NOTE:
CONTACT VEEM IF GYRO UNIT INTENDED TO BE LOCATED MORE THAN 2m ABOVE DWL OR MORE THEN 70% OF LWL FORWARD OF TRANTEROM.

GYRO UNIT MAY BE INSTALLED WITH FRONT PANEL FACING FORWARD OR AFT, FRONT PANEL MUST NOT BE ALIGNED AFTWARD.

REFER TO SHEET 5 FOR STRUCTURAL LOADS

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

VEEM GYRO 145 SD
VEEM GYRO 145 SD INSTALLATION DRAWING

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DEBUR ALL SHARP EDGES

DRAFTING TO AS 1100.101 AND AS 1100.201

DIMENSIONS IN BRACKETS: [Inches]

ALL DIMENSIONS IN: mm

REVISIONS

SHEET 01 OF 10
SCALE 1:12
SHEET SIZE A3
WARNING!

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REFER TO SHEET 5 FOR STRUCTURAL LOADS.

[Diagram of a VEEM GYRO 145 SD installation drawing with dimensions and notes]

ALL DIMENSIONS IN: mm
DIMENSIONS IN BRACKETS: [Inches]

VEEM GYRO 145 SD
PART/ASSEMBLY NO: 0145-AM-1000-1
MASS: 3100kg

VEEM GYRO 145 SD INSTALLATION DRAWING
DRAWING NO: 0145-DT-1000.01

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NOTE:
4 x M16 RUD VLBG SWIVEL LIFTING POINT OR EQUIVALENT TO BE USED FOR LIFTING.
SWIVEL BASE Ø 40mm MAX. MIN WLL 3.0t EACH RECOMMENDED.
MAXIMUM SLUNG ANGLE 60°. SPREADER BAR 2200 mm LONG TO BE USED.
ENSURE RIGGING DOES NOT CONTACT GYRO ENCLOSURE OR DAMAGE MAY RESULT.
LIFTING GEAR IS NOT INCLUDED IN GYRO STANDARD SCOPE OF SUPPLY.

2200mm SPREADER BAR
60° MAX
1200 MINIMUM

2200mm SPREADER BAR
60° MAX
1200 MINIMUM

M16 RUD VLBG SWIVEL LIFTING POINT WITH SCHACKLE

FORE OR AFT

ISOMETRIC VIEW

NOTE:
4 x M16 RUD VLBG SWIVEL LIFTING POINT OR EQUIVALENT TO BE USED FOR LIFTING.
SWIVEL BASE Ø 40mm MAX. MIN WLL 3.0t EACH RECOMMENDED.
MAXIMUM SLUNG ANGLE 60°. SPREADER BAR 2200 mm LONG TO BE USED.
ENSURE RIGGING DOES NOT CONTACT GYRO ENCLOSURE OR DAMAGE MAY RESULT.
LIFTING GEAR IS NOT INCLUDED IN GYRO STANDARD SCOPE OF SUPPLY.
NOTE:

1. FOR SS316 HX, COOLING WATER TO BE FRESH WATER WITH CORROSION INHIBITORS.

2. FOR TITANIUM HX, COOLING WATER TO BE RAW SEAWATER WITH #16-20 MESH FILTER RECOMMENDED.

HEAT REJECTION TO AMBIENT IS 1200W IN 20°C COMPARTMENT.
AIR HANDLING MAY BE REQUIRED

POWER SUPPLY REQUIRED 16kW (3Ø OR 1Ø)
THREE PHASE SUPPLY (3Ø) 380/480V 50/60Hz
VOLTAGE: 380V 415V 480V
CURRENT: 28Arms 25Arms 22Arms
SINGLE PHASE SUPPLY (1Ø) OPTIONAL 440/480V 50/60Hz
VOLTAGE: 440V 480V
CURRENT: 42Arms 38Arms
DC SUPPLY: 24V, 23A
(MIN 18Ah UNINTERRUPTED SUPPLY OF 24V DC REQUIRED IN THE EVENT OF LOSS OF AC POWER)
ELECTRICAL & DATA CABLES TERMINATED THROUGH GLANDS IN CABINET SEE DRAWING 0145-DT-1008

NOTE:

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ELECTRICAL & DATA CABLES TERMINATED THROUGH GLANDS IN CABINET SEE DRAWING 0145-DT-1008
NOTE:

THIS MODEL REPRESENTS THE ACTUAL SIZE ENVELOPE OF THE GYRO STABILISER.
A MINIMUM CLEARANCE OF 40mm ON 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.

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WARNING!

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

NOTE:
FY (VERTICAL) LOADS SHALL BE CONSIDERED TO FULLY REVERSE AT THE VESSEL’S NATURAL ROLLING PERIOD.
FX AND FZ (HORIZONTAL) LOADS SHALL BE CONSIDERED TO FULLY REVERSE AT HALF THE VESSEL’S 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.

FORCES ON MOUNT

<table>
<thead>
<tr>
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<th>MAX</th>
<th>MIN</th>
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<tbody>
<tr>
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<td>24.0kN</td>
<td>-24.0kN</td>
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<tr>
<td>Y</td>
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<td>-93.3kN</td>
</tr>
<tr>
<td>Z</td>
<td>22.3kN</td>
<td>-22.3kN</td>
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VEEM GYRO 145 SD

PART/ASSEMBLY No.
0145-AM-1000

MASS
3100kg

DESCRIPTION
FORCES ON MOUNTS

DIMENSIONS IN: mm
DIMENSIONS IN BRACKETS: [Inches]

SHEET SIZE
A3

SHEET
05 OF 10
SCALE
1:12

REVISION
3

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VEEM ENGINEERING GROUP
22 BAILE RD
CANNING VALE, WA 6155

TEL: +61 8 9455 9355
FAX: +61 8 9455 9333
e-mail: veem@veem.com.au

VEEM 0145-DT-1000.05

DRAFTING TO AS 1100.101 AND 1100.201
TOLERANCES IN ACCORDANCE WITH
- 0145-DT-1000.05

MASS
3100kg

SHEET SIZE
A3

SHEET
05 OF 10
SCALE
1:12

REVISION
3

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VEEM ENGINEERING GROUP
22 BAILE RD
CANNING VALE, WA 6155

TEL: +61 8 9455 9355
FAX: +61 8 9455 9333
e-mail: veem@veem.com.au
NOTE:
MIN PRE-LOAD 6.5MN ± 10% ON MOUNT BOLTS. 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.
NOTE:
ACCESS TO NUTS UNDER VIBRATION MOUNTS IS REQUIRED
EXCEPT WHERE BONDED SADDLE IS USED, REFER TO SHEETS 4 & 6

CAUTION: 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

RECOMMENDED
OPERATING AND MAINTENANCE
SPACE REQUIREMENTS

REFER TO SECTION A-A
SIDE VIEW

NOTE:
ACCESS TO NUTS UNDER VIBRATION MOUNTS IS REQUIRED
EXCEPT WHERE BONDED SADDLE IS USED, REFER TO SHEETS 4 & 6

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THE GYRO FROM THE VESSEL.
REFER TO THE WARRANTY STATEMENT
MINIMUM REQUIREMENTS

OPERATING AND MAINTENANCE SPACE REQUIREMENTS

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