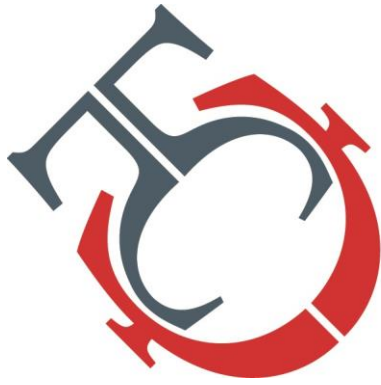
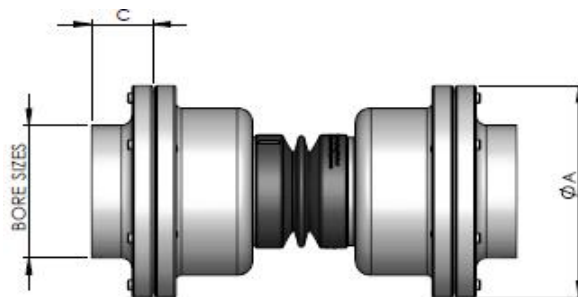


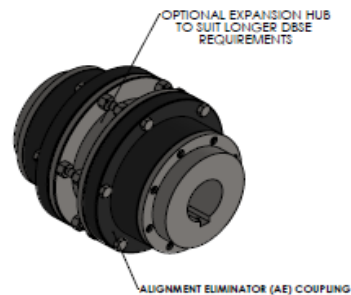
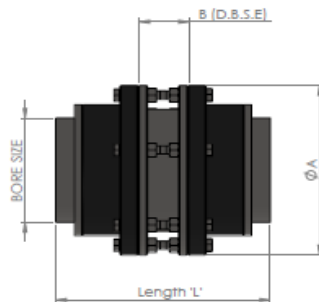


quality makes a difference
thompson
COUPLINGS

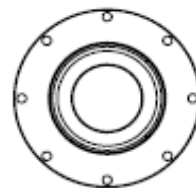
TCAE R SERIES



TCAE S SERIES



TCAE CM SERIES





quality makes a difference
thompson
 COUPLINGS

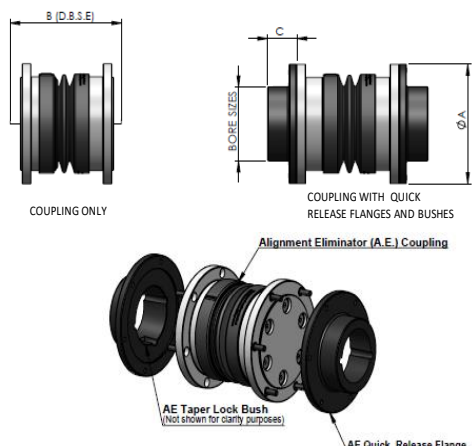
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TCAE NORMAL SERIES – TECHNICAL SPECIFICATIONS

PARAMETERS	UNIT	TCAE-0	TCAE-1	TCAE-2	PARAMETERS	UNIT	TCAE-3	TCAE-4	TCAE-5	PARAMETERS	UNIT	TCAE-6	TCAE-7	TCAE-8
MAXIMUM MISALIGNMENT ANGLE	Degree °	5	10	10	MAXIMUM MISALIGNMENT ANGLE	Degree °	10	10	10	MAXIMUM MISALIGNMENT ANGLE	Degree °	10	10	10
MINIMUM MISALIGNMENT ANGLE	Degree °	0	0	0	MINIMUM MISALIGNMENT ANGLE	Degree °	0	0	0	MINIMUM MISALIGNMENT ANGLE	Degree °	0	0	0
MAXIMUM PARALLEL SHAFT OFFSET	E mm	3	5	5	MAXIMUM PARALLEL SHAFT OFFSET	E mm	8	8	8	MAXIMUM PARALLEL SHAFT OFFSET	E mm	16	16	17
MAXIMUM SERVICE TEMPERATURE	°C	120	120	120	MAXIMUM SERVICE TEMPERATURE	°C	120	120	120	MAXIMUM SERVICE TEMPERATURE	°C	120	120	120
SERVICE LIFE		As per customer application			SERVICE LIFE		As per customer application			SERVICE LIFE		As per customer application		
DIMENSION ΦA	mm	117	148	178	DIMENSION ΦA	mm	215	253	278	DIMENSION ΦA	mm	300	330	370
DIMENSION B NOMINAL D.B.S.E. (range) current	mm	82 to 90	133 to 147	162 to 178	DIMENSION B NOMINAL D.B.S.E. (range) current	mm	285 to 305	285 to 305	300 to 330	DIMENSION B NOMINAL D.B.S.E. (range) current	mm	320-345	330-358	340-370
DIMENSION B NOMINAL D.B.S.E. (range) low range	mm	82 to 90	130 to 147	136 to 162	DIMENSION B NOMINAL D.B.S.E. (range) low range	mm	263 to 288	276 to 285	276 to 300	DIMENSION B NOMINAL D.B.S.E. (range) low range	mm	291 to 312	310 to 330	326 to 344
DIMENSION C	mm	34	48	48	DIMENSION C	mm	61	74	74	DIMENSION C	mm	74	74	74
BORE SIZES	mm	14 to 50	16 to 60	16 to 60	BORE SIZES	mm	25 to 75	35 to 95	35 to 95	BORE SIZES	mm	35 to 100	35 to 100	35 to 100
	inch	0.75 to 2.00	0.75 to 2.50	0.75 to 2.50		inch	1.25 to 3.00	1.50 to 4.00	1.50 to 4.00		inch	1.50 to 4.00	1.50 to 4.00	1.50 to 4.00
ALLOWABLE TORQUE (Dynamic & Unfactored)	N.m	390	630	1470	ALLOWABLE TORQUE (Dynamic & Unfactored)	N.m	2890	4000	5880	ALLOWABLE TORQUE (Dynamic & Unfactored)	N.m	7550	10,700	15800
UNFACTORED. POWER CAP (AT 1440 RPM)	kW	15	30	80	UNFACTORED. POWER CAP (AT 1440 RPM)	kW	120	200	300	UNFACTORED. POWER CAP (AT 600 RPM)	kW	475	650	975

* Taper Lock Bush sold separately
* Quick Release Flange sold separately



COUPLING ONLY

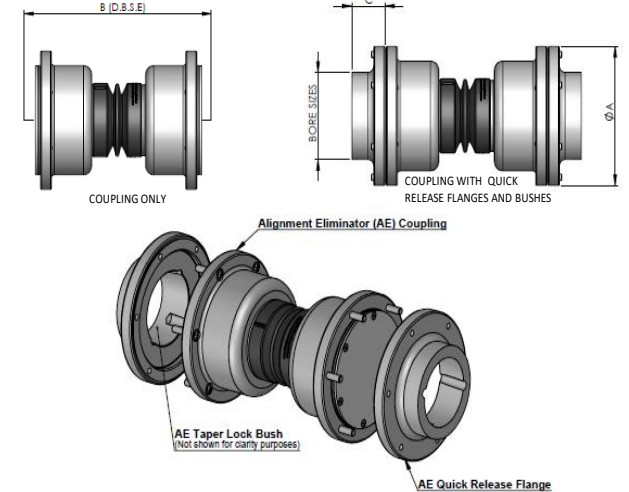
COUPLING WITH QUICK RELEASE FLANGES AND BUSHES

Alignment Eliminator (A.E.) Coupling

AE Taper Lock Bush (Not shown for clarity purposes)

AE Quick Release Flange

* Taper Lock Bush sold separately
* Quick Release Flange sold separately



COUPLING ONLY

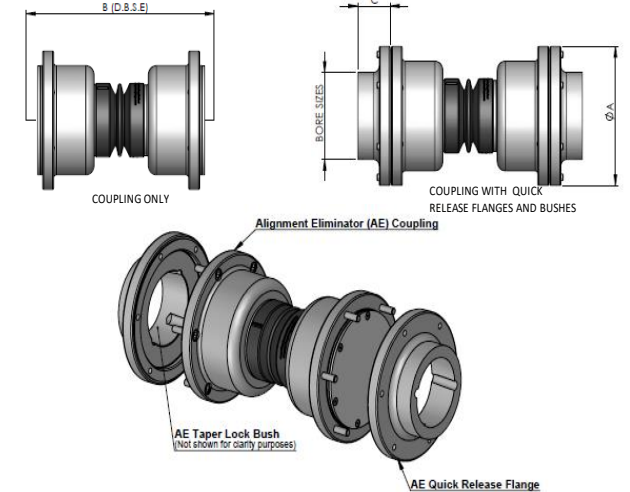
COUPLING WITH QUICK RELEASE FLANGES AND BUSHES

Alignment Eliminator (A.E.) Coupling

AE Taper Lock Bush (Not shown for clarity purposes)

AE Quick Release Flange

* Taper Lock Bush sold separately
* Quick Release Flange sold separately



COUPLING ONLY

COUPLING WITH QUICK RELEASE FLANGES AND BUSHES

Alignment Eliminator (A.E.) Coupling

AE Taper Lock Bush (Not shown for clarity purposes)

AE Quick Release Flange

Rev.14
March 4th 2019

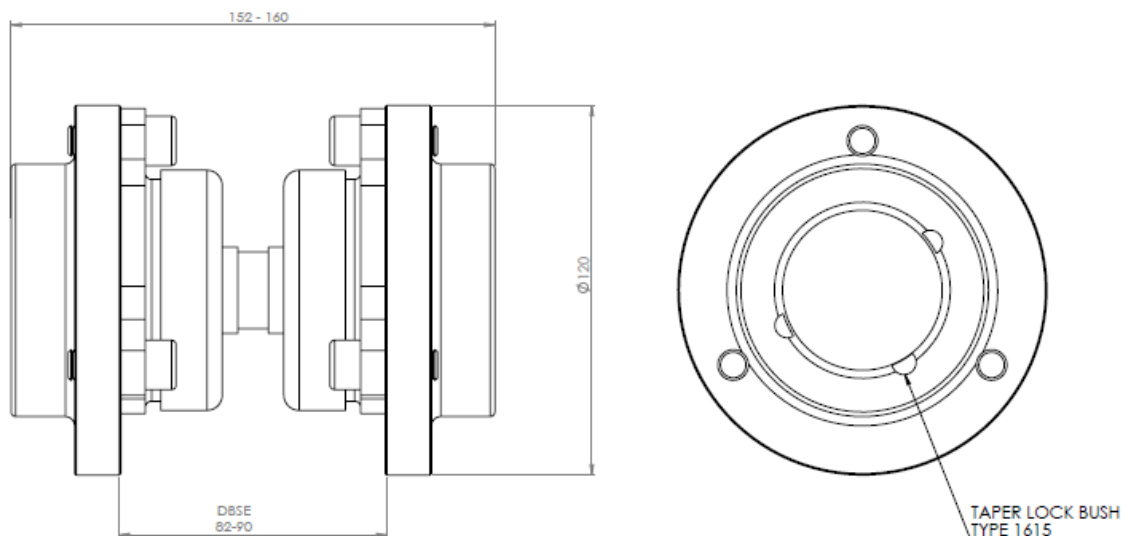
Thompson Coupling Alignment Eliminator (TCAE-0-R)

Technical Specifications and Details

Nominal Design Torque	390 Nm (unfactored, dynamic)
Max. Torque	588 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	3,600 RPM
Max. Misalignment Angle	5 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	+/- 3mm
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 120 degrees Celsius
Connection details	Keyed shaft via taper lock bush #1615. Shaft size range 14mm-42mm (0.55" – 1.65")
Max Swing Diameter	120 mm
Overall Length	152 – 160 mm (see drawing)
Distance between shaft ends	82 – 90 mm (see drawing)
Weight	3.9 kg (including QR flange weights)
Rotational moment of inertia	0,007 kgm²

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



Dimensions and specifications subject to change without notice – Amended 24 Nov 2017

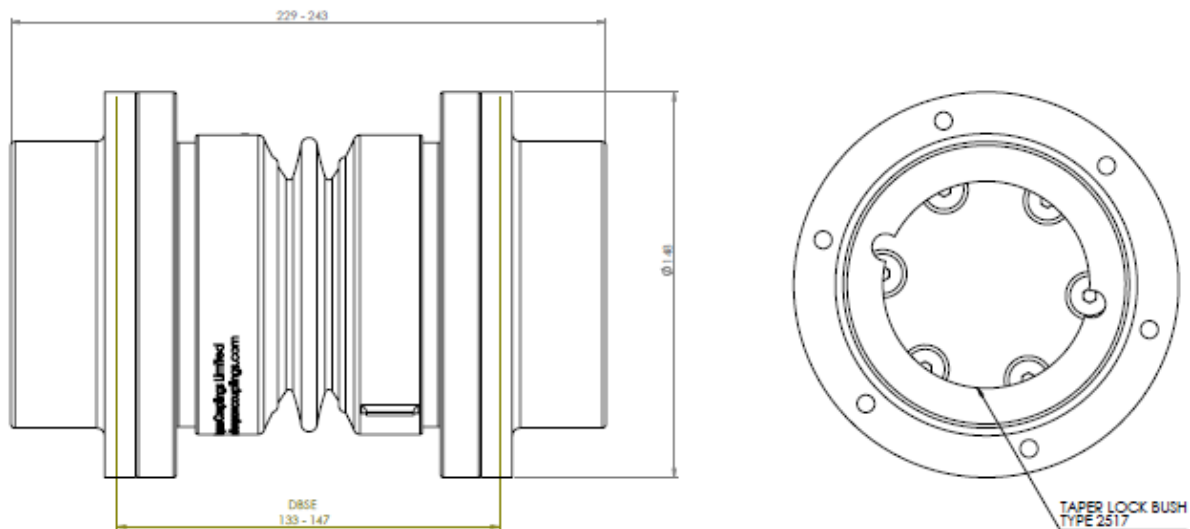
Thompson Coupling Alignment Eliminator (TCAE- 1-R)

Technical Specifications and Details

Nominal Design Torque	630 Nm (unfactored, dynamic)
Max. Torque	1.130 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	3,600 RPM
Max. Misalignment Angle	10 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	+/- 4mm
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 120 degrees Celsius
Connection details	Keyed shaft via taper lock bush #2517. Shaft size range 16mm-65mm (0.625" – 2.50")
Max Swing Diameter	148 mm
Overall Length	229 – 243 mm (see drawing)
Distance between shaft ends	133 – 147 mm (see drawing)
Weight	9.1 kg (including QR flange weights)
Rotational moment of inertia	0,022 kgm²

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



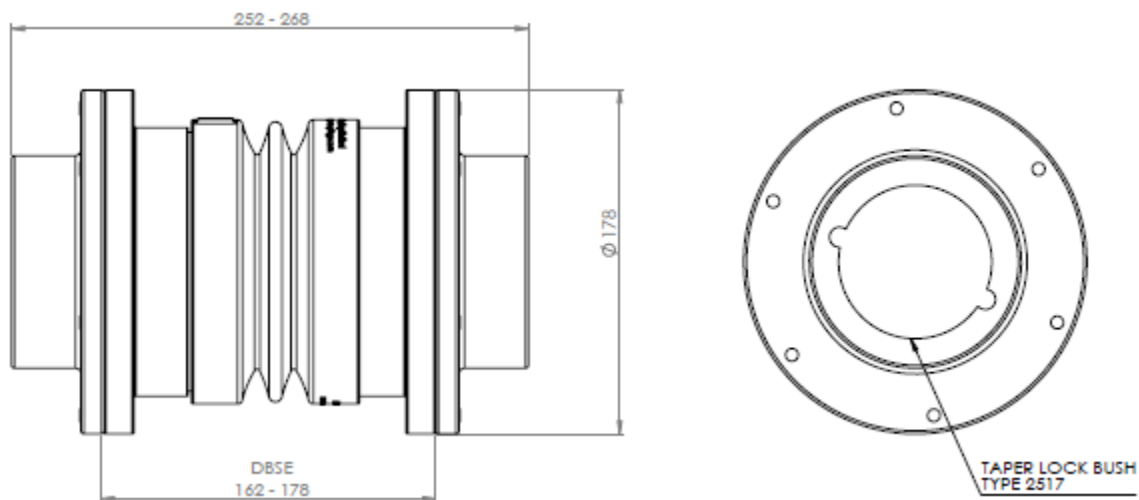
Dimensions and specifications subject to change without notice – Amended 24 Nov 2017

Thompson Coupling Alignment Eliminator (TCAE- 2-R) Technical Specifications and Details

Nominal Design Torque	1,470 Nm (unfactored, dynamic)
Max. Torque	2,750 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	3,600 RPM
Max. Misalignment Angle	10 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	+/- 5mm
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 120 degrees Celsius
Connection details	Keyed shaft via taper lock bush #2517. Shaft size range 16mm-65mm (0.625" – 2.50")
Max Swing Diameter	178 mm
Overall Length	252 – 268 mm (see drawing)
Distance between shaft ends	162 – 178 mm (see drawing)
Weight	14.7 kg (including QR flange weights)
Rotational moment of inertia	0,085 kgm²

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



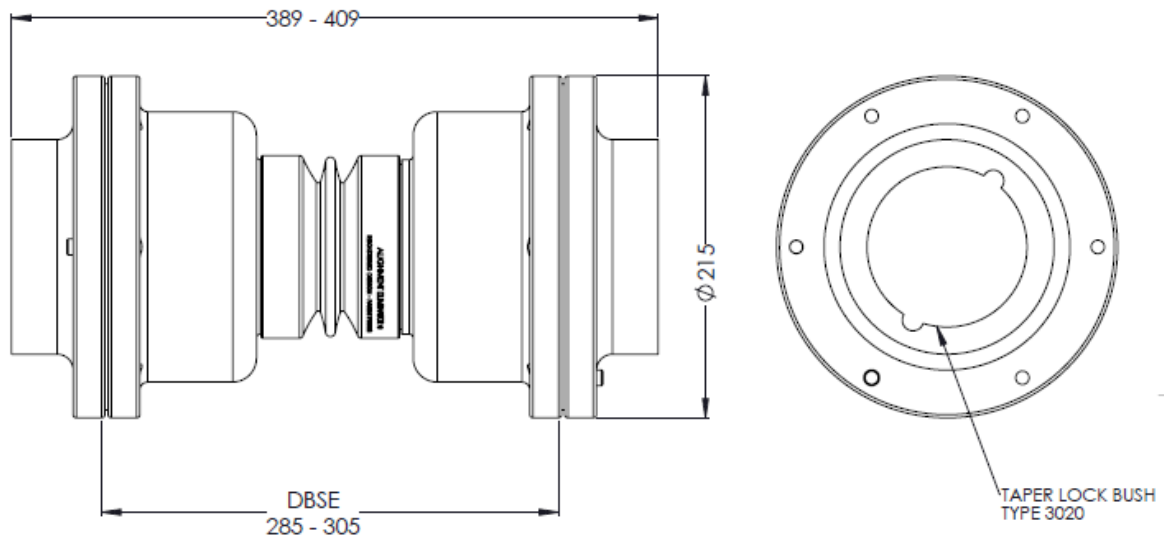
Dimensions and specifications subject to change without notice – Amended 24 Nov 2017

Thompson Coupling Alignment Eliminator (TCAE- 3-R) Technical Specifications and Details

Nominal Design Torque	2,890 Nm (unfactored, dynamic)
Max. Torque	4,710 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	3,000 RPM
Max. Misalignment Angle	10 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	+/- 8 mm
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 120 degrees Celsius
Connection details	Keyed shaft via taper lock bush #3020. Shaft size range 25mm-75mm (1.00" – 3.00")
Max Swing Diameter	215 mm
Overall Length	389 – 409 mm (see drawing)
Distance between shaft ends	285 – 305 mm (see drawing)
Weight	31.5 kg (including QR flange weights)
Rotational moment of inertia	0,13 kgm²

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



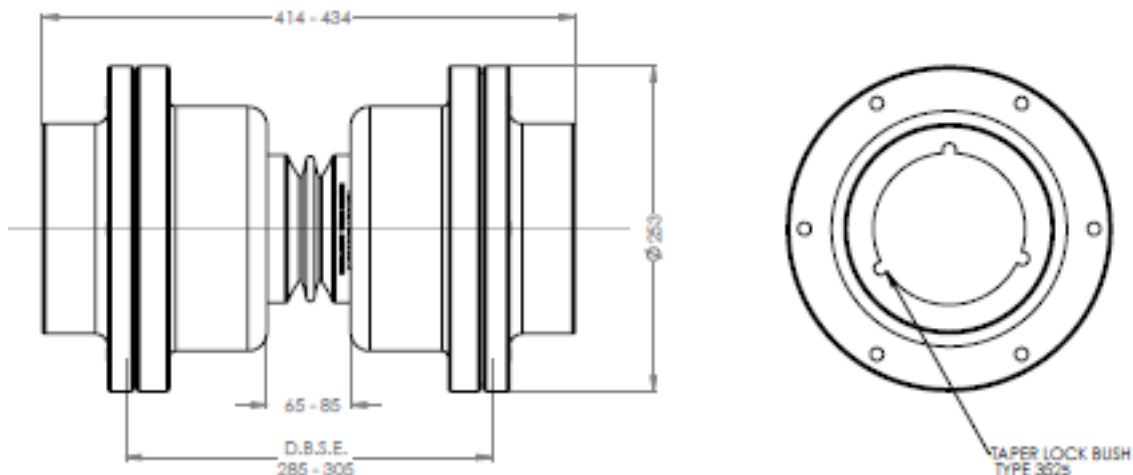
Dimensions and specifications subject to change without notice – Amended 24 Nov 2017

Thompson Coupling Alignment Eliminator (TCAE- 4-R) Technical Specifications and Details

Nominal Design Torque	4,000 Nm (unfactored, dynamic)
Max. Torque	6,720 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	3,000 RPM
Max. Misalignment Angle	10 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	+/- 8mm
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 120 degrees Celsius
Connection details	Keyed shaft via taper lock bush #3525. Shaft size range 35mm-100mm (1.50" – 4.00")
Max Swing Diameter	253mm
Overall Length	414 – 434 mm (see drawing)
Distance between shaft ends	285 – 305 mm (see drawing)
Weight	45.5 kg (including QR flange weights)
Rotational moment of inertia	0,27 kgm²

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



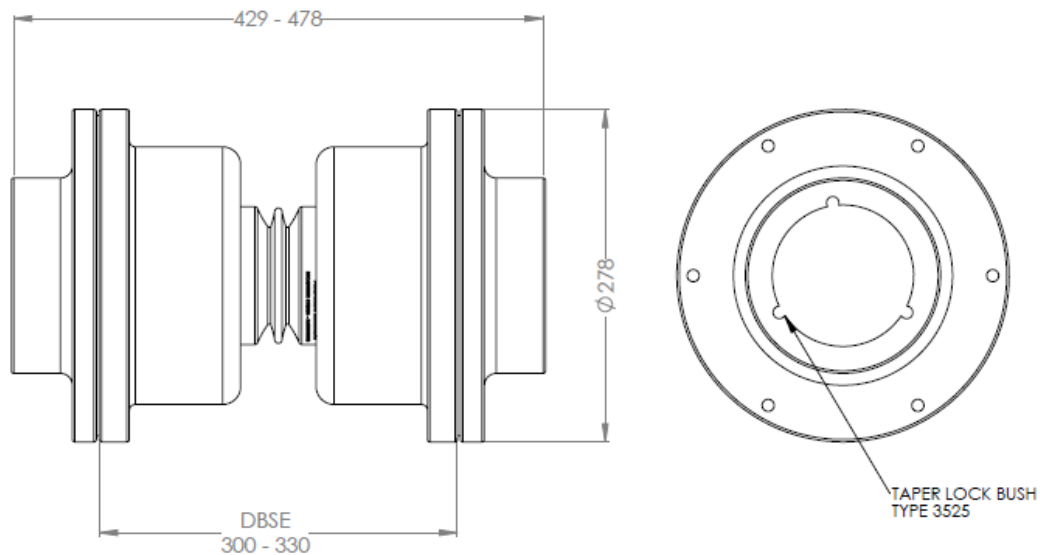
Dimensions and specifications subject to change without notice – Amended 24 Nov 2017

Thompson Coupling Alignment Eliminator (TCAE- 5-R) Technical Specifications and Details

Nominal Design Torque	5,880 Nm (unfactored, dynamic)
Max. Torque	11,200 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	3,000 RPM
Max. Misalignment Angle	10 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	+/- 8 mm
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 120 degrees Celsius
Connection details	Keyed shaft via taper lock bush #3525. Shaft size range 35mm-100mm (1.50" – 4.00")
Max Swing Diameter	278 mm
Overall Length	429 – 478 mm (see drawing)
Distance between shaft ends	300 – 330 mm (see drawing)
Weight	58.2 kg (including QR flange weights)
Rotational moment of inertia	0,33 kgm²

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



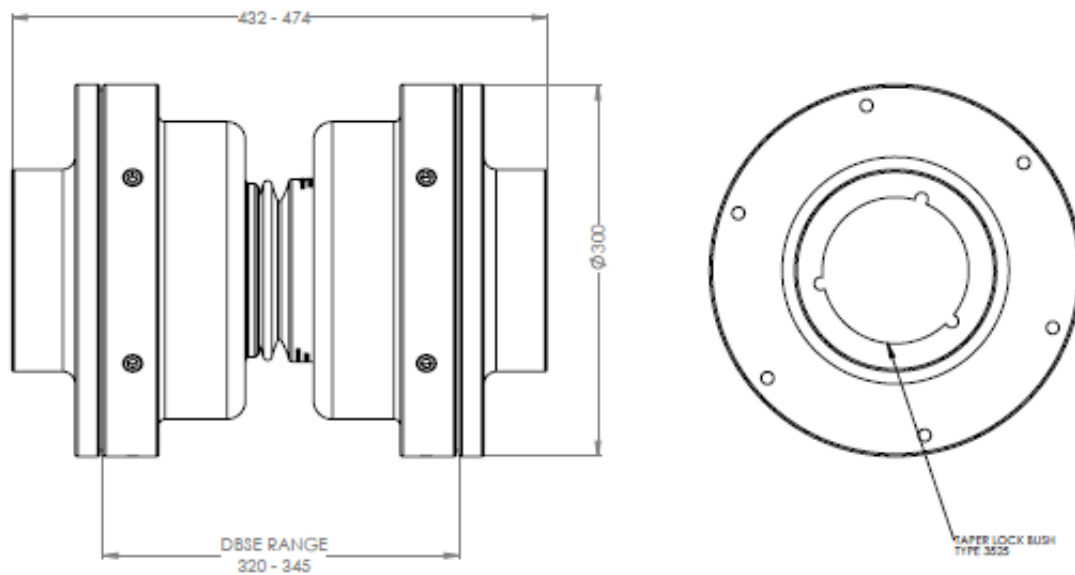
Dimensions and specifications subject to change without notice – Amended 24 Nov 2017

Thompson Coupling Alignment Eliminator (TCAE- 6-R) Technical Specifications and Details

Nominal Design Torque	7,550 Nm (unfactored, dynamic)
Max. Torque	14,700 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	1,500 RPM
Max. Misalignment Angle	10 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	+/- 9 mm
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 120 degrees Celsius
Connection details	Keyed shaft via taper lock bush #3525. Shaft size range 35mm-100mm (1.50" – 4.00")
Max Swing Diameter	300 mm
Overall Length	432 – 474 mm (see drawing)
Distance between shaft ends	320 – 345 mm (see drawing)
Weight	74 kg (including QR flange weights)
Rotational moment of inertia	0,64 kgm²

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



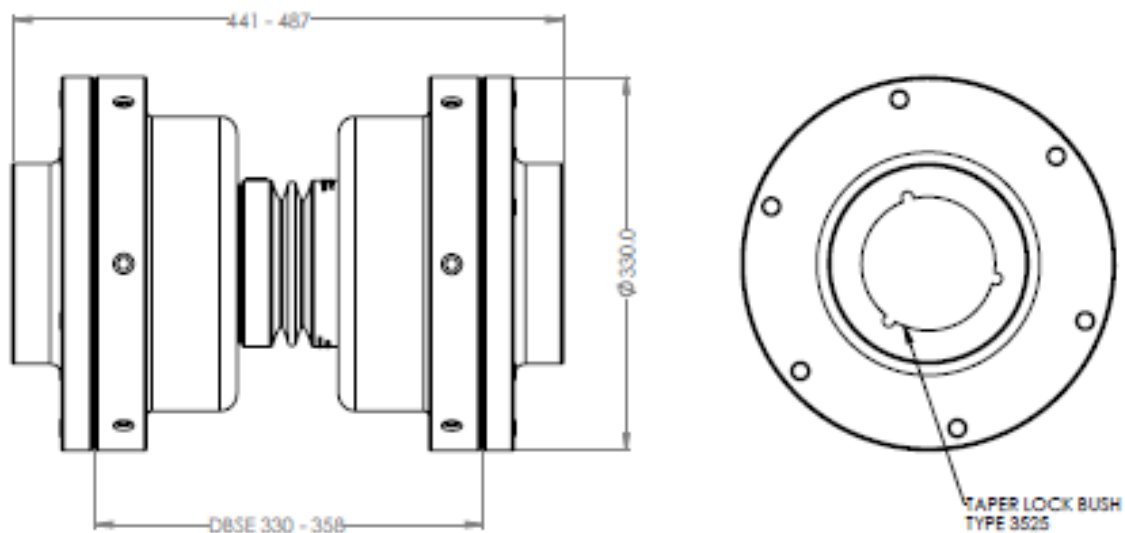
Dimensions and specifications subject to change without notice – Amended 30 Nov 2018

Thompson Coupling Alignment Eliminator (TCAE- 7-R) Technical Specifications and Details

Nominal Design Torque	10,700 Nm (unfactored, dynamic)
Max. Torque	20,700 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	1,500 RPM
Max. Misalignment Angle	10 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	+/- 9 mm
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 120 degrees Celsius
Connection details	Keyed shaft via taper lock bush #3525. Shaft size range 35mm-100mm (1.50" – 4.00")
Max Swing Diameter	330 mm
Overall Length	441 – 487 mm (see drawing)
Distance between shaft ends	330 – 358 mm (see drawing)
Weight	103 kg (including QR flange weights)
Rotational moment of inertia	1,10 kgm²

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



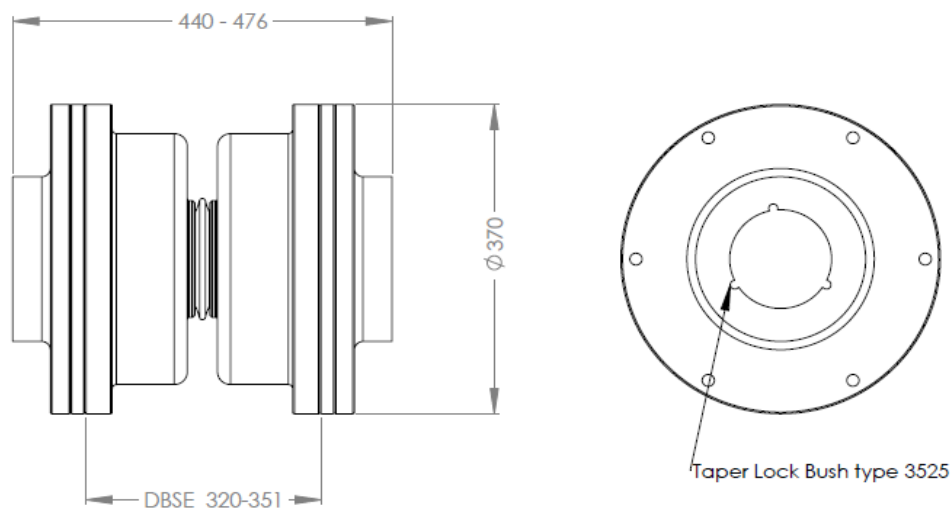
Dimensions and specifications subject to change without notice – Amended 30 Nov 2018

Thompson Coupling Alignment Eliminator (TCAE- 8-R) Technical Specifications and Details

Nominal Design Torque	15,800 Nm (unfactored, dynamic)
Max. Torque	29,100 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	1,500 RPM
Max. Misalignment Angle	10 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	+/- 9mm
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 120 degrees Celsius
Connection details	Keyed shaft via taper lock bush #3525. Shaft size range 35mm-100mm (1.50" – 4.00")
Max Swing Diameter	370 mm
Overall Length	440 – 476 mm (see drawing)
Distance between shaft ends	320 – 351 mm (see drawing)
Weight	116 kg (including QR flange weights)
Rotational moment of inertia	1.48 kgm²

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.

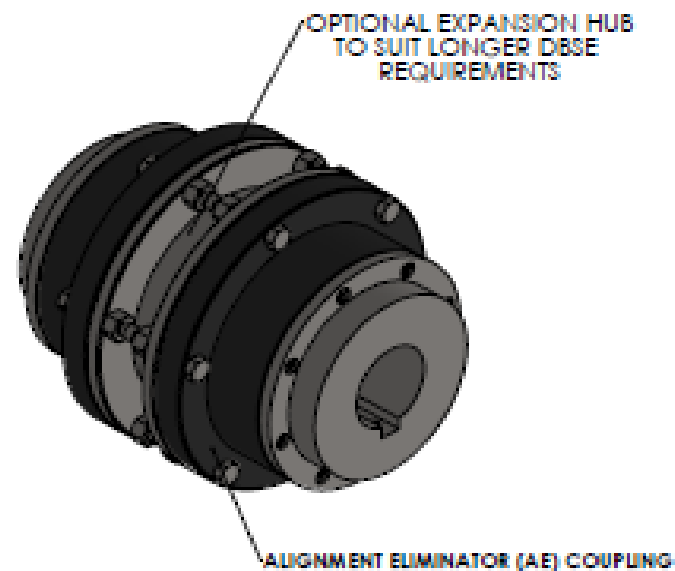
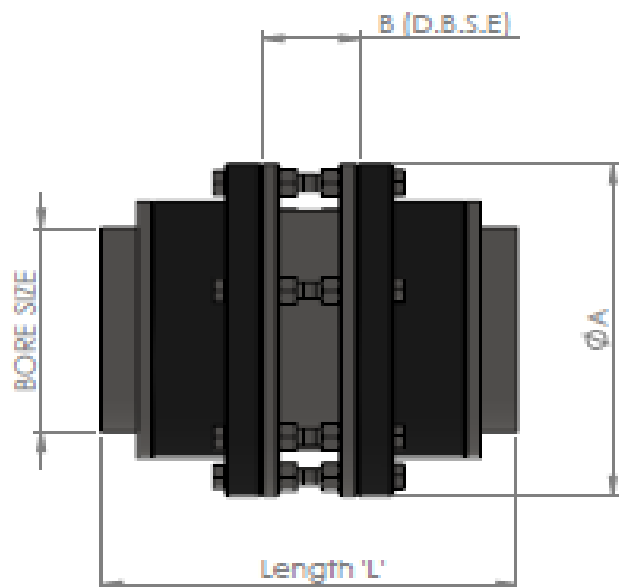


Dimensions and specifications subject to change without notice – Amended 2 May 2018

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TCAE-S SERIES TECHNICAL SPECIFICATIONS

PARAMETERS	UNIT	TCAE 6-S	TCAE 7-S	TCAE 8-S	TCAE 9-S	TCAE 10-S	TCAE 11-S	TCAE 12-S	TCAE 13-S	TCAE 14-S
MAXIMUM SPEED	RPM									
MAXIMUM MISALIGNMENT ANGLE	Degree °	5	5	5	5	5	5	5	5	5
MINIMUM MISALIGNMENT ANGLE	Degree °	0	0	0	0	0	0	0	0	0
MAXIMUM PARALLEL SHAFT OFFSET (without expansion hub)	E mm	4	5	6	7	7	8	9	10	12
MAXIMUM SERVICE TEMPERATURE	°C	100	100	100	100	100	100	100	100	100
SERVICE LIFE		As per customer application								
DIMENSION ΦA	mm	244	272	292	336	376	420	462	504	548
DIMENSION B NOMINAL D.B.S.E.	mm	10	10	10	40	40	45	45	50	50
DIMENSION L (without expansion hub)	mm	182	186	206	220	246	260	274	290	306
BORE SIZES (up to maximum)	mm	60	70	80	90	105	120	130	150	160
	inch	2.5"	2.75"	3"	3.5"	4"	4.75"	5"	6"	6.25"
ALLOWABLE TORQUE (Dynamic & Unfactored)	N.m	4,753	6,527	11,270	17,905	26,275	38,053	52,195	69,462	125,440
UNFACTORED. POWER CAP (AT 600 RPM)	kW	160	250	320	520	770	1,100	1,500	2,000	2,830



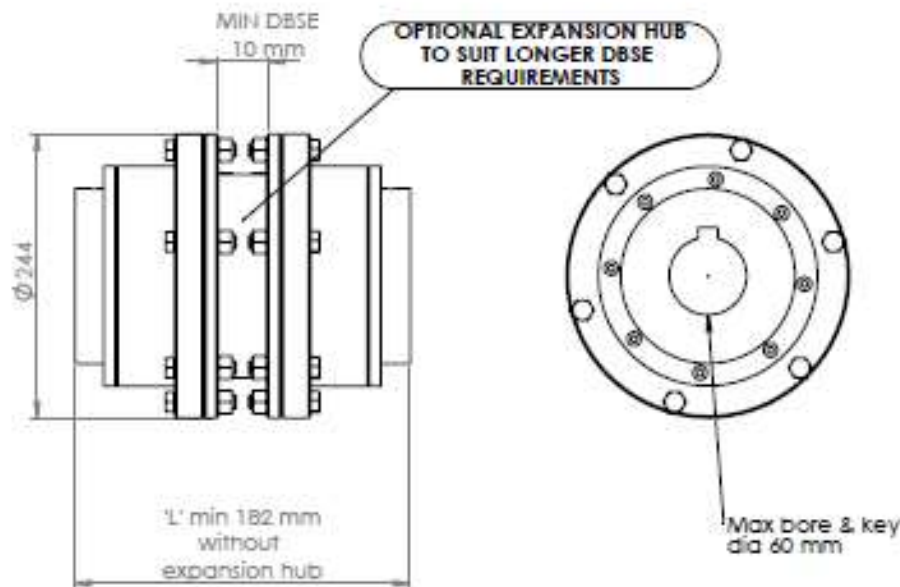
Rev.14
March 4th 2019

Thompson Coupling Alignment Eliminator (TCAE- 6-S) Technical Specifications and Details

Nominal Design Torque	4,753 Nm
Max. Torque	16,170 Nm
Max. Design Speed	2,200 RPM (depending on length of additional spacer unit)
Max. Misalignment Angle	5 degrees (total across input & output)
Min. Misalignment Angle *	0 degree
Allowable axial expansion	+/- 37 mm
Max. Service Temperature	100 degrees Celsius
Max shaft size	60 mm (internal bore size)
Mating keyway	To suit customer shaft
Swing Diameter	244 mm
Overall Length	To suit customer requirement
Distance between shaft ends	Additional spacer unit can be added for extra length to suit customer requirement
Weight	30 kgs (not including additional spacer)
Rotational moment of inertia	0.162 kg.m² (not including additional spacer)

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



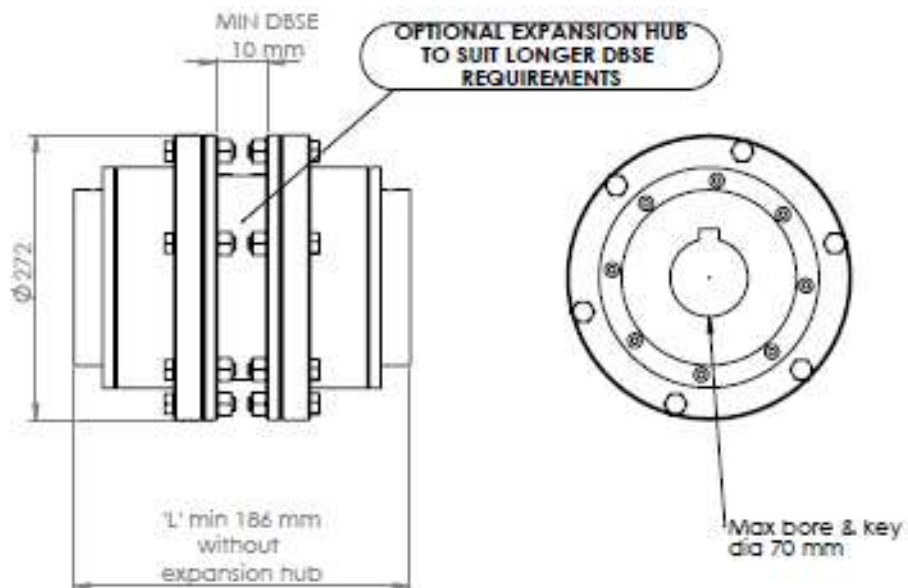
Dimensions and specifications subject to change without notice – Amended 30 OCT 2018

Thompson Coupling Alignment Eliminator (TCAE- 7-S) Technical Specifications and Details

Nominal Design Torque	6,527 Nm
Max. Torque	22,187 Nm
Max. Design Speed	2,000 RPM (depending on length of additional spacer unit)
Max. Misalignment Angle	5 degrees (total across input & output)
Min. Misalignment Angle *	0 degree
Allowable axial expansion	+/- 37 mm
Max. Service Temperature	100 degrees Celsius
Max shaft size	70 mm (internal bore size)
Mating keyway	To suit customer shaft
Swing Diameter	272 mm
Overall Length	To suit customer requirement
Distance between shaft ends	Additional spacer unit can be added for extra length to suit customer requirement
Weight	39 kgs (not including additional spacer)
Rotational moment of inertia	0.274 kg.m² (not including additional spacer)

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



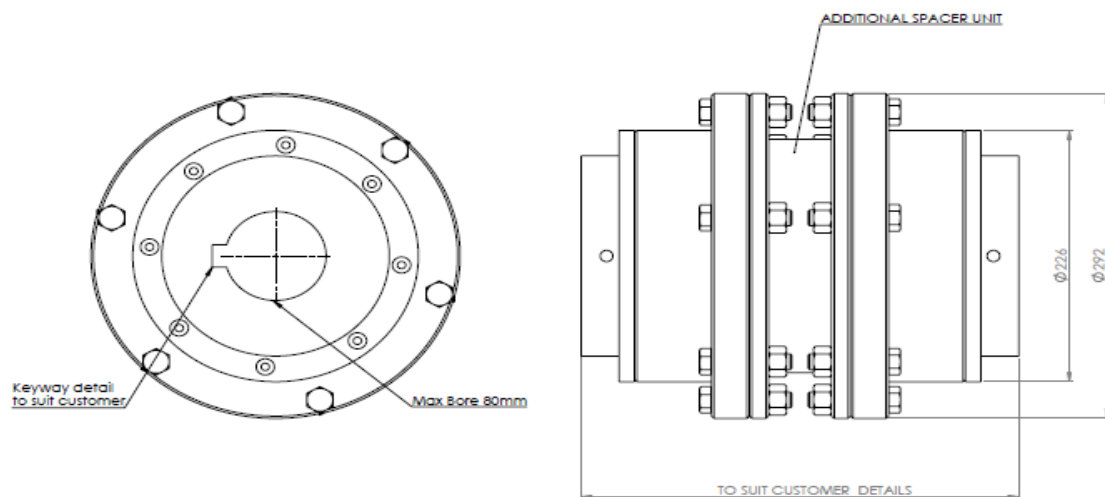
Dimensions and specifications subject to change without notice – Amended 30 OCT 2018

Thompson Coupling Alignment Eliminator (TCAE- 8-S) Technical Specifications and Details

Nominal Design Torque	11,270 Nm
Max. Torque	38,328 Nm
Max. Design Speed	1,800 RPM (depending on length of additional spacer unit)
Max. Misalignment Angle	5 degrees (total across input & output)
Min. Misalignment Angle *	0 degree
Allowable axial expansion	+/- 42 mm
Max. Service Temperature	100 degrees Celsius
Max shaft size	80 mm (internal bore size)
Mating keyway	To suit customer shaft
Swing Diameter	292 mm
Overall Length	To suit customer requirement
Distance between shaft ends	Additional spacer unit can be added for extra length to suit customer requirement
Weight	50 kgs (not including additional spacer)
Rotational moment of inertia	0.42 kg.m² (not including additional spacer)

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



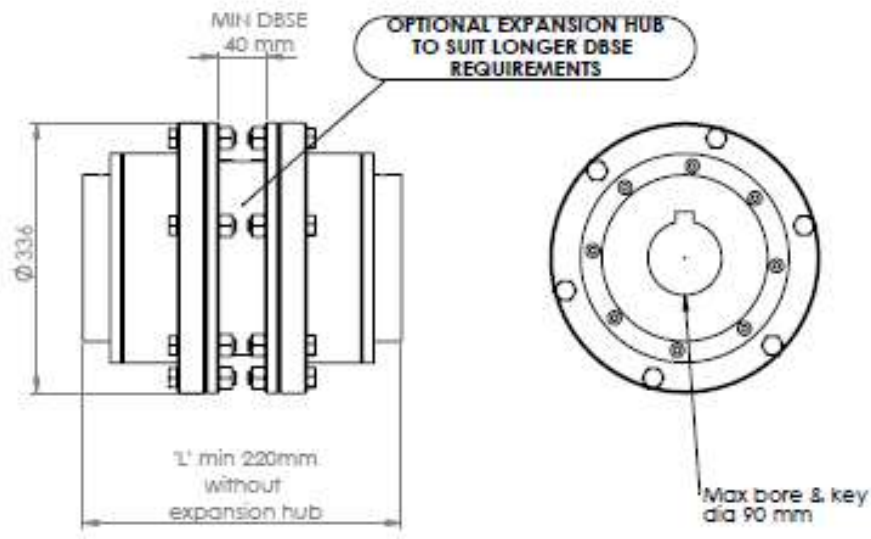
Dimensions and specifications subject to change without notice – Amended 10 Dec 2018

Thompson Coupling Alignment Eliminator (TCAE- 9-S) Technical Specifications and Details

Nominal Design Torque	17,905 Nm (unfactored, dynamic)
Max. Torque	60,868 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	1,500 RPM
Max. Misalignment Angle	5 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	Dependant on customer application
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 100 degrees Celsius
Connection details	To suit keyed shaft max diameter 90mm
Max Swing Diameter	336 mm
Overall Length	220 mm minimum. (see drawing)
Distance between shaft ends	40 mm minimum. (see drawing)
Axial expansion	+/- 41 mm
Weight	74 kg basic coupling without expansion hub
Rotational moment of inertia	0.815 kgm²

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



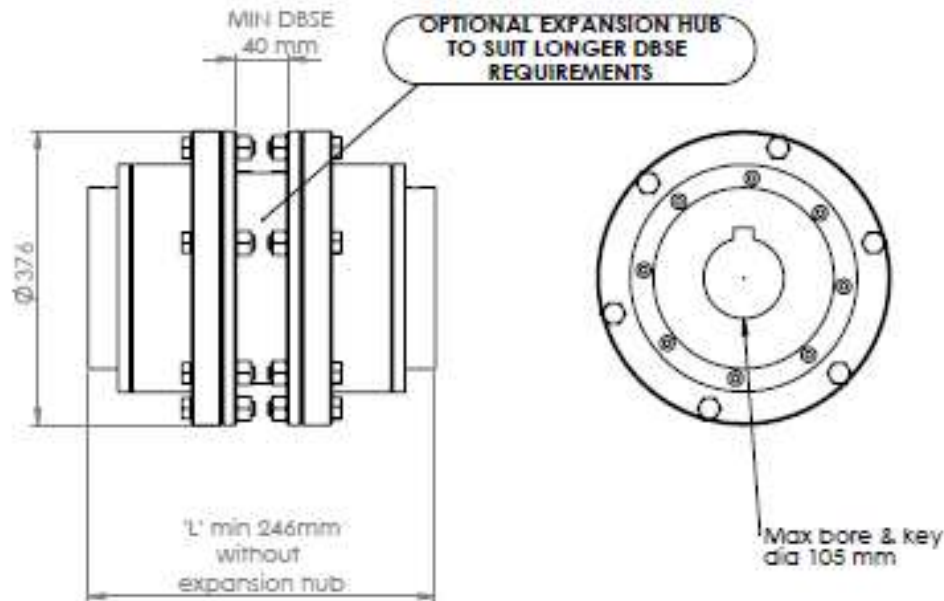
Dimensions and specifications subject to change without notice – Amended 5 Dec 2018

Thompson Coupling Alignment Eliminator (TCAE- 10-S) Technical Specifications and Details

Nominal Design Torque	26,725 Nm (unfactored, dynamic)
Max. Torque	90,856 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	1,300 RPM
Max. Misalignment Angle	5 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	Dependant on customer application
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 100 degrees Celsius
Connection details	To suit keyed shaft max diameter 105 mm
Max Swing Diameter	376 mm
Overall Length	246 mm minimum. (see drawing)
Distance between shaft ends	40 mm minimum. (see drawing)
Axial expansion	+/- 43 mm
Weight	103 kg basic coupling without expansion hub
Rotational moment of inertia	1.464 kgm²

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



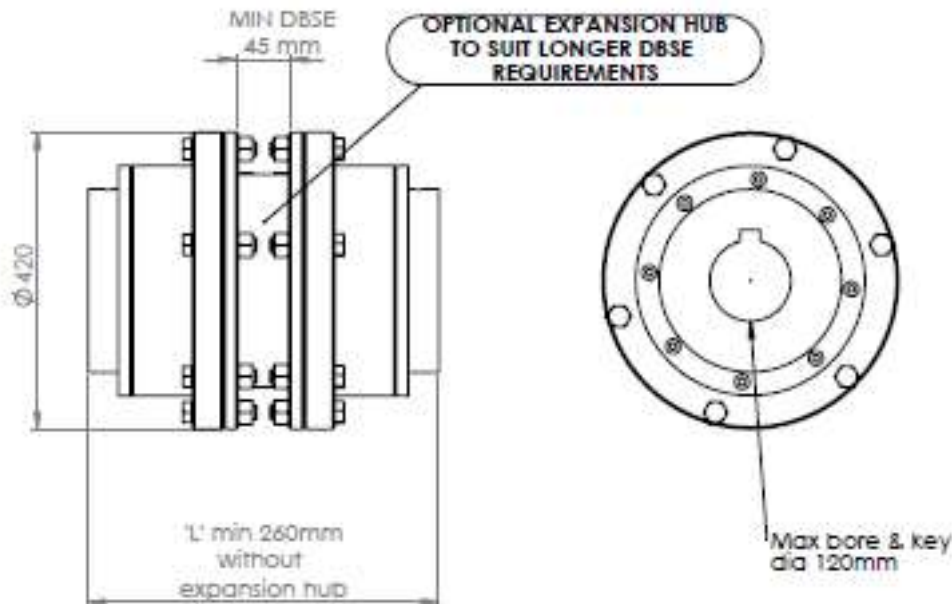
Dimensions and specifications subject to change without notice – Amended 5 Dec 2018

Thompson Coupling Alignment Eliminator (TCAE- 11-S) Technical Specifications and Details

Nominal Design Torque	38,053 Nm (unfactored, dynamic)
Max. Torque	129,360 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	1,200 RPM
Max. Misalignment Angle	5 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	Dependant on customer application
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 100 degrees Celsius
Connection details	To suit keyed shaft max diameter 120 mm
Max Swing Diameter	420 mm
Overall Length	260 mm minimum. (see drawing)
Distance between shaft ends	45 mm minimum. (see drawing)
Axial expansion	+/- 45 mm
Weight	137 kg basic coupling without expansion hub
Rotational moment of inertia	2.488 kgm²

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



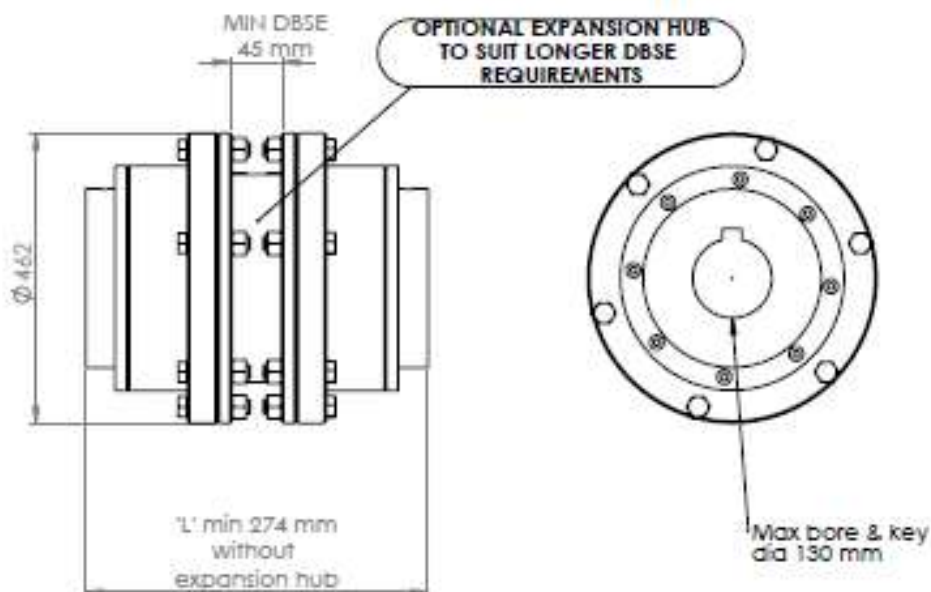
Dimensions and specifications subject to change without notice – Amended 5 Dec 2018

Thompson Coupling Alignment Eliminator (TCAE- 12-S) Technical Specifications and Details

Nominal Design Torque	52,195 Nm (unfactored, dynamic)
Max. Torque	177,449 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	1,100 RPM
Max. Misalignment Angle	5 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	Dependant on customer application
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 100 degrees Celsius
Connection details	To suit keyed shaft max diameter 130 mm
Max Swing Diameter	462 mm
Overall Length	274 mm minimum. (see drawing)
Distance between shaft ends	45 mm minimum. (see drawing)
Axial expansion	+/- 47 mm
Weight	181 kg basic coupling without expansion hub
Rotational moment of inertia	3.966 kgm²

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



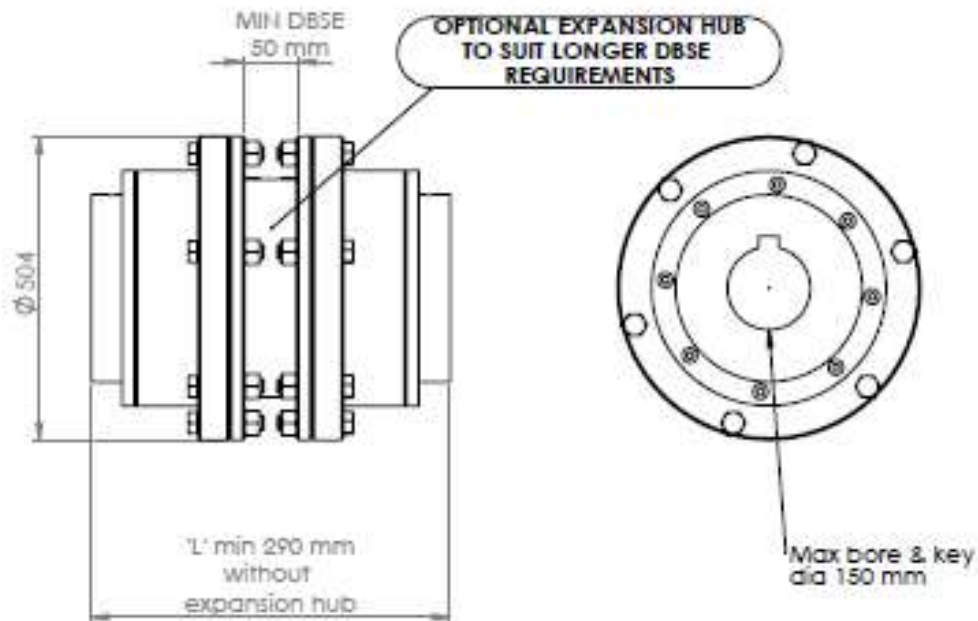
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Thompson Coupling Alignment Eliminator (TCAE- 13-S) Technical Specifications and Details

Nominal Design Torque	69,462 Nm (unfactored, dynamic)
Max. Torque	236,190 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	1,000 RPM
Max. Misalignment Angle	5 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	Dependant on customer application
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 100 degrees Celsius
Connection details	To suit keyed shaft max diameter 150 mm
Max Swing Diameter	504 mm
Overall Length	290 mm minimum. (see drawing)
Distance between shaft ends	50 mm minimum. (see drawing)
Axial expansion	+/- 51 mm
Weight	226 kg basic coupling without expansion hub
Rotational moment of inertia	6.101 kgm²

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



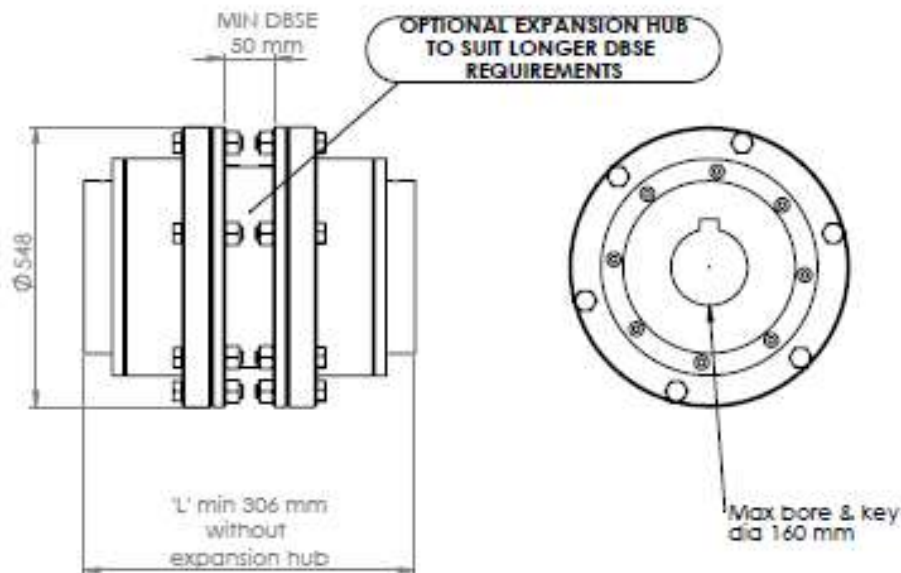
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Thompson Coupling Alignment Eliminator (TCAE- 14-S) Technical Specifications and Details

Nominal Design Torque	125,440 Nm (unfactored, dynamic)
Max. Torque	441,980 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	800 RPM
Max. Misalignment Angle	5 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	Dependant on customer application
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 100 degrees Celsius
Connection details	To suit keyed shaft max diameter 160 mm
Max Swing Diameter	548 mm
Overall Length	306 mm minimum. (see drawing)
Distance between shaft ends	50 mm minimum. (see drawing)
Axial expansion	+/- 51 mm
Weight	274 kg basic coupling without expansion hub
Rotational moment of inertia	9.213 kgm²

Notes:

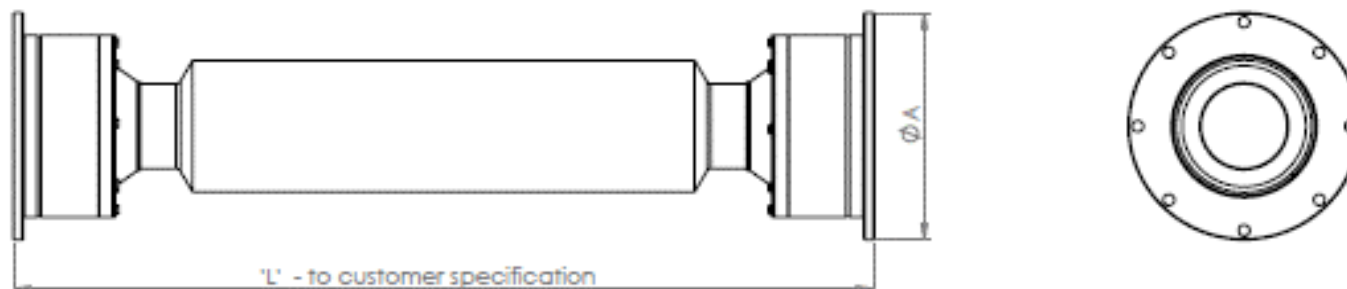
- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



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TCAE CM SERIES – TECHNICAL SPECIFICATIONS

PARAMETERS	UNIT	TCAE 1-CM	TCAE 2-CM	TCAE 3-CM	TCAE 4-CM	TCAE 5-CM	TCAE 6-CM	TCAE 7-CM	TCAE 8-CM	TCAE 9-CM	TCAE 10-CM	TCAE 11-CM	TCAE 12-CM	TCAE 13-CM	TCAE 14-CM
MAXIMUM MISALIGNMENT ANGLE	Degree °	12	12	12	12	12	10	10	10	10	10	10	10	10	8
MINIMUM MISALIGNMENT ANGLE	Degree °	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM PARALLEL SHAFT OFFSET	mm	dependant on customer length													
MAXIMUM SERVICE TEMPERATURE	°C	100	100	100	100	100	100	100	100	100	100	100	100	100	100
SERVICE LIFE	hrs	As per customer application													
DIMENSION ΦA	mm	152	177	215	236	270	244	272	292	336	376	420	462	504	548
DIMENSION L (minimum)	mm	600	600	700	800	800	550	590	680	740	810	900	1000	1070	1170
AXIAL EXPANSION	+/- mm	26	32	40	40	40	35	38	38	40	40	44	46	50	50
ALLOWABLE TORQUE (Dynamic & Unfactored)	N.m	882	1470	2891	4018	5880	7154	11172	14505	22932	34104	48510	66738	89082	115640
UNFACTORED. POWER CAP (AT 1440 RPM)	kW	35	72	125	188	308	320	500	640	1000	1500	2200	3000	3900	5600



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March 4th 2019

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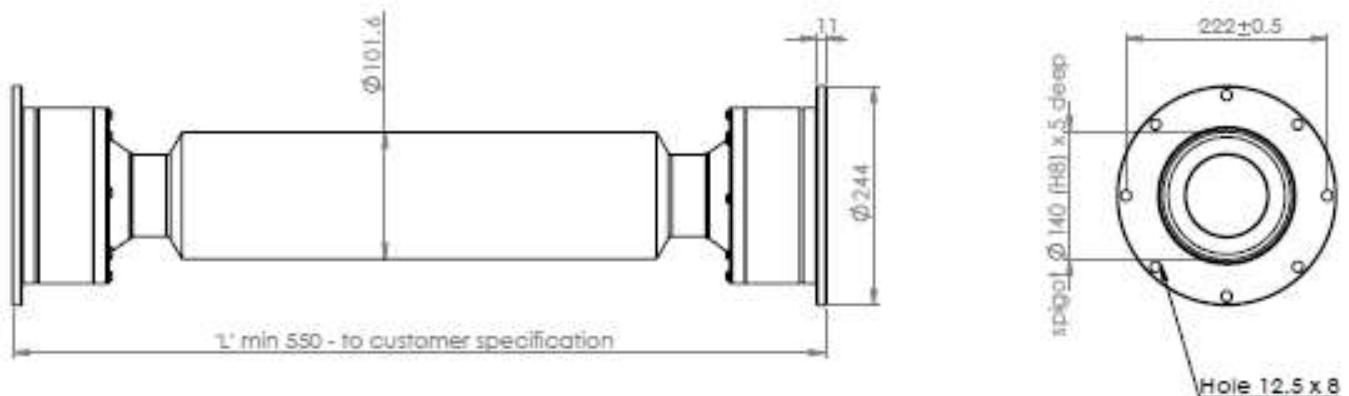
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Thompson Coupling Alignment Eliminator TCAE- 6-CM-(xxxx) Technical Specifications and Details

Nominal Design Torque	7,154Nm (unfactored, dynamic)
Max. Torque	29,694Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	2200 RPM
Max. Misalignment Angle	10 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	Dependant on customer application by shaft length
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 100 degrees Celsius
Connection details	244mm flange (see drawing)
Max Swing Diameter	244mm
Overall Length	550 mm Min (see drawing)
Axial expansion	+/- 35 mm
Weight	Dependant on customer application by shaft length
Rotational moment of inertia	Dependant on customer application by shaft length

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



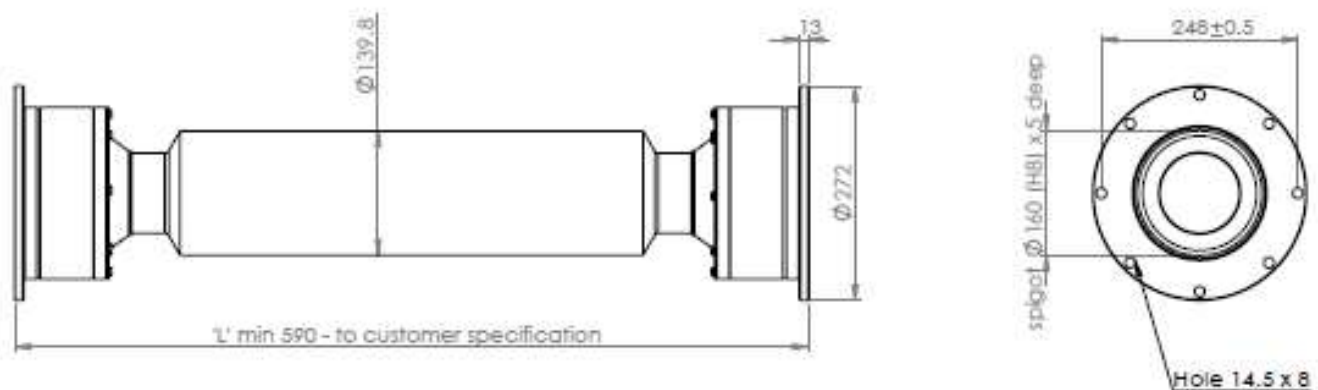
Dimensions and specifications subject to change without notice – Amended 6 Dec 2018

Thompson Coupling Alignment Eliminator TCAE- 7-CM-(xxxx) Technical Specifications and Details

Nominal Design Torque	11,172 Nm (unfactored, dynamic)
Max. Torque	41,846 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	2000 RPM
Max. Misalignment Angle	10 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	Dependant on customer application by shaft length
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 100 degrees Celsius
Connection details	272mm flange (see drawing)
Max Swing Diameter	272mm
Overall Length	590 mm Min (see drawing)
Axial expansion	+/- 38 mm
Weight	Dependant on customer application by shaft length
Rotational moment of inertia	Dependant on customer application by shaft length

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



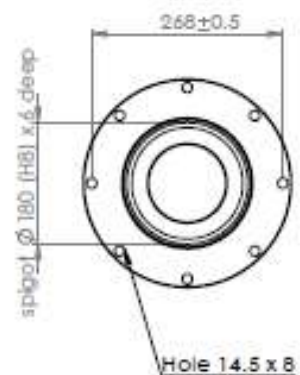
Dimensions and specifications subject to change without notice – Amended 6 Dec 2018

Thompson Coupling Alignment Eliminator TCAE- 8-CM-(xxxx) Technical Specifications and Details

Nominal Design Torque	14,505 Nm (unfactored, dynamic)
Max. Torque	61,250 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	1800 RPM
Max. Misalignment Angle	10 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	Dependant on customer application by shaft length
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 100 degrees Celsius
Connection details	292mm flange (see drawing)
Max Swing Diameter	292mm
Overall Length	680 mm Min (see drawing)
Axial expansion	+/- 38 mm
Weight	Dependant on customer application by shaft length
Rotational moment of inertia	Dependant on customer application by shaft length

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



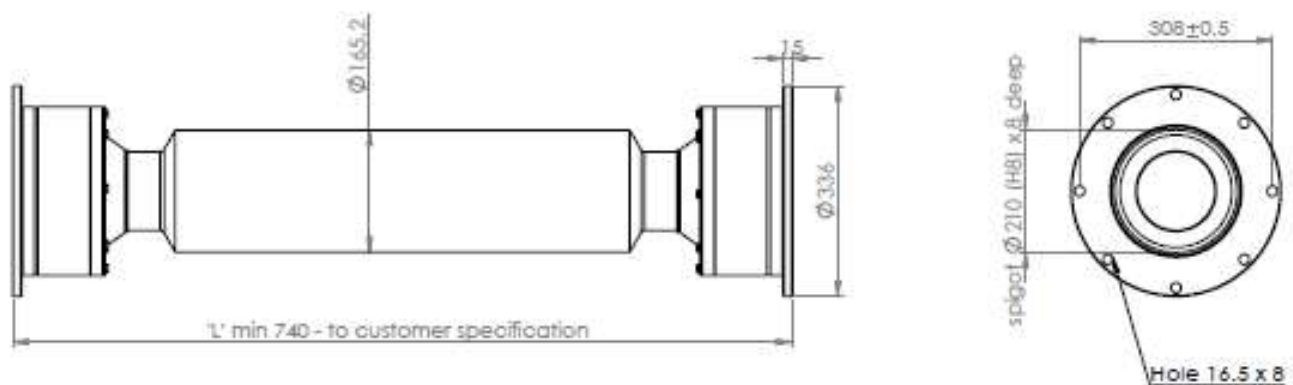
Dimensions and specifications subject to change without notice – Amended 6 Dec 2018

Thompson Coupling Alignment Eliminator TCAE- 9-CM-(xxxx) Technical Specifications and Details

Nominal Design Torque	22,932 Nm (unfactored, dynamic)
Max. Torque	92,022 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	1600 RPM
Max. Misalignment Angle	10 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	Dependant on customer application by shaft length
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 100 degrees Celsius
Connection details	336mm flange (see drawing)
Max Swing Diameter	336mm
Overall Length	740 mm Min (see drawing)
Axial expansion	+/- 40 mm
Weight	Dependant on customer application by shaft length
Rotational moment of inertia	Dependant on customer application by shaft length

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



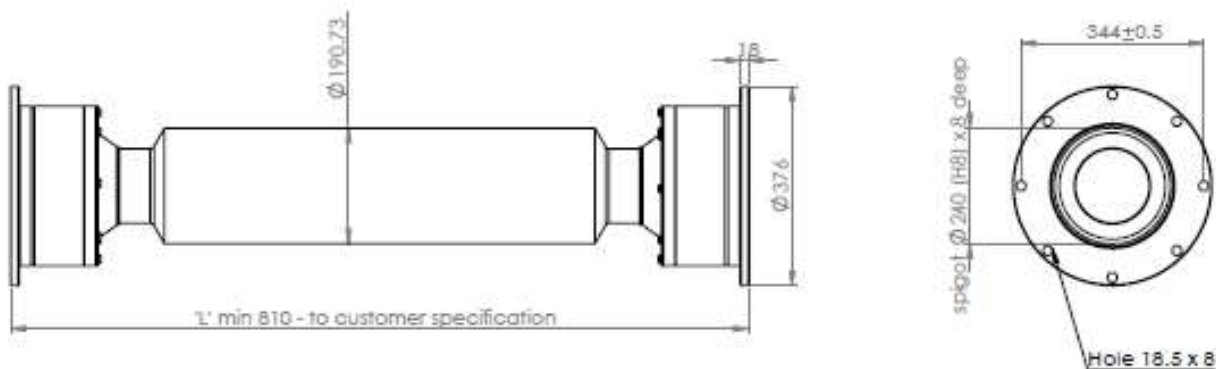
Dimensions and specifications subject to change without notice – Amended 6 Dec 2018

Thompson Coupling Alignment Eliminator TCAE- 10-CM-(xxxx) Technical Specifications and Details

Nominal Design Torque	34,104 Nm (unfactored, dynamic)
Max. Torque	142,100 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	1300 RPM
Max. Misalignment Angle	10 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	Dependant on customer application by shaft length
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 100 degrees Celsius
Connection details	376mm flange (see drawing)
Max Swing Diameter	376mm
Overall Length	810 mm Min (see drawing)
Axial expansion	+/- 40 mm
Weight	Dependant on customer application by shaft length
Rotational moment of inertia	Dependant on customer application by shaft length

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



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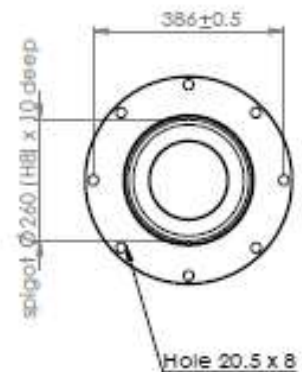
Thompson Coupling Alignment Eliminator TCAE- 11-CM-(xxxx)

Technical Specifications and Details

Nominal Design Torque	48,510 Nm (unfactored, dynamic)
Max. Torque	187,180 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	1200 RPM
Max. Misalignment Angle	10 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	Dependant on customer application by shaft length
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 100 degrees Celsius
Connection details	420mm flange (see drawing)
Max Swing Diameter	420mm
Overall Length	900 mm Min (see drawing)
Axial expansion	+/- 44 mm
Weight	Dependant on customer application by shaft length
Rotational moment of inertia	Dependant on customer application by shaft length

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



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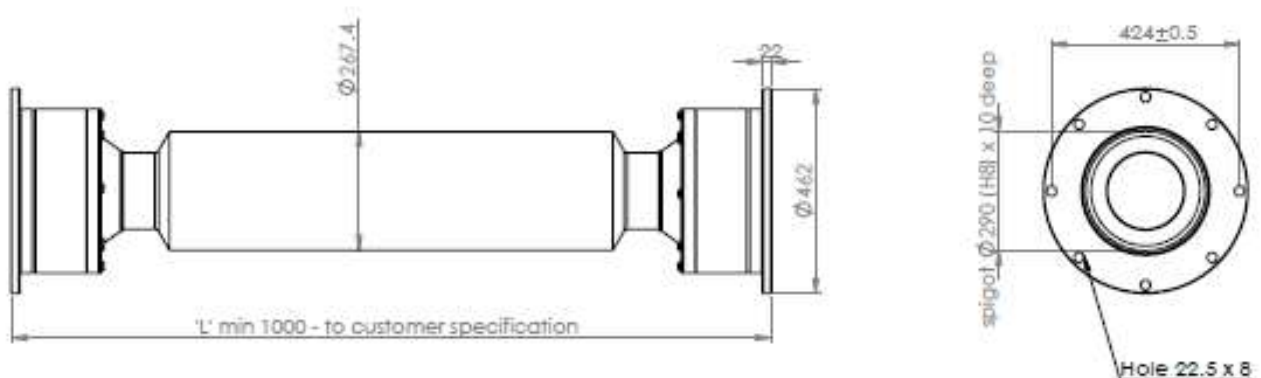
Thompson Coupling Alignment Eliminator TCAE- 12-CM-(xxxx)

Technical Specifications and Details

Nominal Design Torque	66,738 Nm (unfactored, dynamic)
Max. Torque	259,700 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	1100 RPM
Max. Misalignment Angle	10 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	Dependant on customer application by shaft length
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 100 degrees Celsius
Connection details	462mm flange (see drawing)
Max Swing Diameter	462mm
Overall Length	1000 mm Min (see drawing)
Axial expansion	+/- 46 mm
Weight	Dependant on customer application by shaft length
Rotational moment of inertia	Dependant on customer application by shaft length

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



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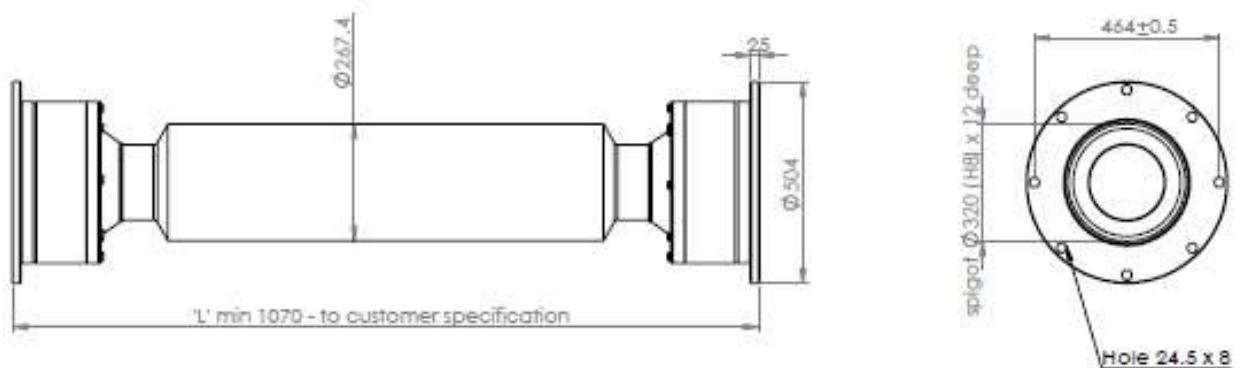
Thompson Coupling Alignment Eliminator TCAE- 13-CM-(xxxx)

Technical Specifications and Details

Nominal Design Torque	89,082 Nm (unfactored, dynamic)
Max. Torque	343,000 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	1000 RPM
Max. Misalignment Angle	10 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	Dependant on customer application by shaft length
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 100 degrees Celsius
Connection details	504mm flange (see drawing)
Max Swing Diameter	504mm
Overall Length	1070 mm Min (see drawing)
Axial expansion	+/- 50 mm
Weight	Dependant on customer application by shaft length
Rotational moment of inertia	Dependant on customer application by shaft length

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



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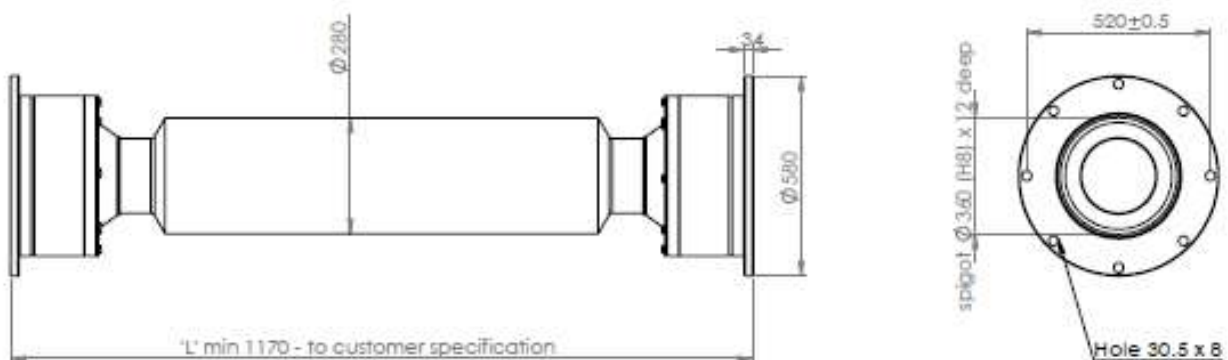
Thompson Coupling Alignment Eliminator TCAE- 14-CM-(xxxx)

Technical Specifications and Details

Nominal Design Torque	115,640 Nm (unfactored, dynamic)
Max. Torque	618,380 Nm (unfactored, non-reversing with minimal stop/starts)
Max. Design Speed	800 RPM
Max. Misalignment Angle	8 degrees (total across input & output)
Min. Misalignment Angle	0 degree
Max. Parallel shaft offset	Dependant on customer application by shaft length
L₁₀ bearing life ⁽¹⁾	Contact us for your specific application
Max. Service Temperature	Up to 100 degrees Celsius
Connection details	580mm flange (see drawing)
Max Swing Diameter	580mm
Overall Length	1170 mm Min (see drawing)
Axial expansion	+/- 50 mm
Weight	Dependant on customer application by shaft length
Rotational moment of inertia	Dependant on customer application by shaft length

Notes:

- (1) Actual bearing life depends upon a combination of factors. These include equivalent speed, torque and articulated angle. Additionally, shock loads, and environmental conditions may also affect life ratings.
- (2) The Coupling can be laser aligned when initially installed but as it can handle axial, or parallel, or angular, or combination of any of these in misalignment, it does not need aligning after installation.
- (3) The coupling does not need maintenance, or lubrication once installed.



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