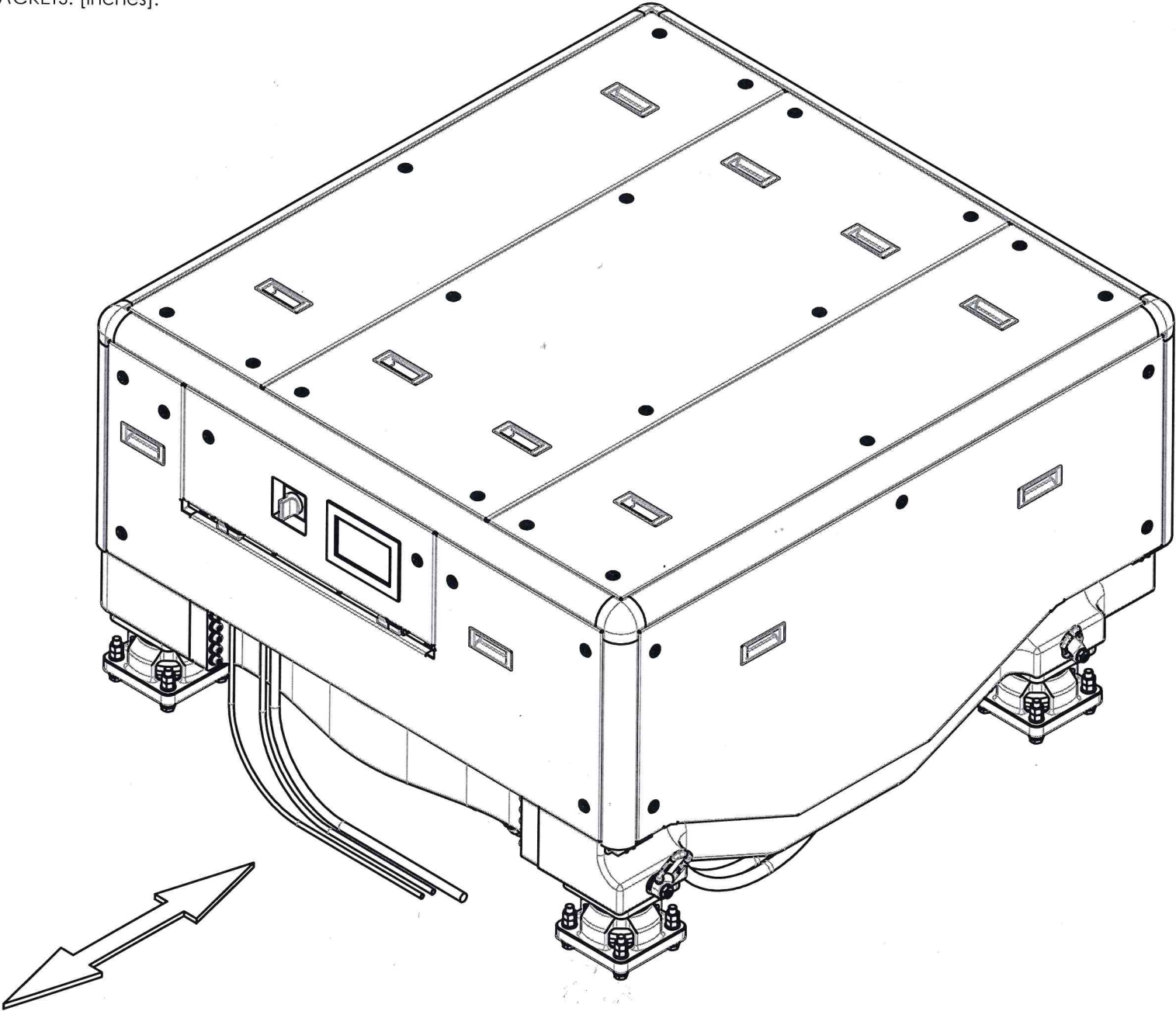


NOTES:

- 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

12	ISSUED FOR PRODUCTION	K.SH	<i>Ksh</i>	02.09.21	JW	<i>JW</i>	03/09/21	PS	<i>PS</i>	2/9/21	JM	<i>JM</i>	3/9/21	DF	<i>DF</i>	3/9/21
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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MARINE

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

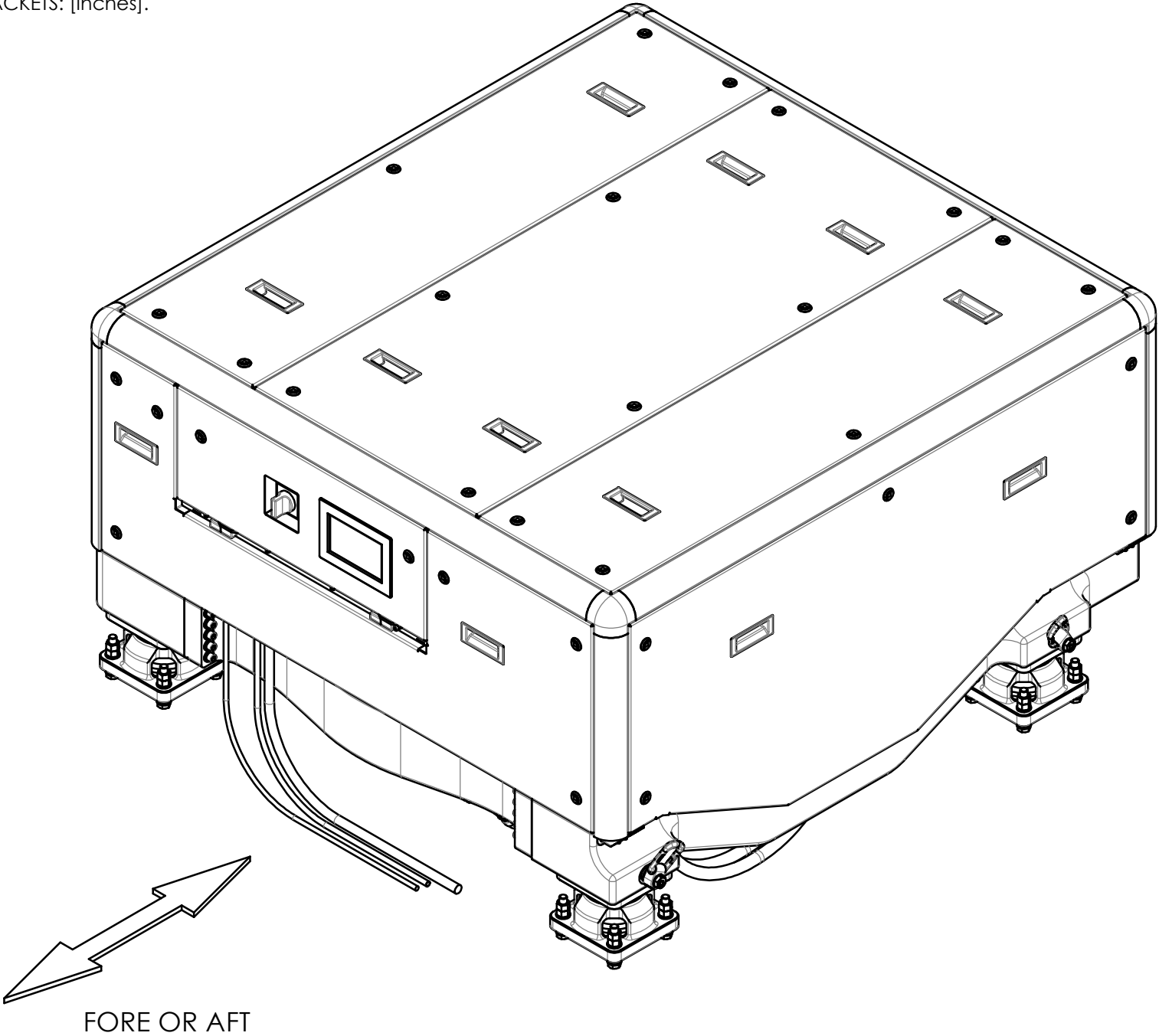
VG52SD & VG70SD		
PART/ASSEMBLY No 0400-AM-1000-6 INSTALL	MASS SEE SHEET 2	TOTAL QTY / GYRO 1
DESCRIPTION INSTALLATION DRAWING		
DRG No 0400-DT-1000.01		REV 12
MATERIAL SEE BOM		PROCESS MACHINING
SHEET 01 OF 12	SCALE 1:12	SHEET SIZE A3

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.



ISOMETRIC VIEW

12	ISSUED FOR PRODUCTION	K.SH			JW			PS			JM			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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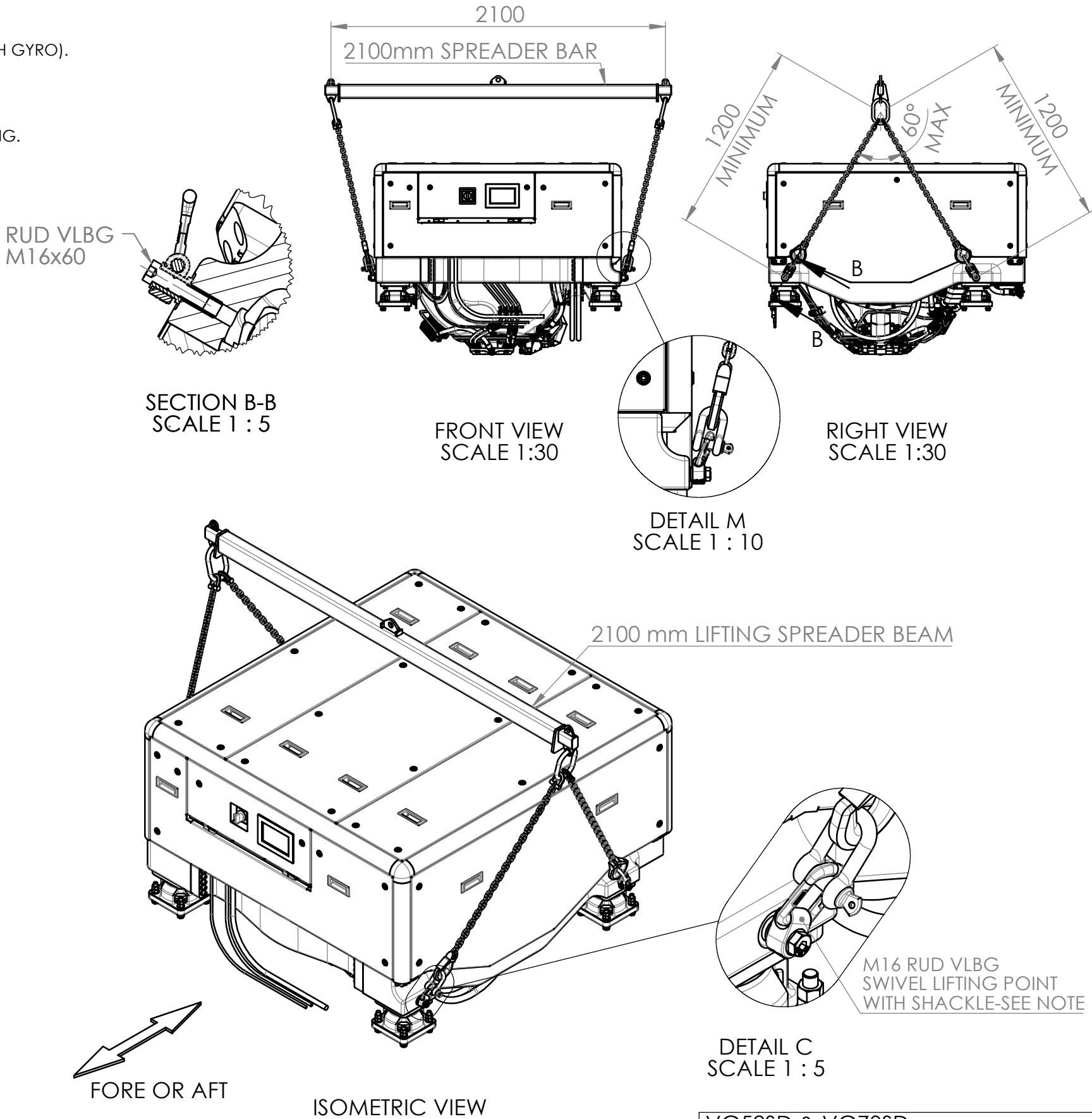
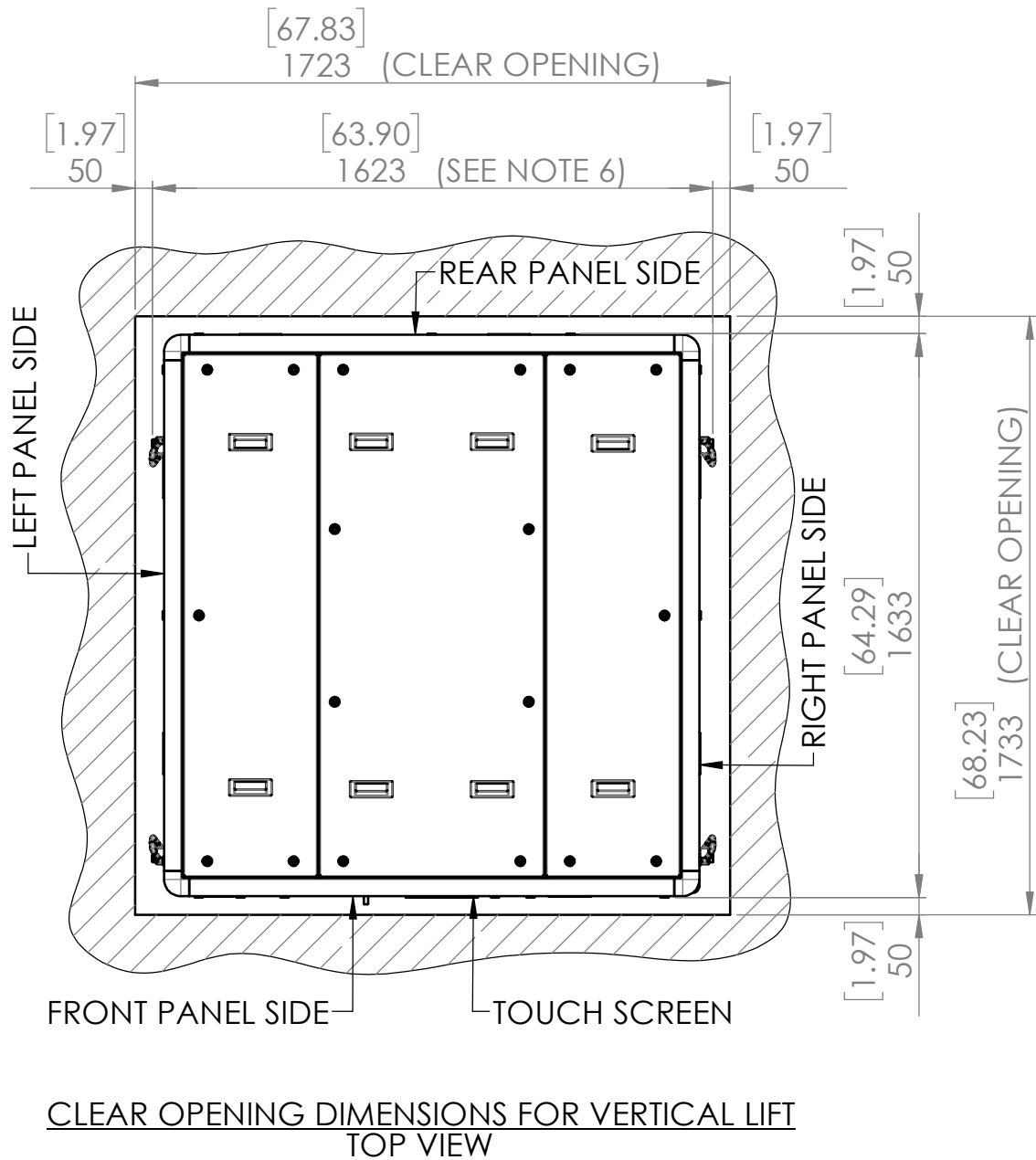
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VG52SD & VG70SD		
PART/ASSEMBLY No 0400-AM-1000-6 INSTALL	MASS SEE SHEET 2	TOTAL QTY / GYRO 1
DESCRIPTION INSTALLATION DRAWING		REV 12
DRG No 0400-DT-1000.01		
MATERIAL SEE BOM		PROCESS MACHINING
SHEET 01 OF 12	SCALE 1:12	SHEET SIZE A3

NOTES:

- 1. 4 x M16 RUD VLBG SWIVEL LIFTING POINT OR EQUIVALENT TO BE USED FOR LIFTING (NOT SUPPLIED WITH GYRO).
- 2. MAXIMUM SLING ANGLE 60°. SPREADER BAR 2100 mm LONG TO BE USED.
- 3. ENSURE RIGGING DOES NOT CONTACT GYRO ENCLOSURE OR DAMAGE MAY RESULT.
- 4. LIFTING RIGGING IS NOT INCLUDED IN GYRO STANDARD SCOPE OF SUPPLY.
- 5. ENSURE DIMENSIONS OF RIGGING INCLUDED IN DESIGN OF INSTALLATION SOFT PATCH CLEAR OPENING.
- 6. FOR DEEP LIFTS, CONSIDER SPREADER BAR WHEN DESIGNING DECK OPENING.
- 7. ALL DIMENSIONS IN: mm AND DIMENSIONS IN BRACKETS: [Inches].



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



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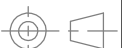
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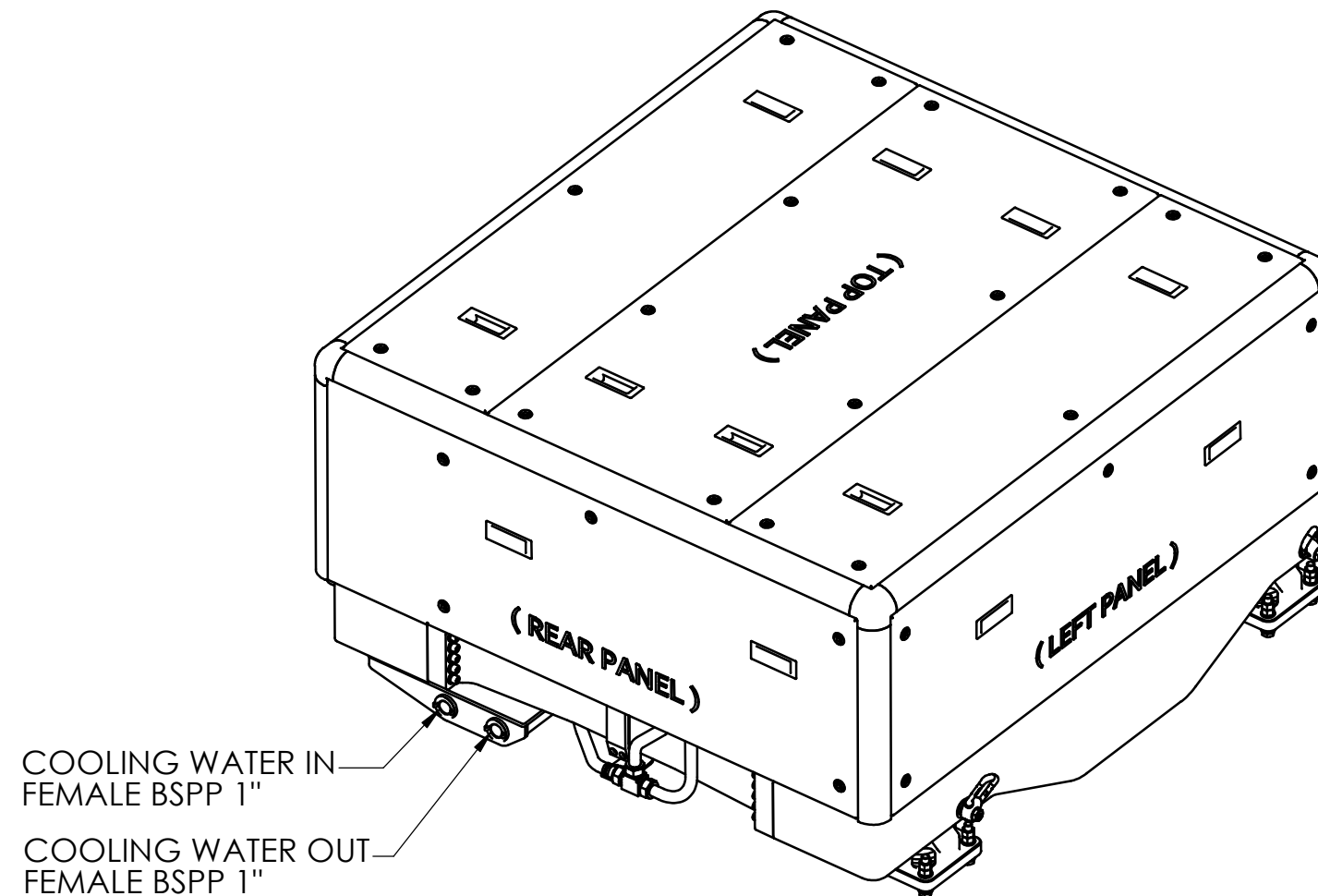
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TOLERANCES
IN ACCORDANCE WITH
-

MACHINE SURFACES
-

DEBURR ALL SHARP EDGES


VG52SD & VG70SD			
PART/ASSEMBLY No		MASS	TOTAL QTY / GYRO
0400-AM-1000-6 INSTALL		SEE TABLE	1
DESCRIPTION			
LIFTING DRAWING			
DRG No			REV
0400-DT-1000.02			12
MATERIAL		PROCESS	
SEE BOM		ASSEMBLY	
SHEET	SCALE		SHEET SIZE
02 OF 12	1:20		A3



COOLING WATER TEMP °C [°F]	FLOW RATE (LITRES/min)	PRESSURE DROP (bar)	DISCHARGE TEMP °C [°F]
<22	30	0.3	41
22 - 27	40	0.5	41
27 - 32	50	0.75	43
32 - 35	60	1.0	45
35 - 38	75	1.5	46
DATA FOR MAX LOADING CONDITIONS AND AT 55°C AIR			
COOLING WATER HEAT LOAD 43kW MAXIMUM. 29Kw TYPICAL MINIMUM TEMP 12°C. MINIMUM FLOW RATE 10L/min.			

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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VG52SD & VG70SD

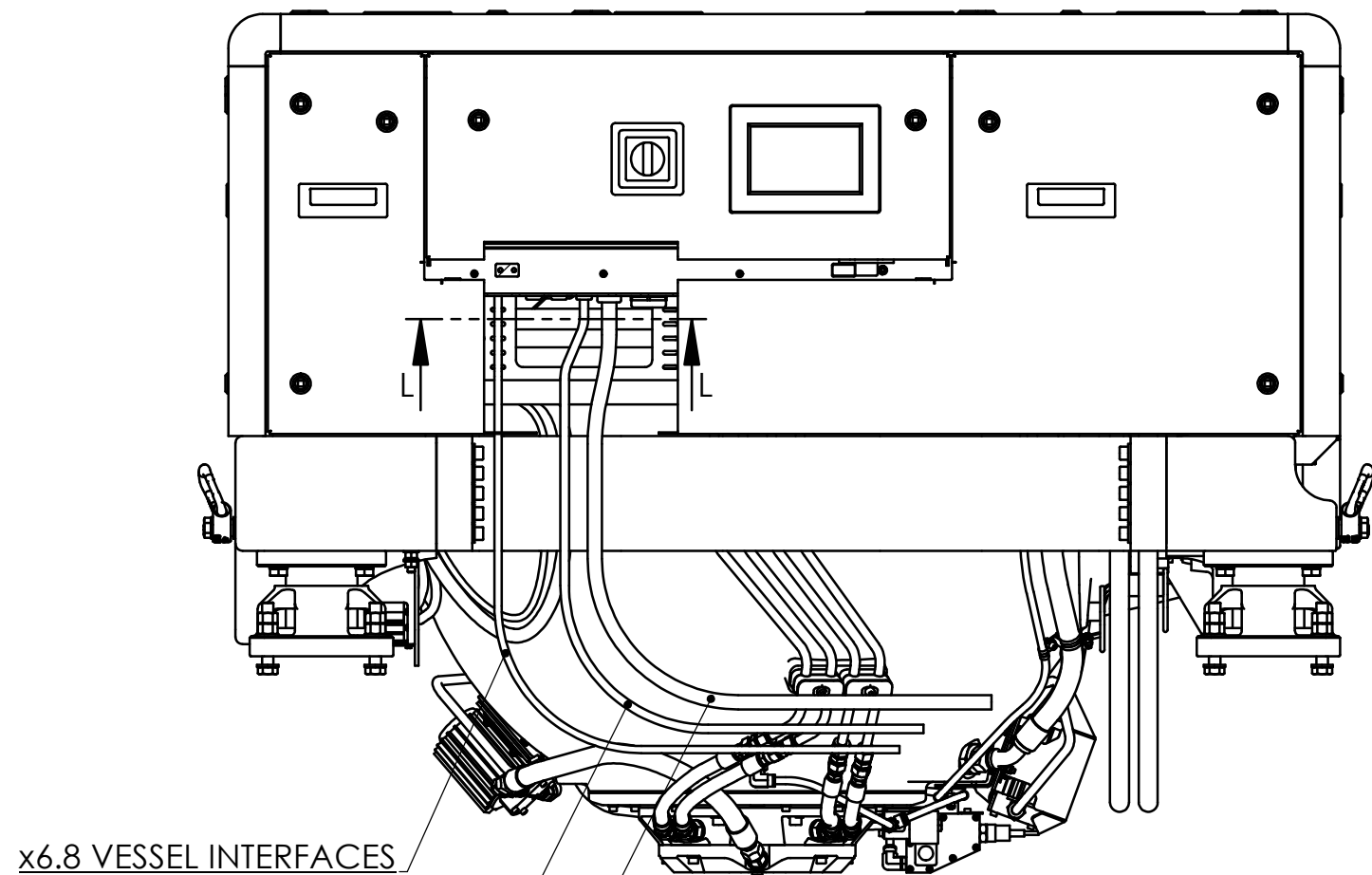
PART/ASSEMBLY No 0400-AM-1000-6 INSTALL	MASS SEE SHEET 2	TOTAL QTY / GYRO 1
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DESCRIPTION
COOLING INTERFACE CONNECTIONS

DRG No 0400-DT-1000.03	REV 12
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MATERIAL SEE BOM	PROCESS ASSEMBLY
SHEET 03 OF 12	SCALE -

	SHEET SIZE A3
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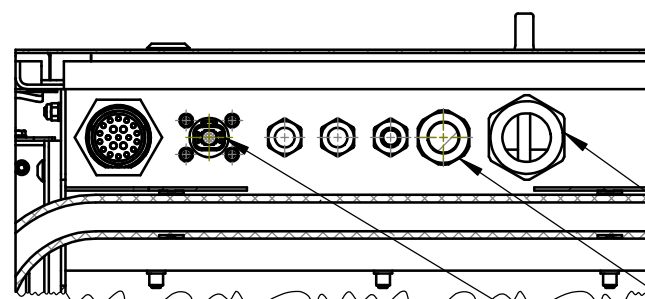


x6.8 VESSEL INTERFACES
4 - PIN DEUTSCH

24 VDC CABLE CONNECTION
(MAX. GLAND DIA. 15 mm)

AC POWER ELECTRICAL CABLE
(MAX. GLAND DIA. 20 mm)

FRONT PANEL VIEW



SECTION L-L
SCALE 1 : 5

AC POWER ELECTRICAL CABLE
(MAX. GLAND DIA. 20 mm)

24 VDC CABLE CONNECTION
(MAX. GLAND DIA. 15 mm)

x6.8 VESSEL INTERFACES
4 - PIN DEUTSCH

POWER SUPPLY REQUIREMENTS

THREE PHASE SUPPLY (3Ø) 50/60Hz

VOLTAGE:		400V**	415V	440V	480V
PHASE CURRENT: BEARINGS RUN-IN	21 kVA	30.0 Arms	29.4 Arms	28.6 Arms	26.1 Arms
PHASE CURRENT: NEW BEARINGS ***	32 kVA	46 Arms	45 Arms	43 Arms	40 Arms

NOTES:
PHASE CURRENTS BASED ON PF OF 0.80, ACTUAL PF DEPENDS ON THE VESSEL POWER DISTRIBUTION DESIGN. TYPICAL PF AT FACTORY IS 0.92.
MOTOR DRIVE EFFICIENCY OF 98% HAS BEEN CONSIDERED.

DC SUPPLY:
24V, 23A (MAX 18Ah UNINTERRUPTED SUPPLY OF 24V DC REQUIRED IN THE EVENT OF LOSS OF AC POWER)

ELECTRICAL & DATA CABLES TERMINATED THROUGH GLANDS IN CABINET, SEE SHEET 12

CABLING AND BREAKERS TO BE SIZED ACCORDING TO SHEET 12

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)".

VG52SD & VG70SD

PART/ASSEMBLY No 0400-AM-1000-6 INSTALL	MASS SEE SHEET 2	TOTAL QTY / GYRO 1
--	---------------------	-----------------------

DESCRIPTION
ELECTRICAL POWER CONNECTIONS

DRG No 0400-DT-1000.04	REV 12
---------------------------	-----------

MATERIAL
SEE BOM

PROCESS
ASSEMBLY

SHEET 04 OF 12	SCALE -	SHEET SIZE A3
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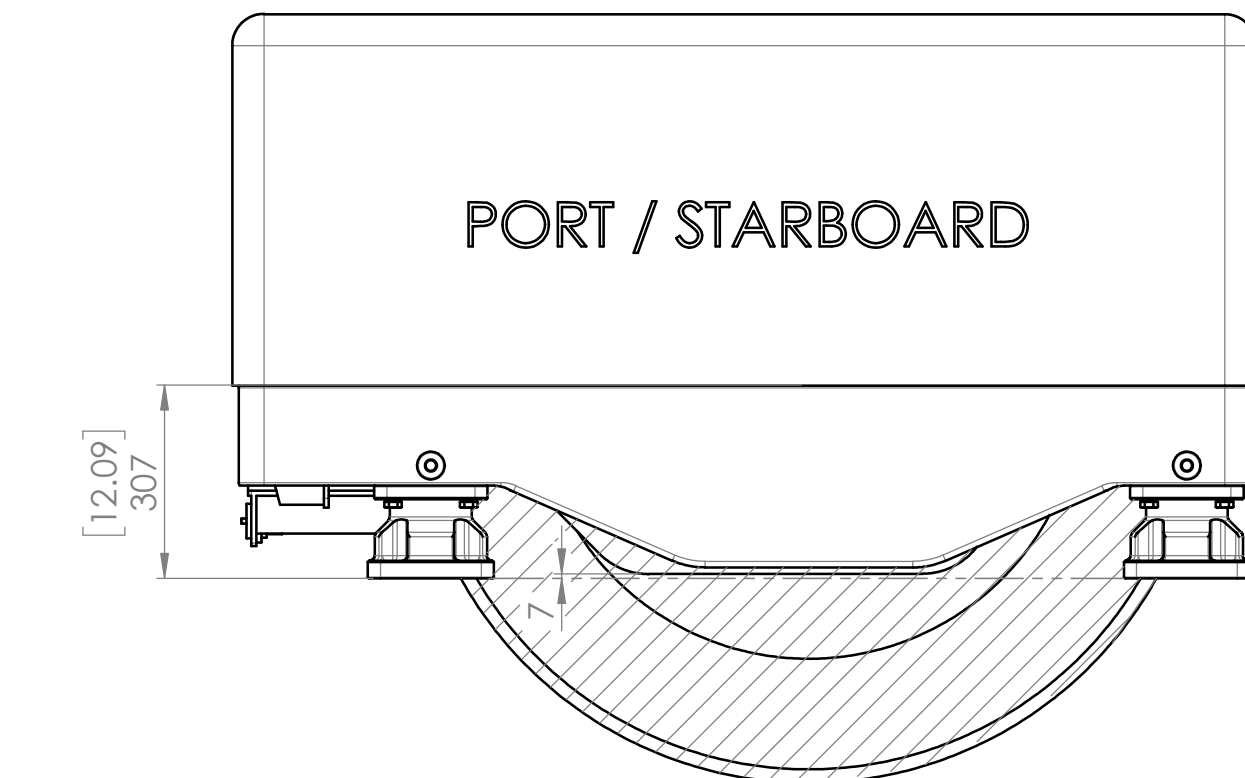
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TOLERANCES
IN ACCORDANCE WITH
-

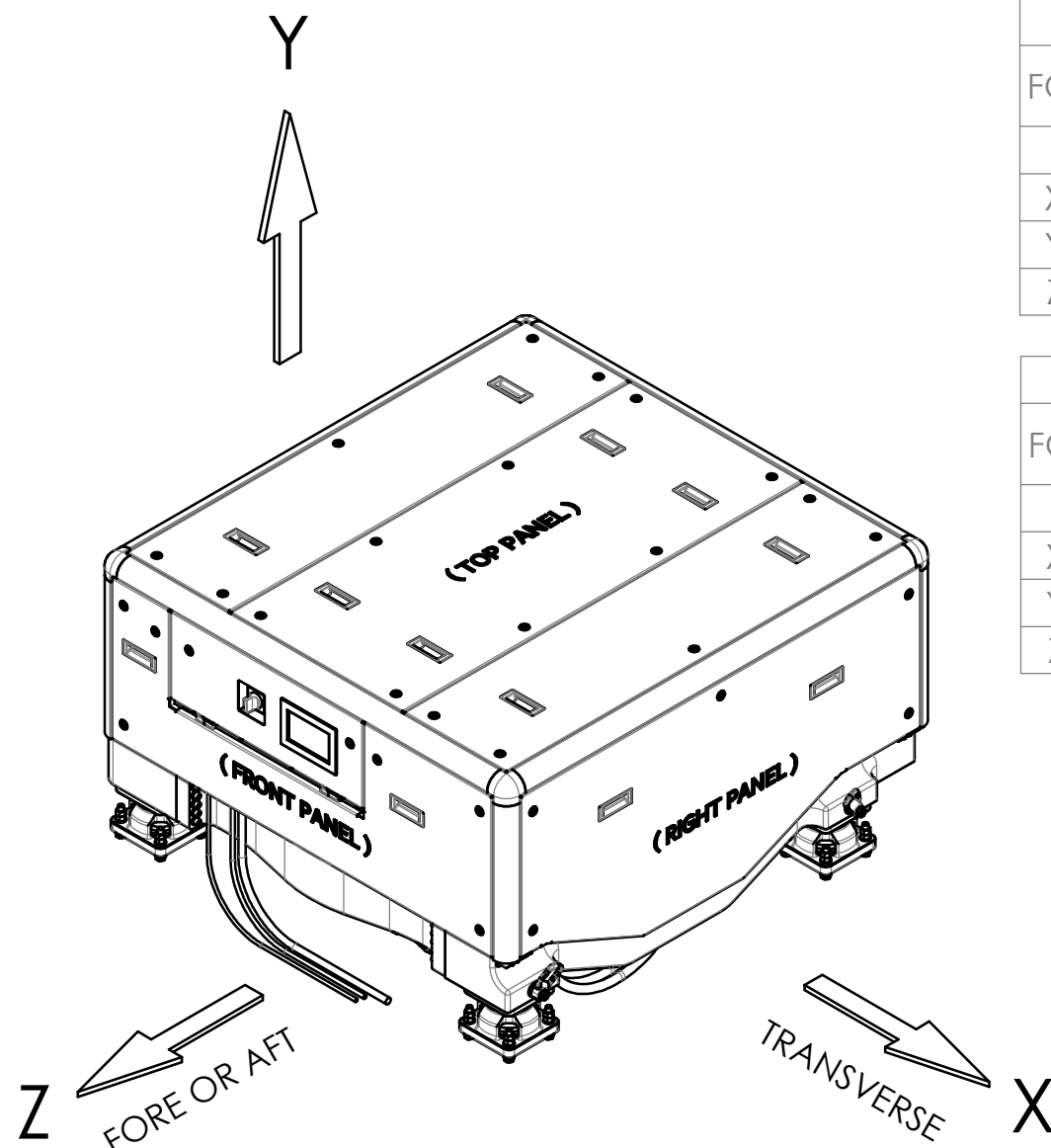
MACHINE SURFACES
-

DEBURR ALL SHARP EDGES

- 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.



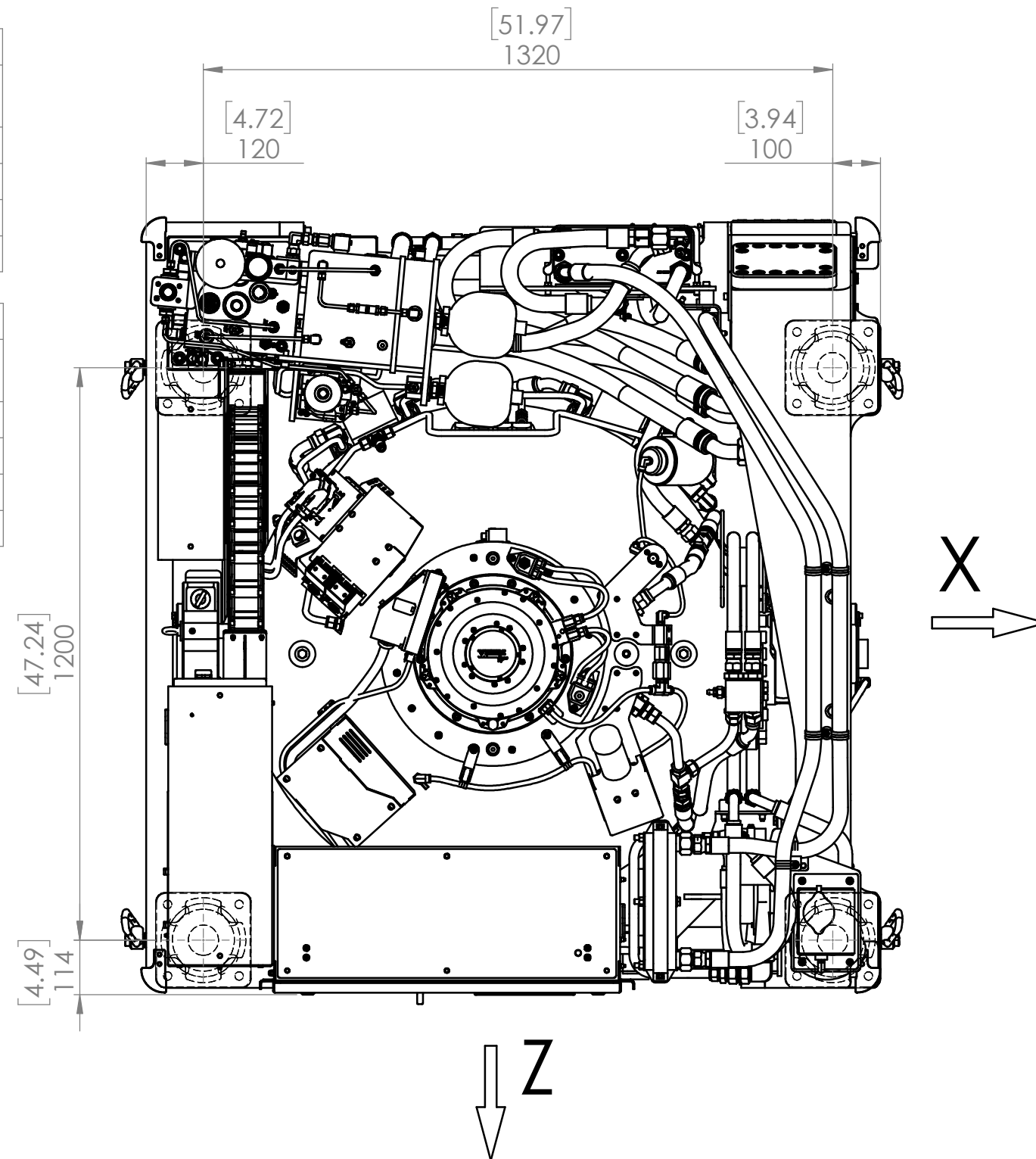
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	TOLERANCES IN ACCORDANCE WITH -	PART/ASSEMBLY No 0400-AM-1000-8		MASS SEE SHEET 2	TOTAL QTY / GYRO 1
	MACHINE SURFACES	DESCRIPTION SPACE REQUIREMENTS UNDER STABILISER			
	-	DRG No 0400-DT-1000.05			REV 12
	DEBURR ALL SHARP EDGES	MATERIAL SEE BOM		PROCESS ASSEMBLY	SHEET 05 OF 12
			SCALE 1:12	 	SHEET SIZE A3



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]



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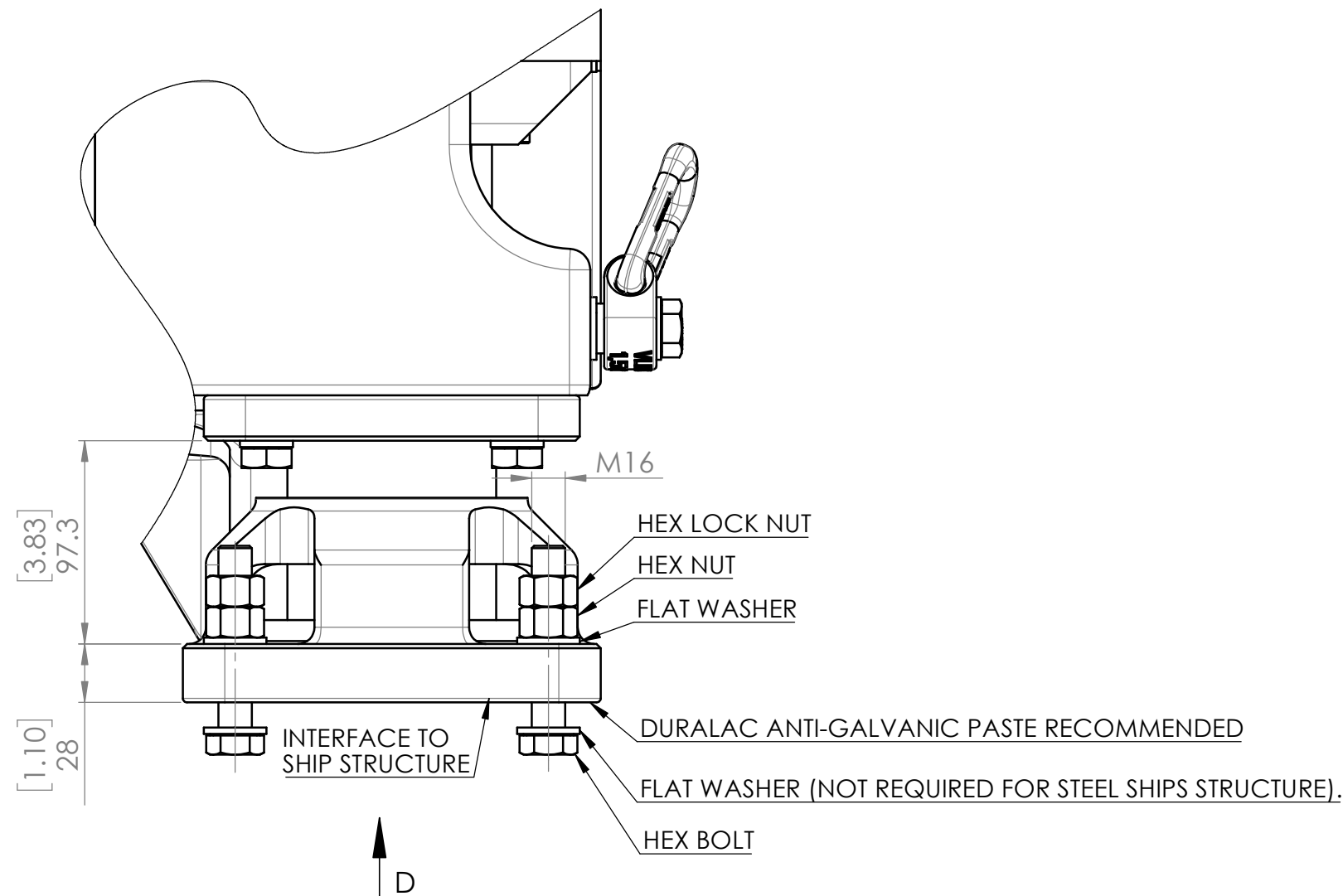
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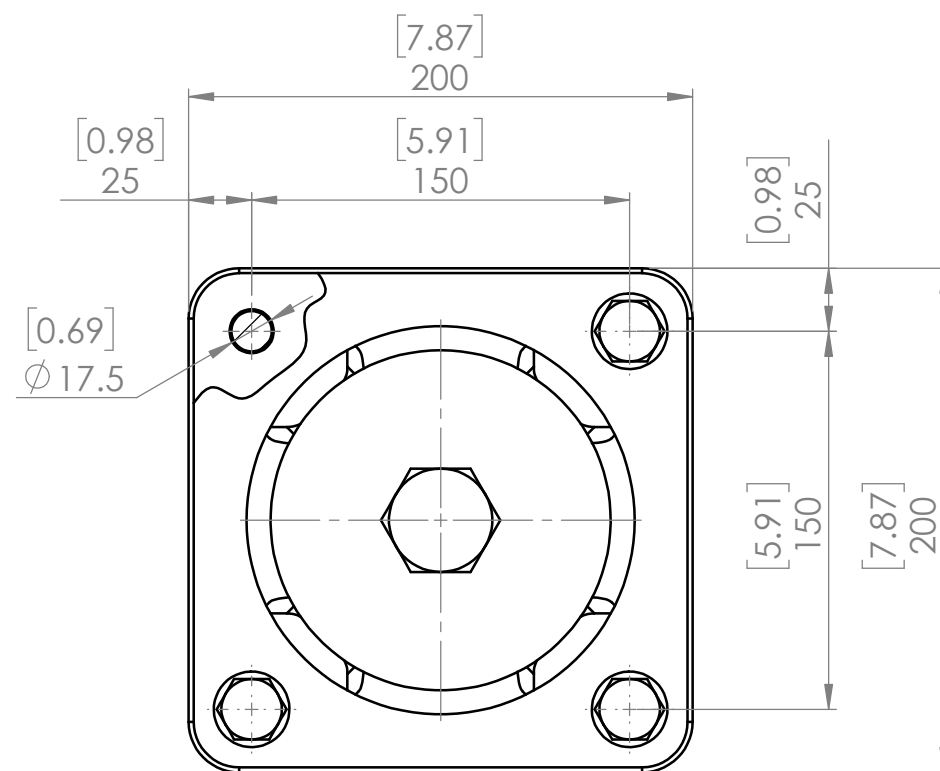
MACHINE SURFACES
-

DEBURR ALL SHARP EDGES

VG52SD & VG70SD			
PART/ASSEMBLY No 0400-AM-1000-6 INSTALL	MASS SEE SHEET 2	TOTAL QTY / GYRO 1	
DESCRIPTION FORCES ON MOUNTS		DRG No 0400-DT-1000.06	REV 12
MATERIAL SEE BOM		PROCESS ASSEMBLY	
SHEET 06 OF 12	SCALE -		SHEET SIZE A3



VIEW OF VIBRATION MOUNT



VIEW D

NOTES:

- MIN PRE-LOAD 65kN \pm 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 \pm 10% REQUIRED.
- IF CARBON STEEL FASTENERS USED, PROTECTIVE COATING REQUIRED TO PREVENT CORROSION.
- ALL DIMENSIONS IN: mm AND DIMENSIONS IN BRACKETS: [Inches].

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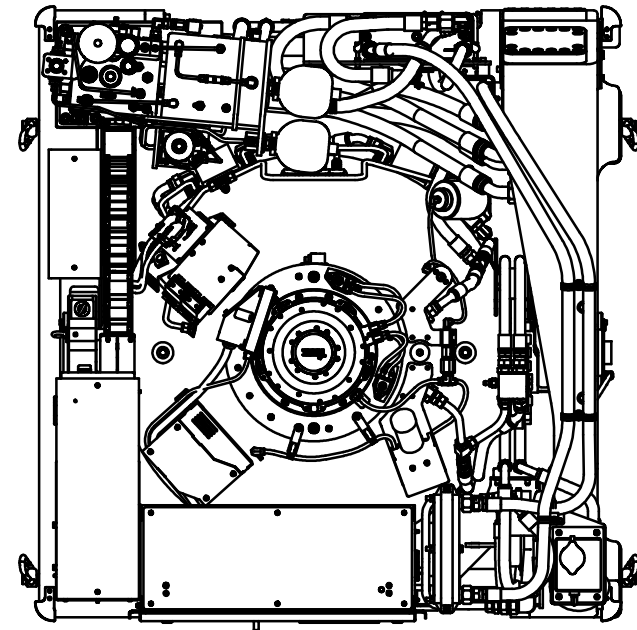
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IN ACCORDANCE WITH
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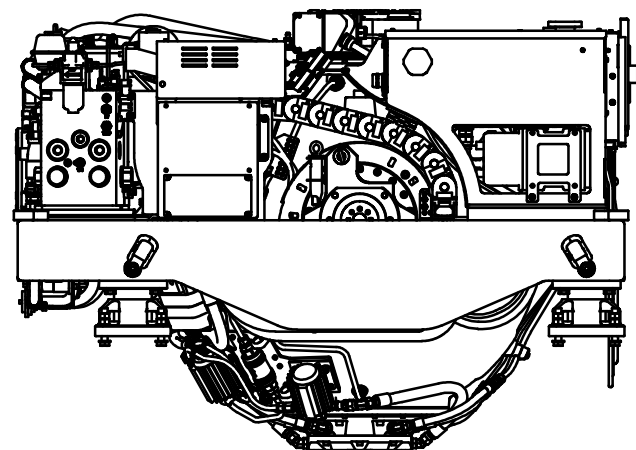
MACHINE SURFACES
-

DEBURR ALL SHARP EDGES

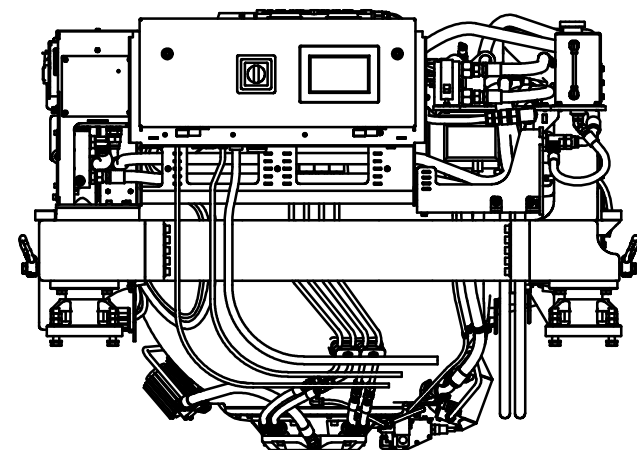
VG52SD & VG70SD			
PART/ASSEMBLY No 0400-AM-1000-6 INSTALL	MASS SEE SHEET 2	TOTAL QTY / GYRO 1	
DESCRIPTION MOUNTING INTERFACE		DRG No 0400-DT-1000.07	REV 12
MATERIAL SEE BOM		PROCESS ASSEMBLY	
SHEET 07 OF 12	SCALE -		SHEET SIZE A3



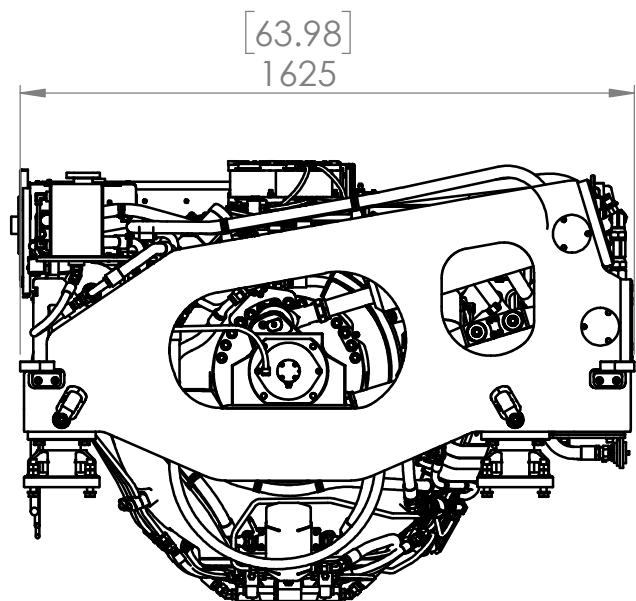
TOP VIEW



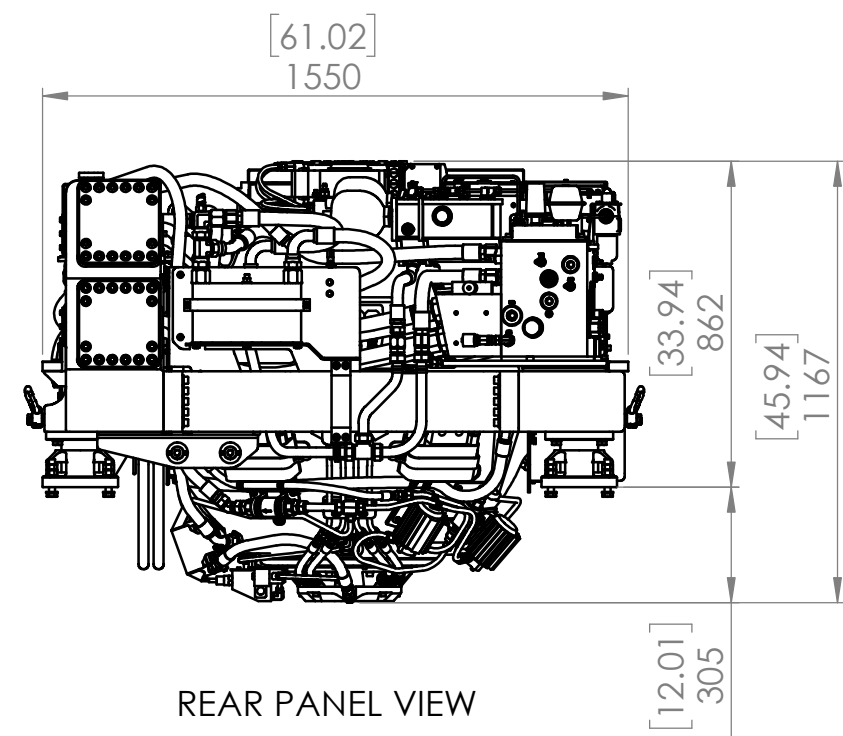
LEFT PANEL VIEW



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.



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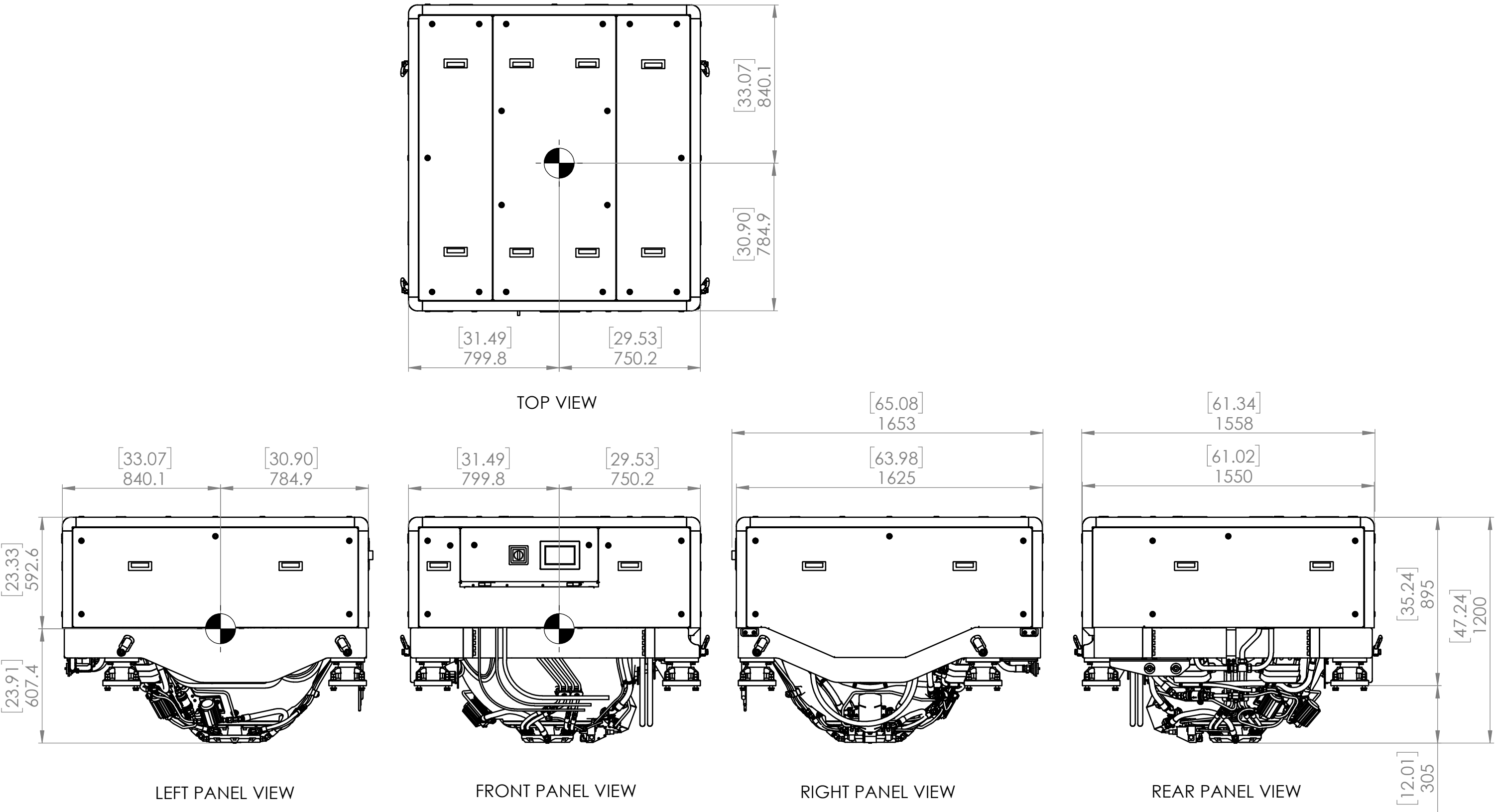
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TOLERANCES
IN ACCORDANCE WITH
-

MACHINE SURFACES
-

DEBURR ALL SHARP EDGES


VG52SD & VG70SD			
PART/ASSEMBLY No 0400-AM-1000-6 INSTALL		MASS SEE SHEET 2	TOTAL QTY / GYRO 1
DESCRIPTION ELEVATIONS WITHOUT ENCLOSURE			
DRG No 0400-DT-1000.08			REV 12
MATERIAL SEE BOM		PROCESS ASSEMBLY	
SHEET 08 OF 12	SCALE 1:20		SHEET SIZE A3



ELEVATIONS WITH ENCLOSURE INSTALLED

NOTE:

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



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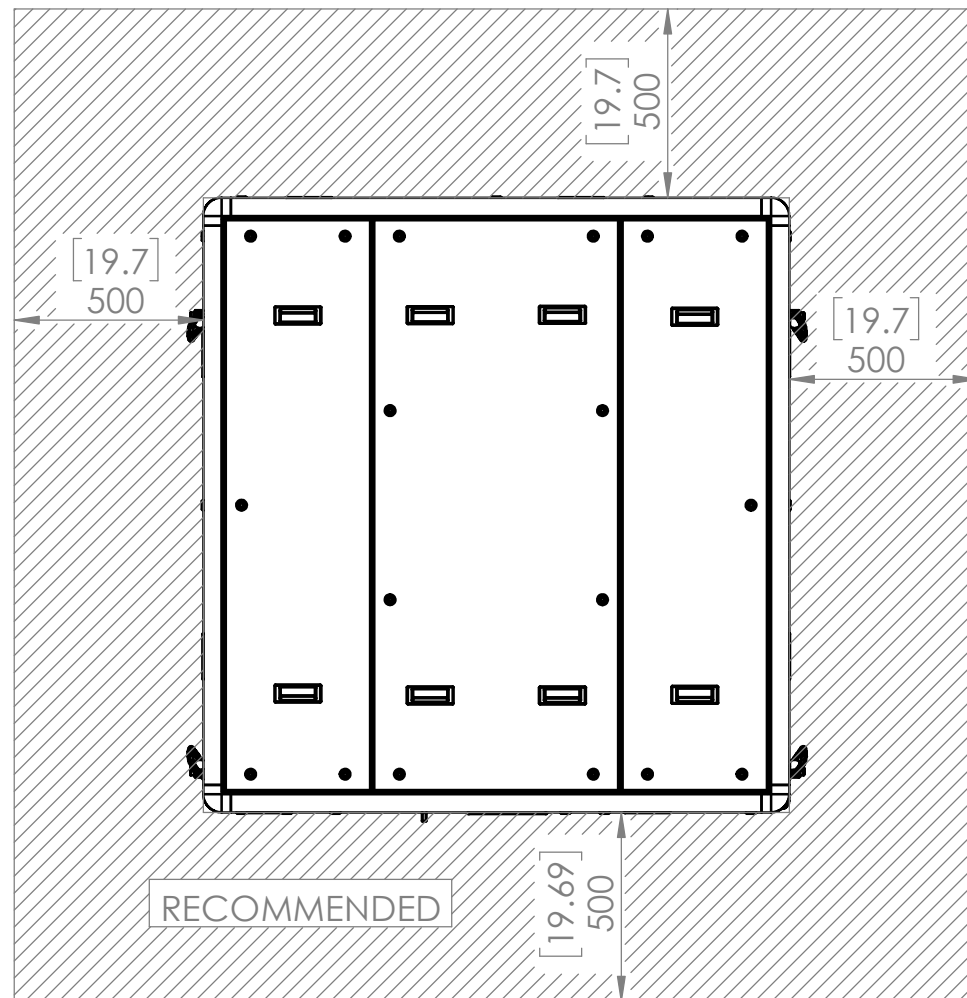
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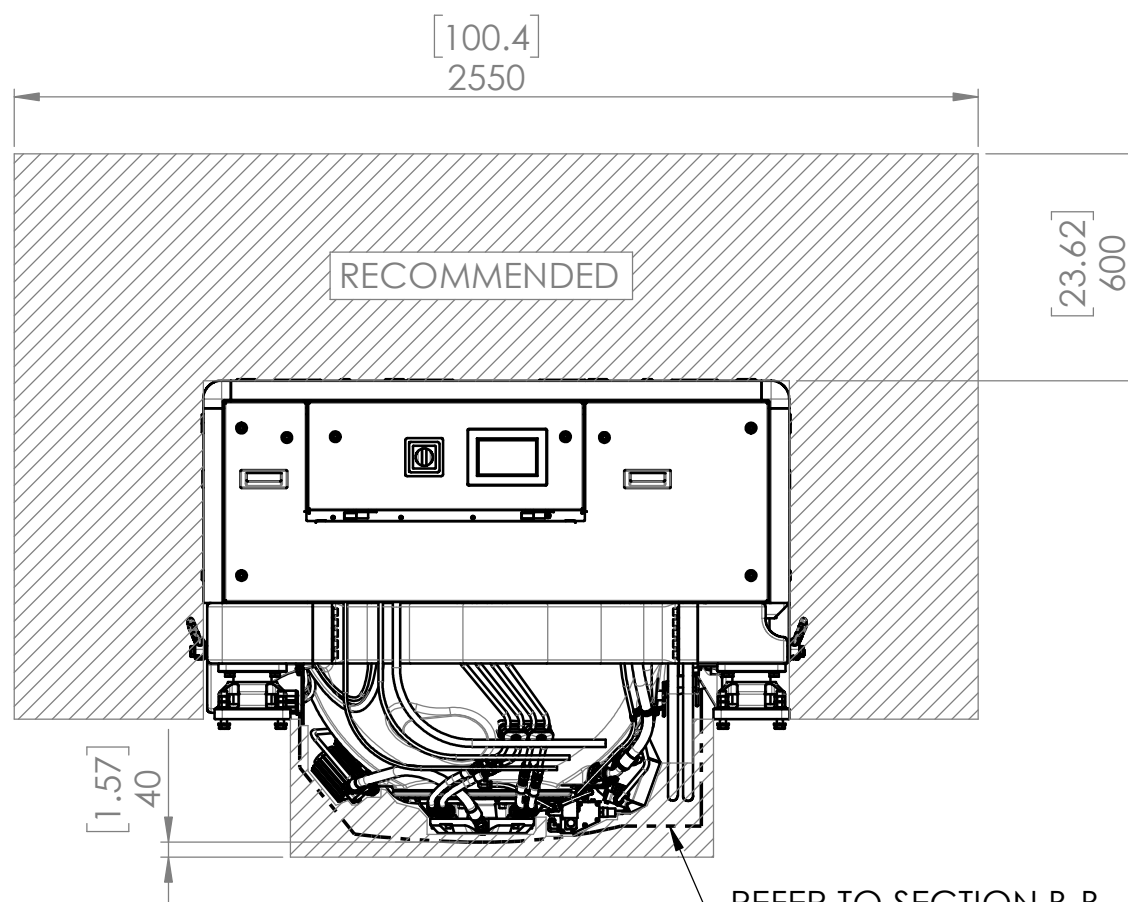
MACHINE SURFACES
-

DEBURR ALL SHARP EDGES

VG52SD & VG70SD			
PART/ASSEMBLY No		MASS	TOTAL QTY / GYRO
0400-AM-1000-6 INSTALL		SEE SHEET 2	1
DESCRIPTION			
ELEVATIONS WITH ENCLOSURE			
DRG No			REV
0400-DT-1000.09			12
MATERIAL		PROCESS	
SEE BOM		ASSEMBLY	
SHEET	SCALE		SHEET SIZE
09 OF 12	1:20		A3



TOP VIEW



FRONT PANEL VIEW

REFER TO SECTION B-B
SHEET 5

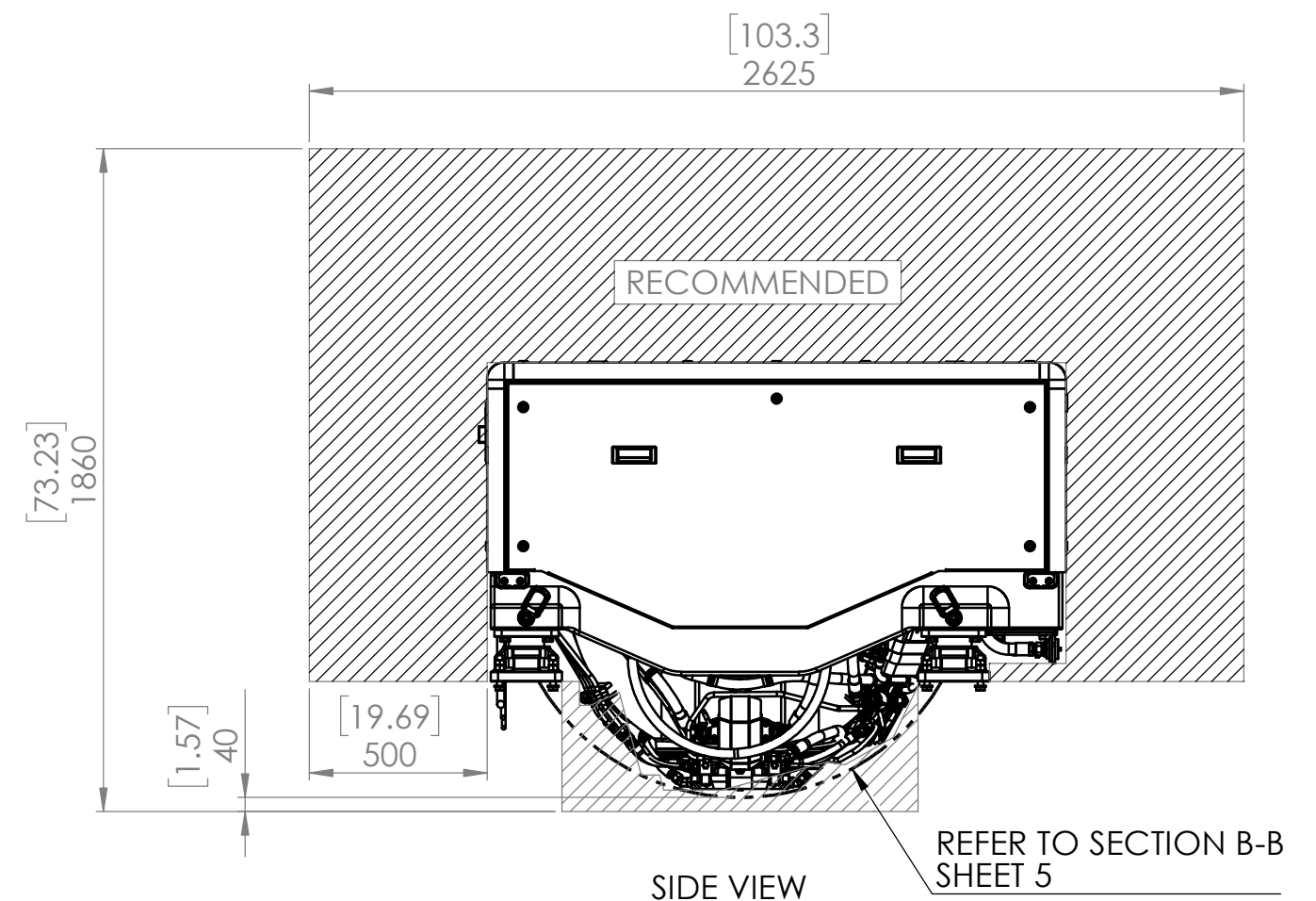
NOTES:

- 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

VEEM MARINE
PROPELLERS AND GYROSTABILIZERS

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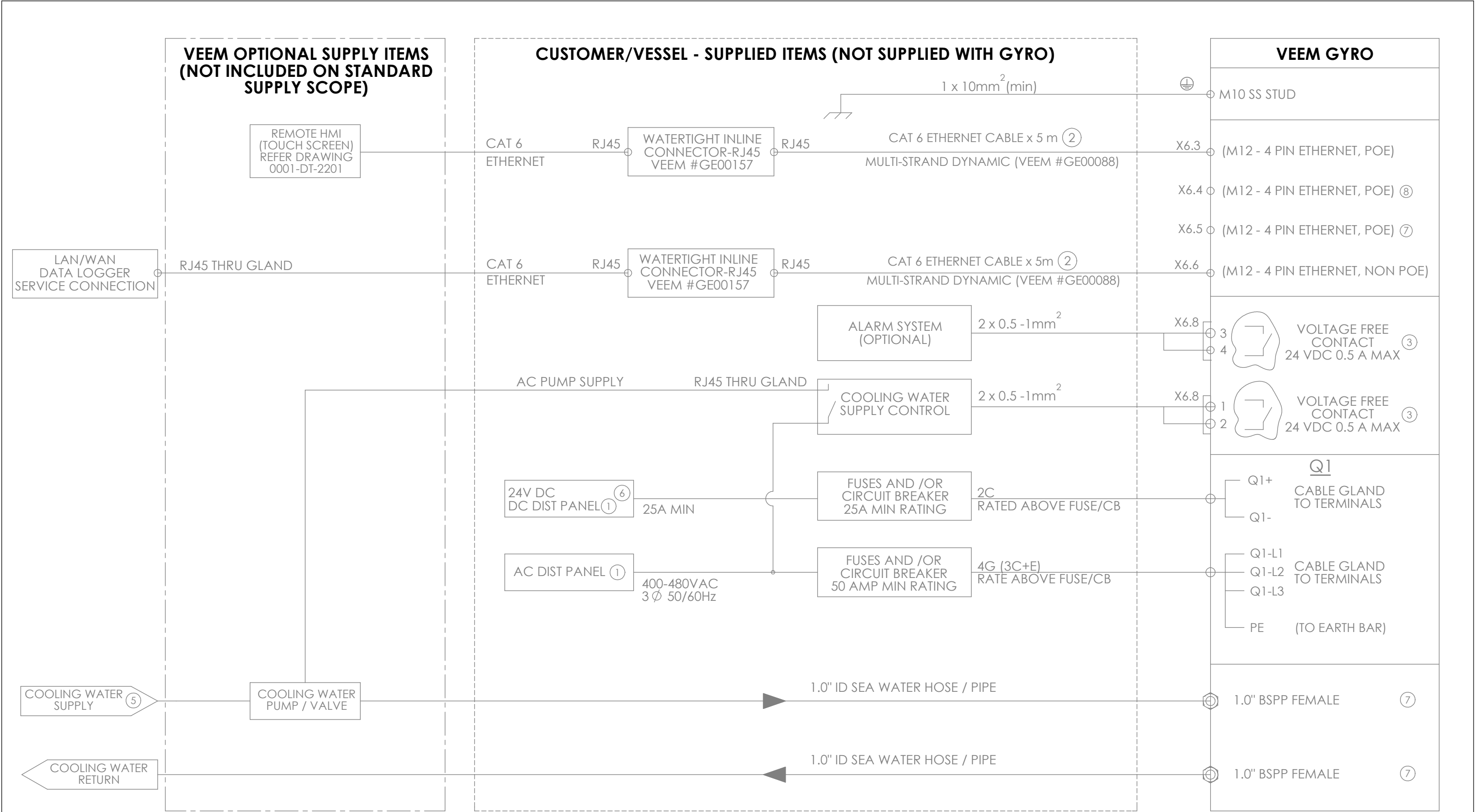
DRAFTING TO
AS 1100.101 AND 1100.201

TOLERANCES
IN ACCORDANCE WITH
-

MACHINE SURFACES
-


DEBURR ALL SHARP EDGES

VG52SD & VG70SD			
PART/ASSEMBLY No 0400-AM-1000-6 INSTALL	MASS SEE SHEET 2	TOTAL QTY / GYRO 1	
DESCRIPTION RECOMMENDED SERVICE ACCESS SPACE			REV
DRG No 0400-DT-1000.10			12
MATERIAL SEE BOM		PROCESS ASSEMBLY	
SHEET 10 OF 12	SCALE 1:20		SHEET SIZE A3



- ① CABLES AND CONNECTIONS TO BE SUPPLIED BY THE CUSTOMER UNO
- ② SUPPLIED BY VEEM FITTED WITH GYRO CONNECTORS AT ONE END, RJ45 AT OTHER END
- ③ MATING CONNECTOR SUPPLIED BY VEEM (DEUTSCH DT4). PLUG PROVIDED.
- ④ REMOTE ACCESS REQUIRED FOR DIAGNOSTIC REPORTING & SUPPORT(REFER WARRANTY STATEMENT)
- ⑤ FILTRATION. REFER TO INSTALLATION MANUAL (OM-00004).
- ⑥ 24 V DC SUPPLY TO BE UNINTERRUPTED FOR 60mins IN CASE OF LOSS OF MAIN POWER
- ⑦ CONNECTS TO GYRO SPIN MOTOR SERVO DRIVE.
- ⑧ CONNECTS TO LOCAL GYRO HMI (TOUCH SCREEN).

THREE PHASE SUPPLY




VEEM
MARINE
PROPELLERS AND GYROSTABILIZERS

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TOLERANCES IN ACCORDANCE WITH -
MACHINE SURFACES -
DEBURR ALL SHARP EDGES

VG52SD & VG70SD			
PART/ASSEMBLY No -		MASS SEE SHEET 2	TOTAL QTY / GYRO 1
DESCRIPTION INTERFACE DIAGRAM (SCOPE OF SUPPLY)			
DRG No 0400-DT-1000.12			REV 12
MATERIAL -		PROCESS -	
SHEET 12 OF 12		SCALE 1:10	 SHEET SIZE A3