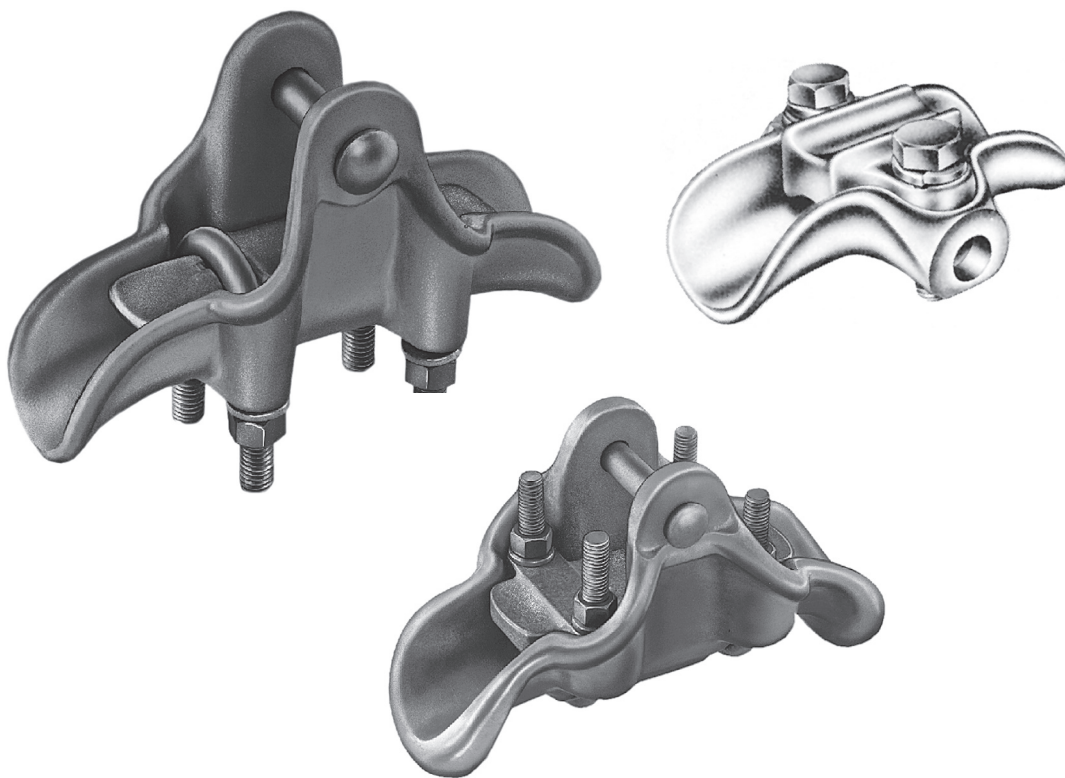


## Suspension Clamps



performance



# Suspension Clamps Index

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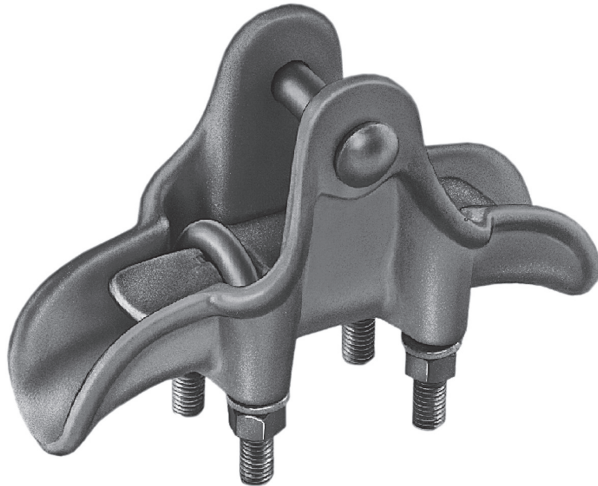


# Suspension Clamps — Aluminum

## Aluminum Clamp

For standard voltage application with all aluminum, ACSR, or aluminum alloy conductor. See Catalog Reference section for maximum conductor temperature guidelines.

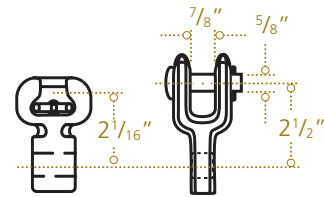
**Material:** Body and Keeper – aluminum alloy  
 Hardware – galvanized steel  
 Socket and Clevis – galvanized ductile iron  
 Cotter Pin – stainless steel



ALUMINUM

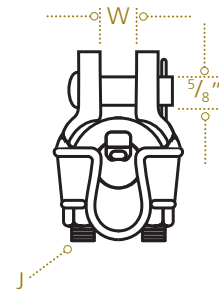
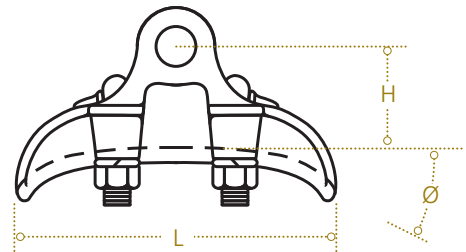
HAS

B  
1



Socket  
Type SA

Clevis  
Type CA



# Suspension Clamps — Aluminum

B  
2

Product Data										
Catalog Number	Fitting		Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Max Take-Off Angle	Dimensions Inches (mm)				Approx Wt Each lb (kg)
	Type	Cat No				L	W	H	J	
HAS62N HAS62S HAS62C	None Socket Clevis	— SA04 CA04	.20-.62 (5.08-15.75)	17,000 (76)	30°	6 <sup>3</sup> / <sub>4</sub> (171.45)	2 <sup>9</sup> / <sub>32</sub> (23.02)	2 <sup>9</sup> / <sub>32</sub> (57.94)	1/2 (12.70)	1.9 (.86) 3.2 (1.45) 3.5 (1.59)
HAS85N HAS85S HAS85C	None Socket Clevis	— SA06 CA06	.40-.85 (10.16-21.59)	18,000 (80)	30°	7 <sup>1</sup> / <sub>2</sub> (190.50)	1 <sup>5</sup> / <sub>16</sub> (23.81)	2 <sup>9</sup> / <sub>16</sub> (65.09)	1/2 (12.70)	2.1 (.95) 3.4 (1.54) 3.8 (1.72)
HAS104N HAS104S HAS104C	None Socket Clevis	— SA10 CA101	.50-1.04 (12.70-26.42)	25,000 (111)	30°	8 <sup>7</sup> / <sub>8</sub> (206.38)	1 <sup>5</sup> / <sub>32</sub> (29.37)	2 <sup>3</sup> / <sub>4</sub> (69.85)	1/2 (12.70)	2.5 (1.13) 3.9 (1.77) 4.2 (1.91)
HAS118N HAS118S HAS118C	None Socket Clevis	— SA10 CA101	.70-1.18 (17.78-29.97)	25,000 (111)	22.5°	8 (203.20)	1 <sup>11</sup> / <sub>32</sub> (34.13)	2 <sup>3</sup> / <sub>4</sub> (69.85)	1/2 (12.70)	2.8 (1.27) 4.2 (1.91) 4.5 (2.04)
HAS139N HAS139S HAS139C	None Socket Clevis	— SA13 CA13	.90-1.39 (22.86-35.31)	25,000 (111)	22.5°	8 <sup>7</sup> / <sub>8</sub> (225.43)	1 <sup>17</sup> / <sub>32</sub> (38.89)	3 (76.20)	1/2 (12.70)	3.2 (1.45) 4.9 (2.22) 5.0 (2.27)
HAS147N HAS147S HAS147C	None Socket Clevis	— SA13 CA13	1.00-1.47 (25.40-37.34)	25,000 (111)	22.5°	9 <sup>9</sup> / <sub>16</sub> (233.36)	1 <sup>9</sup> / <sub>16</sub> (39.69)	3 <sup>1</sup> / <sub>8</sub> (79.38)	1/2 (12.70)	3.5 (1.59) 5.2 (2.36) 5.3 (2.40)
HAS162N HAS162S HAS162C	None Socket Clevis	— SA13 CA13	1.10-1.62 (27.94-41.15)	25,000 (111)	22.5°	9 <sup>1</sup> / <sub>2</sub> (241.30)	1 <sup>13</sup> / <sub>16</sub> (46.04)	3 <sup>5</sup> / <sub>64</sub> (78.18)	1/2 (12.70)	3.8 (1.72) 5.5 (2.49) 5.6 (2.54)
HAS182N HAS182S HAS182C	None Socket Clevis	— SA16 CA16	1.25-1.82 (31.75-46.23)	25,000 (111)	25°	10 (254)	1 <sup>15</sup> / <sub>16</sub> (49.21)	3 <sup>3</sup> / <sub>8</sub> (85.73)	1/2 (12.70)	5.0 (2.27) 6.8 (3.08) 7.0 (3.18)
HAS204N HAS204S HAS204C	None Socket Clevis	— SA16 CA16	1.40-2.04 (35.56-51.82)	25,000 (111)	20.5°	10 <sup>1</sup> / <sub>2</sub> (266.70)	2 <sup>11</sup> / <sub>64</sub> (55.17)	3 <sup>17</sup> / <sub>32</sub> (89.69)	1/2 (12.70)	4.9 (2.22) 6.7 (3.04) 6.9 (3.13)
HAS213N HAS213S HAS213C	None Socket Clevis	— SA16 CA16	1.40-2.13 (35.56-54.10)	25,000 (111)	22°	10 <sup>1</sup> / <sub>2</sub> (266.70)	2 <sup>1</sup> / <sub>4</sub> (57.15)	3 <sup>5</sup> / <sub>8</sub> (92.08)	5/8 (15.88)	6.0 (2.72) 7.8 (3.54) 8.0 (3.63)
HAS252N HAS252S HAS252C	None Socket Clevis	SA22 CA22	2.00-2.52 (50.80-64.01)	30,000 (133) 30,000 (133) 25,000 (111)	17.5°	12 (304.80)	2 <sup>11</sup> / <sub>16</sub> (68.26)	4 <sup>1</sup> / <sub>4</sub> (107.95)	5/8 (15.88)	9.0 (4.08) 10.8 (4.90) 11.3 (5.13)

**NOTE:** Recommended torque on U-bolts: 1/2" — 480 in-lb 5/8" — 720 in-lb. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

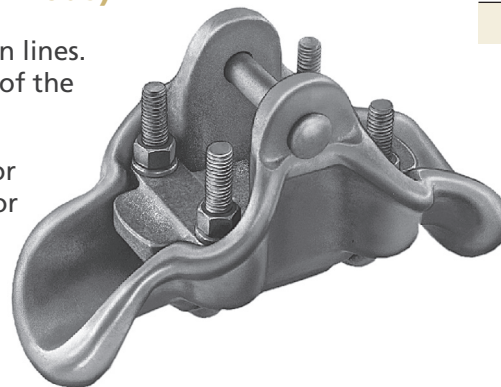
# Suspension Clamps — Aluminum

## Corona Free Clamp (For Use with Armor Rods)

Designed for use on extra-high voltage transmission lines. Corona and RIV are controlled through the design of the clamp, thus eliminating the need for control rings.

Type CFS is recommended for all aluminum, ACSR or aluminum alloy conductors with straight, tapered or formed armor rods. See Catalog Reference section for maximum conductor temperature guidelines.

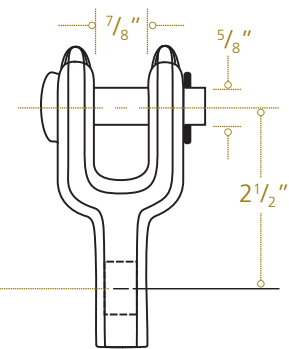
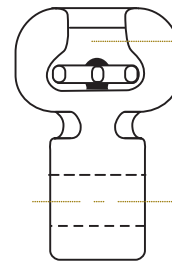
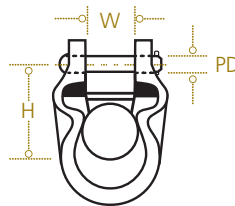
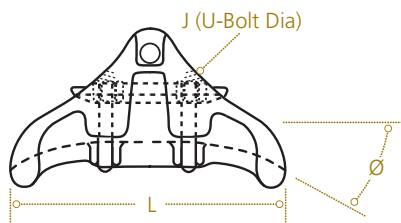
**Material:** Body and Keeper – aluminum alloy  
 Hardware – galvanized steel  
 Socket and Clevis – galvanized ductile iron  
 Cotter Pin – stainless steel  
 Grommet – neoprene



ALUMINUM

CFS

B  
3



Socket Type SA

Clevis Type CA

### Product Data

Catalog Number	Fitting		Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Max Take-Off Angle <sup>(1)</sup>	Dimensions Inches (mm)					Approx Wt Each lb (kg)
	Type	Cat No				L	W	H	J	PD	
CFS182N CFS182S CFS182C	None Socket Clevis	— SA16 CA16	1.55-1.82 (39.4-46.2)	25,000 (111)	17 1/2°	10 (254)	2 1/16 (52.4)	3 1/4 (82.5)	1/2 (12.7)	5/8 (15.9)	4.5 (2.04) 6.3 (2.86) 6.3 (2.86)
CFS204N CFS204S CFS204C	None Socket Clevis	— SA16 CA16	1.73-2.04 (43.94-51.82)	25,000 (111)	17 1/2°	10 1/2 (266)	2 7/32 (56.4)	3 1/2 (88.9)	1/2 (12.7)	5/8 (15.9)	5.0 (2.27) 6.8 (3.08) 6.8 (3.08)
CFS213N CFS213S CFS213C	None Socket Clevis	— SA16 CA16	1.80-2.13 (45.72-54.10)	25,000 (111)	17 1/2°	11 (279.40)	2 5/16 (58.74)	3 3/8 (92.08)	5/8 (15.9)	5/8 (15.9)	6.2 (2.81) 8.0 (3.63) 8.0 (3.63)
CFS252N CFS252S CFS252C	None Socket Clevis	— SA22 CA22	2.14-2.52 (54.36-64.01)	30,000 (133) 30,000 (133) 25,000 (111)	20°	12 (305)	2 11/16 (68.26)	4 1/2 (114.3)	5/8 (15.9)	5/8 (15.9)	6.2 (2.81) 8.0 (3.63) 8.0 (3.63)
CFS280N CFS280S CFS280C	None Socket Clevis	— SA2613 CA2413	2.29-2.80 (58.17-71.12)	36,000 (160) 30,000 (133) 25,000 (111)	20°	14 (355)	3 (76.2)	5 1/32 (127)	5/8 (15.9)	3/4 (19.1)	11.4 (5.17) 14.3 (6.46) 14.4 (6.51)

**NOTE:** Recommended torque on U-bolts: 1/2" — 480 in-lb, 5/8" — 720 in-lb. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

(1) For larger angles, a special corona free angle clamp is available. For information on special clamps, contact factory.

# Suspension Clamps — Aluminum

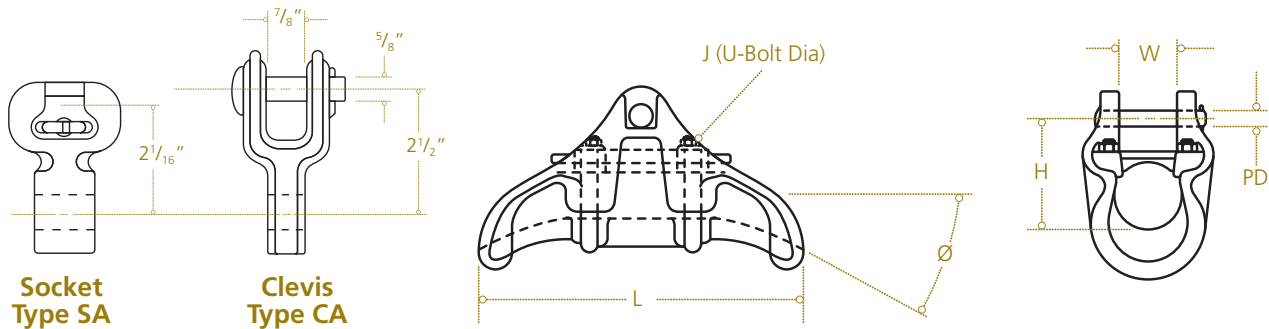
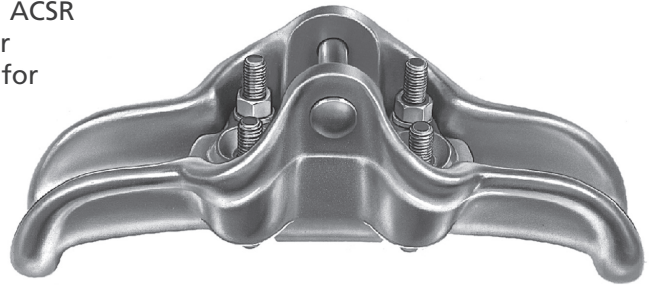
## Corona Free Clamp (For Use without Armor Rods)

**ALUMINUM**  
**CFS (LONG)**

Designed for use on extra-high voltage transmission lines. Corona and RIV are controlled through the design of the clamp, thus eliminating the need for control rings.

Type CFS (Long) is recommended for all aluminum, ACSR or aluminum alloy conductor. Maximum conductor temperature 130 C. See Catalog Reference section for maximum conductor temperature guidelines.

**Material:** Body and Keeper – aluminum alloy  
Hardware – galvanized steel  
Socket and Clevis – galvanized ductile iron  
Cotter Pin – stainless steel  
Grommet – neoprene



### Product Data

atalog Number	Fitting		Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Max Take-Off Angle <sup>(1)</sup>	Dimensions Inches (mm)					Approx Wt Each lb (kg)
	Type	Cat No				L	W	H	J	PD	
CFS11810N CFS11810S CFS11810C	None Socket Clevis	— SA10 CA101	1.0-1.20 (25.40-30.48)	25,000 (111)	17 ½°	10 (254)	1 5/16 (33.34)	2 1/2 (63.50)	1/2 (12.70)	5/8 (15.88)	4.0 (1.81) 5.4 (2.45) 5.7 (2.59)
CFS139105N CFS139105S CFS139105C	None Socket Clevis	— SA13 CA13	1.18-1.39 (29.97-35.31)	25,000 (111)	17 ½°	10-1/2 (266.70)	1 7/32 (38.89)	2 7/8 (73.03)	1/2 (12.70)	5/8 (15.88)	4.7 (2.13) 6.4 (2.90) 6.5 (2.94)
CFS14711N CFS14711S CFS14711C	None Socket Clevis	— SA13 CA13	1.25-1.47 (31.75-37.34)	25,000 (111)	17 ½°	11 (279.40)	1 5/8 (41.28)	3 3/16 (80.96)	1/2 (12.70)	5/8 (15.88)	5.2 (2.36) 6.9 (3.13) 7.0 (3.17)
CFS16212N CFS16212S CFS16212C	None Socket Clevis	— SA13 CA13	1.38-1.62 (35.05-41.15)	25,000 (111)	17 ½°	12 (304.80)	1 3/4 (44.45)	3 1/4 (82.55)	1/2 (12.70)	5/8 (15.88)	5.5 (2.49) 7.2 (3.27) 7.3 (3.31)
CFS18214N CFS18214S CFS18214C	None Socket Clevis	— SA16 CA16	1.55-1.82 (39.37-46.23)	25,000 (111)	17 ½°	14 (355.60)	1 31/32 (50.01)	3 1/4 (82.55)	1/2 (12.70)	5/8 (15.88)	6.5 (2.95) 8.3 (3.76) 8.5 (3.86)

**NOTE:** Recommended torque on U-bolts; 1/2" — 480 in-lb. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

(1) For larger angles a special corona free angle clamp is available. For information on special clamps, contact factory.



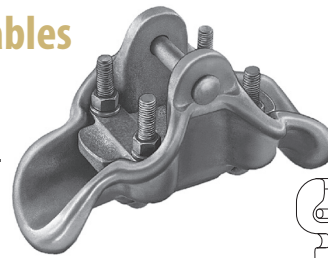
# Suspension Clamps — Aluminum

## Corona Free Clamp for High Temperature Cables (For Use with Armor Rods)

Designed for use on extra-high voltage transmission lines. Corona and RIV are controlled through the design of the clamp, thus eliminating the need for control rings.

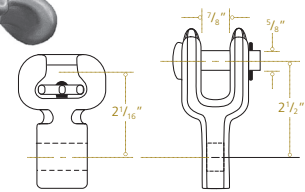
Type CFSHT is designed for use on conductors operating at continuous temperatures up to 250° C. Armor rods or line guards required on conductors with continuous temperatures exceeding 200° C.

**Material:** Clamp Body – high-temperature aluminum alloy  
 Keeper – aluminum alloy  
 Hardware – galvanized steel  
 Socket and Clevis – galvanized ductile iron  
 Cotter Pin – stainless steel  
 Grommet – neoprene

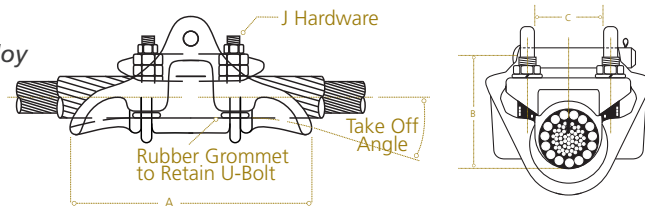


ALUMINUM

CFSHT



Socket Type SA    Socket Type CA



### Product Data

Catalog Number	Fitting		Clamping Range Inches (mm)	Ultimate Strength lb (kN)	Max Take-Off Angle <sup>(1)</sup>	Dimensions Inches (mm)					Approx Wt Each lb (kg)
	Type	Cat No				A	B	C	PD	J	
CFSHT120N	None	—		25,000 (111)							5.0 (2.27)
CFSHT120S	Socket	SA10	0.90-1.22 (22.86-30.99)	25,000 (111)	17.5°	9.15 (232.4)	2.52 (64.0)	1.42 (36.07)	.62 (15.88)	.50 (12.70)	7.1 (3.22)
CFSHT120C	Clevis	CA101		25,000 (111)							7.1 (3.22)
CFSHT139N	None	—		25,000 (111)							5.6 (2.54)
CFSHT139S	Socket	SA13	1.18-1.39 (29.97-35.31)	25,000 (111)	17.5°	9.45 (240.03)	3.00 (76.2)	1.63 (41.40)	.62 (15.88)	.50 (12.70)	7.6 (3.44)
CFSHT139C	Clevis	CA13		25,000 (111)							7.6 (3.44)
CFSHT182N	None	—		30,000 (133)							6.9 (3.13)
CFSHT182S	Socket	SA16	1.55-1.82 (39.37-46.23)	30,000 (133)	17.5°	10.19 (258.83)	3.34 (84.84)	2.03 (51.56)	.62 (15.88)	.50 (12.70)	9.0 (4.08)
CFSHT182C	Clevis	CA16		25,000 (111)							9.0 (4.08)
CFSHT213N	None	—		30,000 (133)							8.9 (4.04)
CFSHT213S	Socket	SA20	1.80-2.13 (45.72-54.10)	30,000 (133)	17.5°	11.75 (298.45)	3.62 (91.95)	2.39 (60.70)	.62 (15.88)	.50 (12.70)	10.7 (4.86)
CFSHT213C	Clevis	CA16		25,000 (111)							10.7 (4.86)
CFSHT252N	None	—		30,000 (133)							11.0 (5.0)
CFSHT252S	Socket	SA24	2.14-2.52 (54.36-64.01)	30,000 (133)	20°	12.75 (323.85)	4.02 (102.1)	2.79 (70.87)	.62 (15.88)	.50 (12.70)	12.9 (5.86)
CFSHT252C	Clevis	CA24		25,000 (111)							13.3 (6.04)

**NOTE:** Recommended torque on U-bolts: 1/2" — 480 in-lb, 5/8" — 720 in-lb. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

(1) For larger angles, a special corona free angle clamp is available. For information on special clamps, contact factory.



In addition to industry standard markings for connectors, CFSHT suspension clamps are permanently marked with the IEC standard symbol for hot surface, allowing construction inspectors to easily verify that the installed clamps

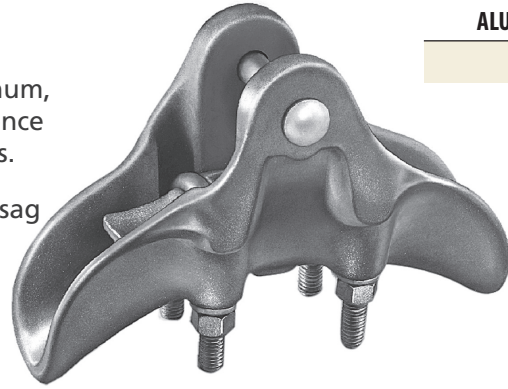
# Suspension Clamps — Aluminum

## Angle Clamp

For standard voltage angle construction with all aluminum, ACSR, or aluminum alloy conductor. See Catalog Reference section for maximum conductor temperature guidelines.

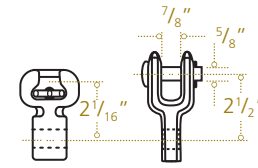
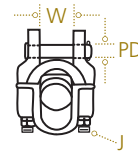
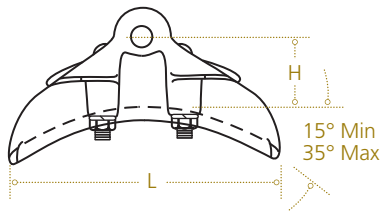
Designed for use in turning angles up to 70° (including sag and turn angle).

**Material:** Body and Keeper – aluminum alloy  
 Hardware – galvanized steel  
 Socket and Clevis – galvanized ductile iron  
 Cotter Pin – stainless steel



ALUMINUM

HAC



Socket Type SA    Clevis Type CA

### Product Data

Catalog Number	Fitting		Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Dimensions Inches (mm)					Approx Wt Each lb (kg)
	Type	Cat No			L	W	H	J	PD	
HAC118N	None	—		35,000 (156)						3.6 (1.63)
HAC118S	Socket	SA10	1.00-1.18 (25.40-29.97)	30,000 (133)	9 <sup>7</sup> / <sub>8</sub> (250.83)	1 <sup>9</sup> / <sub>32</sub> (32.54)	2 <sup>3</sup> / <sub>4</sub> (69.85)	1 <sup>1</sup> / <sub>2</sub> (12.70)	5 <sup>5</sup> / <sub>8</sub> (15.88)	5.0 (2.27)
HAC118C	Clevis	CA101		25,000 (111)						5.3 (2.40)
HAC147N	None	—		35,000 (156)						4.0 (1.81)
HAC147S	Socket	SA13	1.25-1.47 (31.75-37.34)	30,000 (133)	9 <sup>3</sup> / <sub>4</sub> (247.65)	1 <sup>11</sup> / <sub>16</sub> (42.86)	3 <sup>1</sup> / <sub>4</sub> (82.55)	1 <sup>1</sup> / <sub>2</sub> (12.70)	5 <sup>5</sup> / <sub>8</sub> (15.88)	5.7 (2.59)
HAC147C	Clevis	CA13		25,000 (111)						5.8 (2.63)
HAC182N	None	—		40,000 (178)						4.8 (2.18)
HAC182S	Socket	SA1613	1.55-1.82 (39.37-46.23)	30,000 (133)	10 <sup>7</sup> / <sub>8</sub> (257.18)	2 <sup>1</sup> / <sub>32</sub> (51.59)	3 <sup>1</sup> / <sub>2</sub> (88.90)	1 <sup>1</sup> / <sub>2</sub> (12.70)	3 <sup>3</sup> / <sub>4</sub> (19.05)	6.6 (3.02)
HAC182C	Clevis	CA1613		25,000 (111)						6.8 (3.08)
HAC204N	None	—		40,000 (178)						5.6 (2.54)
HAC204S	Socket	SA1613	1.73-2.04 (43.94-51.82)	30,000 (133)	11 <sup>1</sup> / <sub>4</sub> (285.75)	2 <sup>11</sup> / <sub>64</sub> (55.17)	3 <sup>1</sup> / <sub>2</sub> (88.90)	1 <sup>1</sup> / <sub>2</sub> (12.70)	3 <sup>3</sup> / <sub>4</sub> (19.05)	7.4 (3.36)
HAC204C	Clevis	CA1613		25,000 (111)						7.6 (3.45)
HAC213N	None	—		40,000 (178)						6.0 (2.72)
HAC213S	Socket	SA1613	1.81-2.13 (45.97-54.10)	30,000 (133)	11 <sup>1</sup> / <sub>4</sub> (285.75)	2 <sup>1</sup> / <sub>4</sub> (57.15)	3 <sup>3</sup> / <sub>4</sub> (95.25)	5 <sup>5</sup> / <sub>8</sub> (15.88)	3 <sup>3</sup> / <sub>4</sub> (19.05)	7.9 (3.58)
HAC213C	Clevis	CA1613		25,000 (111)						8.0 (3.63)

**NOTE:** Recommended torque on U-bolts: 1/2" — 480 in-lb; 5/8" — 720 in-lb. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

# Suspension Clamps — Aluminum

## Trunnion Clamp

ALUMINUM

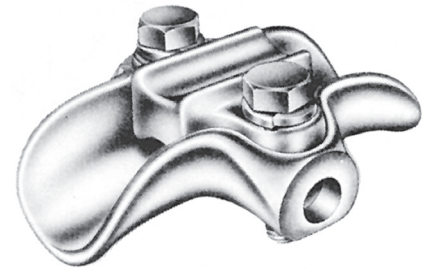
TSC

For standard voltage applications with AAC, ACSR or AAAC conductor. See Catalog Reference section for maximum conductor temperature guidelines.

Designed for use on tangent suspension spans with horizontal or vertical post insulators.

Keeper is reversible for proper fit on different size conductors.

**Material:** Body and Keeper – aluminum alloy  
Hardware – galvanized steel  
Anti-static Spring – stainless steel<sup>(1)</sup>



B  
7

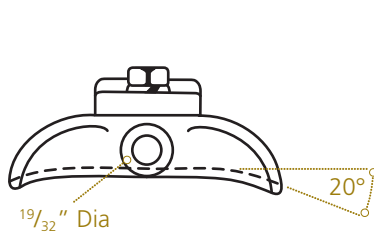
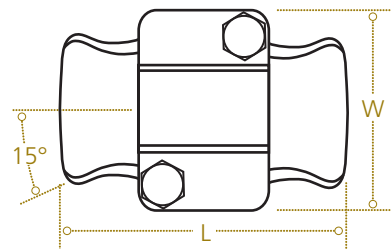
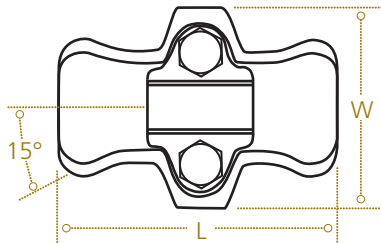


Figure 1

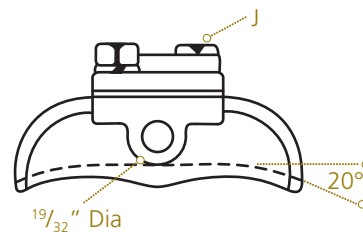


Figure 2

### Product Data

Catalog Number	Figure Number	Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Dimensions Inches (mm)			Approx Wt Each lb (kg)
				L	W	J	
TSC57	1	.25-.57 (6.3-14.4)	2,800 (12)	5/4 (133.3)	3/8 (98.4)	1/2 (12.7)	.81 (.37)
TSC86	1	.35-.86 (8.8-21.8)	2,800 (12)	5/4 (133.3)	3/8 (98.4)	1/2 (12.7)	.95 (.43)
TSC106	1	.50-1.06 (12.7-26.9)	2,800 (12)	5/4 (133.3)	3/8 (98.4)	1/2 (12.7)	.98 (.44)
TSC150	1	1.00-1.50 (25.4-38.1)	2,800 (12)	5/4 (133.3)	3/8 (98.4)	1/2 (12.7)	1.09 (.49)
TSC200	2	1.50-2.00 (38.1-50.8)	2,800 (12)	5/4 (133.3)	3/8 (98.4)	1/2 (12.7)	1.33 (.60)

**NOTE:** Recommended torque on bolts: 1/2" — 300 in-lb.

(1) Anti-static spring can be supplied by adding "ARIV" to catalog number. Example, TSC57ARIV.

# Suspension Clamps — Aluminum

## Trunnion Clamp for High Temperature Cables (For Use with Armor Rods)

ALUMINUM

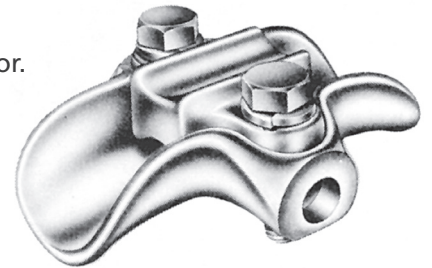
TSCHT

Type TSCHT is designed for use on conductors operating at continuous temperatures up to 250° C. Armor rods or line guards required to limit heat transfer from conductor to post insulator cap.

Also for standard voltage applications with AAC, ACSR or AAAC conductor.

Designed for use on tangent suspension spans with horizontal or vertical post insulators.

Keeper is reversible for proper fit on different size conductors.



**Material:** Clamp Body – high-temperature aluminum alloy  
Keeper – aluminum alloy  
Hardware – galvanized steel  
Anti-static Spring – stainless steel<sup>(1)</sup>

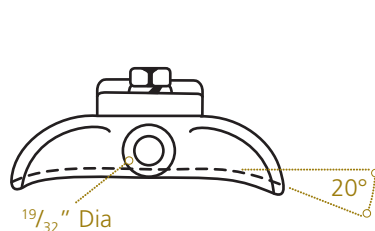
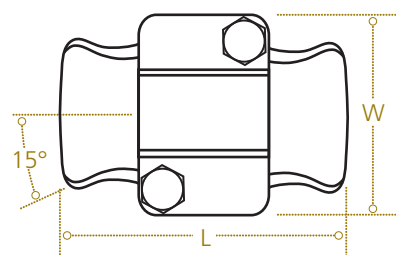
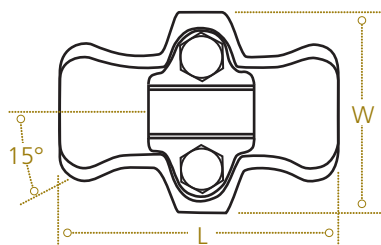


Figure 1

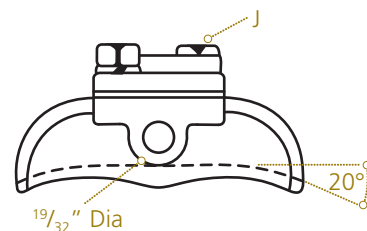


Figure 2

### Product Data

Catalog Number	Figure Number	Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Dimensions Inches (mm)			Approx Wt Each lb (kg)
				L	W	J	
TSCHT150	1	1.00-1.50 (25.4-38.1)	2,800 (12)	5¼ (133.3)	3⅞ (98.4)	½ (12.7)	1.34 (.61)
TSCHT200	2	1.50-2.00 (38.1-50.8)	2,800 (12)	5¼ (133.3)	3⅞ (98.4)	½ (12.7)	1.54 (.70)

**NOTE:** Recommended torque on bolts: ½" — 300 in-lb.

(1) Anti-static spring can be supplied by adding "ARIV" to catalog number. Example, TSCHT150ARIV.



In addition to industry standard markings for connectors, TSCHT suspension clamps are permanently marked with the IEC standard symbol for hot surface, allowing construction inspectors to easily verify that the installed

# Jumper Clamps and Assemblies

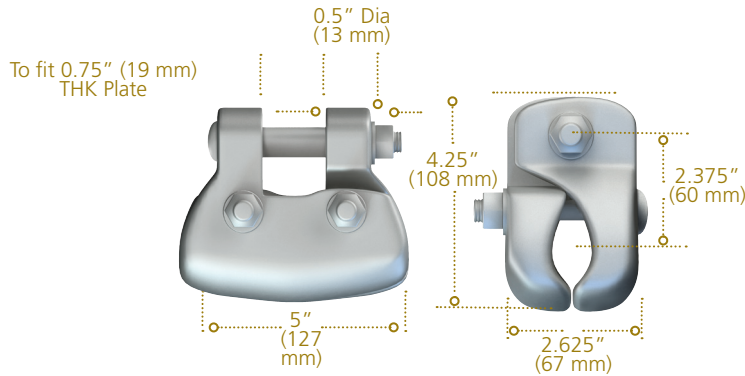


Figure 1

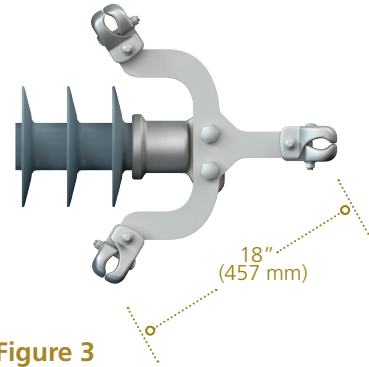


Figure 3

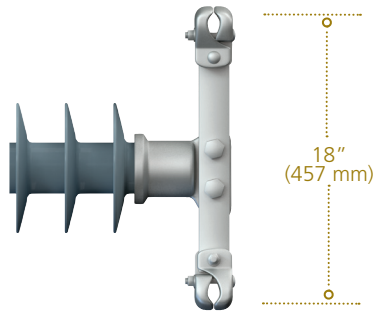


Figure 2

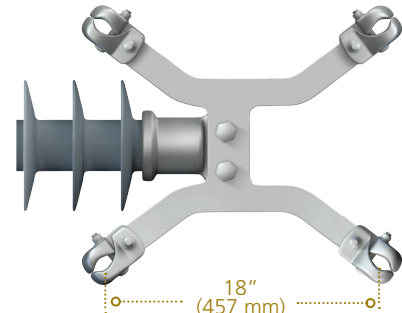


Figure 4

A practical application of Quadri\*Sil® line posts is for support of jumper loops on transmission lines.

Horizontal motion of the jumper is restricted, and the factor of wind sway is eliminated. Additionally, the crossarm length may be reduced. The difference in cost of insulation is not significant, but the savings in tower cost can be attractive. Regardless of cost, the use of a jumper support improves construction.

If using a single clamp, clamp position relative to the insulator may be changed by bolting the clamp through the upper hole in the insulator end fitting.

Jumper clamps are not intended for tangent span applications.

**Material:** Clamps – aluminum alloy  
Yoke and Hardware – galvanized steel

## Product Data

Figure Number	Catalog Number	Yoke Type	Clamping Range Inches (mm)
1	976423002	None	1.00 - 1.40 (25 - 36)
1	976423003	None	1.40 - 1.60 (36 - 41)
1	600643001	None	1.60 - 2.00 (41 - 51)
2	2717243001	Dual	1.00 - 1.40 (25 - 36)
2	2717253001	Dual	1.40 - 1.60 (36 - 41)
2	2717263001	Dual	1.60 - 2.00 (41 - 51)
3	2721763001	Triple	1.00 - 1.40 (25 - 36)
3	2721773001	Triple	1.40 - 1.60 (36 - 41)
3	2721783001	Triple	1.60 - 2.00 (41 - 51)
4	2721793001	Quad	1.00 - 1.40 (25 - 36)
4	2721803001	Quad	1.40 - 1.60 (36 - 41)
4	2721813001	Quad	1.60 - 2.00 (41 - 51)



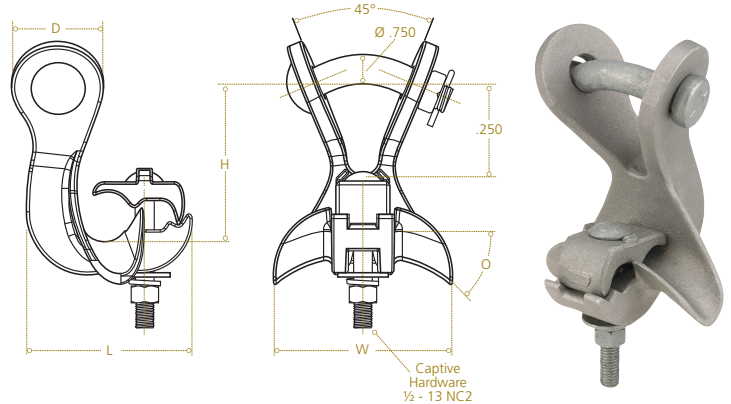
# Suspension Clamps — Aluminum

## Angle Clamp

Intended for angle construction with AAC, ACSR or AAAC conductor. See Catalog Reference section for maximum conductor temperature guidelines.

Built-in Y-Clevis Fitting allows compound horizontal and vertical angles necessary for residential and urban construction.

**Material:** Body and Keeper – aluminum alloy  
Hardware – galvanized steel  
Cotter Pin – stainless steel



ALUMINUM

YAAC

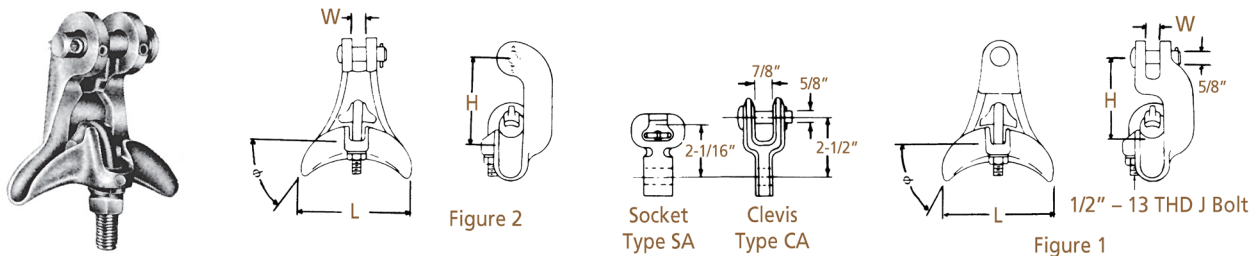
### Product Data

Catalog Number	Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Max Take-Off Angle	Dimensions Inches (mm)				Approx Wt Each lb (kg)
				D	L	W	H	
YAAC125	.50-1.25 (12.70-31.75)	12,000 (53)	45°	2.45 (62.23)	4.50 (114.3)	4.83 (122.68)	4.27 (108.46)	2.0 (.91)

**NOTE:** Recommended torque on 1/2" clamping bolt: 300 in.-lb.

Intended for angle construction with all aluminum, ACSR or aluminum alloy conductor.

**Material:** Body and Keeper – 356-T6 aluminum alloy  
Hardware – galvanized steel  
Cotter Pin – #302 stainless steel



ALUMINUM

AAC

### Product Data

Catalog Number	Fig. No.	Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Max Take-Off Angle	Dimensions Inches (mm)			Approx Wt Each lb (kg)
					o	L	W	
AAC301	2	.198-.732 (5.03-18.59)	7,000 (31)	45°	4-1/4 (107.95)	11/16 (17.46)	2-7/8 (73.02)	1.25 (.57)
AAC302	1	.198-.732 (5.03-18.59)	7,000 (31)	45°	4-1/4 (107.95)	11/16 (17.46)	2-7/8 (73.02)	1.25 (.57)
AAC104N	1	.50-1.10 (12.70-27.94)	12,000 (53)	60°	5-1/4 (133.35)	11/16 (17.46)	4-1/8 (104.77)	2.3 (1.04)
AAC10490N	2	.50-1.10 (12.70-27.94)	12,000 (53)	60°	5-1/4 (133.35)	11/16 (17.46)	4-1/8 (104.77)	2.2 (1)

**NOTES:** (1) Sockets and clevises can be supplied by adding "S" or "C" to catalog number. Example, AAC10490S.  
(2) Recommended torque on 1/2" J-bolts: 300 in.-lbs.

# Suspension Clamps — Bronze

## Clamp

For use with copper or Copperweld® cable.

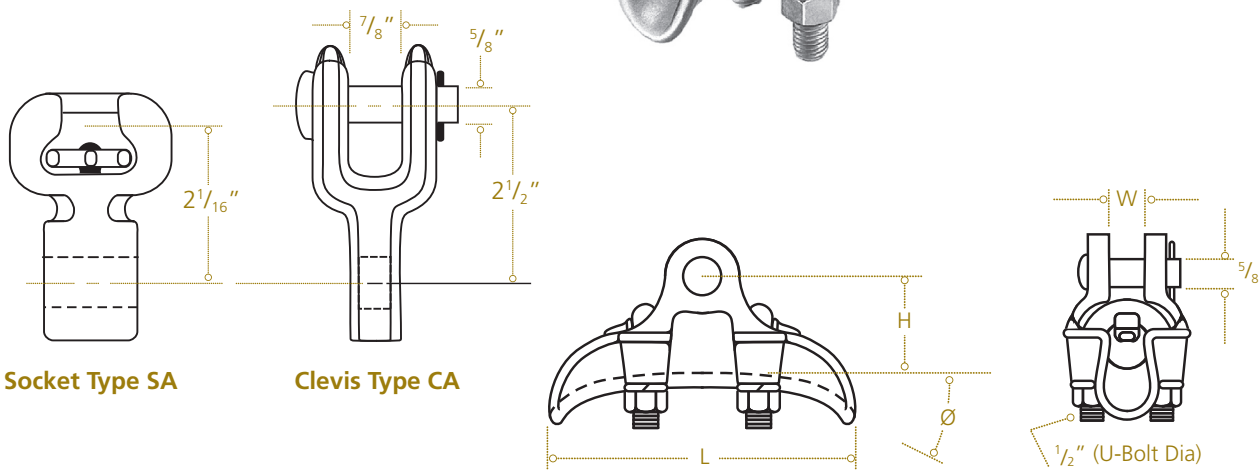
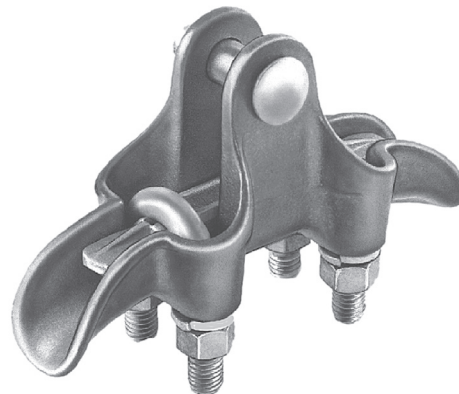
Through the use of these clamps hysteresis and eddy current power losses are reduced to a minimum. Liners are not required.

**Material:** Body – high tensile bronze alloy  
 Keeper – bronze  
 Hardware – galvanized steel<sup>(1)</sup>  
 Socket and Clevis – galvanized ductile iron  
 Cotter Pin – stainless steel

BRONZE

BRS

B  
11



Socket Type SA

Clevis Type CA

## Product Data

Catalog Number	Fitting		Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Max Take-Off Angle	Dimensions Inches (mm)			Approx Wt Each lb (kg)
	Type	Cat No				L	W	H	
BRS60N BRS60S BRS60C	None Socket Clevis	— SA04 CA04	.20-.60 (5.08-15.24)	16,000 (71)	15°	6 1/2 (165.10)	3/4 (19.05)	2 1/4 (57.15)	2.9 (1.32) 4.4 (1.90) 4.5 (2.04)
BRS83N BRS83S BRS83C	None Socket Clevis	— SA06 CA06	.40-.83 (10.16-21.08)	18,000 (80)	15°	7 1/4 (184.15)	3 1/32 (24.6)	2 3/8 (60.33)	3.7 (1.68) 5.0 (2.27) 5.4 (2.45)
BRS100N BRS100S BRS100C	None Socket Clevis	— SA07 CA101	.625-1.00 (15.88-25.40)	22,000 (98)	15°	8 (203.20)	1 1/8 (28.58)	2 1/2 (63.50)	4.5 (2.04) 5.9 (2.68) 6.3 (2.81)
BRS118N BRS118S BRS118C	None Socket Clevis	— SA11 CA101	.70-1.18 (17.78-29.97)	25,000 (111)	20°	8 (203.20)	1 9/32 (32.55)	2 1/2 (63.50)	4.9 (2.22)

**NOTE:** Recommended torque on U-bolts: 1/2" — 480 in-lb.

(1) Bronze U-bolts, nuts and washers can be furnished by adding suffix "ED" to catalog number. Example, BRS60NED.

# Suspension Clamps — Ductile Iron

## Clamp

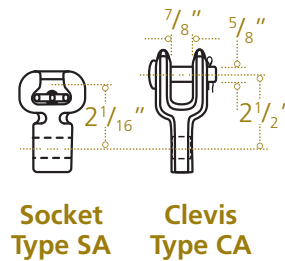
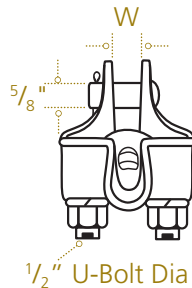
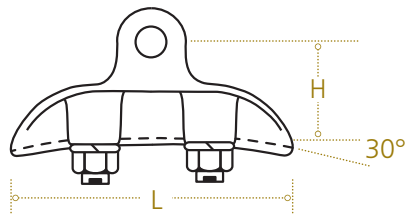
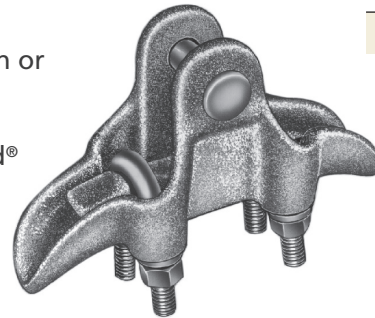
For ground wire application with galvanized steel cable with or without armor rods.

Type MS may also be used to suspend copper or Copperweld® cable. Magnetic induction heating will occur.

**Material:** Body and Keeper – galvanized ductile iron  
Hardware – galvanized steel  
Cotter Pin – stainless steel

DUCTILE IRON

MS



Socket Type SA

Clevis Type CA

### Clamp Recommendations for Galvanized Overhead Ground Wire

Steel Cable Size	Bare Conductor		Formed Armor Rods	
	Clamp Cat No	Diameter Inches (mm)	Clamp Cat No	Diameter Inches (mm)
1/4"-7 str	MS46	.240 (6.10)	MS46	.412 (10.46)
5/16"-7 str	MS46	.312 (7.92)	MS60	.512 (13.00)
3/8"-7 str	MS46	.360 (9.14)	MS60	.560 (14.22)
7/16"-7 str	MS46	.435 (11.05)	MS82	.673 (17.09)
1/2"-7 str	MS60	.495 (12.57)	MS82	.771 (19.58)
5/8"-7 str	MS70	.621 (15.77)	—	—

### Product Data

Catalog Number	Fitting		Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Dimensions Inches (mm)			Approx Wt Each lb (kg)
	Type	Cat No			L	H	W	
MS46N MS46S MS46C	None Socket Clevis	— SA04 CA04	.20-.46 (5.08-11.68)	16,000 (71)	5/8 (142.88)	2 (50.8)	7/8 (22.2)	2.15 (.98) 3.4 (1.54) 3.8 (1.73)
MS60N MS60S MS60C	None Socket Clevis	— SA04 CA04	.20-.60 (5.08-15.24)	16,000 (71)	67/16 (163.51)	2 (50.8)	7/8 (22.2)	2.65 (1.20) 3.9 (1.77) 4.3 (1.95)
MS70N MS70S MS70C	None Socket Clevis	— SA05 CA05	.30-.70 (7.62-17.78)	18,000 (80)	63/8 (161.93)	2 (50.8)	15/16 (23.8)	2.90 (1.32) 4.2 (1.91) 4.6 (2.09)
MS82N MS82S MS82C	None Socket Clevis	— SA06 CA06	.40-.82 (10.16-20.83)	18,000 (80)	7 1/2 (190.50)	2 3/8 (60.33)	15/16 (23.8)	3.25 (1.47) 4.7 (2.13) 5.0 (2.27)
MS104N MS104S MS104C	None Socket Clevis	— SA07 CA06	.50-1.04 (12.70-26.42)	25,000 (111)	8 (203.2)	2 3/4 (69.9)	1 1/8 (28.6)	5.70 (2.59) 7.1 (3.22) 7.4 (3.36)

**NOTE:** Recommended torque on U-bolts: 1/2" — 480 in-lb. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number

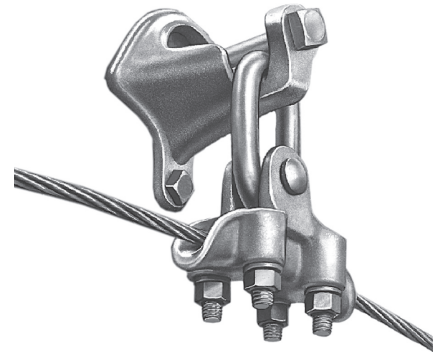
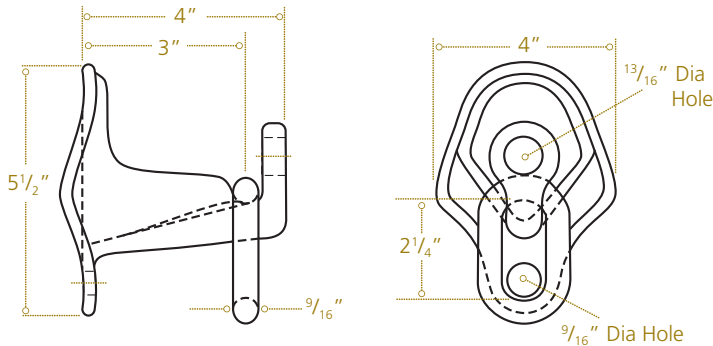


# Suspension Clamps — Ductile Iron

## Ground Wire Support Bracket

Designed to be used with most types of suspension clamps (aluminum or ferrous). May be mounted with through bolt and lag screw.

**Material:** Body – galvanized ductile iron  
Link – galvanized forged steel



DUCTILE IRON

GWB15

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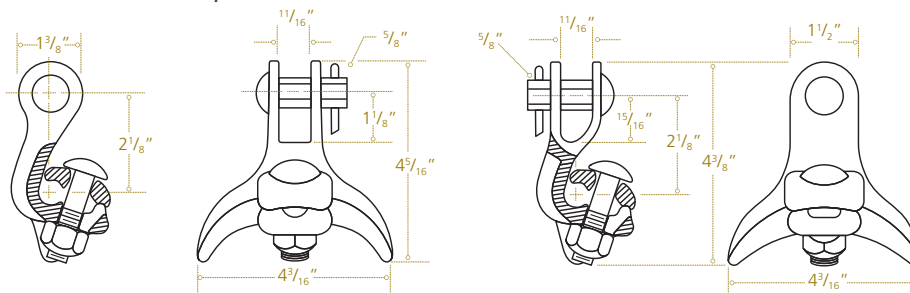
### Product Data

Catalog Number	Mounting Hardware Max Diameter Inches (mm)		Mounting Bolt Spacing Inches (mm)	Ultimate Strength Vertical lb (kN)	Approx Weight Each lb (kg)
	Bolt	Lag Screws			
GWB15	3/4 (19.05)	1/2 (12.70)	3 5/16 (84.14)	5,000 (22)	2.6 (1.18)

## Angle Clamp

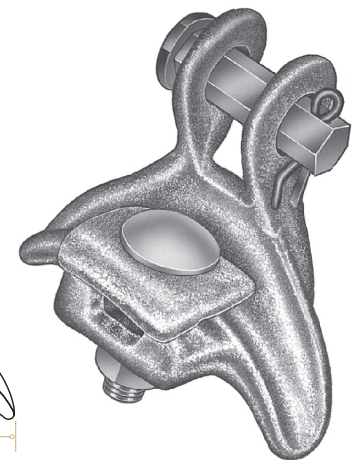
Intended for use in angle construction with galvanized steel overhead ground wire or copper and Copperweld® phase wire. Magnetic induction heating will occur.

**Material:** Body and Keeper – galvanized ductile iron  
Hardware – galvanized steel  
Cotter Pin – stainless steel  
Grommet – neoprene



Catalog Number 82860

Catalog Number 81460



DUCTILE IRON

814/828

### Product Data

Catalog Number	Clamping Range Inches (mm)		Ultimate Body Strength lb (kN)	Max Take-Off Angle	Approx Wt Each lb (kg)
	Small Groove	Large Groove			
814602000 828602000	.162-.25 (4.11-6.35)	.25-.60 (6.35-15.24)	7,000 (31)	60°	1.5 (.68)

**NOTE:** Recommended torque on 1/2" bolt — 480 in-lb.

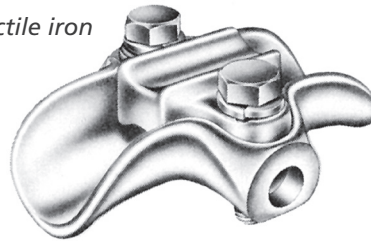
# Suspension Clamps — Ductile Iron

## Trunnion Clamp

For ground wire applications with galvanized steel cable. Designed for use on tangent suspension spans with horizontal or vertical post insulators.

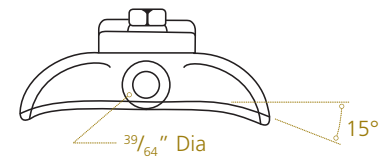
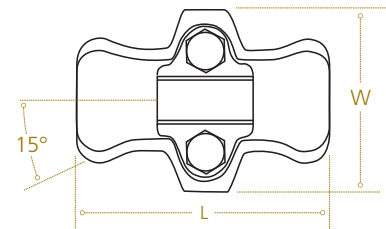
Keeper is reversible for proper fit on different size conductors.

**Material:** Body and Keeper – galvanized ductile iron  
Hardware – galvanized steel  
Anti-Static Spring – stainless steel



DUCTILE IRON

270



### Product Data

Catalog Number	Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Dimensions Inches (mm)			Approx Weight Each lb (kg)
			L	W	J	
2706503001	.25-.56 (6.13-14.2)	2,800 (12)	5¼ (133.3)	37⁄8 (98.4)	½ (12.7)	2.50 (1.13)
2706513001	.50-1.06 (12.7-26.9)	2,800 (12)	5¼ (133.3)	37⁄8 (98.4)	½ (12.7)	2.75 (1.24)
2706523001	1.06-1.50 (26.9-38.1)	2,800 (12)	5¼ (133.3)	37⁄8 (98.4)	½ (12.7)	3.00 (1.36)

**NOTE:** Recommended torque on bolts: ½" — 480 in-lb. Anti-static spring can be supplied by adding "ARIV" to catalog number. Example, 2706513001ARIV.

## Ground Wire Support Bracket

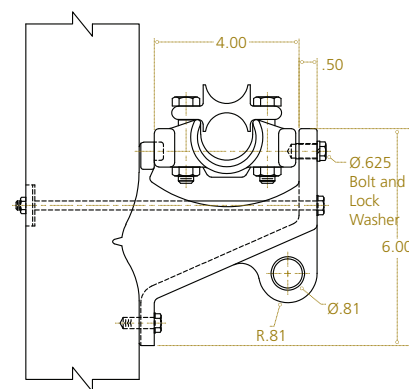
Designed to accommodate most (aluminum or ferrous) trunnion type clamps. May be mounted with one bolt and lag screw or two bolts.

**Material:** Body – galvanized ductile iron



DUCTILE IRON

GWB1R

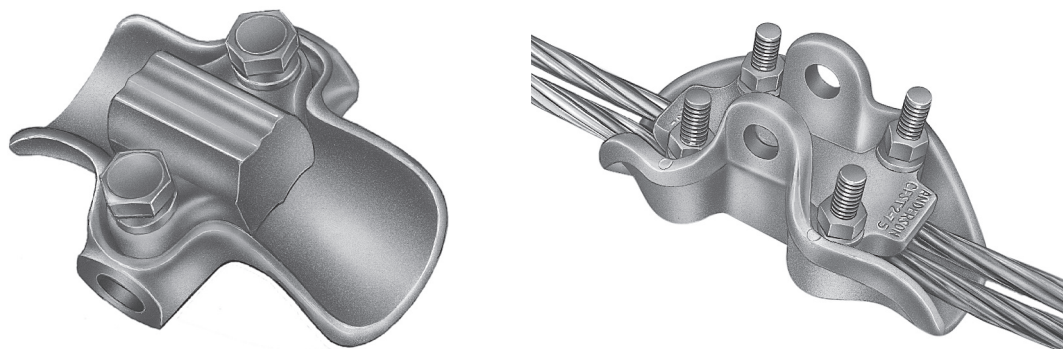


### Product Data

Catalog Number	Mounting Hardware Maximum Diameter Inches (mm)		Mounting Bolt Spacing Inches (mm)	Ultimate Strength Vertical lb (kN)	Approx Wt Each lb (kg)
	Bolt	Lag Screw			
GWB1R	5⁄8 (15.88)	½ (12.70)	3¼ (82.55)	5,000 (22)	3.1 (1.40)

**NOTE:** Mounting hardware by others.

# Suspension and Stirrup Clamps — For T2 Conductors



B  
15

T2 is the designation for a type of conductor developed in the mid-1960s by Kaiser Aluminum Company. The “T” is for “twisted” and the “2” indicates two wires twisted together. T2 is actually two regular round conductors of any type (ACSR, AAC, ACAR, AAAC, etc.) twisted around each other at 9-foot intervals. The main purpose of the twisted design is to prevent galloping by constantly varying the cable diameter face. This wind-induced galloping phenomena occurs primarily in the Midwestern U.S.

Some utilities prefer suspension and strain clamps with “double groove” clamping, while others find that single-groove standard clamps, properly sized and tested, perform adequately on T2.

Anderson™ offers both single and double groove clamps. In the early days of T2, filler rods were used and designed for round conductors. After years of field service and testing, Anderson believes filler rods are no longer necessary, and we do not recommend them.








Another clamp approach is to separate the two round conductors at the clamping point and use two separate single-groove clamps attached to a small yoke plate.

Anderson can supply your T2 clamp needs regardless of your construction preference.

safety

# Suspension and Stirrup Clamps — For T2 Conductors

## Product Data

Suspension and Stirrup Clamps										
Recommended Application Chart of Anderson™ Clamps for T2 Conductor					Recommended Clamps					
Conductor Data										
Code Word	Conductor Size (Qty) AWG	Dual Conductors Outside Dimensions Inches	T2 Conductor Ultimate Strength lb							
T-2 Iris	2-7 str AAC <sup>(2)</sup>	.292 x .584	2532	—	—	—	—	HAS85	TSC57 <sup>(1)</sup>	AHLS024019-E
T-2 Sparrow	2-6/1 ACSR <sup>(2)</sup>	.316 x .682	5580	—	—	TSC12150	TSC0T2150	HAS85	TSC86 <sup>(2)</sup>	AHLS024019-E
T-2 Raven	1/0-6/1 ACSR <sup>(2)</sup>	.398 x .796	8560	HAST2118	—	TSC12150	TSC0T2150	HAS104	TSC86 <sup>(1)</sup>	AHLS397021-E
T-2 Quail	2/0-6/1 ACSR <sup>(2)</sup>	.447 x .894	10,690	HAST2118	—	TSC12150	TSC0T2150	HAS104	TSC106T2 <sup>(1)</sup>	AHLS397021E
T-2 Pigeon	3/0-6/1 ACSR <sup>(2)</sup>	.502 x 1.004	13,350	HAST2118	—	TSC12150	TSC0T2150	HAS118	TSC150T2 <sup>(2)</sup>	AHLS954022E
T-2 Penguin	4/0-6/1 ACSR <sup>(2)</sup>	.562 x 1.126	16,840	HAST2139	—	TSC12150	TSC0T2150	HAS139	TSC150-T2 <sup>(1)</sup>	AHLS954022-E
T-2 Partridge	266.8-26/7 ACSR <sup>(2)</sup>	.642 x 1.284	22,500	HAST2139	—	TSC12200	TSC0T2200	HAS139	TSC150-T2 <sup>(1)</sup>	—
T-2 Linnet	336.4-26/7 ACSR <sup>(2)</sup>	.721 x 1.442	28,100	HAST2182	—	TSC12200	TSC0T2200	HAS162	TSC150-T2 <sup>(1)</sup>	—
T-2 Chickadee	397.5-18/1 ACSR <sup>(2)</sup>	.743 x 1.486	20,080	HAST2182	—	TSC12200	TSC0T2200	HAS182	—	—
T-2 Ibis	397.5-26/7 ACSR <sup>(2)</sup>	.783 x 1.566	32,380	HAST2182	CFST288	TSC12200	TSC0T2200	HAS182	—	—
T-2 Pelican	477.0-18/1 ACSR <sup>(2)</sup>	.814 x 1.628	23,740	HAST2182	CFST288	TSC12200	TSC0T2200	HAS182	—	—
T-2 Mistletoe	556.5-37 str AAC <sup>(2)</sup>	.858 x 1.716	19,660	HAST2204	CFST288	TSC12200	TSC0T2200	HAS204	—	—
T-2 Hawk	477.0-26/7 ACSR <sup>(2)</sup>	.858 x 1.716	38,860	HAST2204	CFST288	TSC12200	TSC0T2200	HAS204	—	—
T-2 Osprey	556.5-18/1 ACSR <sup>(2)</sup>	.879 x 1.758	27,700	HAST2204	CFST288	TSC12200	TSC0T2200	HAS204	—	—
T-2 Hen	447.0-30/7 ACSR <sup>(2)</sup>	.883 x 1.766	46,600	HAST2204	CFST288	TSC12200	TSC0T2200	—	—	—
T-2 Parakeet	556.5-18/1 ACSR <sup>(2)</sup>	.914 x 1.828	39,700	HAST2204	CFST130	—	—	—	—	—
T-2 Arbutus	795-37 str A <sup>9</sup> AC <sup>(2)</sup>	1.026 x 2.052	27,540	HAST2252	CFST130	—	—	—	—	—
T-2 Dove	556.5-26/7 ACSR <sup>(2)</sup>	.927 x 1.854	44,800	HAST2204	CFST2130	—	—	HAS204	—	—
T-2 Rook	636.0-24/7 ACSR <sup>(2)</sup>	.977 x 1.954	45,200	HAST2252	CFST2130	—	—	—	—	—
T-2 Grosbeak	636.0-26/7 ACSR <sup>(2)</sup>	.990 x 1.980	50,000	HAST2252	CFST2130	—	—	HAS227	—	—
T-2 Tern	795.0-45/7 ACSR <sup>(2)</sup>	1.063 x 2.126	45,800	HAST2252	CFST2130	—	—	HAS252T	—	—
T-2 Rail	954.0-45/7 ACSR <sup>(2)</sup>	1.165 x 2.330	53,800	HAST2252	CFST2130	—	—	HAS252T	—	—
T-2 Bluejay	1113.0-45/7 ACSR <sup>(2)</sup>	1.259 x 2.518	61,800	HAST2252	CFST2130	—	—	HAS280	—	—

(1) On catalog type TSC use large side of keeper on cable specified.

(2) On catalog type TSC use small side of keeper on cable specified.

# Suspension Clamps — Aluminum

## Double Groove Clamp

Made with double groove keeper to accommodate twin conductor.

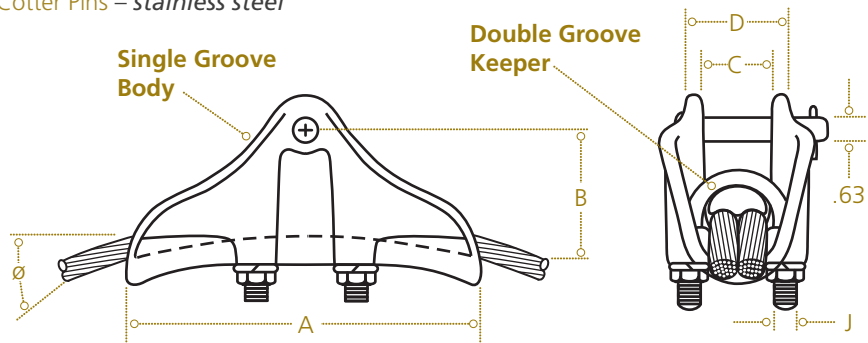
For standard voltage application with all aluminum, ACSR, or aluminum alloy conductor. Maximum conductor temperature 130 C. See Catalog Reference section for maximum conductor temperature guidelines.

**Material:** Body and Keeper – aluminum alloy  
Sockets and Clevises – galvanized ductile iron  
Hardware – galvanized steel  
Cotter Pins – stainless steel

ALUMINUM

HAST2

B  
17



### Product Data

Catalog Number	Fitting		Clamping Range			Dimensions Inches						Ultimate Body Strength lb (kN)	Approx Wt Each lb (kg)	
	Type	Catalog Number	ACSR	Inches	Aluminum	A	B	C	D	Ø	J			
HAST2118S HAST2118C HAST2118N	Socket Clevis None	SA10 CA101 —	1/0 to 3/0	.398 to .502	2/0-7 str to 3/0-19 str	8.00	2.75	1.41	2.41	22.5	½	25,000 (111)	4.40 (2.00) 4.50 (2.04) 2.80 (1.27)	
HAST2139S HAST2139C HAST2139N	Socket Clevis None	SA13 CA13 —	134-12/7 to 266.8-26/7	.522 to .642	4/0-7 str to 300-61 str	8.88	3.00	1.63	2.56	22.5	½	25,000 (111)	4.90 (2.22) 5.00 (2.27) 3.30 (1.50)	
HAST2182S HAST2182C HAST2182N	Socket Clevis None	SA16 CA16 —	336-18/1 to 477-18/1	.684 to .814	350-37 str to 500-37 str	10.00	3.25	2.06	3.00	25.0	½	25,000 (111)	6.00 (2.72) 6.10 (2.77) 4.30 (1.95)	
HAST2204S HAST2204C HAST2204N	Socket Clevis None	SA16 CA16 —	477-26/7 to 556.5-26/7	.858 to .927	556-37 str to 636-37 str	10.50	3.53	2.17	3.13	20.5	½	25,000 (111)	6.60 (3.00) 6.70 (3.03) 4.90 (2.22)	
HAST2252S	Socket	SA22	636-24/7 to 954-45/7	.977 to 1.165	750-61 str to 1,000-61 str	12.00	4.25	2.68	3.81	17.5	⅝	30,000 (133)	11.80 (5.35)	
HAST2252C	Clevis	CA22										25,000 (111)		12.30 (5.58)
HAST2252N	None	—										30,000 (133)		

**NOTE:** Recommended torque on U-bolts: ½" — 480 in-lb, ⅝" — 720 in-lb. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number. Clamp may be furnished with ⅝"-11 galvanized steel bolt and nut with stainless steel cotter pin by adding "BNK" suffix to catalog number. Example: HAST2118SBNK.



# Suspension Clamps — Aluminum

## Double Groove Corona Free Clamp

ALUMINUM

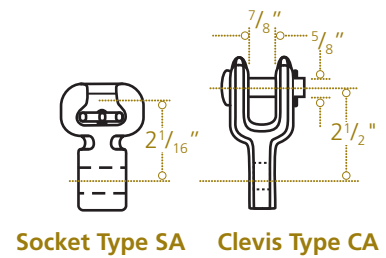
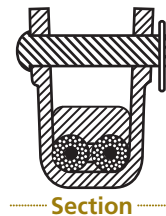
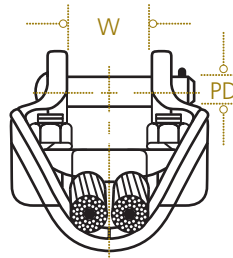
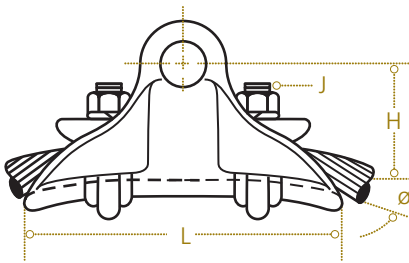
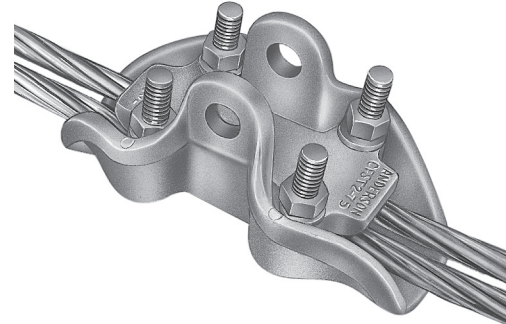
CFST2

Type CFST2 is recommended for AAC, ACSR or AAAC T2 conductors. Maximum conductor temperature 130 C. See Catalog Reference section for maximum conductor temperature guidelines.

Designed with double grooves for use on standard or extra-high voltage T2 transmission lines. Corona and RIV are controlled through the design of the clamp, thus eliminating the need for control rings.

U-bolts are retained in place by grommets.

**Material:** Body and Keeper – aluminum alloy  
 Hardware – galvanized steel  
 Socket and Clevis – galvanized ductile iron  
 Cotter Pin – stainless steel  
 Grommet – neoprene



### Product Data

Catalog Number	Fitting		Clamping Range Inches (mm)	Ultimate Body Strength Inches (kN)	Max Take-Off Angle	Dimensions Inches (mm)					Approx Wt Each lb (kg)
	Type	Catalog Number				L	W	H	J	PD	
CFST288N CFST288S CFST288C	None Socket Clevis	— SA16 CA16	.753-.883 (19.13-22.43)	20,000 (89)	17.5°	8 <sup>7</sup> / <sub>16</sub> (214.38)	2 (50.80)	2½ (63.50)	½ (12.70)	5⁄8 (15.88)	2.8 (1.134) 4.2 (1.905) 4.3 (1.951)
CFST2130N CFST2130S CFST2130C	None Socket Clevis	— SA22 CA24	.88-1.30 (22.35-33.0)	25,000 (111)	17.5°	10½ (266.7)	3 (76.2)	3 (76.2)	½ (12.70)	5⁄8 (15.88)	6.0 (2.7) 7.9 (3.6) 8.3 (3.8)

**NOTE:** Recommended torque on U-bolts: ½" — 480 in-lb. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

# Suspension Clamps — Aluminum/Ductile Iron

## Double Groove Trunnion Clamp

ALUMINUM/DUCTILE

TSC2/TSCDT2

For standard voltage applications with AAC, ACSR, or AAAC T2 conductor. See Catalog Reference section for maximum conductor temperature guidelines.

Designed with double groove keeper for use on tangent suspension spans with horizontal or vertical post insulators.

Keeper is reversible for proper fit on different size conductors.

**Material:** TSC2: Body and Keeper – aluminum alloy  
 TSCDT2: Body – galvanized ductile iron  
 Keeper – aluminum alloy  
 Hardware – galvanized steel  
 Anti-static Spring – stainless steel

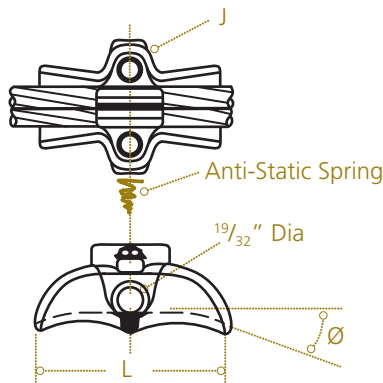
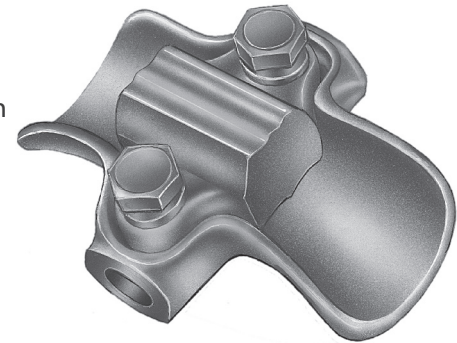


Figure 1

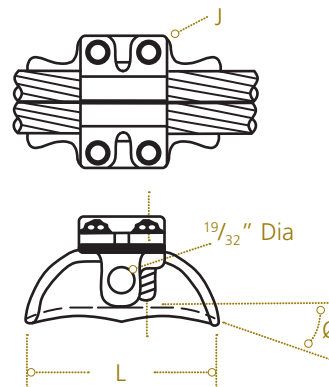


Figure 2



### Product Data

Catalog Number	Figure Number	Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Max Take-Off Angle	Dimensions Inches (mm)			Approx Wt Each lb (kg)
					L	W	J	
TSC2150	1	316-563 (8.03-14.3)	2,800 (12)	20°	5¼ (133.3)	3⅞ (98.4)	½ (12.7)	1.14 (.52)
TSC2200	2	642-927 (16.31-23.54)	2,800 (12)	20°	5¼ (133.3)	3⅞ (98.4)	½ (12.7)	1.75 (.79)
TSCDT150	1	316-563 (8.03-14.3)	2,800 (12)	15°	5¼ (133.3)	3⅞ (98.4)	½ (12.7)	2.50 (1.13)
TSCDT200	2	642-927 (16.31-23.54)	2,800 (12)	20°	5¼ (133.3)	3⅞ (98.4)	½ (12.7)	2.94 (1.33)

**NOTE:** Recommended torque on ½" clamping bolts: 300 in-lb. Anti-static springs can be supplied by adding "ARIV" to catalog number.

