

Thompson Constant Velocity Joint TCVJ-1C (30 Degrees) Coupling Head Technical Specifications and Details

| | |
|---|--|
| Nominal Design Torque | 50 Nm |
| Max. Torque | 200 Nm |
| Design Speed Max | 3,000 RPM |
| Full Articulation Angle | 30 degrees |
| L₁₀ bearing life ⁽¹⁾ | Contact us for your specific application |
| Max. Service Temperature | Up to 120 degrees Celsius |
| Coupling Efficiency | > 99.95% ⁽²⁾ |
| Connection details | • 50 mm Female flange pattern as per sketch below |
| Max Swing Diameter | 75 mm |
| Overall Length | 68 mm |
| Weight | 1.0 kg |
| Rotational moment of inertia | 0,0011 kgm² |

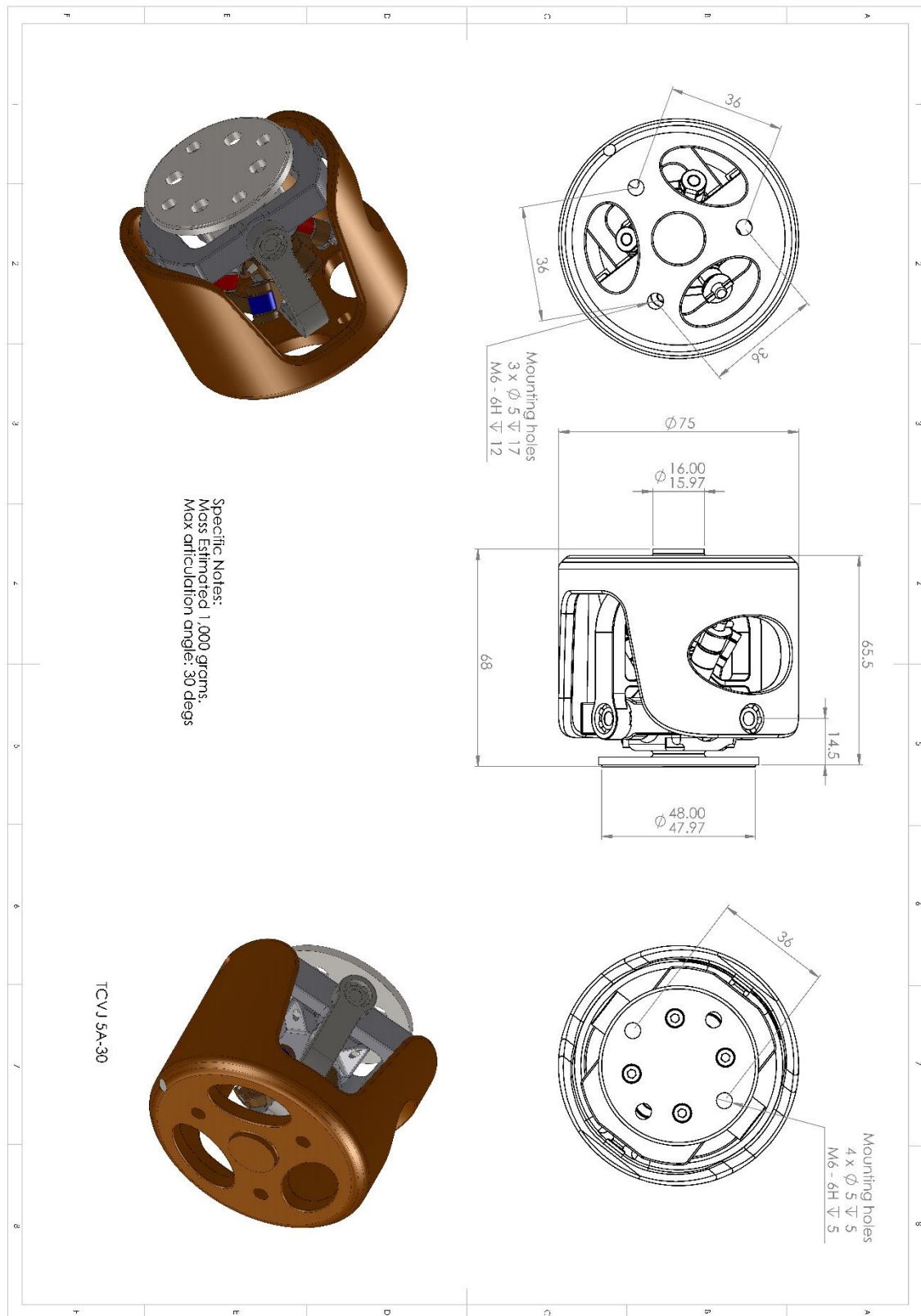
Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, lubrication frequency and environmental conditions may also affect life ratings.
- (2) Efficiency determined from independent testing authority based on a range of angles, speeds and torque loading scenarios.
- (3) See next page for Drawing.

Dimensions and specifications subject to change without notice – Amended 05 Apr 2017



thompson
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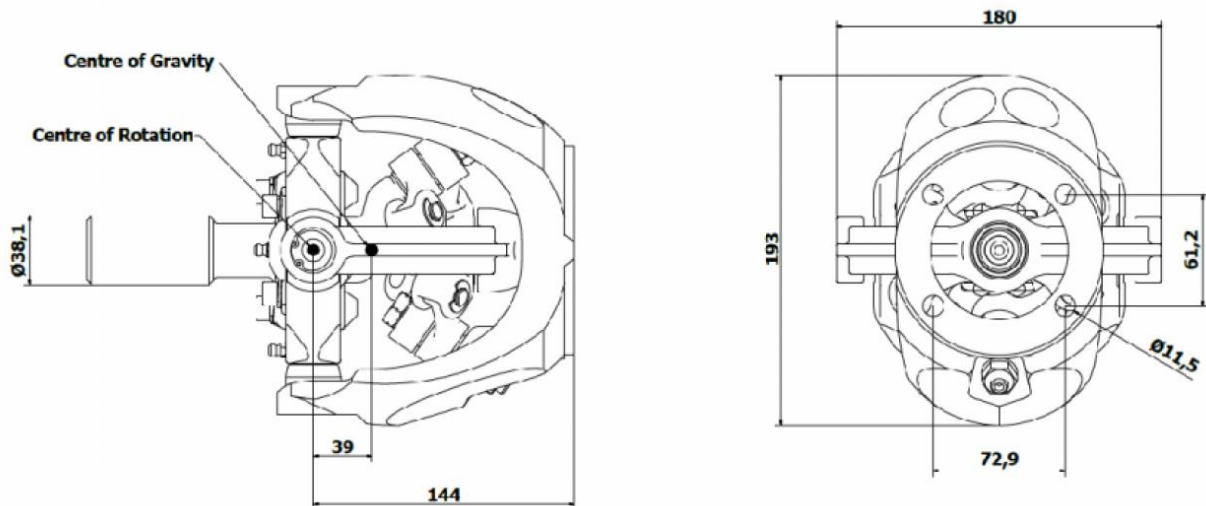
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Thompson Constant Velocity Joint TCVJ 2C (15 Degrees) Coupling Head Technical Specifications and Details

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|---|--|
| Nominal Design Torque | 500 Nm |
| Max. Torque | 1200 Nm |
| Design Speed Max | 3000 RPM |
| Full Articulation Angle | 15 degrees |
| L ₁₀ bearing life ⁽¹⁾ | Contact us for your specific application |
| Max. Service Temperature | Up to 120 degrees Celsius |
| Coupling Efficiency | > 99.95% ⁽²⁾ |
| Connection details | <ul style="list-style-type: none"> • Male keyed shaft 38.1 (1.5" diameter) • Female flange SAE 1350 4-bolt pattern |
| Max Swing Diameter | 193 mm |
| Overall Length | 169 mm |
| Weight | 11.0 kg |
| Rotational moment of inertia | 0,0358 kgm ² |



Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, lubrication frequency and environmental conditions may also affect life ratings.
- (2) Efficiency determined from independent testing authority based on a range of angles, speeds and torque loading scenarios.

Dimensions and specifications subject to change without notice – Amended 30 Sept 2010

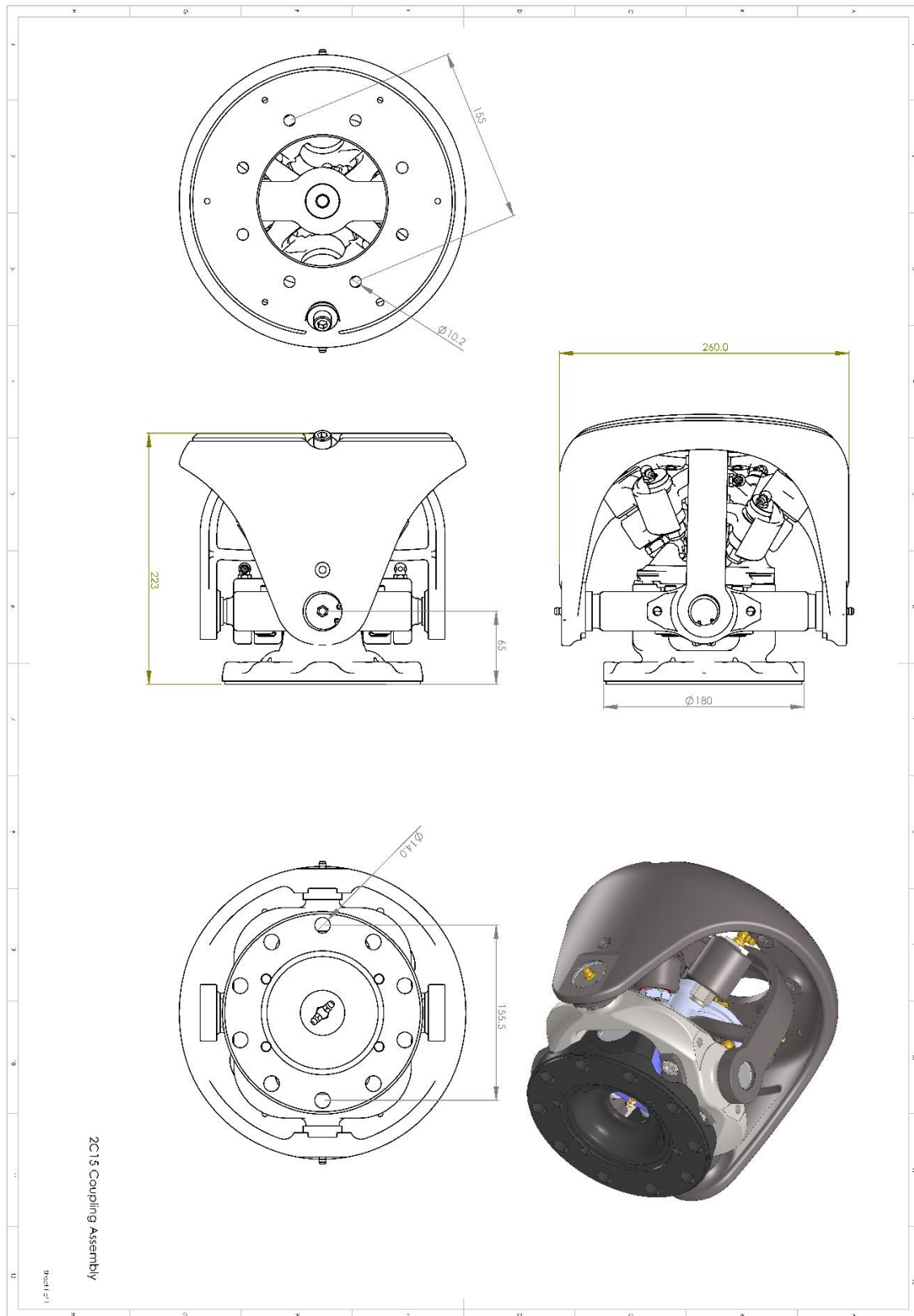
Thompson Constant Velocity Joint TCVJ 4C (15 Degrees) Coupling Head Technical Specifications and Details

| | |
|---|--|
| Nominal Design Torque | 2,000 Nm |
| Max. Torque | 7,700 Nm |
| Design Speed Max | 2,500 RPM |
| Full Articulation Angle | 15 degrees |
| L₁₀ bearing life ⁽¹⁾ | Contact us for your specific application |
| Max. Service Temperature | Up to 120 degrees Celsius |
| Coupling Efficiency | > 99.95% ⁽²⁾ |
| Connection details | • 180mm Female flange pattern as per sketch below |
| Max Swing Diameter | 260 mm |
| Overall Length | 225 mm |
| Weight | 22.0 kg |
| Rotational moment of inertia | 0,172 kgm² |

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, lubrication frequency and environmental conditions may also affect life ratings.
- (2) Efficiency determined from independent testing authority based on a range of angles, speeds and torque loading scenarios.
- (3) See next page for Drawings

Dimensions and specifications subject to change without notice – Amended 05 Apr 2017



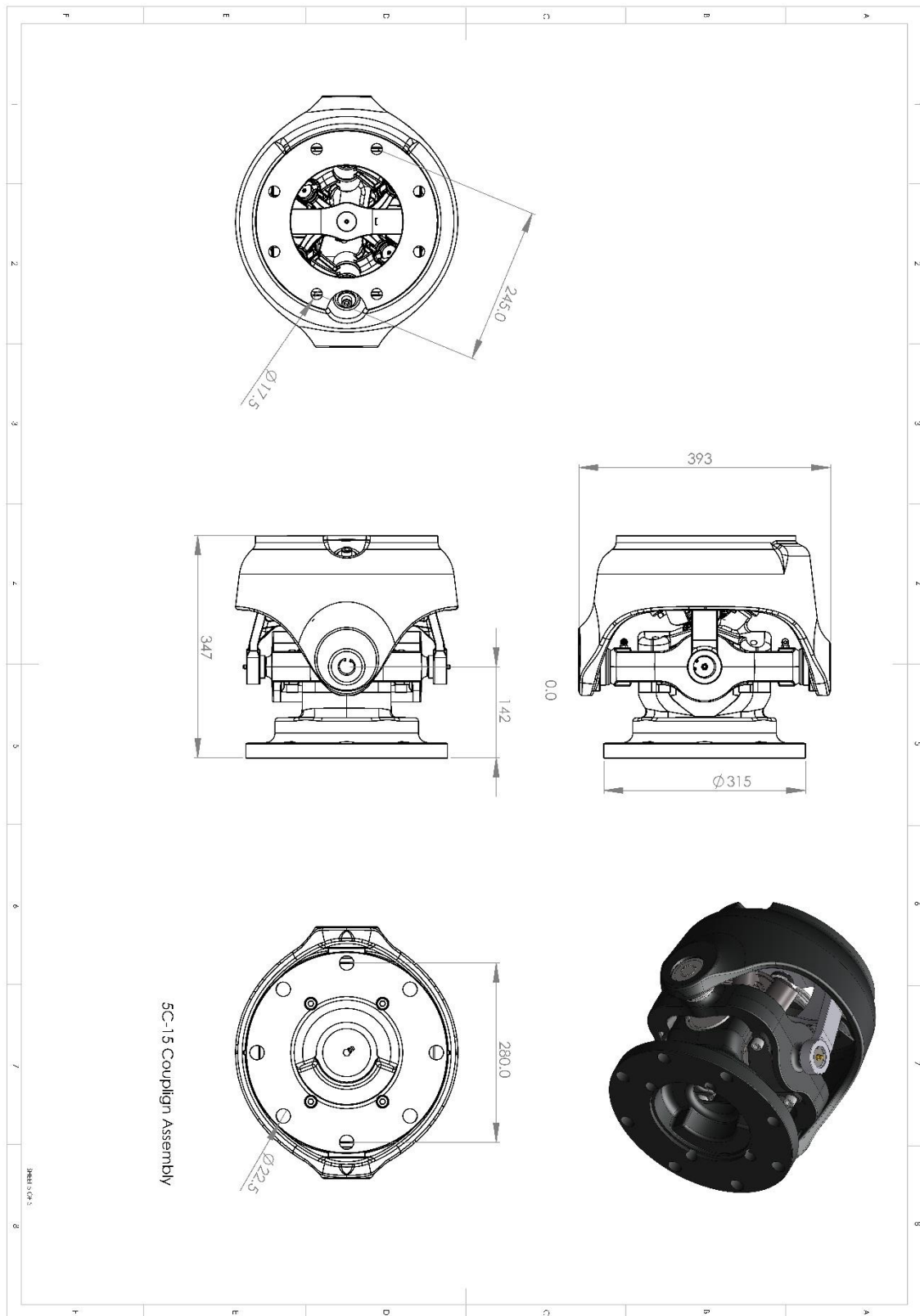
Thompson Constant Velocity Joint TCVJ 6C (15 Degrees) Coupling Head Technical Specifications and Details

| | |
|---|---|
| Nominal Design Torque | 5,000 Nm |
| Max. Torque | 13,600 Nm |
| Design Speed Max | 2,000 RPM |
| Full Articulation Angle | 15 degrees |
| L₁₀ bearing life ⁽¹⁾ | Contact us for your specific application |
| Max. Service Temperature | Up to 120 degrees Celsius |
| Coupling Efficiency | > 99.95% ⁽²⁾ |
| Connection details | • 315 mm Female flange pattern as per sketch below |
| Max Swing Diameter | 393 mm |
| Overall Length | 347 mm |
| Weight | 82.5 kgs |
| Rotational moment of inertia | 1.47 kgm² |

Notes:

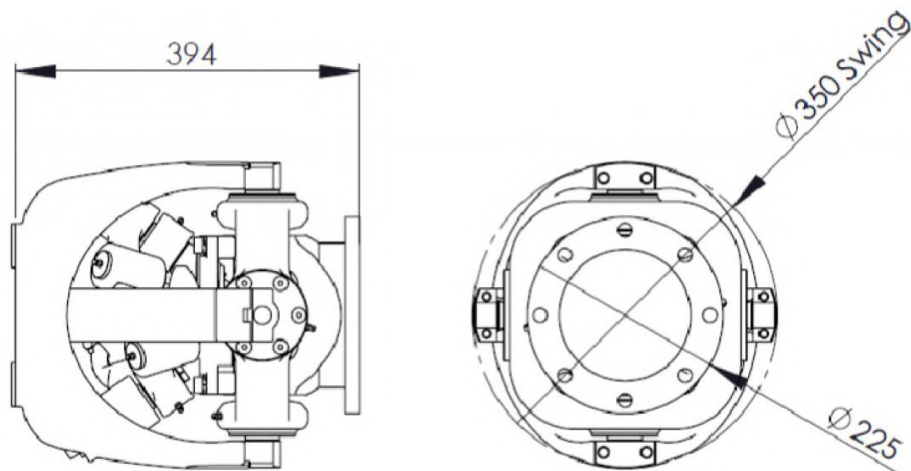
- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, lubrication frequency and environmental conditions may also affect life ratings.
- (2) Efficiency determined from independent testing authority based on a range of angles, speeds and torque loading scenarios.
- (3) See next page for Drawing.

Dimensions and specifications subject to change without notice – Amended 05 Apr 2017



Thompson Constant Velocity Joint TCVJ 8C (10 Degrees) Coupling Head Technical Specifications and Details

| | |
|---|--|
| Nominal Design Torque | 6,350 Nm⁽¹⁾ |
| Max. Torque | 20,000 Nm |
| Design Speed Max | 1,600 RPM |
| Full Articulation Angle | ± 10 degrees |
| L₁₀ bearing life ⁽²⁾ | Contact us for your specific application |
| Max. Service Temperature | Up to 120 degrees Celsius |
| Coupling Efficiency | > 99.95% ⁽³⁾ |
| Connection details | <ul style="list-style-type: none"> • Flange ISO 225mm dia 8 bolt on 195mm PCD male end • Flange 4 bolt “mechanics 9C” pattern female end |
| Max Swing Diameter | 350 mm |
| Overall Length | 394 mm |
| Weight | 80.67 kg |
| Rotational moment of inertia | 0,945 kgm² |



Notes:

- (1) Initially calculated at nominal torque of 8000Nm at 5°. Increasing articulation angle to 10° yields nominal torque of 6350Nm.
- (2) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, lubrication frequency and environmental conditions may also affect life ratings.
- (3) Efficiency determined from independent testing authority based on a range of angles, speeds and torque loading scenarios.

Dimensions and specifications subject to change without notice – Amended 15 October 2010