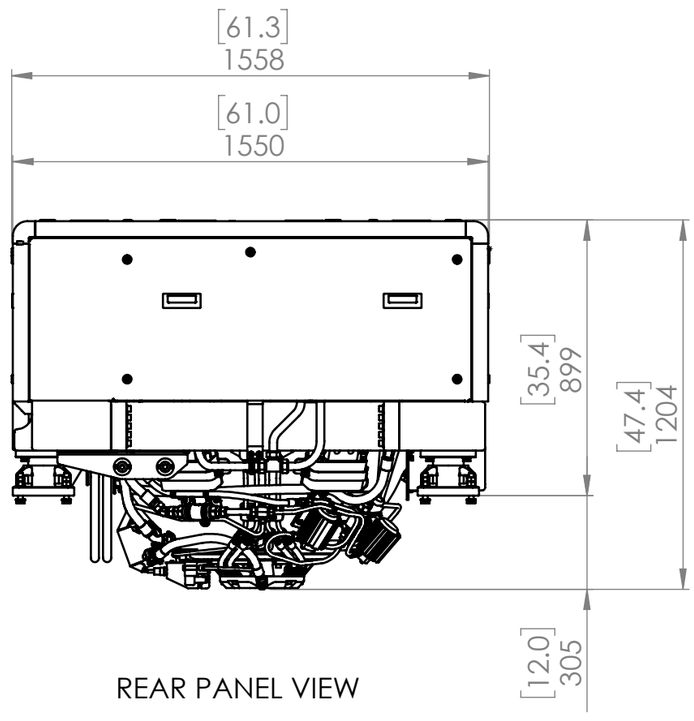
LEFT PANEL VIEW



FRONT PANEL VIEW



RIGHT PANEL VIEW



REAR PANEL VIEW

ELEVATIONS WITH ENCLOSURE INSTALLED

NOTE:

- -⊕- LOCATION OF CENTER OF GRAVITY.
- ALL DIMENSIONS IN: mm AND DIMENSIONS IN BRACKETS: [Inches]

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TOLERANCES IN ACCORDANCE WITH -

MACHINE SURFACES 3.2 UON

DEBURR ALL SHARP EDGES

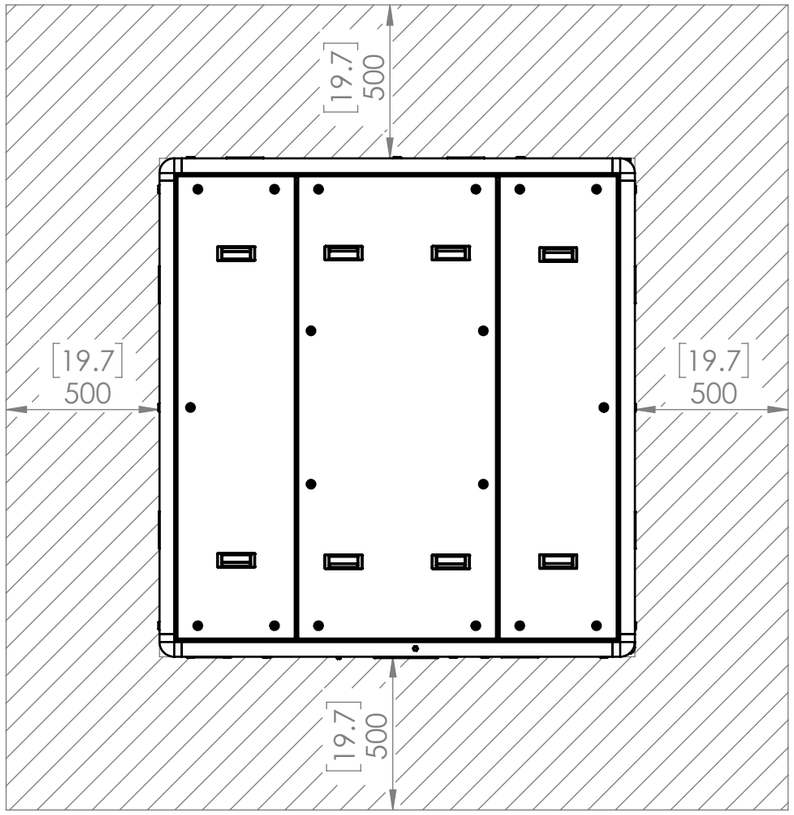
PART/ASSEMBLY No	MASS	TOTAL QTY / GYRO
0400-AT-1000-16	SEE SHEET 2	1

DESCRIPTION: ELEVATIONS WITH ENCLOSURE

DRG No: 0400-DT-1000 | REV: 16

MATERIAL: - | PROCESS: ASSEMBLY

SHEET: 09 OF 11 | SCALE: 1:20 | SHEET SIZE: A3



TOP VIEW

FRONT PANEL VIEW

REFER TO SECTION B-B
SHEET 5

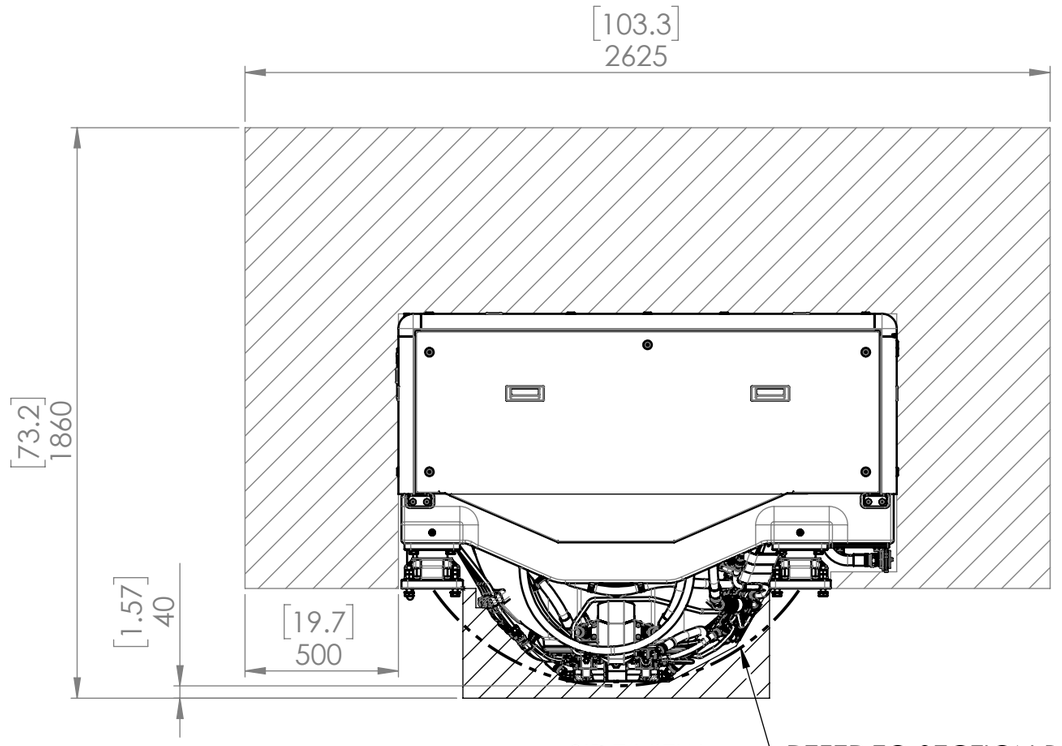
NOTES:

- ACCESS TO NUTS UNDER VIBRATION MOUNTS IS REQUIRED EXCEPT WHERE BONDED SADDLE IS USED, REFER TO SHEETS 5 & 7
- ALL DIMENSIONS IN: mm AND DIMENSIONS IN BRACKETS: [Inches]

IMPORTANT:

IF THE MINIMUM MAINTENANCE ENVELOPE
IS NOT PROVIDED, SOME MAINTENANCE AND OVER-HAUL ACTIVITIES
MAY NOT BE POSSIBLE TO COMPLETE WITHOUT REMOVING
THE GYRO FROM THE VESSEL.

REFER TO THE WARRANTY STATEMENT



SIDE VIEW

REFER TO SECTION B-B
SHEET 5

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TOLERANCES IN ACCORDANCE WITH -

MACHINE SURFACES 3.2 UON

DEBURR ALL SHARP EDGES

PART/ASSEMBLY No	MASS	TOTAL QTY / GYRO
0400-AT-1000-16	SEE SHEET 2	1

DESCRIPTION: MINIMUM SERVICE ACCESS SPACE

DRG No: 0400-DT-1000 | REV: 16

MATERIAL: - | PROCESS: ASSEMBLY

SHEET: 10 OF 11 | SCALE: 1:20 | SHEET SIZE: A3

VEEM OPTIONAL SUPPLY ITEMS (NOT INCLUDED ON STANDARD SUPPLY SCOPE)

REMOTE HMI (TOUCH SCREEN) REFER DRAWING 0001-DT-2201

WATERTIGHT INLINE CONNECTOR-RJ45 VEEM #GE00157

CAT 6 ETHERNET CABLE x 5 m (RJ45 x M12) VEEM #GE00088

CUSTOMER/VESSEL - SUPPLIED ITEMS (NOT SUPPLIED WITH GYRO)

VEEM GYRO

1 x 16mm^2 (min) → M10 SS STUD

X6.3 → (M12 - 4 PIN ETHERNET, POE) GYRO CONTROLLER

LAN/WAN VESSEL NETWORK, GLASS BRIDGE, TELEMETRY → 10/100 ETHERNET CONNECTION (3) CAT 6 ETHERNET CABLE → MODBUS A - RJ45

ALARM SYSTEM (OPTIONAL) → 2 x 0.5 -1mm^2 → X6.8 (3, 4) VOLTAGE FREE CONTACT 24 VDC 0.5 A MAX (2)

AC PUMP SUPPLY

COOLING WATER SUPPLY CONTROL → 2 x 0.5 -1mm^2 → X6.8 (1, 2) VOLTAGE FREE CONTACT 24 VDC 0.5 A MAX (2)

24V DC (5) DC DIST PANEL (1) → 56A MIN → FUSES AND / OR CIRCUIT BREAKER 56A MIN RATING → 2C RATED ABOVE FUSE/CB → Q1 (Q1+, Q1-) CABLE GLAND TO TERMINALS

AC DIST PANEL (1) → 400-460VAC 3∅ 50/60Hz → FUSES AND / OR CIRCUIT BREAKER 50A MIN RATING → 4G (3C+E) RATE ABOVE FUSE/CB → Q1-L1, Q1-L2, Q1-L3 CABLE GLAND TO TERMINALS; PE (TO EARTH BAR)

COOLING WATER SUPPLY (4) → 1" BSPP FEMALE

SEA WATER SUPPLY AND RETURN HOSE/PIPE DIAMETERS TO BE CALCULATED BY CUSTOMER REPRESENTATIVE USING SOUND HYDRODYNAMIC PRINCIPLES FOR 75 LPM (1 INCH MINIMUM RECOMMENDED FOR MOST CIRCUMSTANCES)

COOLING WATER RETURN → 1" BSPP FEMALE

THREE PHASE SUPPLY

(1) CABLES AND CONNECTIONS TO BE SUPPLIED BY THE CUSTOMER UNLESS NOTED OTHERWISE
(2) MATING CONNECTOR SUPPLIED BY VEEM (DEUTSCH DT4)
(3) 10/100 ETHERNET CONNECTION REQUIRED TO RJ45 UNDER ELECTRICAL CABINET (REFER WARRANTY STATEMENT)
(4) FILTRATION. REFER TO INSTALLATION MANUAL (IM-00004).
(5) 24V DC SUPPLY TO BE UNINTERRUPTED FOR 60 MINUTES IN CASE OF LOSS OF MAIN POWER

VEEM PROPELLERS AND GYROSTABILIZERS MARINE

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DEBURR ALL SHARP EDGES

PART/ASSEMBLY No	MASS	TOTAL QTY / GYRO
	SEE SHEET 2	1

DESCRIPTION: INTERFACE DIAGRAM (SCOPE OF SUPPLY)
DRG No: 0400-DT-1000
REV: 16
MATERIAL:
PROCESS: MACHINING
SHEET: 11 OF 11
SCALE: 1:10
SHEET SIZE: A3