

2013 SERIES

Horizontal Hold Down Clamps | Product Overview

Features:

- Increased handle clearance reduces pinch points
- Common mounting hole pattern to Model 213
- Fixed handle pivot provides smooth action
- Nearly 2 times the holding capacity Model 213
- BLK models feature a black, non-reflective finish
- 5 handle colors - see page MC-PRO-7 for details

Covered under one or more U.S./International Patents

Applications:

- Checking fixtures
- Assembly & test
- Light machining
- Woodworking
- Closures

Also Available:

See page MC-ACC-1 for accessories

Accommodates M5 or #10 spindle accessory

2013-U
Flanged Base
U-Bar



2013-U-LS-BLK ⓘ
Blackout Series
Flanged Base
U-Bar



2013-UR
Flanged Base
U-Bar
DESTACO®
Toggle Lock
Plus™



Color Handles

Available on models in this series that use standard red handles.* Add -Y, -G, -B, -K to end of model number.

*Excludes Blackout Series, Toggle Lock Plus levers.



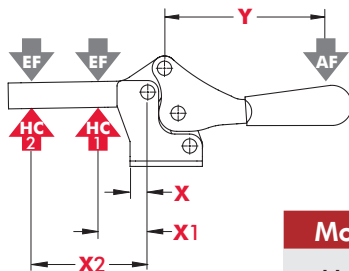
ⓘ This item is available upon request

Technical Information

Model	Max. Holding Capacity	Clamp Bar Opening (+10°)	Handle Opening (+10°)	Weight	Accessories (Supplied)	
					Spindle Assembly	Flanged Washers
2013-U	[295 lbf] 1310 N	71°	58°	[0.37 lb] 0,17 kg	2013208-M	102111
2013-U-LS-BLK ⓘ					--	102111-BLK
2013-UR					2013208-M	102111

ⓘ This item is available upon request

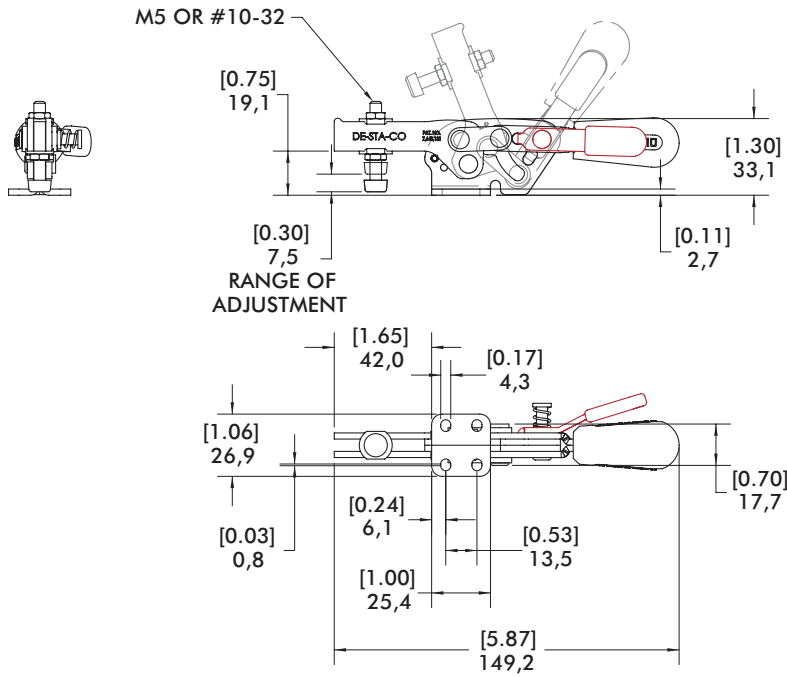
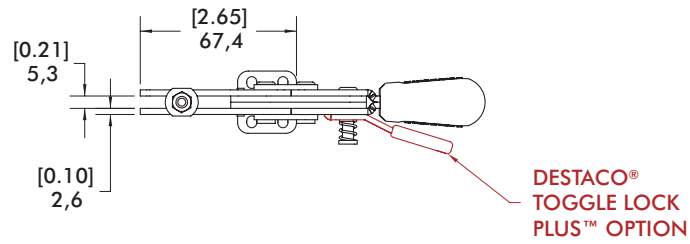
Holding Capacities



Model	X	X1	X2	Y	‡HC1	‡HC2	‡EF(X1):AF	‡EF(X2):AF
U/UR	[0.63] 16	[0.95] 24	[1.95] 49,5	[2.34] 59,5	[295 lbf] 1310 N	[175 lbf] 780 N	6:1	4:1

Dimensions shown "mm [inch]" ‡ HC = Holding Capacity, EF = Exerting Force, AF = Applied Force
See page MC-TEC-4 for additional information.

2013-U Flanged Base U-Bar



2017 SERIES

Horizontal Hold Down Clamps | Product Overview

Features:

- Increased handle clearance reduces pinch points
- Common mounting hole pattern to Model 217
- Fixed handle pivot provides smooth action
- Over 2½ times the holding capacity Model 217
- BLK models feature a black, non-reflective finish
- 5 handle colors - see page MC-PRO-7 for details

Applications:

- Checking fixtures
- Assembly & test
- Light machining
- Woodworking
- Closures

Also Available:

See page MC-ACC-1 for accessories

Accommodates M6 or ¼" spindle accessory

Covered under one or more U.S./International Patents

2017-U
Flanged Base
U-Bar



2017-U-LS-BLK ⓘ
Blackout Series
Flanged Base
U-Bar



2017-UR
Flanged Base
U-Bar
DESTACO®
Toggle Lock
Plus™



Color Handles

Available on models in this series that use standard red handles.* Add -Y, -G, -B, -K to end of model number.

*Excludes Blackout Series, Toggle Lock Plus levers.



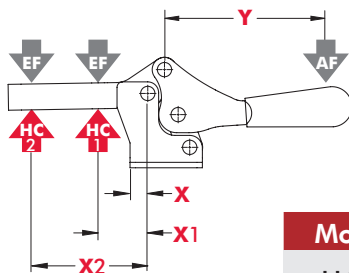
ⓘ This item is available upon request

Technical Information

Model	Max. Holding Capacity	Clamp Bar Opening (+10°)	Handle Opening (+10°)	Weight	Accessories (Supplied)	
					Spindle Assembly	Flanged Washers
2017-U	[560 lbf] 2500 N	73°	69°	[0.97 lb] 0,44 kg	215208-M	215105
2017-U-LS-BLK ⓘ					--	215105-BLK
2017-UR					215208-M	215105

ⓘ This item is available upon request

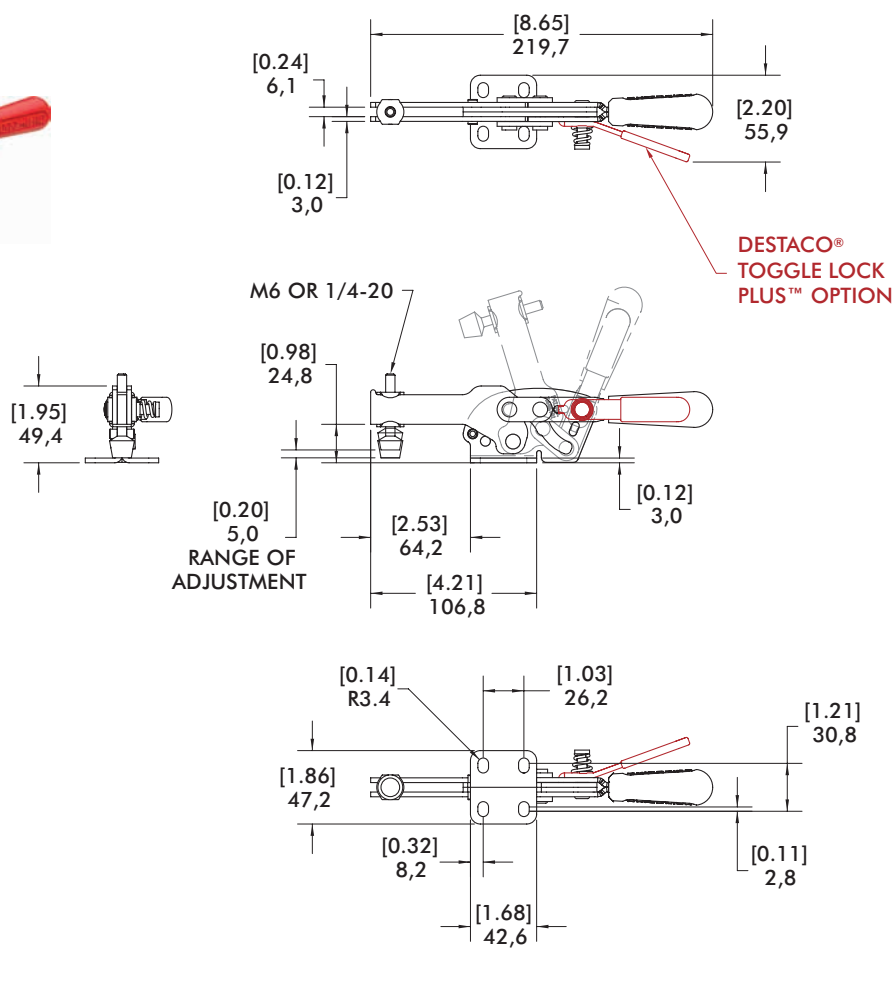
Holding Capacities



Model	X	X1	X2	Y	±HC1	±HC2	±EF(X1):AF	±EF(X2):AF
U/UR	[1.08] 27,4	[1.65] 42	[3.15] 80	[2.54] 64,5	[560 lbf] 2500 N	[245 lbf] 1090 N	5:1	2.5:1

Dimensions shown "mm [inch]" ± HC = Holding Capacity, EF = Exerting Force, AF = Applied Force
See page MC-TEC-4 for additional information.

2017-U Flanged Base U-Bar



2027 SERIES

Horizontal Hold Down Clamps | Product Overview

Features:

- Increased handle clearance reduces pinch points
- Common mounting hole pattern to Model 227
- Fixed handle pivot provides smooth action
- Over 1½ times the holding capacity Model 227
- BLK models feature a black, non-reflective finish
- 5 handle colors - see page MC-PRO-7 for details

Applications:

- Checking fixtures
- Assembly & test
- Light machining
- Woodworking
- Closures

Also Available:

See page MC-ACC-1 for accessories

Accommodates M8 or 5/16" spindle accessory

Covered under one or more U.S./International Patents

2027-U
Flanged Base
U-Bar



2027-U-LS-BLK ⓘ
Blackout Series
Flanged Base
U-Bar



2027-UR
Flanged Base
U-Bar
DESTACO®
Toggle Lock
Plus™



Color Handles

Available on models in this series that use standard red handles.* Add -Y, -G, -B, -K to end of model number.

*Excludes Blackout Series, Toggle Lock Plus levers.



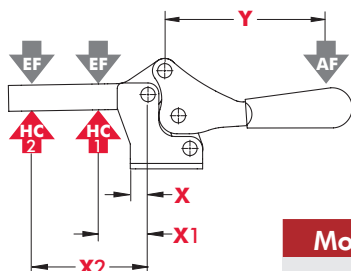
ⓘ This item is available upon request

Technical Information

Model	Max. Holding Capacity	Clamp Bar Opening (+10°)	Handle Opening (+10°)	Weight	Accessories (Supplied)	
					Spindle Assembly	Flanged Washers
2027-U	[840 lbf] 3740 N	68°	70°	[1.34 lb] 0,61 kg	2007208-M	507107
2027-U-LS-BLK ⓘ					--	507107-BLK
2027-UR					2007208-M	507107

ⓘ This item is available upon request

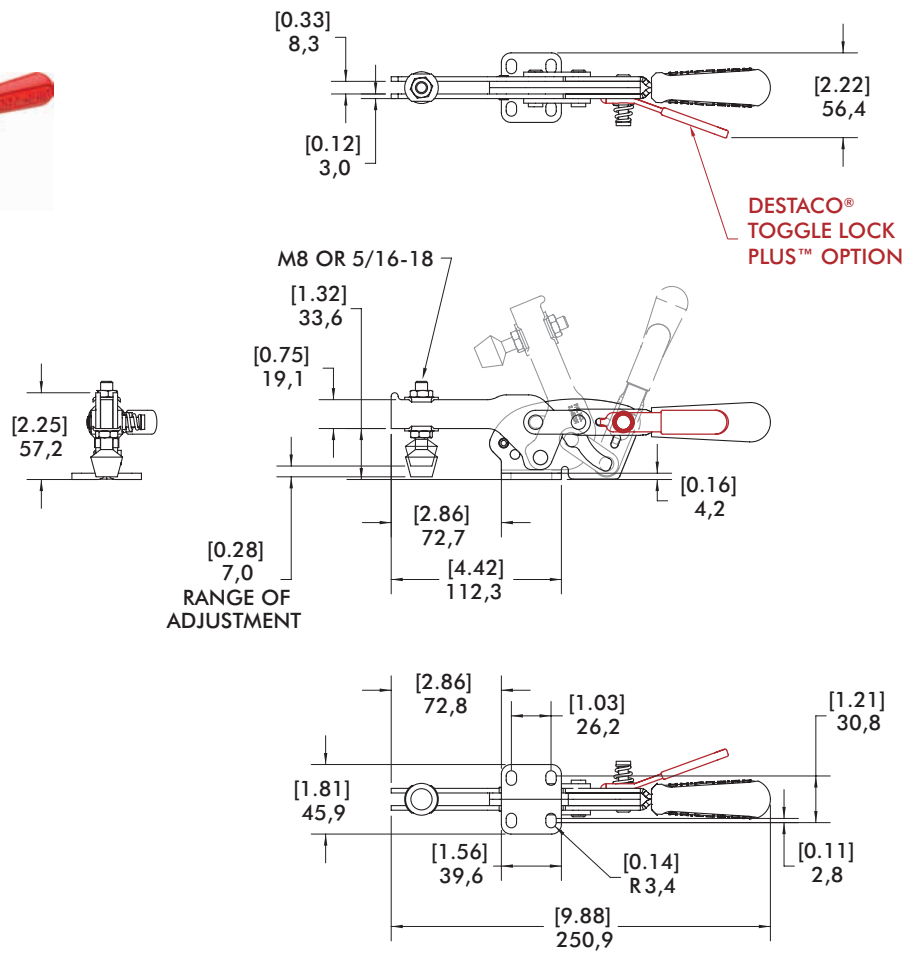
Holding Capacities



Model	X	X1	X2	Y	‡HC1	‡HC2	‡EF(X1):AF	‡EF(X2):AF
U/UR	[1.02] 25,8	[1.75] 44,5	[3.30] 83,8	[2.54] 64,5	[840 lbf] 3740 N	[480 lbf] 2140 N	5:1	3:1

Dimensions shown "mm [inch]" ‡ HC = Holding Capacity, EF = Exerting Force, AF = Applied Force
See page MC-TEC-4 for additional information.

2027-U Flanged Base U-Bar



213 SERIES

Horizontal Hold Down Clamps | Product Overview

Features:

- Low profile
- Large handle clearance in the open position
- Available in stainless steel
- BLK models feature a black, non-reflective finish
- 5 handle colors - see page MC-PRO-7 for details

Applications:

- Assembly
- Checking fixtures
- Closures
- Woodworking

Also Available:

See page MC-ACC-1 for accessories

Accommodates M5 or #10 spindle accessory

213-U/USS
Flanged Base
U-Bar



-USS Stainless Steel Model

213-U-LS-BLK ⓘ
Blackout Series
Flanged Base
U-Bar

213-UB
Straight Base
U-Bar

213-UB-LS-BLK ⓘ
Blackout Series
Straight Base
U-Bar

213-U-L ⓘ
Flanged Base
Open Bar



213-U-L-BLK ⓘ
Flanged Base
Open Bar

213-UB-L ⓘ
Straight Base
Open Bar

213-UB-L-BLK ⓘ
Blackout Series
Straight Base
Open Bar

Color Handles

Available on models in this series that use standard red handles*. Add -Y, -G, -B, -K to end of model number.

*Excludes Blackout Series.



ⓘ This item is available upon request

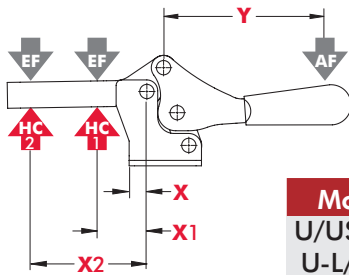
Technical Information

Model	Max. Holding Capacity	Clamp Bar Opening (+10°)	Handle Opening (+10°)	Weight	Accessories (Supplied)	
					Spindle Assembly	Flanged Washers
213-U	[150 lbf] 670 N	90°	60°	[0.17 lb] 0,08 kg	213208-M	102111
213-U-LS-BLK ⓘ					--	102111-BLK
213-USS					201943-M	102911
213-UB					213208-M	102111
213-UB-LS-BLK ⓘ					--	102111-BLK
213-U-L ⓘ						102111
213-U-L-BLK ⓘ						102111-BLK
213-UB-L ⓘ						102111
213-UB-L-BLK ⓘ						102111-BLK

ⓘ This item is available upon request

213 SERIES

Horizontal Hold Down Clamps | Holding Capacities

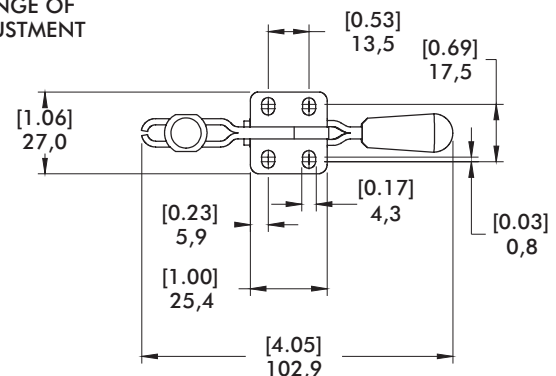
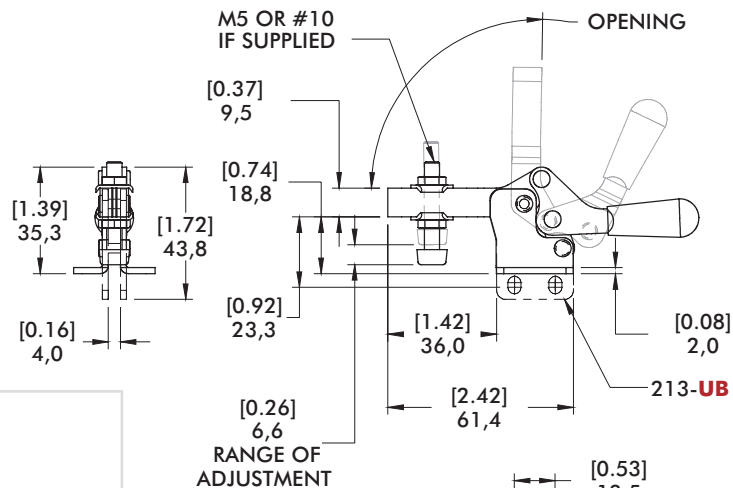
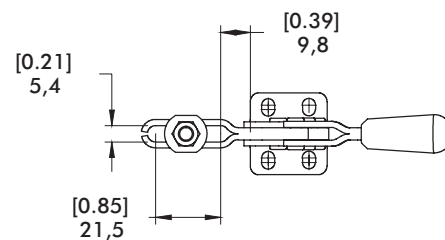


Model	X	X1	X2	Y	±HC1	±HC2	±EF(X1):AF	±EF(X2):AF
U/USS/UB	[0.36]	[0.75]	[1.63]	[1.81]	[150 lbf]	[70 lbf]	7:1	3:1
U-L/UB-L	9,3	19	41,4	46	670 N	310 N		

Dimensions shown "mm [inch]" ± HC = Holding Capacity, EF = Exerting Force, AF = Applied Force
See page MC-TEC-4 for additional information.

Dimensions | -U/-USS/-UB

213-U Flanged Base U-Bar

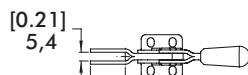


Series 213 Open Bar Options

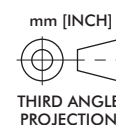
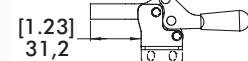


Flanged Base Model 213-U-L①

See page MC-ACC-7 for
Complete offering of
Open bar accessories



Straight Base Model 213-UB-L①



217 SERIES

Horizontal Hold Down Clamps | Product Overview

Features:

- Low profile
- Large handle clearance in the open position
- Available in stainless steel
- BLK models feature a black, non-reflective finish
- 5 handle colors - see page MC-PRO-7 for details

Applications:

- Assembly
- Checking fixtures
- Closures
- Woodworking

Also Available:

See page MC-ACC-1 for accessories
Accommodates M6 or 1/4" spindle accessory

217-U/USS
Flanged Base
U-Bar



-USS Stainless Steel Model



217-U-LS-BLK ⓘ
Blackout Series
Flanged Base
U-Bar



217-UB
Straight Base
U-Bar



217-UB-LS-BLK ⓘ
Blackout Series
Straight Base
U-Bar



217-U-L ⓘ
Flanged Base
Open Bar



217-U-L-BLK ⓘ
Flanged Base
Open Bar



217-UB-L ⓘ
Straight Base
Open Bar



217-UB-L-BLK ⓘ
Blackout Series
Straight Base
Open Bar



Color Handles

Available on models in this series that use standard red handles.* Add -Y, -G, -B, -K to end of model number.

*Excludes Blackout Series.

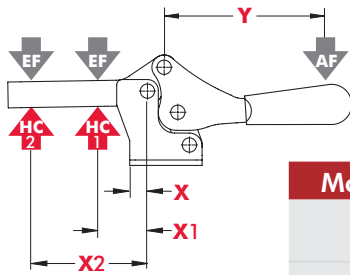


ⓘ This item is available upon request

Technical Information

					Accessories (Supplied)	
Model	Max. Holding Capacity	Clamp Bar Opening (+10°)	Handle Opening (+10°)	Weight	Spindle Assembly	Flanged Washers
217-U	[200 lbf] 900 N	91°	61°	[0.40 lb] 0,18 kg	202208-M	215105
217-U-LS-BLK ⓘ					--	215105-BLK
217-USS	1110 N [250 lbf]				202943-M	215105
217-UB	[200 lbf] 900 N				202208-M	215105
217-UB-LS-BLK ⓘ					--	215105-BLK
217-U-L ⓘ						215105
217-U-L-BLK ⓘ						215105-BLK
217-UB-L ⓘ						215105
217-UB-L-BLK ⓘ						215105-BLK

ⓘ This item is available upon request



Model	X	X1	X2	Y	±HC1	±HC2	±EF(X1):AF	±EF(X2):AF
U					[200 lbf] 900 N	[80 lbf] 360 N		
USS	[0.53] 13,5	[1.13] 28,6	[2.63] 66,8	[2.93] 74,5	[250 lbf] 1110 N	[100 lbf] 440 N	7:1	3:1
UB/U-L/ UB-L					[200 lbf] 900 N	[80 lbf] 360 N		

Dimensions shown "mm [inch]" ± HC = Holding Capacity, EF = Exerting Force, AF = Applied Force
See page MC-TEC-4 for additional information.

Dimensions | -U/-USS/-UB

Series 217 Open Bar Options

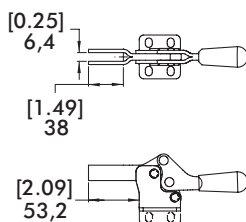


Flanged Base
Model
217-U-L

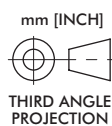
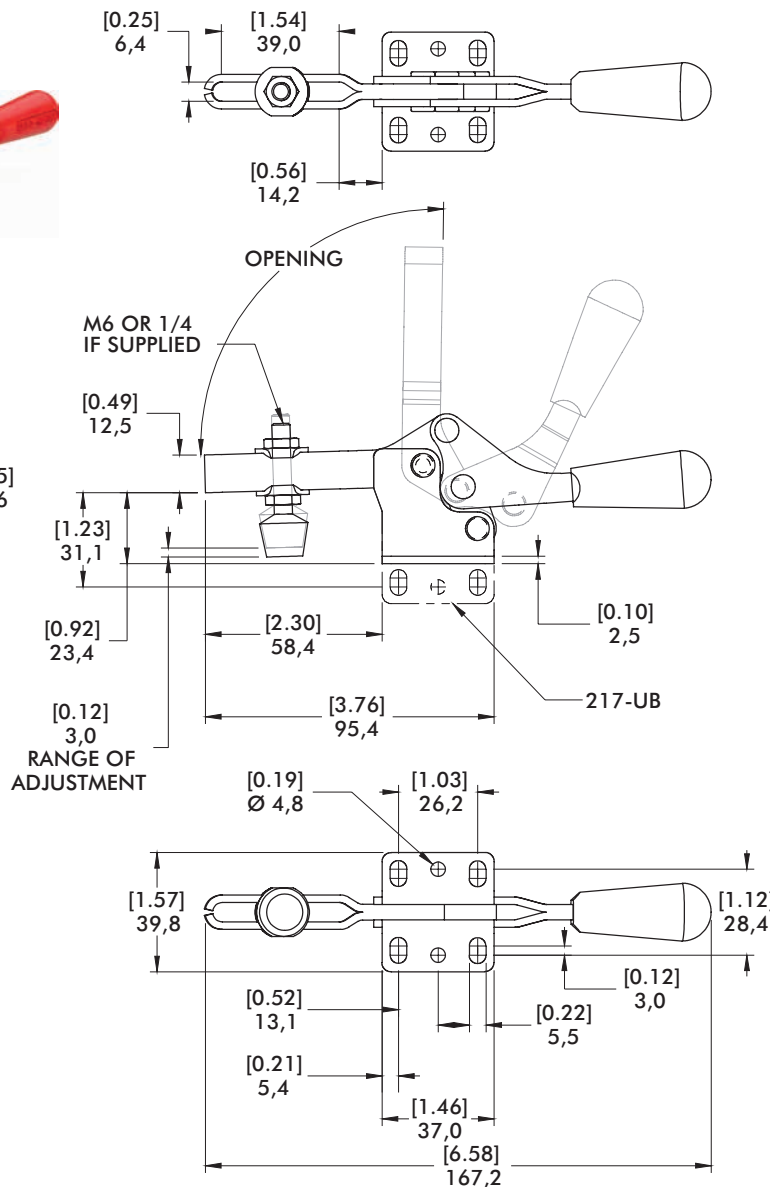
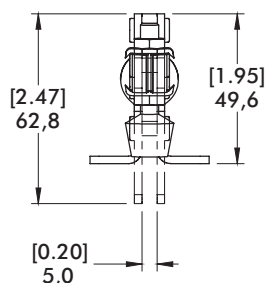


Straight Base
Model
217-UB-L

See page MC-ACC-7 for
Complete offering of
Open bar accessories



217-U Flanged Base U-Bar



227 SERIES

Horizontal Hold Down Clamps | Product Overview

Features:

- Low profile
- Large handle clearance in the open position.
- Available in stainless steel
- BLK models feature a black, non-reflective finish
- 5 handle colors - see page MC-PRO-7 for details

Applications:

- Assembly
- Checking fixtures
- Closures
- Woodworking

Also Available:

See page MC-ACC-1 for accessories

Accommodates M6 or 5/16" spindle accessory

227-U/USS
Flanged Base
U-Bar



-USS Stainless Steel Model

227-U-LS-BLK ⓘ
Blackout Series
Flanged Base
U-Bar

227-UB
Straight Base
U-Bar

227-UB-LS-BLK ⓘ
Blackout Series
Straight Base
U-Bar

227-U-L ⓘ
Flanged Base
Open Bar



227-U-L-BLK ⓘ
Flanged Base
Open Bar

227-UB-L ⓘ
Straight Base
Open Bar

227-UB-L-BLK ⓘ
Blackout Series
Straight Base
Open Bar

Color Handles

Available on models in this series that use standard red handles.* Add -Y, -G, -B, -K to end of model number.

*Excludes Blackout Series.



ⓘ This item is available upon request

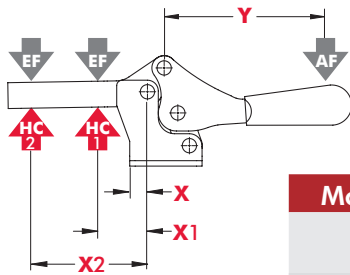
Technical Information

					Accessories (Supplied)	
Model	Max. Holding Capacity	Clamp Bar Opening (+10°)	Handle Opening (+10°)	Weight	Spindle Assembly	Flanged Washers
227-U	[500 lbf]	91°	56°	[0.68 lb] 0,31 kg	225208-M	507107
227-U-LS-BLK ⓘ	2220 N				--	507107-BLK
227-USS	2670 N [600 lbf]				-207943-M	507907
227-UB	[500 lbf] 2220 N				225208-M	507107
227-UB-LS-BLK ⓘ					--	507107-BLK
227-U-L ⓘ						507107
227-U-L-BLK ⓘ						507107-BLK
227-UB-L ⓘ						507107
227-UB-L-BLK ⓘ						507107-BLK

ⓘ This item is available upon request

227 SERIES

Horizontal Hold Down Clamps | Holding Capacities



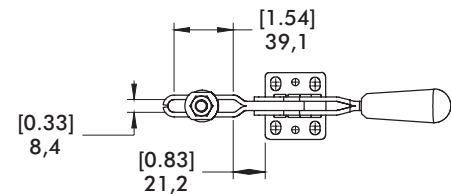
Model	X	X1	X2	Y	±HC1	±HC2	±EF(X1):AF	±EF(X2):AF
U					[500 lbf] 2220 N	[225 lbf] 1000 N		
USS	[0.39] 10,0	[1.25] 31,8	[2.75] 70,0	[3.58] 91,0	[600 lbf] 2670 N	[270 lbf] 1200 N	8:1	3:1
UB/U-L/ UB-L					500 lbf] 2220 N	[225 lbf] 1000 N		

Dimensions shown "mm [inch]" ± HC = Holding Capacity, EF = Exerting Force, AF = Applied Force
See page MC-TEC-4 for additional information.

Dimensions | -U/-USS/-UB

227-U

Flanged Base
U-Bar

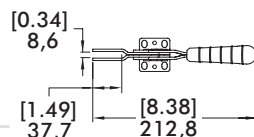


Series 227 Open Bar Options

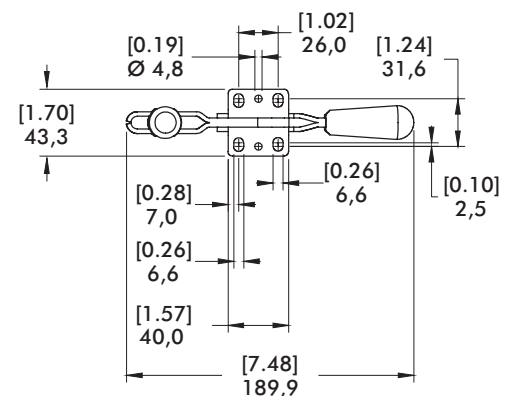
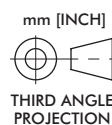
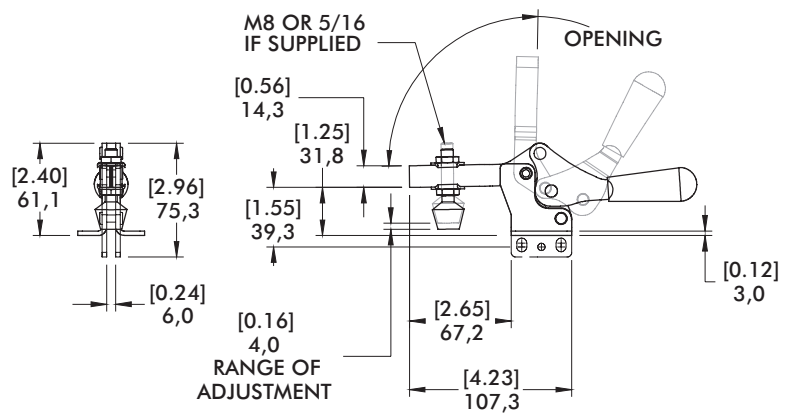
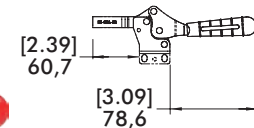


Flanged Base
Model
227-U-L ①

See page MC-ACC-7 for
Complete offering of
Open bar accessories



Straight Base
Model
227-UB-L ①



237 SERIES

Horizontal Hold Down Clamps | Product Overview

Features:

- Low profile
- Large handle clearance in the open position.
- Available in stainless steel
- 5 handle colors - see page MC-PRO-7 for details

Applications:

- Assembly
- Checking fixtures
- Welding

Also Available:

See page MC-ACC-1 for accessories
Accommodates M10 or 3/8" spindle accessory

237-U/USS Flanged Base U-Bar



-USS Stainless Steel Model



Color Handles
Available on this model.
Add -Y, -G, -B, -K to
end of model number.

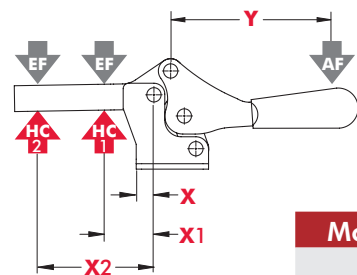


Technical Information

Model	Max. Holding Capacity	Clamp Bar Opening(+10°)	Handle Opening(+10°)	Weight	Accessories (Supplied)	
					Spindle Assembly	Flanged Washers
237-U	3340 N [750 lbf]	93°	59°	[1.60 lb] 0,73 kg	240208-M	235106
237-USS ⓘ	3780 N [850 lbf]				237943-M	235906

ⓘ This item is available upon request

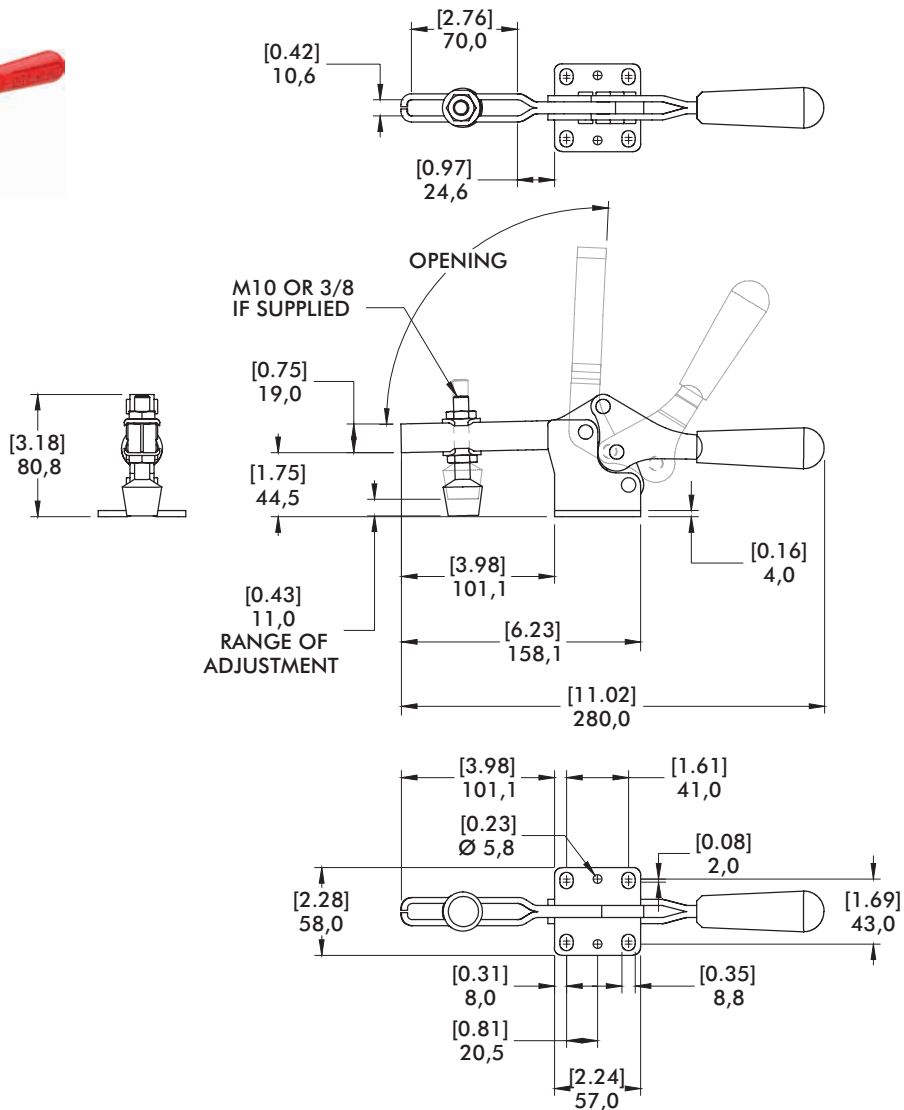
Holding Capacities



Model	X	X1	X2	Y	±HC1	±HC2	±EF(X1):AF	±EF(X2):AF
U	[0.81] 20,6	[1.75] 44,5	[4.50] 114,3	[5.25] 133,3	[750 lbf] 3340 N	[290 lbf] 1290 N	6:1	2:1
USS					[850 lbf] 3780 N	[330 lbf] 1470 N		

Dimensions shown "mm [inch]" ± HC = Holding Capacity, EF = Exerting Force, AF = Applied Force
See page MC-TEC-4 for additional information.

237-U Flanged Base U-Bar



245 SERIES

Horizontal Hold Down Clamps | Product Overview

Features:

- Low profile
- Large handle clearance in the open position.

Applications:

- Assembly
- Checking fixtures
- Welding

Also Available:

See page MC-ACC-1 for accessories

Accommodates M12 or 1/2" spindle accessory

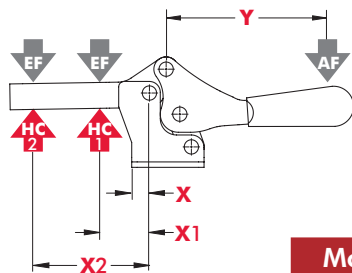
245-U
Flanged Base
U-Bar



Technical Information

Model	Max. Holding Capacity	Clamp Bar Opening (+10°)	Handle Opening (+10°)	Weight	Accessories (Supplied)	
					Spindle Assembly	Flanged Washers
245-U	4450 N [1000 lbf]	105°	74°	1,32 kg [2.90 lb]	247208-M	247109

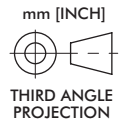
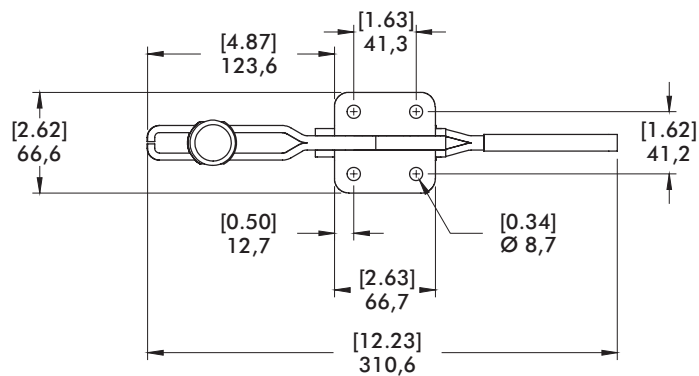
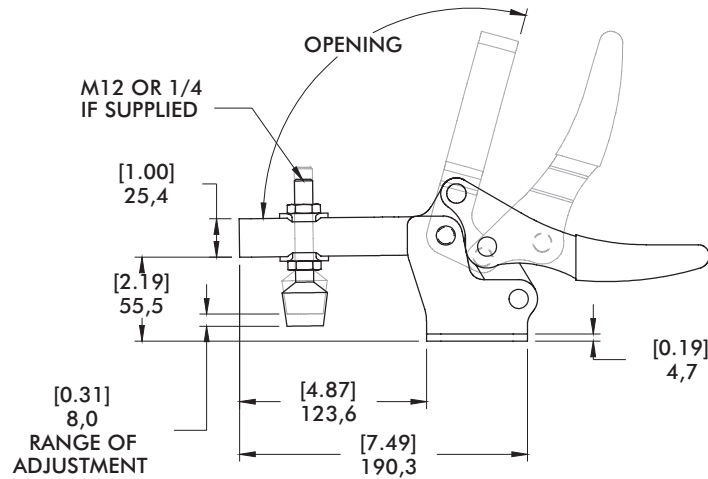
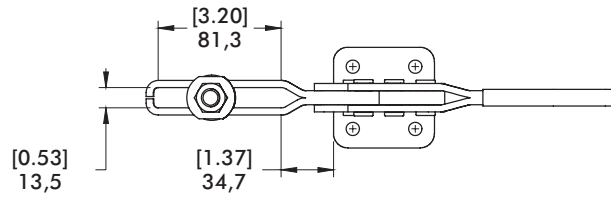
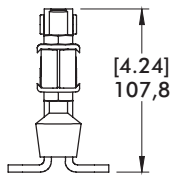
Holding Capacities



Model	X	X1	X2	Y	±HC1	±HC2	±EF(X1):AF	±EF(X2):AF
U	[0.50] 12,7	[2.00] 50,8	[5.00] 127	[6.09] 154,7	[1000 lbf] 4450 N	[400 lbf] 1780 N	11:1	5:1

Dimensions shown "mm [inch]" ± HC = Holding Capacity, EF = Exerting Force, AF = Applied Force
See page MC-TEC-4 for additional information.

245-U Flanged Base U-Bar



205 SERIES

Horizontal Hold Down Clamps | Product Overview

Features:

- Smallest of the Horizontal Hold Down clamps
- Ideal for light duty clamping in tight spaces
- Stainless steel models furnished without plastic grip

Applications:

- Assembly
- Closures
- Woodworking
- Light duty clamping

Also Available:

See page MC-ACC-1 for accessories

Accommodates M4 or #8 spindle accessory

205-U/USS
Flanged Base
U-Bar



-USS Stainless Steel Model

205-UB ⓘ
Straight Base
U-Bar



205-UL ⓘ
Left Flanged Base
U-Bar



205-UR ⓘ
Right Flanged Base
U-Bar



205-S/SSS
Flanged Base
Solid Bar



-USS Stainless Steel Model

205-SB ⓘ
Straight Base
Solid Bar



205-SL ⓘ
Left Flanged Base
Solid Bar



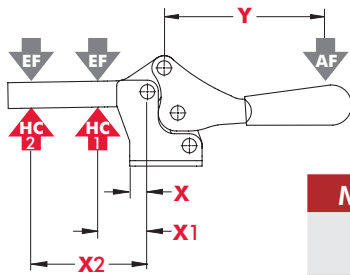
205-SR ⓘ
Right Flanged Base
Solid Bar



Technical Information

					Accessories (Supplied)	
Model	Max. Holding Capacity	Clamp Bar Opening (+10°)	Handle Opening (+10°)	Weight	Spindle Assembly	Flanged Washers
205-U	[60 lbf] 270 N	90°	80°	[0.06 lb] 0,03 kg	205208-M	105106
205-UB ⓘ						
205-UL ⓘ						
205-UR ⓘ						
205-USS	340 N [75 lbf]	94°	82°		205943-M	105906
205-S	[60 lbf] 270 N				205208-M	--
205-SB ⓘ						
205-SL ⓘ						
205-SR ⓘ						
205-SSS	340 N [75 lbf]				205943-M	

ⓘ This item is available upon request

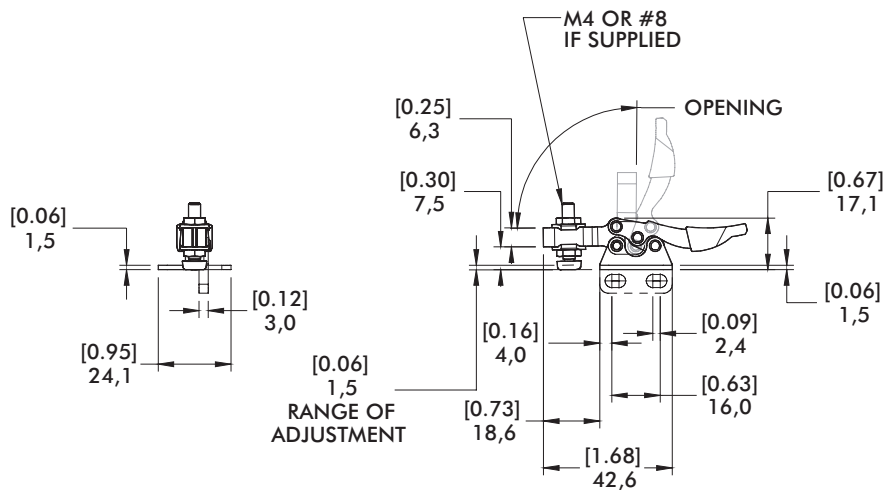
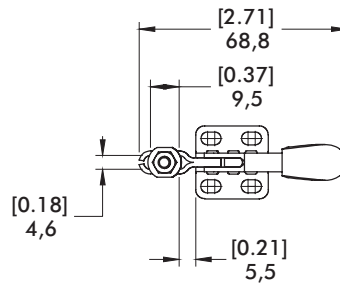


Model	X	X1	X2	Y	±HC1	±HC2	±EF(X1):AF	±EF(X2):AF
U		[0.43] 11			[60 lbf] 270 N	[50 lbf] 220 N	9:1	5:1
USS	[0.22] 5,6		[0.81] 20,5	[1.31] 33,2	[75 lbf] 340 N	[65 lbf] 290 N		
S		--			--	[60 lbf] 270 N	--	4:1
SSS						[75 lbf] 340 N		

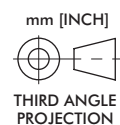
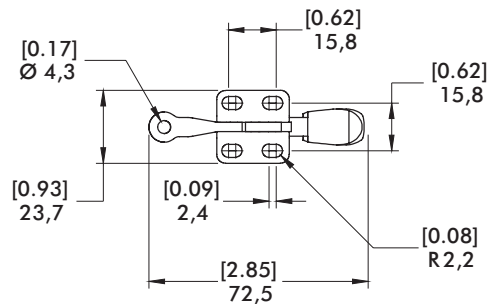
Dimensions shown "mm [inch]" ± HC = Holding Capacity, EF = Exerting Force, AF = Applied Force
See page MC-TEC-4 for additional information.

Dimensions | -U/-UB/-UL/-UR/-USS/-S/-SB/-SL/-SR/-SSS

205-U Flanged Base U-Bar



205-S Flanged Base Solid Bar



215 SERIES

Horizontal Hold Down Clamps | Product Overview

Features:

- Low profile
- Stainless steel model furnished without plastic grip

Applications:

- Assembly
- Checking fixtures
- Closures
- Woodworking

Also Available:

See page MC-ACC-1 for accessories
Accommodates M6 or 1/4" spindle accessory

215-U/USS

Flanged Base
U-Bar



215-UB ⓘ

Straight Base
U-Bar



215-S

Flanged Base
Solid Bar

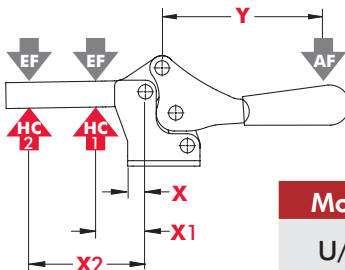


Technical Information

Model	Max. Holding Capacity	Clamp Bar Opening (+10°)	Handle Opening (+10°)	Weight	Accessories (Supplied)		
					Spindle Assembly	Flanged Washers	Bolt Retainer
215-U	890 N [200 lbf]	87°	78°	[0.34 lb] 0,15 kg	202208-M	215105	--
215-USS	1110 N [250 lbf]				202943-M	215905	
215-UB ⓘ	[200 lbf]				202208-M	215105	
215-S	890 N				--	--	205105

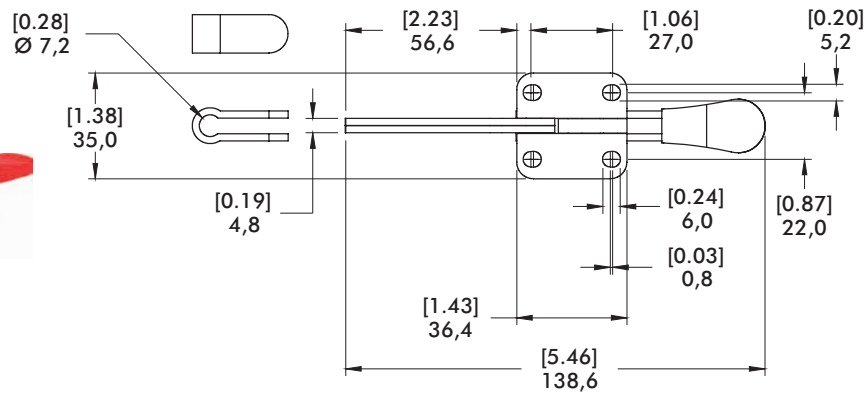
ⓘ This item is available upon request

Holding Capacities



Model	X	X1	X2	Y	‡HC1	‡HC2	‡EF(X1):AF	‡EF(X2):AF
U/UB		[1.00]	[2.25]		[200 lbf] 890 N	[80 lbf] 360 N	9:1	4:1
USS	[0.22] 5,6	25,4	57	[2.72] 69	[250 lbf] 1110 N	[110 lbf]		
S		[1.63] 41.4	[2.88] 73		[200 lbf] 890 N	490 N	6:1	

Dimensions shown "mm [inch]" ‡ HC = Holding Capacity, EF = Exerting Force, AF = Applied Force
See page MC-TEC-4 for additional information.



mm [INCH]



THIRD ANGLE
PROJECTION

225 SERIES

Horizontal Hold Down Clamps | Product Overview

Features:

- Low profile
- Stainless steel model furnished without plastic grip
- Available DESTACO® Toggle Lock Plus™

Applications:

- Assembly
- Checking fixtures
- Closures
- Woodworking

Also Available:

See page MC-ACC-1 for accessories

Accommodates M8 or 5/16" spindle accessory

Covered under one or more U.S./International Patents

225-U/USS Flanged Base U-Bar



-USS Stainless Steel Model

225-UR/URSS Flanged Base U-Bar

DESTACO®
Toggle Lock
Plus



-URSS Stainless Steel Model

225-UB/UBSS ⓘ Straight Base U Bar



-UBSS Stainless Steel Model

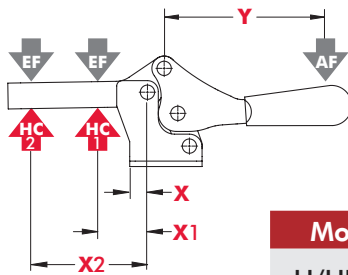
225-UF Front Mount Base U-Bar



Technical Information

Model	Max. Holding Capacity	Clamp Bar Opening (+10°)	Handle Opening (+10°)	Weight	Accessories (Supplied)	
					Spindle Assembly	Flanged Washers
225-U	2220 N [500 lbf]	92°	70°	0,25 kg [0.55 lb]	225208-M	507107
225-USS	2670 N [600 lbf]				207943-M	507907
225-UR	2220 N [500 lbf]			0,31 kg [0.69 lb]	225208-M	507107
225-URSS	2670 N [600 lbf]				207943-M	507907
225-UB ⓘ	2220 N [500 lbf]		71°	0,25 kg [0.55 lb]	225208-M	507107
225-UBSS ⓘ	2670 N [600 lbf]				207943-M	507907
225-UF	2220 N [500 lbf]			0,32 kg [0.70 lb]	215208-M	507107

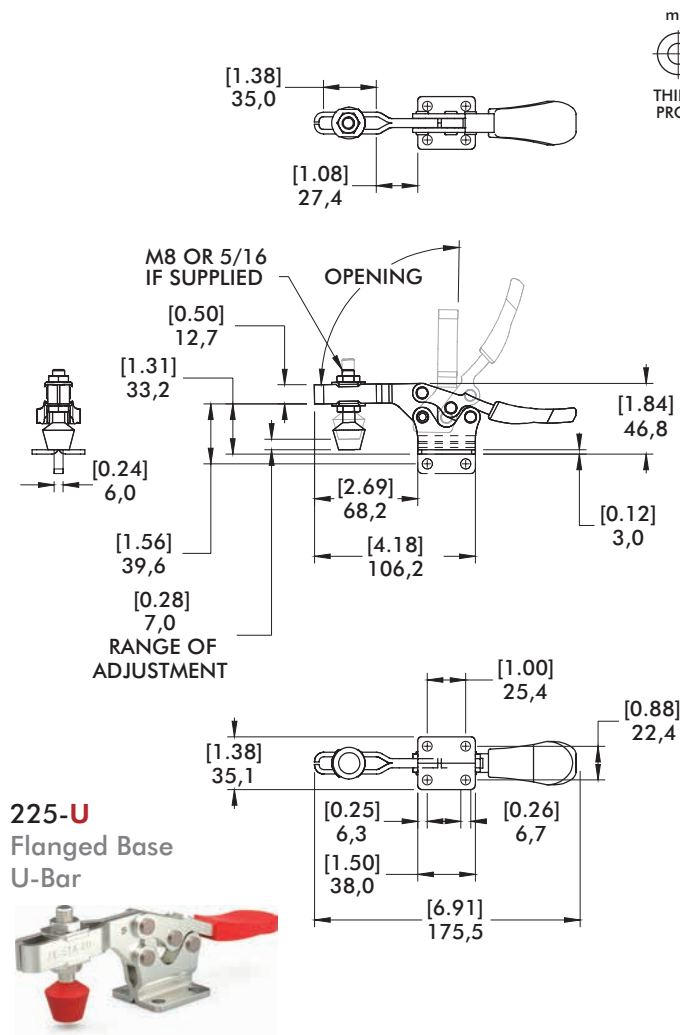
ⓘ This item is available upon request



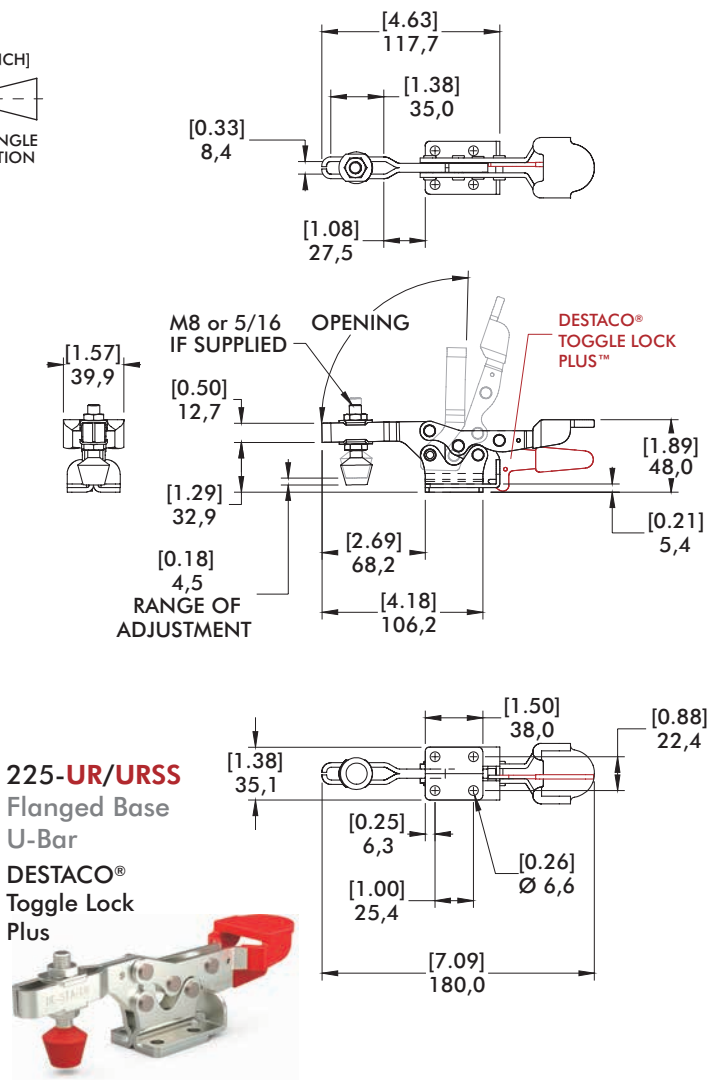
Model	X	X1	X2	Y	±HC1	±HC2	±EF(X1):AF	±EF(X2):AF
U/UR/UB	[0.12] 3,0	[1.25] 31,8	[2.50] 63,5	[3.56] 90,4	[500 lbf] 2220 N	[250 lbf] 1110 N	12:1	5:1
USS/URSS/ UBSS					[600 lbf] 2670 N	[300 lbf] 1340 N		

Dimensions shown "mm [inch]" ± HC = Holding Capacity, EF = Exerting Force, AF = Applied Force
See page MC-TEC-4 for additional information.

Dimensions | -U/-USS/-UB/-UBSS



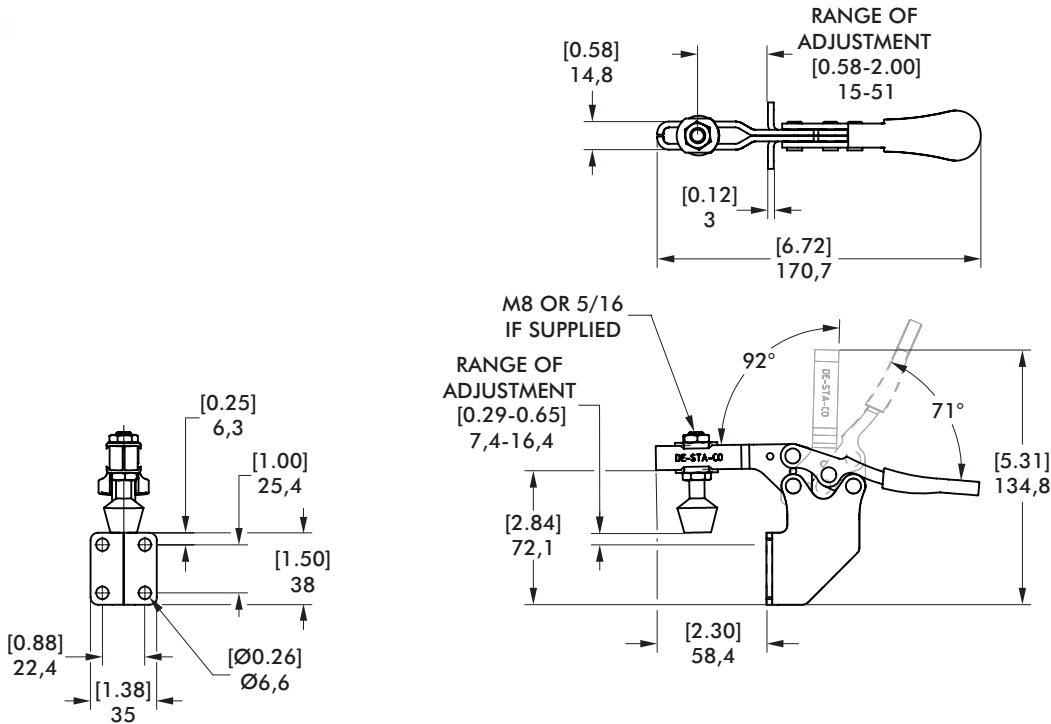
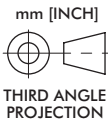
Dimensions | -UR/-URSS



225 SERIES

Horizontal Hold Down Clamps | Dimensions | -UF

225-UF
Front Mount Base
U-Bar



Horizontal Hold Down Clamps | Product Overview

Features:

- Low profile
- Available DESTACO® Toggle Lock Plus™
- Available in stainless steel
- 5 handle colors - see page MC-PRO-7 for details

Applications:

- Assembly
- Checking fixtures
- Welding
- Closures
- Woodworking

Also Available:

See page MC-ACC-1 for accessories

Accommodates M10 or 3/8" spindle accessory

Covered under one or more U.S./International Patents

235-U/USS Flanged Base U-Bar



-USS Stainless Steel Model



235-UR/URSS Flanged Base U-Bar



-URSS Stainless Steel Model

DESTACO®
Toggle Lock
Plus



235-UB① Straight Base U Bar



235-UF Front Mount Base U-Bar



Color Handles

Available on models in this series that use standard red handles*. Add -Y, -G, -B, -K to end of model number.

*Excludes Toggle Lock Plus levers or dipped handles.

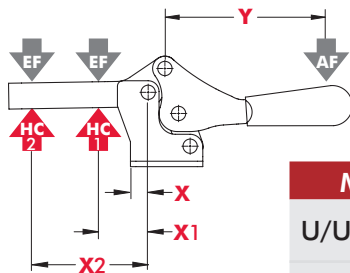


Technical Information

					Accessories (Supplied)	
Model	Max. Holding Capacity	Clamp Bar Opening (+10°)	Handle Opening (+10°)	Weight	Spindle Assembly	Flanged Washers
235-U	3340 N [750 lbf]	92°	70°	0,67 kg [1.47 lb]	240208-M	235106
235-USS	3780 N [850 lbf]				237943-M	235906
235-UR	3340 N [750 lbf]			0,74 kg [1.64 lb]	240208-M	235106
235-URSS	3780 N [850 lbf]				237943-M	235906
235-UB①	3340 N [750 lbf]			0,67 kg [1.47 lb]	240208-M	235106
235-UF				0,92 kg [2.03 lb]	2007208-M	507107

① This item is available upon request

Holding Capacities



Model	X	X1	X2	Y	±HC1	±HC2	±EF(X1):AF	±EF(X2):AF
U/UR/UB/UF	[0.25]	[1.75]	[4.13]	[5.75]	[750 lbf] 3340 N	[300 lbf] 1330 N	9:1	5:1
USS/URSS	6,4	44,5	105	146	[850 lbf] 3780 N	[360 lbf] 1600 N		

Dimensions shown "mm [inch]" ± HC = Holding Capacity, EF = Exerting Force, AF = Applied Force
See page MC-TEC-4 for additional information.

235 SERIES

Horizontal Hold Down Clamps | Dimensions | -U/-USS/-UR/-URSS/-UB

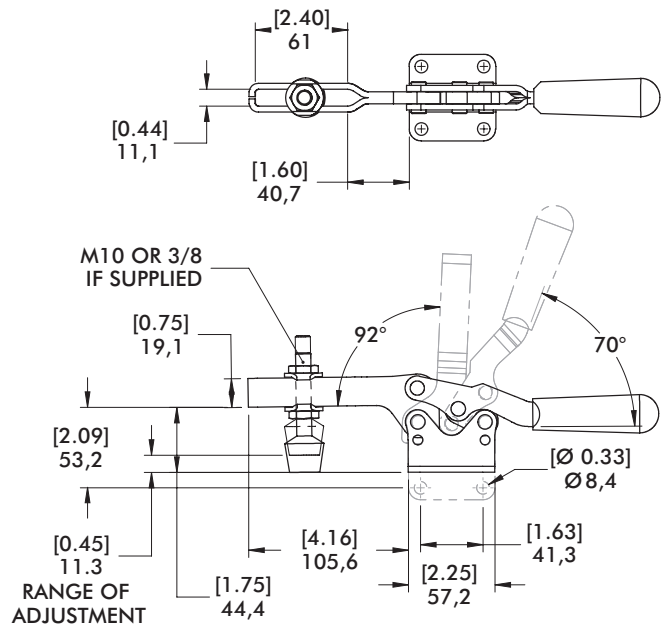
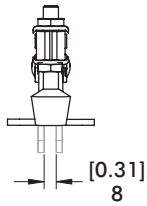
235-U

Flanged Base
U-Bar

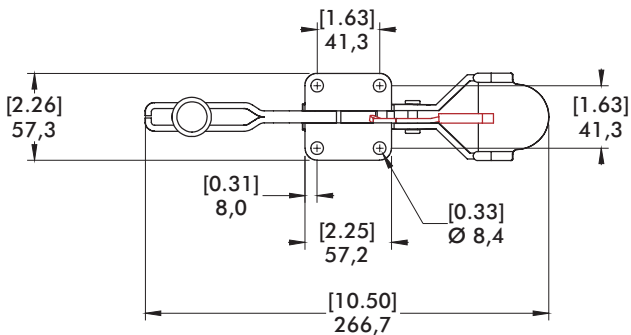
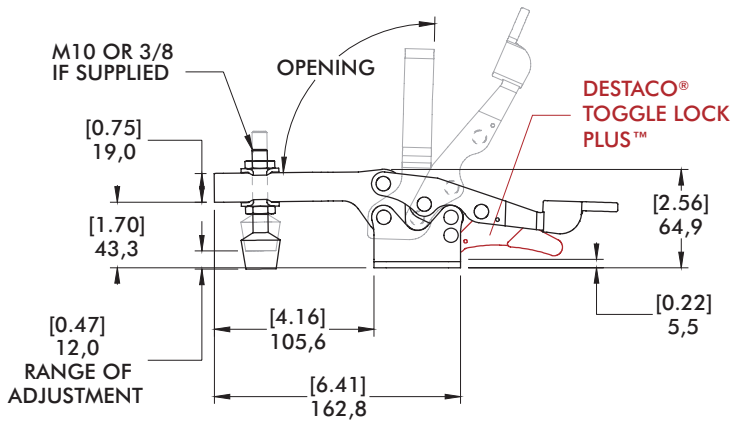
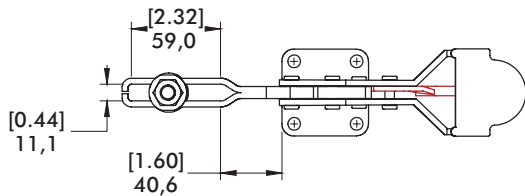


235-UB①

Straight Base
U Bar

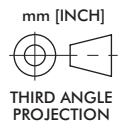


Dimensions | -UR



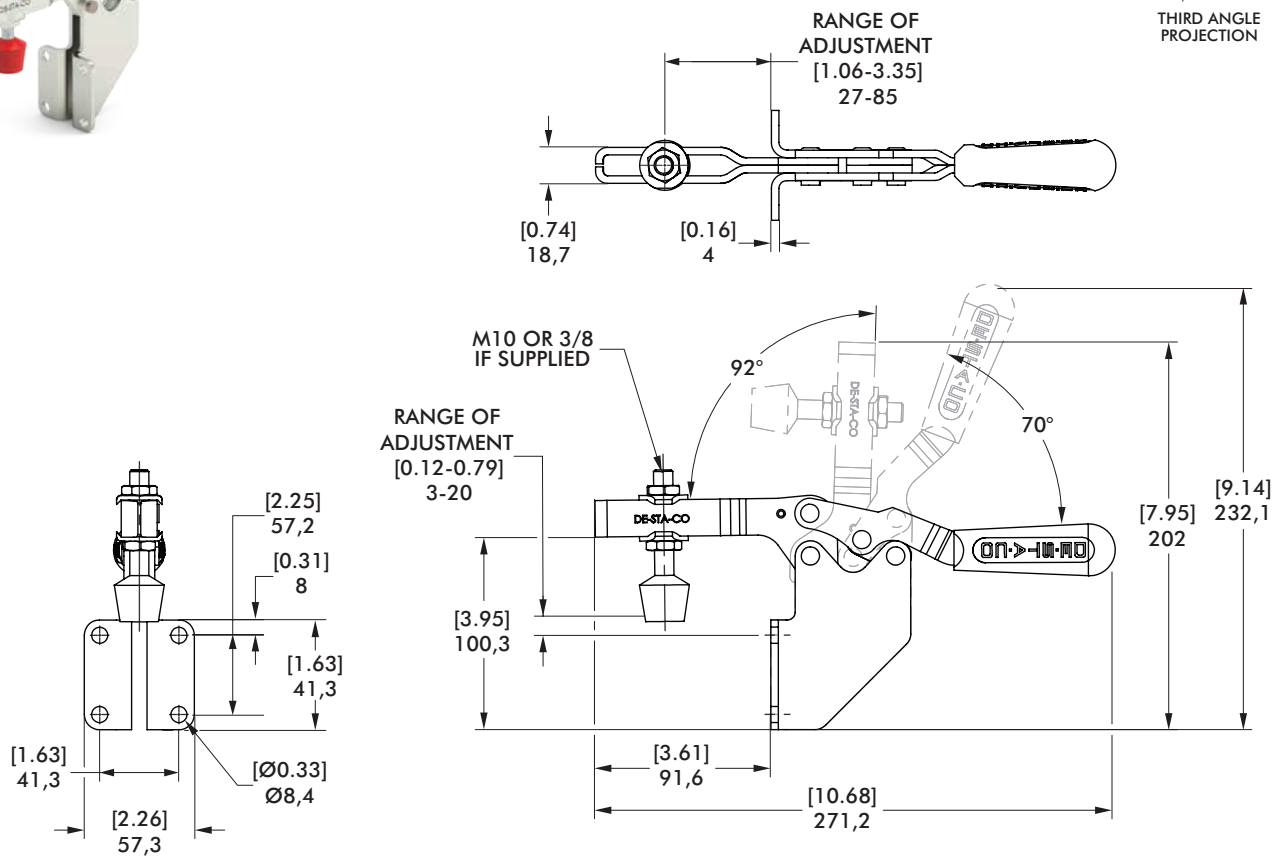
235-UR Flanged Base U-Bar

DESTACO®
Toggle
Lock
Plus™



235-UF

Front Mount Base
U-Bar



305, 307, 309 SERIES

Horizontal Hold Down Clamps | Product Overview

Features:

- Compact design suitable for use in confined spaces
- Available DESTACO® Toggle Lock Plus™
- Stainless steel models available

Applications:

- Assembly & Test
- Light Machining
- Closures
- Woodworking

Also Available:

See page MC-ACC-1 for accessories

305-U/USS Flanged Base U-Bar



-USS Stainless Steel Model



305-UR/URSS Flanged Base U-Bar



-URSS Stainless Steel Model

DESTACO®
Toggle Lock
Plus™



307-U/USS Flanged Base U-Bar



-USS Stainless Steel Model



307-UR/URSS Flanged Base U-Bar



-URSS Stainless Steel Model

DESTACO®
Toggle Lock
Plus™



309-U/USS Flanged Base U-Bar



-USS Stainless Steel Model



309-UR① Flanged Base U-Bar

DESTACO®
Toggle Lock
Plus™



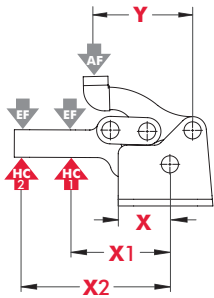
Technical Information

Model	Max. Holding Capacity	Clamp Bar Opening (+10°)	Handle Opening (+10°)	Weight	Accessories (Supplied)	
					Spindle Assembly	Flanged Washers
305-U	670 N [150 lbf]	90°	170°	0,06 kg [0.13 lb]	305208-M	102111
305-USS	900 N [200 lbf]				305908-M	102911
305-UR	670 N [150 lbf]				305208-M	102111
305-URSS	900 N [200 lbf]				305908-M	102911
307-U	1560 N [350 lbf]	92°	173°	0,24 kg [0.54 lb]	307208-M	507107
307-USS					442943	507907
307-UR					307208-M	507107
307-URSS					442943	507907
309-U	3340 N [750 lbf]	90°	168°	1,30 kg [0.59 lb]	309208	235106
309-USS					237943	235906
309-UR①					309208	235106

① This item is available upon request

305, 307, 309 SERIES

Horizontal Hold Down Clamps | Holding Capacities

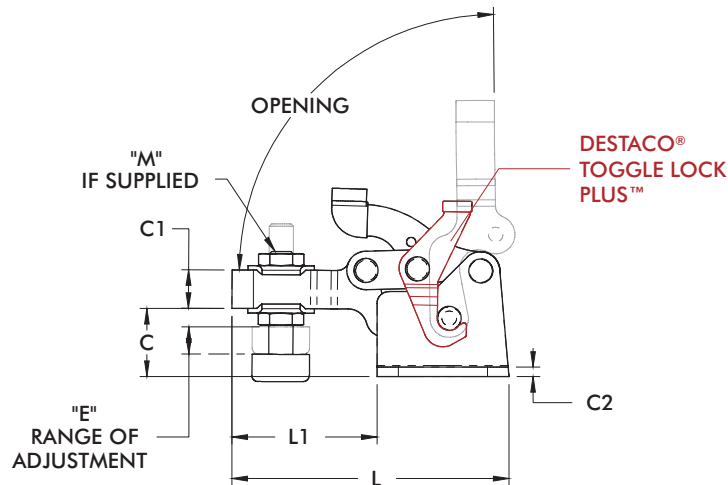
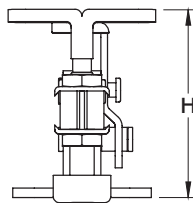
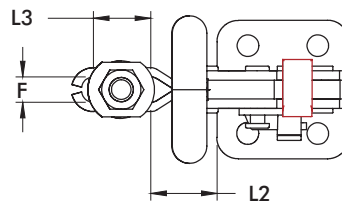


Model	X	X1	X2	Y	±HC1	±HC2	±EF(X1):AF	±EF(X2):AF
305-U/UR	[0.58]	[1.38]	[1.88]	[1.14]	[150 lbf] 670 N	[110 lbf] 490 N	3:1	2:1
305-USS/ 305-URSS	14,6	35	47,7	29	[200 lbf] 900 N	[150 lbf] 670 N		
307-U/UR/ USS/URSS	[0.94]	[1.88]	[2.50]	[1.77]	[350 lbf] 1560 N	[260 lbf] 1160 N		
309- U/UR/USS	[1.34]	[2.50]	[3.50]	[2.70]	[750 lbf] 3340 N	[530 lbf] 2360 N	4:1	
	34	63,5	89	68,5				

Dimensions shown "mm [inch]" ± HC = Holding Capacity, EF = Exerting Force, AF = Applied Force
See page MC-TEC-4 for additional information.

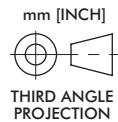
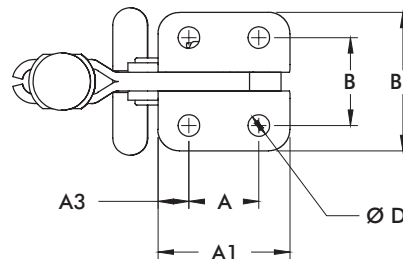
Dimensions | -U/-USS/-UR/-URSS

305-U Flanged Base U-Bar



307-UR Flanged Base U-Bar

DESTACO® Toggle Lock Plus™



Model	A	A1	A3	B	B1	C	C1	C2	D	E	F	H	L	L1	L2	L3	M
305-U/UR	[0.53] 13,5	[1.035] 26,3	[0.25] 6,4	[0.62] 16,0	[1.02] 25,9	[0.48] 12,2	[0.31] 7,9	[0.08] 2,0	[0.18] 4,6	[0.31] 8	[0.21] 5,3	[1.43] 36,3	[2.21] 56,1	[1.19] 30,2	[0.51] 13,0	[0.50] 12,7	[#10] M5
307-U/UR	[0.91] 23,1	[1.72] 43,7	[0.40] 10,2	[1.14] 29,0	[1.80] 45,7	[0.89] 22,6	[0.50] 12,7	[0.12] 3,0	[0.28] 7,1	[0.37] 9,5	[0.33] 8,4	[2.36] 59,9	[3.61] 91,7	[1.89] 48,0	[0.86] 21,8	[0.75] 19,1	[5/16] M8
309-U/UR	[1.38] 35,1	[2.52] 64,0	[0.58] 14,7	[1.50] 38,1	[2.47] 62,7	[1.31] 33,3	[0.75] 19,1	[0.12] 3,0	[0.33] 8,4	[0.72] 18,5	[0.44] 10,4	[3.53] 89,7	[5.19] 131,8	[2.68] 68,1	[1.28] 32,5	[1.06] 26,9	[3/8-16] M10

206 SERIES

Horizontal Hold Down Clamps | Product Overview

Features:

- All stainless steel construction
- Offers good bar clearance under clamping bar while maintaining low profile

Applications:

- Assembly
- Chemical processing
- Closures
- Light duty clamping

Also Available:

See page MC-ACC-1 for accessories
Accommodates M4 or #8 spindle accessory

206-SS
Flanged Base
Low U-Bar
Stainless Steel



206-HSS
Flanged Base
High U-Bar
Stainless Steel

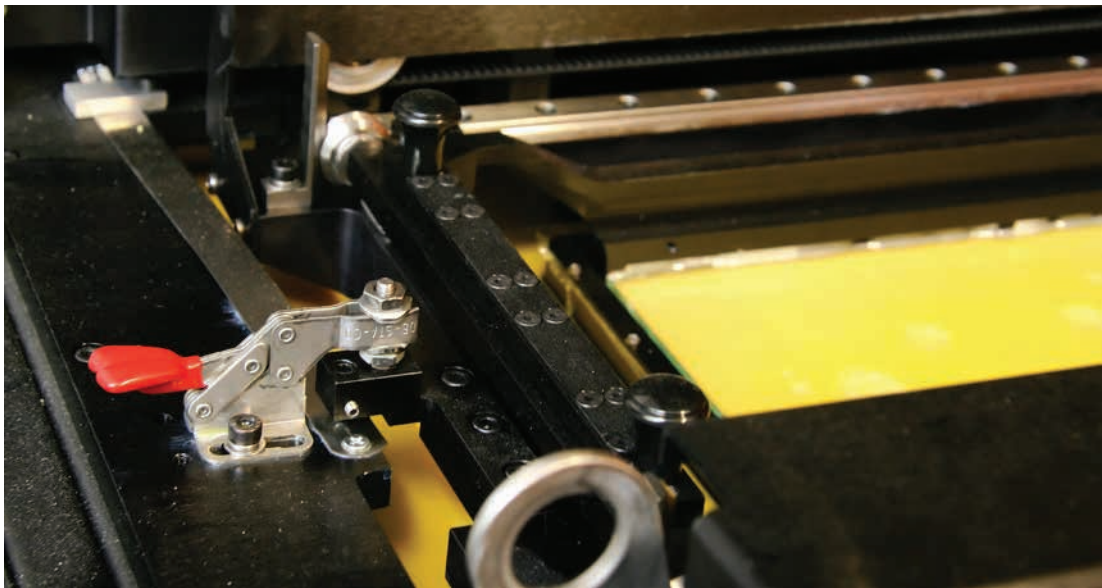


Technical Information

Model	Max. Holding Capacity	Clamp Bar Opening (+10°)	Handle Opening (+10°)	Weight	Accessories (Supplied)	
					Spindle Assembly	Flanged Washers
206-SS	440 N [100 lbf]	90°	90°	0,03 kg [0.07 lb]	205943-M	105906
206-HSS		85°*	85°*			

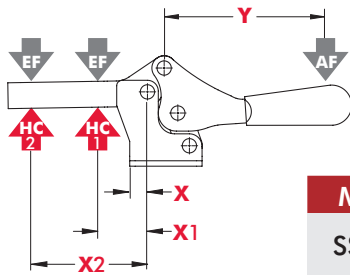
*with spindle installed

Model 206-HSS shown securing a platen on a prototyping machine.



206 SERIES

Horizontal Hold Down Clamps | Holding Capacities

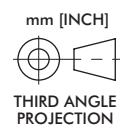
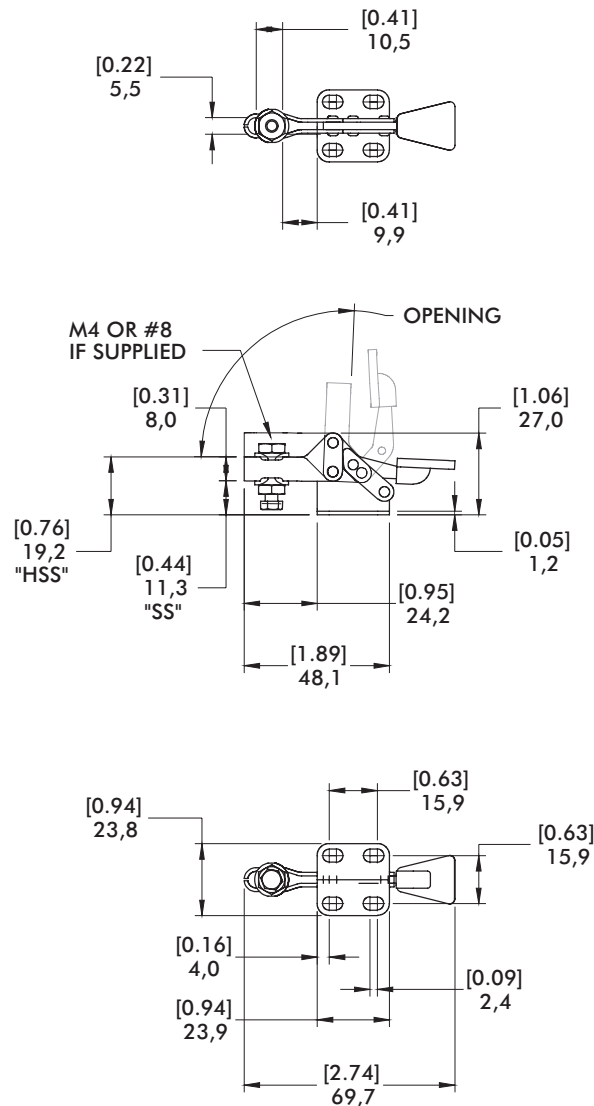


Model	X	X1	X2	Y	±HC1	±HC2	±EF(X1):AF	±EF(X2):AF
SS/HSS	[0.20] 5	[0.43] 11	[1.06] 27	[1.14] 29	[100 lbf] 440 N	[50 lbf] 220 N	5:1	3:1

Dimensions shown "mm [inch]" ± HC = Holding Capacity, EF = Exerting Force, AF = Applied Force
See page MC-TEC-4 for additional information.

Dimensions | -SS/-HSS

206-SS
Flanged Base
Low U-Bar
Stainless Steel



5305, 5310 SERIES

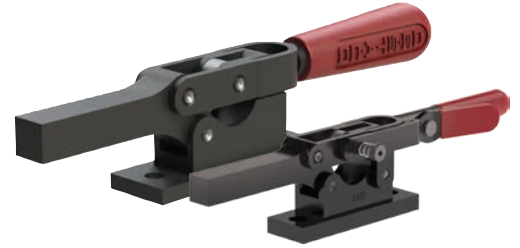
Heavy Duty Horizontal Hold Down Clamps | Product Overview

Features:

- Solid clamping arm may be modified to suit requirements
- Hardened steel pivot pins and bushings provide long life
- Black oxide finish
- DESTACO® Toggle Lock Plus™ versions available†
- 5 handle colors - see page MC-PRO-7 for details

Applications:

- Welding fixtures
- Assembly fixtures
- Light machining



5305/5310
Flanged Base



5305-B/5310-B
Solid
Base



5305-R/5310-R
Flanged Base
DESTACO®
Toggle Lock
Plus™



5305-BR①/5310-BR①
Solid Base
DESTACO®
Toggle Lock
Plus™



Technical Information

Model	Max. Holding Capacity	Clamp Bar Opening (+10°)	Handle Opening (+10°)	Weight
5305	[600 lbf] 2670 N	90°	69°	[1.08lbs] 0,49 kg
5305-B				[0.82lbs] 0,37 kg
5305-R				[1.09lbs] 0,49 kg
5305-BR①				[0.83lbs] 0,37 kg
5310	[1300 lbf] 5780 N	90°	69°	[2.84lbs] 1,29 kg
5310-B				[2.24lbs] 1,02 kg
5310-R				[2.87lbs] 1,30 kg
5310-BR①				[2.27lbs] 1,03 kg

① This item is available upon request.

† Toggle Lock Plus™ locks the handle in the closed position only.

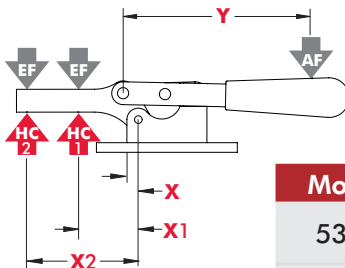
Color Handles

Available on models in this series that use standard red handles.* Add -Y, -G, -B, -K to end of model number.

*Excludes Toggle Lock Plus levers or dipped handles.



Holding Capacities



Model	X	X1	X2	Y	‡HC1	‡HC2	‡EF(X1):AF	‡EF(X2):AF
5305	[0.25] 6.3	[1.57] 40	[2.75] 70	[4.92] 125	[600 lbf] 2670 N	[340 lbf] 1500 N	10:1	5:1
5310	[0.38] 9.5	[1.97] 50	[3.66] 93	[6.10] 155	[1300 lbf] 5780 N	[675 lbf] 3000 N	10:1	8:1

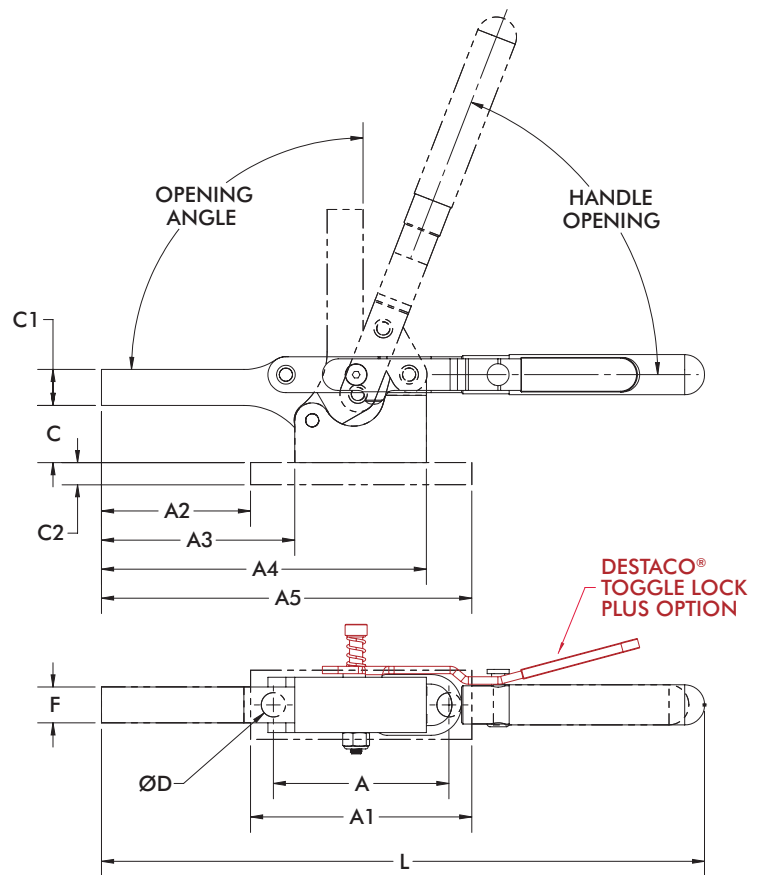
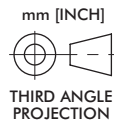
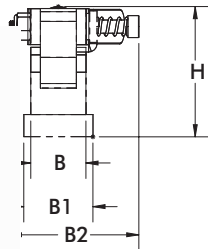
Dimensions shown "mm [inch]" ‡ HC = Holding Capacity, EF = Exerting Force, AF = Applied Force
See page MC-TEC-4 for additional information.

5305, 5310 SERIES

Heavy Duty Horizontal Hold Down Clamps | Dimensions



5305/5310
Flanged Base



Model	A	A1	A2	A3	A4	A5	B	B1	B2	C	C1	C2	D	F	H	L
5305	[2.50] 63,5	[3.15] 80,0	[2.12] 53,8	[2.75] 69,9	[4.63] 117,6	[5.27] 133,9	[0.79] 20,1	[0.98] 24,9	--	[0.81] 20,6	[0.51] 13,0	[0.31] 7,9	[0.35] 8,9	[0.51] 13,0	[1.51] 38,4	[8.36] 212,4
5305-R									[1.84] 46,7							
5310	[3.63] 92,2	[4.63] 117,6	[2.63] 66,8	[3.63] 92,2	[6.25] 158,8	[7.25] 184,2	[1.13] 28,7	[1.50] 38,1	--	[1.00] 25,4	[0.75] 19,1	[0.31] 7,9	[0.41] 10,4	[0.79] 20,1	[2.00] 50,8	[11.13] 282,6
5310-R									[2.31] 58,7							[11.02] 279,8

Model	A3	A4	B2	C	C1	F	H	L
5305-B	[2.75] 69,9	[4.63] 117,6	--	[0.81] 20,6	[0.51] 13,0	[0.51] 13,0	[1.51] 38,4	[8.36] 212,4
5305-BR ^①			[1.84] 46,7					
5310-B	[3.63] 92,2	[6.25] 158,8	--	[1.00] 25,4	[0.75] 19,1	[0.79] 20,1	[2.35] 59,6	[11.13] 282,6
5310-BR ^①			[2.31] 58,7					[11.02] 279,8

① This item is available upon request



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