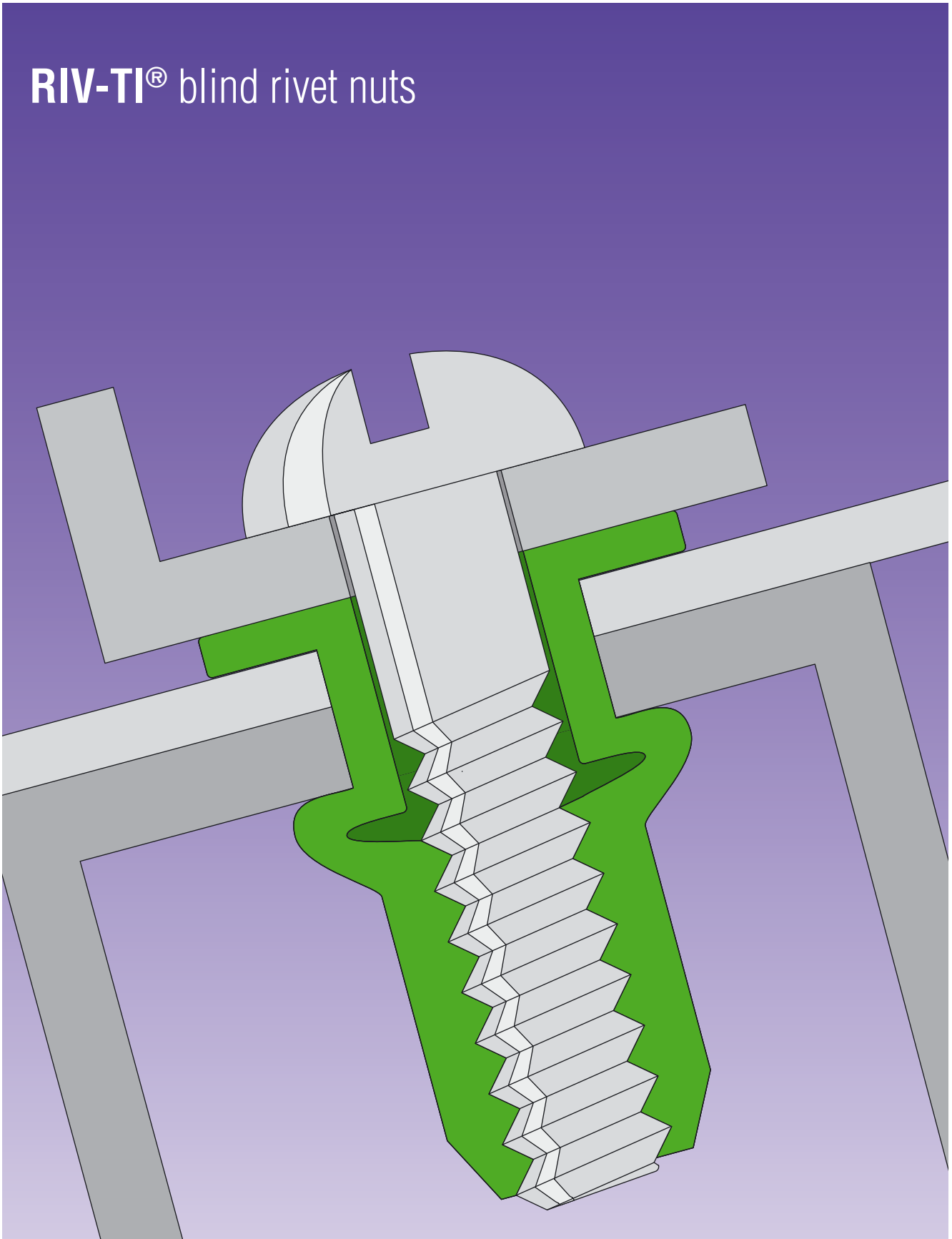


# TITGEMEYER<sup>GTO</sup>

*YOUR SOLUTION*

## RIV-TI<sup>®</sup> blind rivet nuts

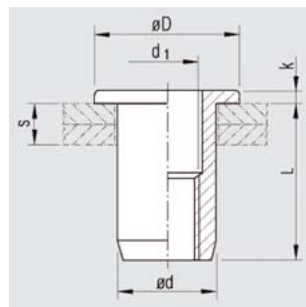


# RIV-TI® blind rivet nuts

Flat head  
Round body, open end

## Material

 Aluminium



Thread d1	Grip range s [mm]	Hole $\varnothing$ [mm]	Body- $\varnothing$ d [mm]	Head- $\varnothing$ D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M3	0.5 - 2.0	5.1	5.0	8.0	0.75	9.75	<b>336 351<sup>1</sup></b>
	2.0 - 3.0	5.1	5.0	8.0	0.75	10.75	<b>336 353<sup>1,2</sup></b>
M4	0.5 - 3.0	6.1	6.0	10.0	0.75	10.75	<b>336 453</b>
	3.0 - 4.5	6.1	6.0	10.0	0.75	12.25	<b>336 455</b>
M5	0.5 - 3.0	7.1	7.0	11.0	1.0	12.0	<b>336 552</b>
	3.0 - 5.5	7.1	7.0	11.0	1.0	15.0	<b>336 554</b>
M6	0.5 - 3.0	9.1	9.0	13.0	1.5	14.5	<b>336 631</b>
	3.0 - 5.5	9.1	9.0	13.0	1.5	16.5	<b>336 633</b>
	5.5 - 8.0	9.1	9.0	13.0	1.5	19.0	<b>336 634<sup>1</sup></b>
M8	0.5 - 3.0	11.1	11.0	16.0	1.5	16.0	<b>336 771</b>
	3.0 - 5.5	11.1	11.0	16.0	1.5	18.5	<b>336 773</b>
	5.5 - 8.0	11.1	11.0	16.0	1.5	21.5	<b>336 775<sup>2</sup></b>
M10	0.8 - 3.5	12.6	12.4	18.5	2.3	19.8	<b>336 901</b>
	3.5 - 6.0	12.6	12.4	18.5	2.3	22.8	<b>336 903<sup>2</sup></b>

<sup>1</sup> No lead-in chamfer


<sup>2</sup> Not standard stock - minimum quantity on request

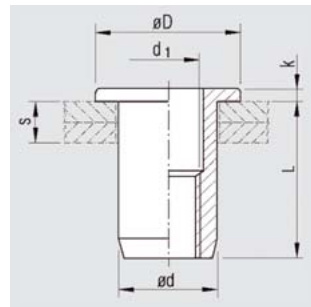
Other types on request.

We reserve the right to amend specifications at any time.

Flat head  
Round body, open end

**Material**

 Steel, zinc, passivate



Thread d1	Grip range s [mm]	Hole $\varnothing$ [mm]	Body- $\varnothing$ d [mm]	Head- $\varnothing$ D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M3	0.5 - 2.0	5.1	5.0	8.0	0.75	9.75	<b>336 181<sup>1</sup></b>
	2.0 - 3.0	5.1	5.0	8.0	0.75	10.75	<b>336 183<sup>1,2</sup></b>
M4	0.5 - 3.0	6.1	6.0	10.0	0.75	10.75	<b>336 223</b>
	3.0 - 4.5	6.1	6.0	10.0	0.75	12.25	<b>336 225</b>
M5	0.5 - 3.0	7.1	7.0	11.0	1.0	12.0	<b>336 262</b>
	3.0 - 5.5	7.1	7.0	11.0	1.0	15.0	<b>336 264</b>
M6	0.5 - 3.0	9.1	9.0	13.0	1.5	14.5	<b>336 711</b>
	3.0 - 5.5	9.1	9.0	13.0	1.5	16.5	<b>336 713</b>
	5.5 - 8.0	9.1	9.0	13.0	1.5	19.0	<b>336 714</b>
M8	0.5 - 3.0	11.1	11.0	16.0	1.5	16.0	<b>336 857</b>
	3.0 - 5.5	11.1	11.0	16.0	1.5	18.5	<b>336 859</b>
	5.5 - 8.0	11.1	11.0	16.0	1.5	21.5	<b>336 860</b>
M10	0.8 - 3.5	12.6	12.4	18.5	2.3	19.8	<b>336 987</b>
	3.5 - 6.0	12.6	12.4	18.5	2.3	22.8	<b>336 989</b>
	0.8 - 3.5	13.1	13.0	19.0	2.0	21.0	<b>336 988</b>
	3.5 - 6.0	13.1	13.0	19.0	2.0	24.0	<b>336 990<sup>2</sup></b>
M12	1.0 - 4.0	16.1	16.0	23.0	2.0	25.0	<b>336 011</b>
	4.0 - 7.0	16.1	16.0	23.0	2.0	28.0	<b>336 012</b>

<sup>1</sup> No lead-in chamfer

<sup>2</sup> Not standard stock - minimum quantity on request

Other types on request.

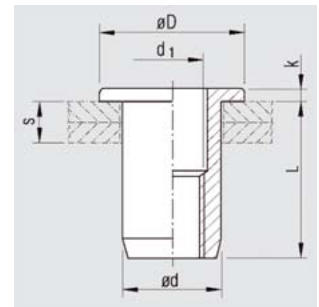
We reserve the right to amend specifications at any time.

# RIV-TI® blind rivet nuts

Flat head  
Round body, open end

## Material

Stainless Steel A2 1.4567



Thread d1	Grip range s [mm]	Hole $\varnothing$ [mm]	Body- $\varnothing$ d [mm]	Head- $\varnothing$ D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 2.0	6.1	6.0	9.0	1.0	11.0	<b>334 225</b>
	2.0 - 3.5	6.1	6.0	9.0	1.0	12.5	<b>334 226</b>
M5	0.5 - 3.0	7.1	7.0	10.0	1.0	11.5	<b>334 266</b>
	3.0 - 5.0	7.1	7.0	10.0	1.0	15.0	<b>334 267</b>
M6	0.5 - 3.0	9.1	9.0	12.0	1.5	14.5	<b>334 716</b>
	3.0 - 5.0	9.1	9.0	12.0	1.5	16.5	<b>334 717</b>
	5.0 - 7.0	9.1	9.0	12.0	1.5	18.5	<b>334 719</b>
M8	0.5 - 3.0	11.1	11.0	15.0	1.5	16.0	<b>334 855</b>
	3.0 - 5.5	11.1	11.0	15.0	1.5	18.5	<b>334 856</b>
	5.5 - 8.0	11.1	11.0	15.0	1.5	21.5	<b>334 857</b>
M10	0.8 - 3.0	12.1	12.0	15.0	1.0	18.5	<b>334 985</b>
	3.0 - 5.0	12.1	12.0	15.0	1.0	20.5	<b>334 986</b>
	0.8 - 3.5	13.1	13.0	17.0	1.5	21.5	<b>334 987</b>
	3.5 - 6.0	13.1	13.0	17.0	1.5	24.0	<b>334 988</b>

Other types on request.

We reserve the right to amend specifications at any time.

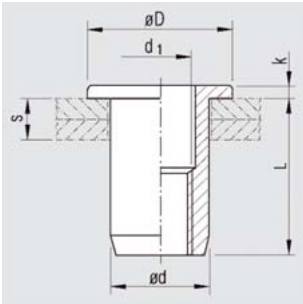
Flat head  
Round body, open end

**Material**

Stainless Steel A4 1.4578



extra-high  
corrosion resistance



Thread d1	Grip range s [mm]	Hole ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 2.0	6.1	6.0	9.0	1.0	11.0	<b>334 221</b>
M5	0.5 - 3.0	7.1	7.0	10.0	1.0	11.5	<b>334 268</b>
M6	0.5 - 3.0	9.1	9.0	12.0	1.5	14.5	<b>334 718</b>
	3.0 - 5.0	9.1	9.0	12.0	1.5	16.5	<b>334 721</b>
	5.0 - 7.0	9.1	9.0	12.0	1.5	18.5	<b>334 720</b>
M8	0.5 - 3.0	11.1	11.0	15.0	1.5	16.0	<b>334 870</b>
	3.0 - 5.5	11.1	11.0	15.0	1.5	18.5	<b>334 871</b>
	4.5 - 7.0	11.1	11.0	15.0	1.5	20.0	<b>334 872</b>
M10	0.8 - 3.5	13.1	13.0	17.0	1.5	21.5	<b>334 873</b>

Other types on request.

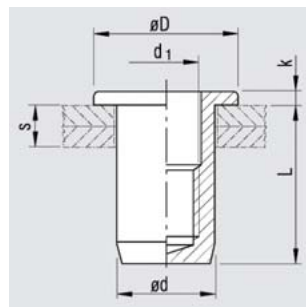
We reserve the right to amend specifications at any time.

## RIV-TI® blind rivet nuts

Flat head  
Round body, closed end

### Material

 Aluminium



Thread d1	Grip range s [mm]	Hole ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M3	0.5 - 2.0	5.1	5.0	8.0	0.75	13.25	<b>336 432<sup>2</sup></b>
M4	0.5 - 3.0	6.1	6.0	10.0	0.75	14.75	<b>336 433</b>
	3.0 - 4.5	6.1	6.0	10.0	0.75	16.3	<b>336 434</b>
M5	0.5 - 3.0	7.1	7.0	11.0	1.0	18.0	<b>336 532</b>
	3.0 - 5.5	7.1	7.0	11.0	1.0	20.5	<b>336 534<sup>2</sup></b>
M6	0.5 - 3.0	9.1	9.0	13.0	1.5	21.5	<b>336 611</b>
	3.0 - 5.5	9.1	9.0	13.0	1.5	24.5	<b>336 613<sup>2</sup></b>
M8	0.5 - 3.0	11.1	11.0	16.0	1.5	22.5	<b>336 751</b>
	3.0 - 5.5	11.1	11.0	16.0	1.5	25.5	<b>336 753<sup>2</sup></b>


<sup>2</sup> Not standard stock - minimum quantity on request

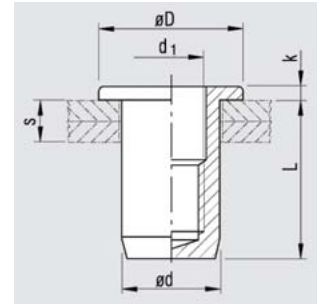
Other types on request.

We reserve the right to amend specifications at any time.

Flat head  
Round body, closed end

**Material**

 Steel, zinc, passivate



Thread d1	Grip range s [mm]	Hole ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 3.0	6.1	6.0	10.0	0.75	14.75	<b>336 203</b>
	3.0 - 4.5	6.1	6.0	10.0	0.75	16.25	<b>336 205<sup>2</sup></b>
M5	0.5 - 3.0	7.1	7.0	11.0	1.0	18.0	<b>336 242</b>
	3.0 - 5.5	7.1	7.0	11.0	1.0	20.5	<b>336 244<sup>2</sup></b>
M6	0.5 - 3.0	9.1	9.0	13.0	1.5	21.5	<b>336 691</b>
	3.0 - 5.5	9.1	9.0	13.0	1.5	24.5	<b>336 693</b>
M8	0.5 - 3.0	11.1	11.0	16.0	1.5	22.5	<b>336 837</b>
	3.0 - 5.5	11.1	11.0	16.0	1.5	25.5	<b>336 839</b>

<sup>2</sup> Not standard stock - minimum quantity on request

Other types on request.

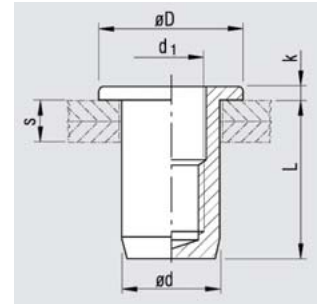
We reserve the right to amend specifications at any time.

# RIV-TI® blind rivet nuts

Flat head  
Round body, closed end

## Material

Stainless Steel A2 1.4567



Thread d1	Grip range s [mm]	Hole $\varnothing$ [mm]	Body- $\varnothing$ d [mm]	Head- $\varnothing$ D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 2.0	6.1	6.0	9.0	1.0	15.0	<b>334 207</b>
M5	0.5 - 3.0	7.1	7.0	10.0	1.0	17.5	<b>334 242</b>
M6	0.5 - 3.0	9.1	9.0	12.0	1.5	21.5	<b>334 691</b>
	3.0 - 5.0	9.1	9.0	12.0	1.5	23.5	<b>334 694</b>
M8	0.5 - 3.0	11.1	11.0	15.0	1.5	23.5	<b>334 841</b>
	3.0 - 5.5	11.1	11.0	15.0	1.5	26.0	<b>334 848</b>
M10	0.8 - 3.5	13.1	13.0	17.0	1.5	28.5	<b>334 849</b>

Other types on request.

We reserve the right to amend specifications at any time.



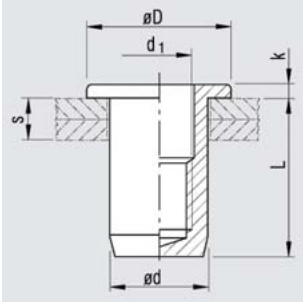
Flat head  
Round body, closed end

**Material**

Stainless Steel A4 1.4578



extra-high  
corrosion resistance



Thread d1	Grip range s [mm]	Hole ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 2.0	6.1	6.0	9.0	1.0	15.0	<b>334 415</b>
M5	0.5 - 3.0	7.1	7.0	10.0	1.0	17.5	<b>334 445</b>
M6	0.5 - 3.0	9.1	9.0	12.0	1.5	21.5	<b>334 698</b>
M8	0.5 - 3.0	11.1	11.0	15.0	1.5	23.5	<b>334 843</b>

Other types on request.

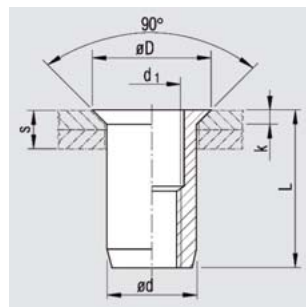
We reserve the right to amend specifications at any time.

# RIV-TI® blind rivet nuts

Countersunk head  
Round body, open end

## Material

 Aluminium



Thread d1	Grip range s [mm]	Hole $\varnothing$ [mm]	Body- $\varnothing$ d [mm]	Head- $\varnothing$ D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M3	1.7 - 3.5	5.1	5.0	8.0	1.5	11.3	<b>336 361<sup>1</sup></b>
M4	1.7 - 3.5	6.1	6.0	9.0	1.5	11.5	<b>336 461</b>
	3.5 - 5.0	6.1	6.0	9.0	1.5	13.0	<b>336 465</b>
M5	1.7 - 4.0	7.1	7.0	10.0	1.5	13.0	<b>336 561</b>
	4.0 - 6.5	7.1	7.0	10.0	1.5	16.0	<b>336 563</b>
M6	1.7 - 4.5	9.1	9.0	12.0	1.5	17.0	<b>336 641</b>
	4.5 - 6.5	9.1	9.0	12.0	1.5	19.0	<b>336 642</b>
M8	1.7 - 4.5	11.1	11.0	14.0	1.5	19.0	<b>336 781</b>
	4.5 - 6.5	11.1	11.0	14.0	1.5	21.0	<b>336 782<sup>2</sup></b>
M10	1.7 - 4.5	12.6	12.4	15.4	1.5	21.0	<b>336 911<sup>2</sup></b>
	4.5 - 6.5	12.6	12.4	15.4	1.5	23.0	<b>336 912<sup>2</sup></b>

<sup>1</sup> No lead-in chamfer


<sup>2</sup> Not standard stock - minimum quantity on request

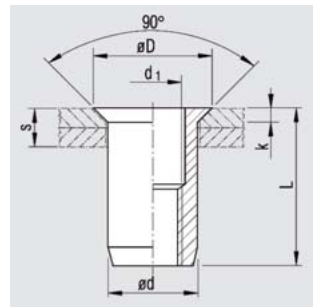
Other types on request.

We reserve the right to amend specifications at any time.

Countersunk head  
Round body, open end

**Material**

 Steel, zinc, passivate



Thread d1	Grip range s [mm]	Hole ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M3	1.7 - 3.5	5.1	5.0	8.0	1.5	11.3	<b>336 191</b> <sup>1,2</sup>
M4	1.7 - 3.5	6.1	6.0	9.0	1.5	11.5	<b>336 231</b>
	3.5 - 5.0	6.1	6.0	9.0	1.5	13.0	<b>336 235</b> <sup>2</sup>
M5	1.7 - 4.0	7.1	7.0	10.0	1.5	13.0	<b>336 271</b>
	4.0 - 6.5	7.1	7.0	10.0	1.5	16.0	<b>336 273</b>
M6	1.7 - 4.5	9.1	9.0	12.0	1.5	17.0	<b>336 721</b>
	4.5 - 6.5	9.1	9.0	12.0	1.5	19.0	<b>336 722</b>
M8	1.7 - 4.5	11.1	11.0	14.0	1.5	19.0	<b>336 867</b>
	4.5 - 6.5	11.1	11.0	14.0	1.5	21.0	<b>336 868</b>
M10	1.7 - 4.5	12.6	12.4	15.4	1.5	21.0	<b>336 997</b>
	4.5 - 6.5	12.6	12.4	15.4	1.5	23.0	<b>336 998</b>
M12	2.0 - 4.5	16.1	16.0	19.0	1.8	26.0	<b>336 021</b>
	4.5 - 7.5	16.1	16.0	19.0	1.8	29.0	<b>336 022</b>

<sup>1</sup> No lead-in chamfer

<sup>2</sup> Not standard stock - minimum quantity on request

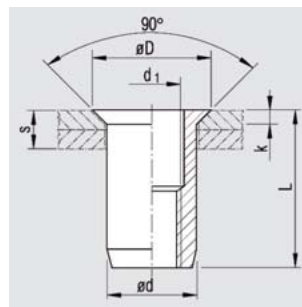
Other types on request.

# RIV-TI® blind rivet nuts

Countersunk head  
Round body, open end

## Material

Stainless Steel A2 1.4567



Thread d1	Grip range s [mm]	Hole $\varnothing$ [mm]	Body- $\varnothing$ d [mm]	Head- $\varnothing$ D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	1.2 - 3.0	6.1	6.0	8.0	1.0	12.0	<b>334 236</b>
M5	1.2 - 3.5	7.1	7.0	9.0	1.0	12.0	<b>334 276</b>
M6	1.7 - 4.5	9.1	9.0	12.0	1.5	17.0	<b>334 726</b>
M8	1.7 - 4.5	11.1	11.0	14.0	1.5	17.5	<b>334 865</b>
	4.5 - 6.5	11.1	11.0	14.0	1.5	19.5	<b>334 864</b>
M10	1.7 - 4.5	12.2	12.0	15.0	1.5	20.0	<b>334 994</b>
	1.7 - 4.5	13.1	13.0	16.0	1.5	22.5	<b>334 995</b>

Other types on request.

We reserve the right to amend specifications at any time.

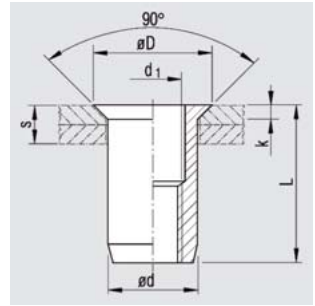
Countersunk head  
Round body, open end

**Material**

Stainless Steel A4 1.4578



extra-high  
corrosion resistance



Thread d1	Grip range s [mm]	Hole ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	1.2 - 3.0	6.1	6.0	8.0	1.0	12.0	<b>334 212<sup>2</sup></b>
M5	1.2 - 3.5	7.1	7.0	9.0	1.0	12.0	<b>334 216</b>
M6	1.7 - 4.5	9.1	9.0	12.0	1.5	17.0	<b>334 736</b>
M8	1.7 - 4.5	11.1	11.0	14.0	1.5	17.5	<b>334 875</b>
M10	1.7 - 4.5	13.1	13.0	16.0	1.5	22.5	<b>334 975<sup>2</sup></b>

<sup>2</sup> Not standard stock - minimum quantity on request

Other types on request.

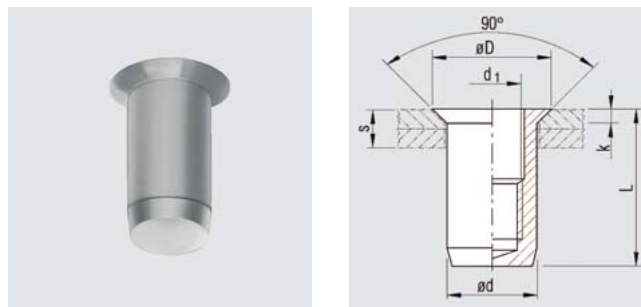
We reserve the right to amend specifications at any time.

# RIV-TI® blind rivet nuts

Countersunk head  
Round body, closed end

## Material

 Aluminium



Thread d1	Grip range s [mm]	Hole $\varnothing$ [mm]	Body- $\varnothing$ d [mm]	Head- $\varnothing$ D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	1.7 - 3.5	6.1	6.0	9.0	1.5	15.5	<b>336 441</b>
	3.5 - 5.0	6.1	6.0	9.0	1.5	17.0	<b>336 445<sup>2</sup></b>
M5	1.7 - 4.0	7.1	7.0	10.0	1.5	18.0	<b>336 541</b>
	4.0 - 6.5	7.1	7.0	10.0	1.5	20.5	<b>336 543<sup>2</sup></b>
M6	1.7 - 4.5	9.1	9.0	12.0	1.5	22.0	<b>336 621</b>
	4.5 - 6.5	9.1	9.0	12.0	1.5	24.0	<b>336 622<sup>2</sup></b>
M8	1.7 - 4.5	11.1	11.0	14.0	1.5	25.0	<b>336 761<sup>2</sup></b>
	4.5 - 6.5	11.1	11.0	14.0	1.5	28.0	<b>336 762<sup>2</sup></b>


<sup>2</sup> Not standard stock - minimum quantity on request

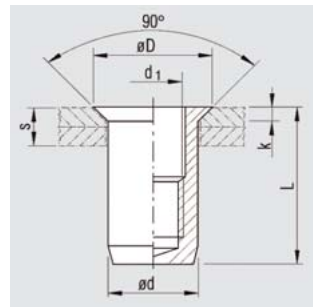
Other types on request.

We reserve the right to amend specifications at any time.

Countersunk head  
Round body, closed end

**Material**

 Steel, zinc, passivate



Thread d1	Grip range s [mm]	Hole ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	1.7 - 3.5	6.1	6.0	9.0	1.5	15.5	<b>336 211</b>
	3.5 - 5.0	6.1	6.0	9.0	1.5	17.0	<b>336 215<sup>2</sup></b>
M5	1.7 - 4.0	7.1	7.0	10.0	1.5	18.0	<b>336 251</b>
	4.0 - 6.5	7.1	7.0	10.0	1.5	20.5	<b>336 253<sup>2</sup></b>
M6	1.7 - 4.5	9.1	9.0	12.0	1.5	22.0	<b>336 701</b>
	4.5 - 6.5	9.1	9.0	12.0	1.5	24.0	<b>336 702<sup>2</sup></b>
M8	1.7 - 4.5	11.1	11.0	14.0	1.5	25.0	<b>336 847</b>
	4.5 - 6.5	11.1	11.0	14.0	1.5	28.0	<b>336 848<sup>2</sup></b>

<sup>2</sup> Not standard stock - minimum quantity on request

Other types on request.

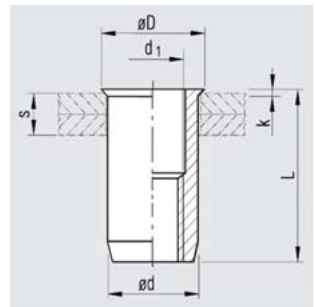
We reserve the right to amend specifications at any time.

## RIV-TI® blind rivet nuts

Slim countersunk head  
Round body, open end

### Material

 Aluminium



Thread d1	Grip range s [mm]	Hole $\varnothing$ [mm]	Body- $\varnothing$ d [mm]	Head- $\varnothing$ D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 3.0	6.1	6.0	6.5	0.5	10.75	<b>335 443</b>
M5	0.5 - 3.0	7.1	7.0	7.5	0.5	12.0	<b>335 453</b>
M6	0.5 - 3.0	9.1	9.0	9.5	0.5	14.5	<b>335 473</b>
M8	0.5 - 3.0	11.1	11.0	11.5	0.5	16.0	<b>335 483</b>


Other types on request.

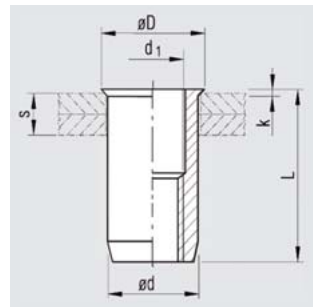
We reserve the right to amend specifications at any time.



Slim countersunk head  
Round body, open end

**Material**

 Steel, zinc, passivate



Thread d1	Grip range s [mm]	Hole $\varnothing$ [mm]	Body- $\varnothing$ d [mm]	Head- $\varnothing$ D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 3.0	6.1	6.0	6.5	0.5	10.75	<b>335 263</b>
	3.0 - 5.0	6.1	6.0	6.5	0.5	12.75	<b>335 264</b>
M5	0.5 - 3.0	7.1	7.0	7.5	0.5	12.0	<b>335 283</b>
	3.0 - 5.5	7.1	7.0	7.5	0.5	15.0	<b>335 284</b>
M6	0.5 - 3.0	9.1	9.0	9.5	0.5	14.5	<b>335 293</b>
	3.0 - 5.5	9.1	9.0	9.5	0.5	16.5	<b>335 294</b>
M8	0.5 - 3.0	11.1	11.0	11.5	0.5	16.0	<b>335 303</b>
	3.0 - 5.5	11.1	11.0	11.5	0.5	18.5	<b>335 304</b>
M10	0.8 - 3.5	12.6	12.4	12.9	0.5	19.5	<b>335 313</b>

Other types on request.

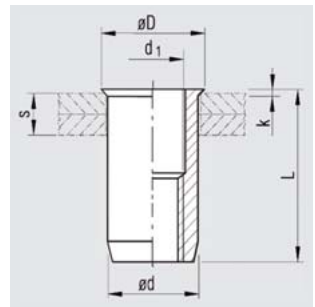
We reserve the right to amend specifications at any time.

# RIV-TI® blind rivet nuts

Slim countersunk head  
Round body, open end

## Material

Stainless Steel A2 1.4567



Thread d1	Grip range s [mm]	Hole ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 2.0	6.1	6.0	6.5	0.5	11.0	<b>334 260</b>
M5	0.5 - 3.0	7.1	7.0	7.5	0.5	12.0	<b>334 283</b>
	3.0 - 5.0	7.1	7.0	7.5	0.5	15.0	<b>334 284</b>
M6	0.5 - 3.0	9.1	9.0	9.5	0.5	14.5	<b>334 293</b>
M8	0.5 - 3.0	11.1	11.0	11.5	0.5	16.0	<b>334 303</b>
	3.0 - 5.5	11.1	11.0	11.5	0.5	18.5	<b>334 304</b>
M10	0.8 - 3.5	13.1	13.0	13.5	0.5	21.0	<b>334 314</b>

Other types on request.

We reserve the right to amend specifications at any time.

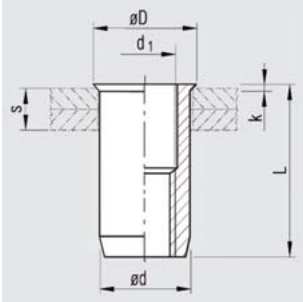
Slim countersunk head  
Round body, open end

**Material**

Stainless Steel A4 1.4578



extra-high  
corrosion resistance



Thread d1	Grip range s [mm]	Hole ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 2.0	6.1	6.0	6.5	0.5	11.0	<b>334 246</b>
M5	0.5 - 3.0	7.1	7.0	7.5	0.5	12.0	<b>334 286</b>
M6	0.5 - 3.0	9.1	9.0	9.5	0.5	14.5	<b>334 295</b>
M8	0.5 - 3.0	11.1	11.0	11.5	0.5	16.0	<b>334 306</b>
M10	0.8 - 3.5	13.1	13.0	13.5	0.7	21.0	<b>334 316</b>


Other types on request.

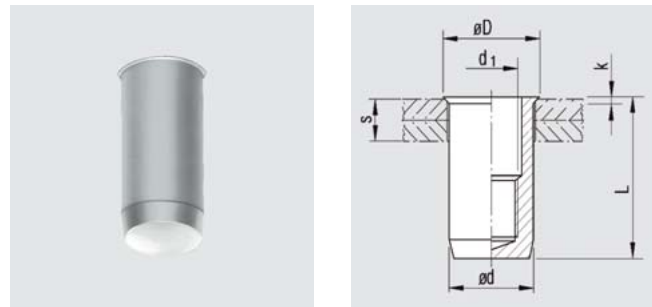
We reserve the right to amend specifications at any time.

## RIV-TI® blind rivet nuts

Slim countersunk head  
Round body, closed end

### Material

 Steel, zinc, passivate



Thread d1	Grip range s [mm]	Hole ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 3.0	6.1	6.0	6.5	0.5	15.0	<b>335 242<sup>2</sup></b>
M5	0.5 - 3.0	7.1	7.0	7.5	0.5	18.0	<b>335 252<sup>2</sup></b>
M6	0.5 - 3.0	9.1	9.0	9.5	0.5	21.5	<b>335 276<sup>2</sup></b>
M8	0.5 - 3.0	11.1	11.0	11.5	0.5	22.5	<b>335 306<sup>2</sup></b>

<sup>2</sup> Not standard stock - minimum quantity on request

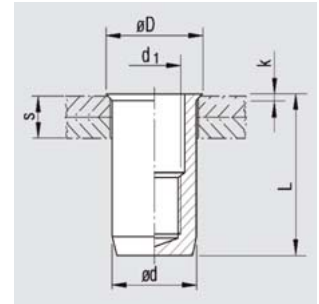
Other types on request.

We reserve the right to amend specifications at any time.

Slim countersunk head  
Round body, closed end

**Material**

■ Stainless Steel A2 1.4567



Thread d1	Grip range s [mm]	Hole ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 2.0	6.1	6.0	6.5	0.5	15.5	<b>334 373</b>
M5	0.5 - 3.0	7.1	7.0	7.5	0.5	18.0	<b>334 383</b>
M6	0.5 - 3.0	9.1	9.0	9.5	0.5	21.5	<b>334 393</b>
M8	0.5 - 3.0	11.1	11.0	11.5	0.5	24.0	<b>334 396</b>

Other types on request.

We reserve the right to amend specifications at any time.

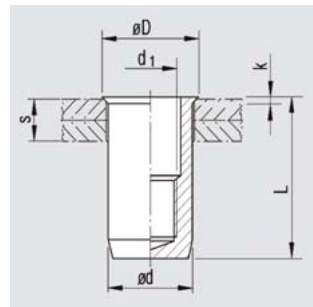
# RIV-TI® blind rivet nuts

Slim countersunk head  
Round body, closed end

extra-high  
corrosion resistance

## Material

Stainless Steel A4 1.4578



Thread d1	Grip range s [mm]	Hole ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 2.0	6.1	6.0	6.5	0.5	15.5	<b>334 134</b>
M5	0.5 - 3.0	7.1	7.0	7.5	0.5	18.0	<b>334 254</b>
M6	0.5 - 3.0	9.1	9.0	9.5	0.5	21.5	<b>334 395</b>
M8	0.5 - 3.0	11.1	11.0	11.5	0.5	24.0	<b>334 845</b>

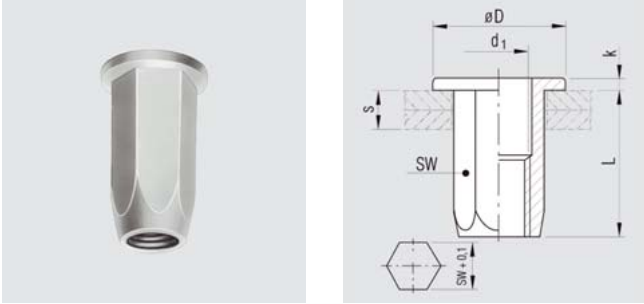
Other types on request.

We reserve the right to amend specifications at any time.

Flat head  
Hexagon body, open end

**Material**

Steel, zinc, passivate



Thread d1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 2.0	6.1	6.0	9.0	1.0	10.0	<b>339 222</b>
M5	0.5 - 3.0	7.1	7.0	10.0	1.0	13.0	<b>339 262</b>
M6	0.5 - 3.0	9.1	9.0	13.0	1.5	14.5	<b>339 711</b>
	3.0 - 5.5	9.1	9.0	13.0	1.5	16.5	<b>339 713</b>
M8	0.5 - 3.0	11.1	11.0	16.0	1.5	16.5	<b>339 857</b>
	3.0 - 5.5	11.1	11.0	16.0	1.5	19.0	<b>339 859</b>
	5.5 - 8.0	11.1	11.0	16.0	1.5	22.0	<b>339 860<sup>2</sup></b>
M10	0.8 - 3.5	13.1	13.0	19.0	2.0	21.0	<b>339 987</b>
	3.5 - 6.0	13.1	13.0	19.0	2.0	23.5	<b>339 989</b>
M12	1.0 - 4.0	16.1	16.0	23.0	2.0	25.0	<b>339 998<sup>1</sup></b>

<sup>1</sup> Part hexagon body

<sup>2</sup> Not standard stock - minimum quantity on request

Other types on request.

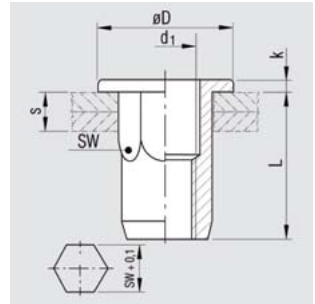
We reserve the right to amend specifications at any time.

# RIV-TI® blind rivet nuts

Flat head  
Part hexagon body, open end

## Material

Stainless Steel A2 1.4567



Thread d1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 2.0	6.1	6.0	9.0	1.0	11.0	<b>334 135</b>
M5	0.5 - 3.0	7.1	7.0	10.0	1.0	11.5	<b>334 155</b>
M6	0.5 - 3.0	9.1	9.0	12.0	1.5	14.5	<b>334 175</b>
M8	0.5 - 3.0	11.1	11.0	15.0	1.5	16.0	<b>334 185</b>
	3.0 - 5.5	11.1	11.0	15.0	1.5	18.5	<b>334 186</b>
M10	0.8 - 3.5	13.1	13.0	17.0	1.5	21.5	<b>334 196</b>

Other types on request.

We reserve the right to amend specifications at any time.



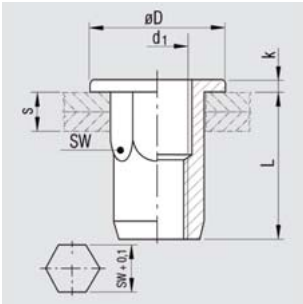
Flat head  
Part hexagon body, open end

**Material**

Stainless Steel A4 1.4578



extra-high  
corrosion resistance



Thread d1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 2.0	6.1	6.0	9.0	1.0	11.0	<b>334 426</b>
M5	0.5 - 3.0	7.1	7.0	10.0	1.0	11.5	<b>334 428</b>
M6	0.5 - 3.0	9.1	9.0	12.0	1.5	14.5	<b>334 423</b>
M8	0.5 - 3.0	11.1	11.0	15.0	1.5	16.0	<b>334 424</b>
M10	0.8 - 3.5	13.1	13.0	17.0	1.5	21.5	<b>334 430</b>

Other types on request.

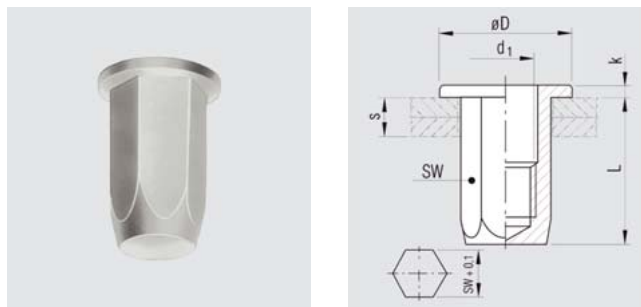
We reserve the right to amend specifications at any time.

# RIV-TI® blind rivet nuts

Flat head  
Hexagon body, closed end

## Material

 Steel, zinc, passivate



Thread d1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head- $\varnothing$ D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 2.0	6.1	6.0	9.0	1.0	14.5	<b>339 202<sup>2</sup></b>
M5	0.5 - 3.0	7.1	7.0	10.0	1.0	19.0	<b>339 242</b>
	3.0 - 5.5	7.1	7.0	10.0	1.0	21.5	<b>339 243<sup>2</sup></b>
M6	0.5 - 3.0	9.1	9.0	13.0	1.5	21.5	<b>339 691</b>
	3.0 - 5.5	9.1	9.0	13.0	1.5	23.5	<b>339 693<sup>2</sup></b>
M8	0.5 - 3.0	11.1	11.0	16.0	1.5	24.5	<b>339 837</b>
	3.0 - 5.5	11.1	11.0	16.0	1.5	27.0	<b>339 838<sup>2</sup></b>
M10	0.8 - 3.5	13.1	13.0	19.0	2.0	31.0	<b>339 970</b>
	3.0 - 6.0	13.1	13.0	19.0	2.0	33.5	<b>339 971<sup>2</sup></b>

<sup>2</sup> Not standard stock - minimum quantity on request

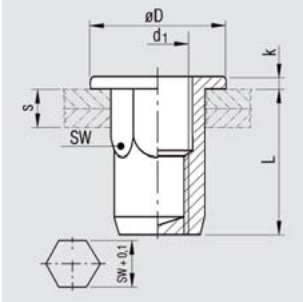
Other types on request.

We reserve the right to amend specifications at any time.

Flat head  
Part hexagon body, closed end

**Material**

Stainless Steel A2 1.4567



Thread d1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 2.0	6.1	6.0	9.0	1.0	15.0	<b>334 425</b>
M5	0.5 - 3.0	7.1	7.0	10.0	1.0	17.5	<b>334 427</b>
M6	0.5 - 3.0	9.1	9.0	12.0	1.5	21.5	<b>334 429</b>
M8	0.5 - 3.0	11.1	11.0	15.0	1.5	23.5	<b>334 431</b>
M10	0.8 - 3.5	13.1	13.0	17.0	1.5	28.5	<b>334 432</b>

Other types on request.

We reserve the right to amend specifications at any time.

# RIV-TI® blind rivet nuts

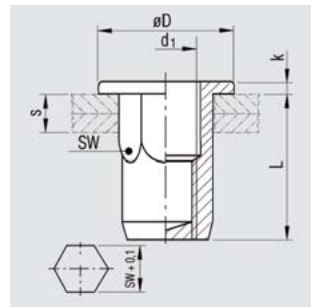
Flat head  
Part hexagon body, closed end

## Material

Stainless Steel A4 1.4578



extra-high  
corrosion resistance



Thread d1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 2.0	6.1	6.0	9.0	1.0	15.0	<b>334 442</b>
M5	0.5 - 3.0	7.1	7.0	10.0	1.0	17.5	<b>334 443</b>
M6	0.5 - 3.0	9.1	9.0	12.0	1.5	21.5	<b>334 446</b>
M8	0.5 - 3.0	11.1	11.0	15.0	1.5	23.5	<b>334 447</b>

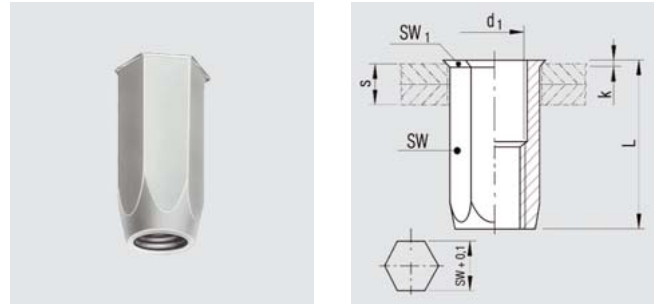
Other types on request.

We reserve the right to amend specifications at any time.

Slim countersunk head  
Hexagon body, open end

**Material**

 Steel, zinc, passivate



Thread d1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head A/F SW1 [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 2.0	6.1	6.0	6.6	0.6	11.0	<b>339 322</b>
M5	0.5 - 3.0	7.1	7.0	7.7	0.6	14.0	<b>339 362</b>
	3.0 - 5.5	7.1	7.0	7.7	0.6	16.5	<b>339 363<sup>2</sup></b>
M6	0.5 - 3.0	9.1	9.0	9.8	0.7	16.0	<b>339 811</b>
	3.0 - 5.5	9.1	9.0	9.8	0.7	18.5	<b>339 812<sup>2</sup></b>
M8	0.5 - 3.0	11.1	11.0	11.8	0.7	18.0	<b>339 957</b>
	3.0 - 5.5	11.1	11.0	11.8	0.7	20.5	<b>339 959</b>
M10	0.8 - 3.5	13.1	13.0	13.8	0.7	23.0	<b>339 991</b>
	3.5 - 6.0	13.1	13.0	13.8	0.7	25.5	<b>339 993</b>

<sup>2</sup> Not standard stock - minimum quantity on request

Other types on request.

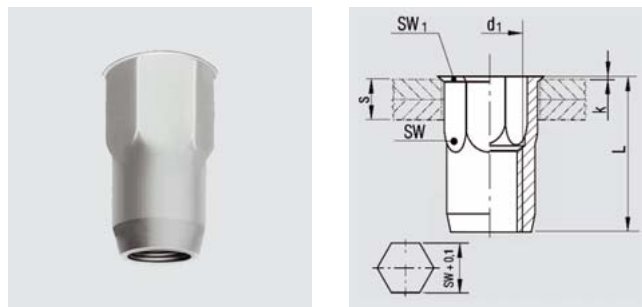
We reserve the right to amend specifications at any time.

# RIV-TI® blind rivet nuts

Slim countersunk head  
Part hexagon body, open end

## Material

Stainless Steel A2 1.4567



Thread d1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head A/F SW1 [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 2.0	6.1	6.0	6.5	0.5	11.0	<b>334 142</b>
M5	0.5 - 3.0	7.1	7.0	7.5	0.5	12.0	<b>334 162</b>
	3.0 - 5.0	7.1	7.0	7.5	0.5	14.0	<b>334 165</b>
M6	0.5 - 3.0	9.1	9.0	9.5	0.5	14.5	<b>334 182</b>
	3.0 - 5.0	9.1	9.0	9.5	0.5	16.5	<b>334 183</b>
	5.0 - 7.0	9.1	9.0	9.5	0.5	18.5	<b>334 184<sup>2</sup></b>
M8	0.5 - 3.0	11.1	11.0	11.5	0.5	16.0	<b>334 192</b>
	3.0 - 5.5	11.1	11.0	11.5	0.5	18.5	<b>334 194</b>
M10	0.8 - 3.5	13.1	13.0	13.5	0.7	21.0	<b>334 197</b>
	3.5 - 6.0	13.1	13.0	13.5	0.7	23.5	<b>334 198</b>

<sup>2</sup> Not standard stock - minimum quantity on request

Other types on request.

We reserve the right to amend specifications at any time.

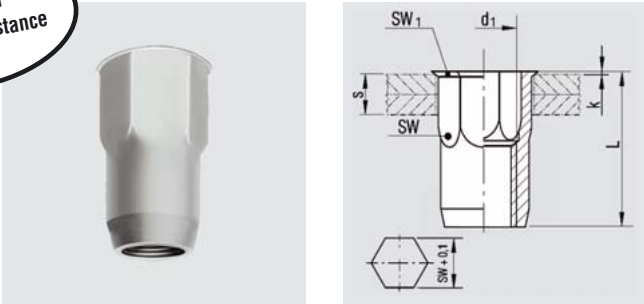
Slim countersunk head  
Part hexagon body, open end

**Material**

Stainless Steel A4 1.4578



extra-high  
corrosion resistance



Thread d1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head A/F SW1 [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 – 2.0	6.1	6.0	6.5	0.5	11.0	<b>334 412</b>
M5	0.5 - 3.0	7.1	7.0	7.5	0.5	12.0	<b>334 438</b>
M6	0.5 - 3.0	9.1	9.0	9.5	0.5	14.5	<b>334 433</b>
M8	0.5 - 3.0	11.1	11.0	11.5	0.5	16.0	<b>334 435</b>
M10	0.8 - 3.5	13.1	13.0	13.5	0.7	21.0	<b>334 454</b>
	3.5 - 6.0	13.1	13.0	13.5	0.7	23.5	<b>334 455</b>

Other types on request.

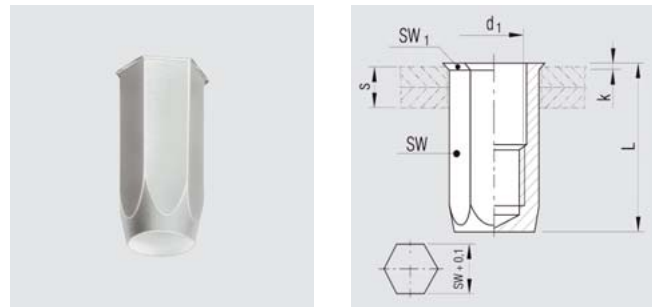
We reserve the right to amend specifications at any time.

# RIV-TI® blind rivet nuts

Slim countersunk head  
Hexagon body, closed end

## Material

■ Steel, zinc, passivate



Thread d1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head A/F SW1 [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 2.0	6.1	6.0	6.6	0.6	15.5	<b>339 422</b>
M5	0.5 - 3.0	7.1	7.0	7.7	0.7	20.0	<b>339 462</b>
M6	0.5 - 3.0	9.1	9.0	9.8	0.7	22.0	<b>339 911</b>
M8	0.5 - 3.0	11.1	11.0	11.8	0.7	25.0	<b>339 967</b>

Other types on request.

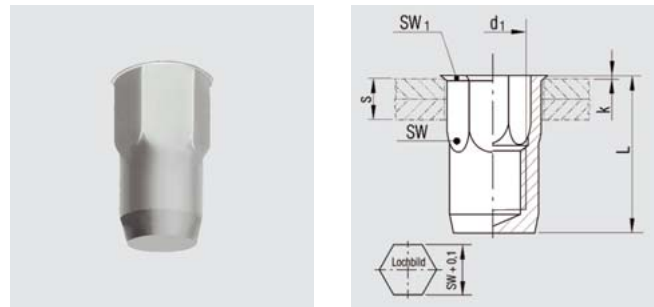
We reserve the right to amend specifications at any time.



Slim countersunk head  
Part hexagon body, closed end

**Material**

Stainless Steel A2 1.4567



Thread d1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head A/F SW1 [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 2.0	6.1	6.0	6.5	0.5	15.5	<b>334 421</b>
M5	0.5 - 3.0	7.1	7.0	7.5	0.5	18.0	<b>334 460</b>
	3.0 - 5.0	7.1	7.0	7.5	0.5	20.5	<b>334 461</b>
M6	0.5 - 3.0	9.1	9.0	9.5	0.5	21.5	<b>334 462</b>
	3.0 - 5.0	9.1	9.0	9.5	0.5	23.5	<b>334 463</b>
M8	0.5 - 3.0	11.1	11.0	11.5	0.5	24.0	<b>334 466</b>
	3.0 - 5.5	11.1	11.0	11.5	0.5	26.5	<b>334 467</b>

Other types on request.

We reserve the right to amend specifications at any time.

# RIV-TI® blind rivet nuts

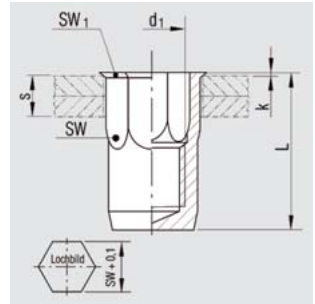
Slim countersunk head  
Part hexagon body, closed end

## Material

Stainless Steel A4 1.4578



extra-high  
corrosion resistance




Thread d1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head A/F SW1 [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 2.0	6.1	6.0	6.5	0.5	15.5	<b>334 436</b>
M5	0.5 - 3.0	7.1	7.0	7.5	0.5	18.0	<b>334 437</b>
	3.0 - 5.0	7.1	7.0	7.5	0.5	20.5	<b>334 448</b>
M6	0.5 - 3.0	9.1	9.0	9.5	0.5	21.5	<b>334 439</b>
M8	0.5 - 3.0	11.1	11.0	11.5	0.5	24.0	<b>334 441</b>
	3.0 - 5.5	11.1	11.0	11.5	0.5	26.5	<b>334 440</b>

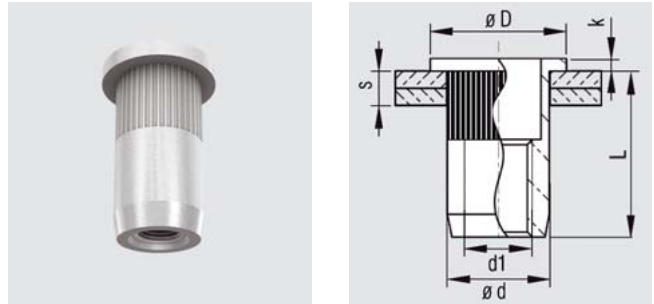
Other types on request.

We reserve the right to amend specifications at any time.

Flat head  
Round body with improved knurl, open end

**Material**

 Steel, zinc, passivate



Thread d1	Grip range s [mm]	Hole $\varnothing$ [mm]	Body- $\varnothing$ d [mm]	Head- $\varnothing$ D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M 4	0.5 - 3.0	6.1	6.0	10.0	0.75	10.75	<b>337 800<sup>2</sup></b>
	3.0 - 4.5	6.1	6.0	10.0	0.75	12.25	<b>337 801<sup>2</sup></b>
M 5	0.5 - 3.0	7.1	7.0	11.0	1.0	12.0	<b>337 805<sup>2</sup></b>
	3.0 - 5.5	7.1	7.0	11.0	1.0	15.0	<b>337 806<sup>2</sup></b>
M 6	0.5 - 3.0	9.1	9.0	13.0	1.5	14.5	<b>337 810</b>
	3.0 - 5.5	9.1	9.0	13.0	1.5	16.5	<b>337 811<sup>2</sup></b>
M 8	0.5 - 3.0	11.1	11.0	16.0	1.5	16.0	<b>337 815</b>
	3.0 - 5.5	11.1	11.0	16.0	1.5	18.5	<b>337 816<sup>2</sup></b>

<sup>2</sup> Not standard stock - minimum quantity on request

Other types on request.

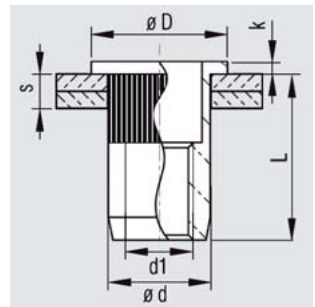
We reserve the right to amend specifications at any time.

## RIV-TI® blind rivet nuts

Flat head  
Round body with improved knurl, open end

### Material

Stainless Steel A2 1.4567



Thread d1	Grip range s [mm]	Hole $\varnothing$ [mm]	Body- $\varnothing$ d [mm]	Head- $\varnothing$ D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M 4	0.5 - 2.0	6.1	6.0	9.0	1.0	11.0	<b>334 800<sup>2</sup></b>
M 5	0.5 - 3.0	7.1	7.0	10.0	1.0	11.5	<b>334 803<sup>2</sup></b>
M 6	0.5 - 3.0	9.1	9.0	12.0	1.5	14.5	<b>334 805</b>
M 8	0.5 - 3.0	11.1	11.0	15.0	1.5	16.0	<b>334 807<sup>2</sup></b>


<sup>2</sup> Not standard stock - minimum quantity on request

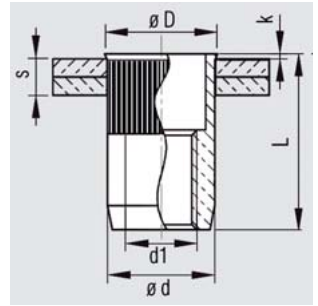
Other types on request.

We reserve the right to amend specifications at any time.

Slim countersunk head  
Round body with improved knurl, open end

**Material**

 Steel, zinc, passivate



Thread d1	Grip range s [mm]	Hole ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M 4	0.5 - 3.0	6.1	6.0	6.5	0.5	10.75	<b>337 860</b>
	3.0 - 5.0	6.1	6.0	6.5	0.5	12.75	<b>337 861<sup>2</sup></b>
M 5	0.5 - 3.0	7.1	7.0	7.5	0.5	12.0	<b>337 862</b>
	3.0 - 5.5	7.1	7.0	7.5	0.5	15.0	<b>337 863<sup>2</sup></b>
M 6	0.5 - 3.0	9.1	9.0	9.5	0.5	14.5	<b>337 864</b>
	3.0 - 5.5	9.1	9.0	9.5	0.5	16.5	<b>337 865<sup>2</sup></b>
M 8	0.5 - 3.0	11.1	11.0	11.5	0.5	16.0	<b>337 866<sup>2</sup></b>
	3.0 - 5.5	11.1	11.0	11.5	0.5	18.5	<b>337 867<sup>2</sup></b>

<sup>2</sup> Not standard stock - minimum quantity on request

Other types on request.

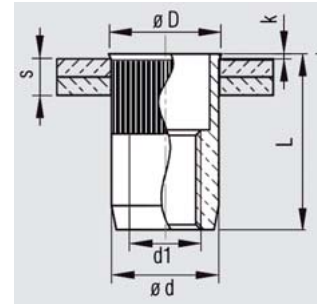
We reserve the right to amend specifications at any time.

## RIV-TI® blind rivet nuts

Slim countersunk head  
Round body with improved knurl, open end

### Material

Stainless Steel A2 1.4567




Thread d1	Grip range s [mm]	Hole $\varnothing$ [mm]	Body- $\varnothing$ d [mm]	Head- $\varnothing$ D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M 4	0.5 - 2.0	6.1	6.0	6.5	0.5	11.0	<b>334 810</b>
M 5	0.5 - 3.0	7.1	7.0	7.5	0.5	12.0	<b>334 812</b>
M 6	0.5 - 3.0	9.1	9.0	9.5	0.5	14.5	<b>334 814</b>
M 8	0.5 - 3.0	11.1	11.0	11.5	0.5	16.0	<b>334 816</b>

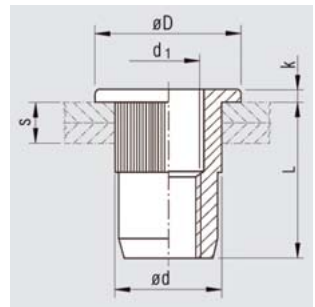
Other types on request.

We reserve the right to amend specifications at any time.

Flat head  
Raised spline round body, open end

**Material**

 Steel, zinc, passivate



Thread d1	Grip range s [mm]	Hole $\varnothing$ [mm]	Body- $\varnothing$ d [mm]	Head- $\varnothing$ D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 3.0	6.5	6.3	10.0	0.75	10.75	<b>337 900<sup>2</sup></b>
	3.0 - 4.5	6.5	6.3	10.0	0.75	12.25	<b>337 901<sup>2</sup></b>
M5	0.5 - 3.0	7.5	7.3	11.0	1.0	12.0	<b>337 905</b>
	3.0 - 5.5	7.5	7.3	11.0	1.0	15.0	<b>337 906</b>
M6	0.5 - 3.0	9.5	9.3	13.0	1.5	14.5	<b>337 910</b>
	3.0 - 5.5	9.5	9.3	13.0	1.5	16.5	<b>337 911</b>
M8	0.5 - 3.0	11.6	11.4	16.0	1.5	16.0	<b>337 915</b>
	3.0 - 5.5	11.6	11.4	16.0	1.5	18.5	<b>337 916</b>
M10	0.8 - 3.5	13.1	12.9	18.5	2.3	19.8	<b>337 920</b>
	3.5 - 6.0	13.1	12.9	18.5	2.3	22.8	<b>337 921</b>

<sup>2</sup> Not standard stock - minimum quantity on request

Other types on request.

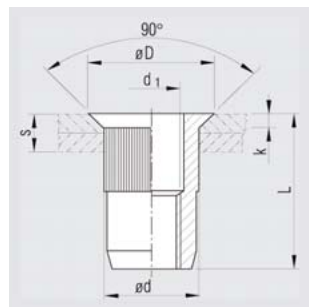
We reserve the right to amend specifications at any time.

## RIV-TI® blind rivet nuts

Countersunk head  
Raised spline round body, open end

### Material

 Steel, zinc, passivate



Thread d1	Grip range s [mm]	Hole ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	1.7 - 3.5	6.5	6.3	9.0	1.5	11.5	<b>337 930<sup>2</sup></b>
	3.5 - 5.0	6.5	6.3	9.0	1.5	13.0	<b>337 931<sup>2</sup></b>
M5	1.7 - 4.0	7.5	7.3	10.0	1.5	13.0	<b>337 935</b>
	4.0 - 6.5	7.5	7.3	10.0	1.5	16.0	<b>337 936<sup>2</sup></b>
M6	1.7 - 4.5	9.5	9.3	12.0	1.5	17.0	<b>337 940</b>
	4.5 - 6.5	9.5	9.3	12.0	1.5	19.0	<b>337 941</b>
M8	1.7 - 4.5	11.6	11.4	14.0	1.5	19.0	<b>337 945</b>
	4.5 - 6.5	11.6	11.4	14.0	1.5	21.0	<b>337 946</b>
M10	1.7 - 4.5	13.1	12.9	15.4	1.5	21.0	<b>337 950</b>
	4.5-6.5	13.1	12.9	15.4	1.5	23.0	<b>337 951</b>

<sup>2</sup> Not standard stock - minimum quantity on request

Other types on request.

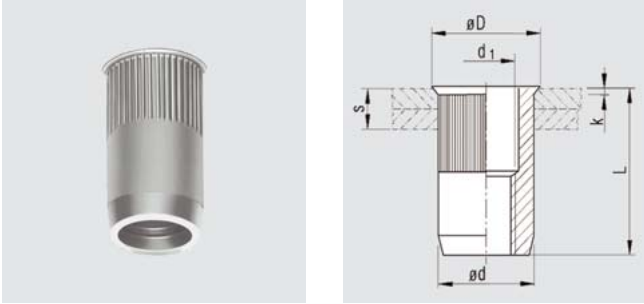
We reserve the right to amend specifications at any time.



Slim countersunk head  
 Raised spline round body, open end

**Material**

Steel, zinc, passivate



Thread d1	Grip range s [mm]	Hole ø [mm]	Body-ø d [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M4	0.5 - 3.0	6.1	6.0	7.0	0.6	10.0	<b>337 964</b>
M5	0.5 - 3.0	7.1	7.0	8.0	0.6	11.5	<b>337 963</b>
M6	0.5 - 3.0	9.1	9.0	10.0	0.6	14.0	<b>337 961</b>
M8	0.5 - 3.0	11.1	11.0	12.0	0.6	15.5	<b>337 851</b>

Other types on request.

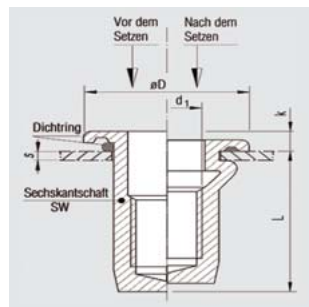
We reserve the right to amend specifications at any time.

## RIV-TI® blind rivet nuts

Flat head  
Full hex body with seal, closed end  
Ingress protection: IP68

### Material

 Steel, zinc, passivate



Thread d1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head- $\emptyset$ D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M5	0.5 - 3.0	7.1	7.0	12.5	1.5	19.0	<b>339 245</b>
M6	0.5 - 3.0	9.1	9.0	15.0	1.5	21.5	<b>339 695</b>
M8	0.5 - 3.0	11.1	11.0	20.0	2.0	26.7	<b>339 850</b>
	3.0 - 6.0	11.1	11.0	20.0	2.0	29.7	<b>339 851</b>

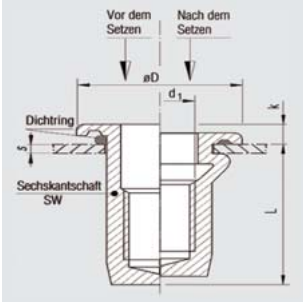
Other types on request.

We reserve the right to amend specifications at any time.

Flat head  
 Part hexagon body with seal, closed end  
 Ingress protection: IP68

**Material**

Stainless Steel A2 1.4567



Thread d1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M5	0.5 - 3.0	7.1	7.0	13.5	1.5	19.0	<b>334 080</b>
M6	0.5 - 3.0	9.1	9.0	16.0	1.5	21.5	<b>334 082</b>
M8	0.5 - 3.0	11.1	11.0	21.0	2.0	25.0	<b>334 084</b>

Other types on request.

We reserve the right to amend specifications at any time.

# RIV-TI® blind rivet nuts

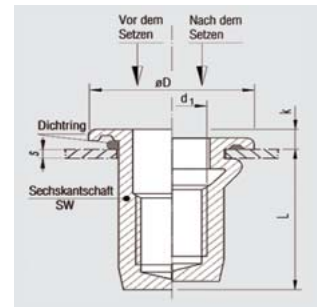
Flat head  
Part hexagon body with seal, closed end  
Ingress protection: IP68

## Material

Stainless Steel A4 1.4578



extra-high  
corrosion resistance



Thread d1	Grip range s [mm]	Hole A/F [mm]	Body A/F SW [mm]	Head-ø D [mm]	Head height k [mm]	Body length L [mm]	Part No.
M5	0.5 - 3.0	7.1	7.0	13.5	1.5	19.0	<b>334 090</b>
M6	0.5 - 3.0	9.1	9.0	16.0	1.5	21.5	<b>334 092</b>
M8	0.5 - 3.0	11.1	11.0	21.0	2.0	25.0	<b>334 094</b>

Other types on request.

We reserve the right to amend specifications at any time.

Installation and strength data

Thread	Grip range [mm]	at grip range [mm]	■ Aluminium				■ Steel				■ Stainless Steel (A2 + A4)				
			Installation force [N]	Installation stroke [mm]	Thread load [N]	Torque [Nm]	Installation force [N]	Installation stroke [mm]	Thread load [N]	Torque [Nm]	Installation force [N]	Installation stroke [mm]	Thread load [N]	Torque [Nm]	
<b>M 3</b>	0.5 – 2.0	1.0	2000	2.0	3750	1.0	4000	2.5	>5000	1.2	–	–	–	–	
		2.0	2600	1.5	3280	1.0	4750	2.0	>5000	1.2	–	–	–	–	
	2.0 – 3.0	2.0	1850	1.5	3900	1.0	3700	2.5	>5000	1.2	–	–	–	–	
		3.0	2050	1.0	3968	1.0	4750	2.0	>5000	1.2	–	–	–	–	
<b>M 4</b>	0.5 – 2.0	1.0	–	–	–	–	–	–	–	–	4900	2.0	9000	3.0	
		2.0	–	–	–	–	–	–	–	–	5500	1.5	9000	3.0	
	0.5 – 3.0	1.0	2100	3.0	5170	2.0	4300	2.5	>8000	3.0	–	–	–	–	
		3.0	2430	1.0	4330	2.0	5650	1.5	>8000	3.0	–	–	–	–	
	2.0 – 3.5	<	–	–	–	–	–	–	–	–	–	5500	2.6	9000	3.0
		3.5	–	–	–	–	–	–	–	–	–	6000	1.7	9000	3.0
	3.0 – 4.5	3.0	2050	2.8	4838	2.0	4200	2.5	>8000	3.0	–	–	–	–	
		4.5	2875	1.5	4421	2.0	5000	1.5	>8000	3.0	–	–	–	–	
<b>M 5</b>	0.5 – 3.0	1.0	3050	3.5	5500	4.5	6150	3.5	12240	5.5	7500	3.0	>15000	5.5	
		3.0	3650	2.0	5000	4.5	7200	2.5	9600	5.5	8500	1.7	>15000	5.5	
	3.0 – 5.0	3.0	–	–	–	–	–	–	–	–	–	7500	4.0	>15000	5.5
		5.0	–	–	–	–	–	–	–	–	–	8500	2.0	>15000	5.5
	3.0 – 5.5	3.0	3000	3.5	6450	4.5	5750	4.0	11800	5.5	–	–	–	–	
		5.5	4300	1.5	5525	4.5	9650	2.0	10300	5.5	–	–	–	–	
<b>M 6</b>	0.5 – 3.0	1.0	4500	3.0	11000	8.0	9400	4.0	21200	10.0	11850	4.0	>24000	10.0	
		3.0	5750	2.0	10000	8.0	12000	3.0	18500	10.0	14460	3.0	>24000	10.0	
	3.0 – 5.0	3.0	–	–	–	–	–	–	–	–	–	13500	4.5	>24000	10.0
		5.0	–	–	–	–	–	–	–	–	–	15000	2.8	>24000	10.0
	3.0 – 5.5	3.0	4500	3.5	11000	8.0	9000	3.5	22700	10.0	–	–	–	–	
		5.5	6100	1.8	10000	8.0	11000	2.0	19700	10.0	–	–	–	–	
	5.0 – 7.0	5.0	–	–	–	–	–	–	–	–	–	–	–	–	
		7.0	–	–	–	–	–	–	–	–	–	–	–	–	
	5.5 – 8.0	5.5	4950	4.7	9160	8.0	8700	4.0	19900	10.0	–	–	–	–	
		8.0	5400	2.0	8200	8.0	11750	2.5	17200	10.0	–	–	–	–	
<b>M 8</b>	0.5 – 3.0	1.0	5000	3.0	14900	17.0	11500	4.0	30400	24.0	14500	4.2	41000	24.0	
		3.0	6600	2.0	14000	17.0	13750	2.5	26100	24.0	18000	2.8	41000	24.0	
	3.0 – 5.5	3.0	5400	4.0	15500	17.0	11500	4.0	32500	24.0	14500	5.5	41000	24.0	
		5.5	7400	2.0	11200	17.0	15500	2.5	31900	24.0	18500	3.0	41000	24.0	
	5.5 – 8.0	5.5	5900	4.0	16100	17.0	10700	4.0	32400	24.0	–	–	–	–	
		8.0	7850	2.0	13600	17.0	14700	2.5	26500	24.0	–	–	–	–	
<b>M 10</b>	0.8 – 3.0	1.0	–	–	–	–	–	–	–	–	14500	3.5	>45000	46.0	
		3.0	–	–	–	–	–	–	–	–	18500	2.5	>45000	46.0	
	0.8 – 3.5	1.0	6750	4.0	22100	27.0	13600	4.5	39600	48.0	–	–	–	–	
		3.5	9000	2.5	17700	27.0	17000	2.5	32400	48.0	–	–	–	–	
	3.0 – 5.0	3.0	–	–	–	–	–	–	–	–	–	14500	3.5	>39500	46.0
		5.0	–	–	–	–	–	–	–	–	–	18500	2.5	>37000	46.0
	3.5 – 6.0	3.5	9000	5.0	25250	27.0	14900	4.0	42300	48.0	–	–	–	–	
		6.0	13000	3.0	23000	27.0	17900	2.5	31700	48.0	–	–	–	–	
	0.8 – 3.5	1.0	–	–	–	–	13500	4.5	40500	48.0	19500	4.5	>45000	46.0	
		3.5	–	–	–	–	16100	2.5	36100	48.0	26500	3.5	>45000	46.0	
	3.5 – 6.0	3.5	–	–	–	–	15900	5.5	48000	48.0	–	–	–	–	
		6.0	–	–	–	–	20400	3.0	37500	48.0	–	–	–	–	

Continued on next page

We reserve the right to amend specifications at any time.

# RIV-TI® blind rivet nuts

Continued

Thread	Grip range [mm]	at grip range [mm]	■ Aluminium				■ Steel				■ Stainless Steel (A2 + A4)			
			Installation force [N]	Installation stroke [mm]	Thread load [N]	Torque [Nm]	Installation force [N]	Installation stroke [mm]	Thread load [N]	Torque Nm	Installation force [N]	Installation stroke [mm]	Thread load [N]	Torque [Nm]
M12	1.0 – 4.0	1.0	–	–	–	–	19500	5.5	>50000	80.0	–	–	–	–
		4.0	–	–	–	–	25000	4.0	>50000	–	–	–	–	
	4.0 – 7.0	4.0	–	–	–	–	19500	5.5	>50000	80.0	–	–	–	–
		7.0	–	–	–	–	25000	4.0	>50000	–	–	–	–	

Installation force: Force (in Newton) required to upset the blind rivet nut  
 Installation stroke: Stroke of the setting tool (in mm) required for the specified grip range  
 Thread load: Maximum load (in Newton) for the thread on the inserted blind rivet nut  
 Torque: Maximum load (in Newton meter) for the thread on the inserted blind rivet nut

All values given are for guidance only. The user must make adjustments or determine values for the application.

## Information on O-ring and compatibility with other materials

Shore A hardness	<b>70 – 95</b>	Water over 80 °C	<b>x</b>
Hydraulic fluid	<b>xxxx</b>	Alcohols	<b>xx</b>
Heating oil	<b>xx</b>	Ketone	–
Animal Oil	<b>xxxx</b>	Acid (concentrated)	–
Brake fluid	–	Acid (diluted)	<b>x</b>
Silicones & fats	<b>xx</b>	Liquor. mordant	<b>x</b>
Petrol	<b>xxx</b>	Hydrochlorofluorocarbons	<b>x</b>
Aromatic liquids over 50%	<b>xx</b>	Ozone & sunlight	<b>x</b>
Kerosene	<b>xxx</b>	Temperature range °C	<b>-35 to +120</b>
Aromatic hydrocarbons	<b>x</b>	Remaining pressure deformation	<b>xxx</b>
Aliphatic hydrocarbons	<b>xxx</b>	Fire-resistant	<b>NO</b>
Water up to 80 °C	<b>xxx</b>		

xxxx = very good to x = satisfactory / - not suitable

Storage: Protect the materials from UV light. Store in a dry and dark place. O-rings made of other materials on request.

We reserve the right to amend specifications at any time.

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The technical data quoted in this catalogue, performance descriptions, recommendations and instructions e.g. for the installation of the components available from us, are without liability. These are based on our experience.

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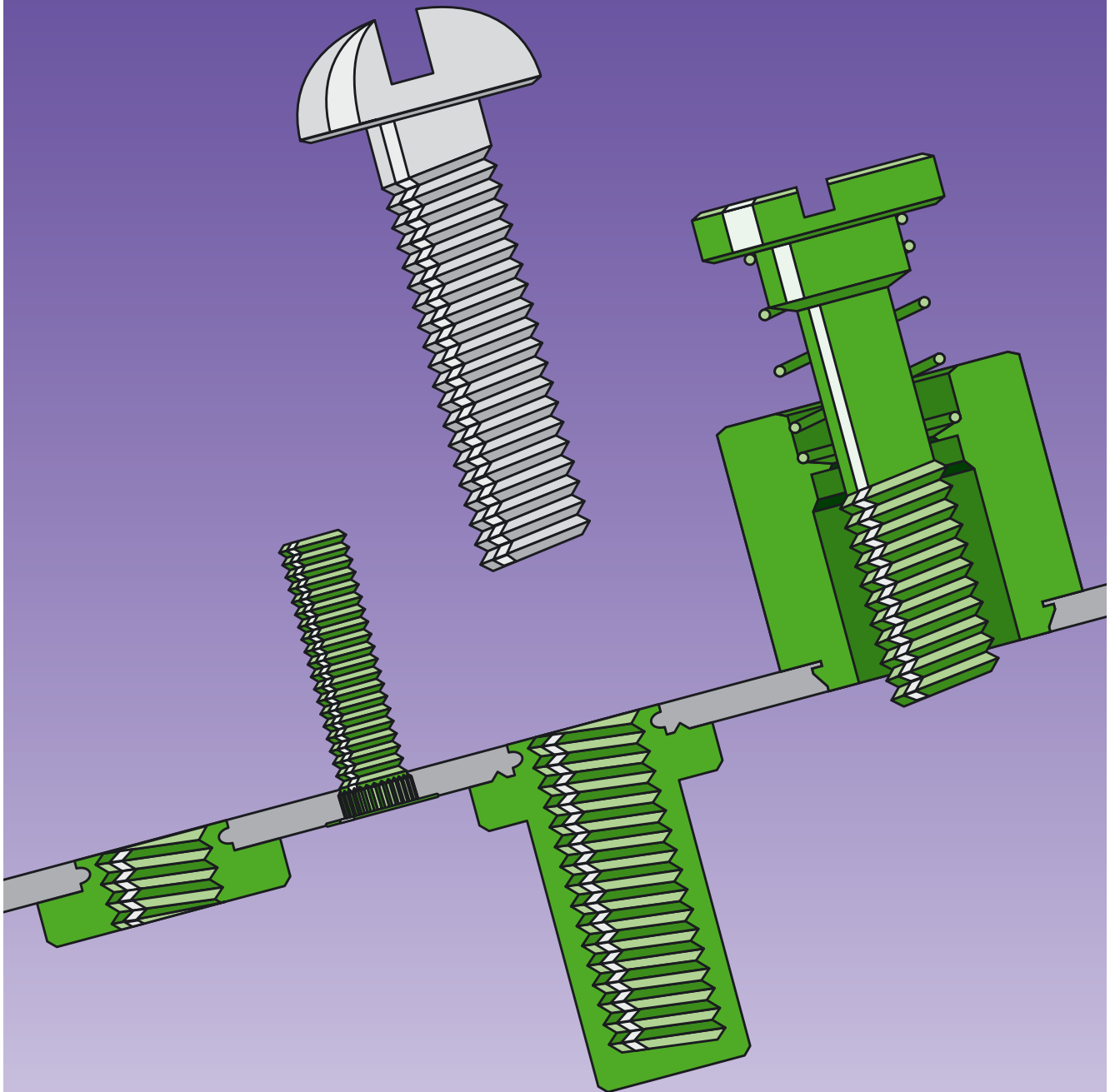
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# TITGEMEYER<sup>GTO</sup>

*YOUR SOLUTION*

## CAPTIVE<sup>®</sup> Self-clinching fasteners



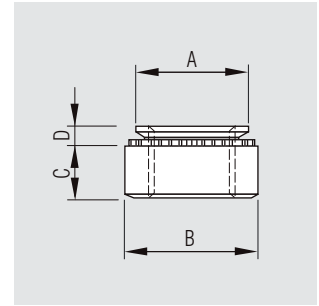
# Captive® Self-clinching fasteners


## Self-clinching nuts for metals

### Material

■ Steel zinc (C series)  
suitable for metal hardnesses up to HRB 80

■ Stainless Steel passivate (CS series)  
suitable for metal hardnesses up to HRB 70



Thread	Hole $\varnothing$ <small>+0.08 -0.00</small> [mm]	Material thickness <small>min</small> [mm]	A <small>max</small> [mm]	B <small>±0.25</small> [mm]	C <small>±0.25</small> [mm]	D <small>max</small> [mm]	 <small>min</small> [mm]	■ Steel		■ Stainless Steel	
								Description	Part No.	Description	Part No.
<b>M 2</b>	4.22	0.8	4.20	6.35	1.5	0.77	4.8	C M 2-0	–	CS M 2-0	–
		1.0	4.20	6.35	1.5	0.97	4.8	C M 2-1	<b>358 003</b>	CS M 2-1	–
		1.4	4.20	6.35	1.5	1.38	4.8	C M 2-2	<b>358 004</b>	CS M 2-2	–
		2.29	4.20	6.35	1.5	2.21	4.8	C M 2-3	–	CS M 2-3	–
<b>M 2.5</b>	4.22	0.8	4.20	6.35	1.5	0.77	4.8	C M 2.5-0	<b>358 006</b>	CS M 2.5-0	<b>358 050</b>
		1.0	4.20	6.35	1.5	0.97	4.8	C M 2.5-1	<b>358 007</b>	CS M 2.5-1	<b>358 051</b>
		1.4	4.20	6.35	1.5	1.38	4.8	C M 2.5-2	<b>358 008</b>	CS M 2.5-2	<b>358 052</b>
		2.29	4.20	6.35	1.5	2.21	4.8	C M 2.5-3	–	CS M 2.5-3	–
<b>M 3</b>	4.22	0.8	4.20	6.35	1.5	0.77	4.8	C M 3-0	<b>358 010</b>	CS M 3-0	<b>358 060</b>
		1.0	4.20	6.35	1.5	0.97	4.8	C M 3-1	<b>358 011</b>	CS M 3-1	<b>358 061</b>
		1.4	4.20	6.35	1.5	1.38	4.8	C M 3-2	<b>358 012</b>	CS M 3-2	<b>358 062</b>
		2.29	4.20	6.35	1.5	2.21	4.8	C M 3-3	<b>358 013</b>	CS M 3-3	<b>358 063</b>
<b>M 3.5</b>	4.75	0.8	4.73	7.11	1.5	0.77	5.6	C M 3.5-0	<b>358 015</b>	CS M 3.5-0	<b>358 065</b>
		1.0	4.73	7.11	1.5	0.97	5.6	C M 3.5-1	<b>358 016</b>	CS M 3.5-1	–
		1.4	4.73	7.11	1.5	1.38	5.6	C M 3.5-2	<b>358 017</b>	CS M 3.5-2	–
		2.29	4.73	7.11	1.5	2.21	5.6	C M 3.5-3	–	CS M 3.5-3	–
<b>M 4</b>	5.41	0.8	5.38	7.87	2.0	0.77	6.9	C M 4-0	<b>358 020</b>	CS M 4-0	<b>358 070</b>
		1.0	5.38	7.87	2.0	0.97	6.9	C M 4-1	<b>358 021</b>	CS M 4-1	<b>358 071</b>
		1.4	5.38	7.87	2.0	1.38	6.9	C M 4-2	<b>358 022</b>	CS M 4-2	<b>358 072</b>
		2.29	5.38	7.87	2.0	2.21	6.9	C M 4-3	<b>358 023</b>	CS M 4-3	<b>358 073</b>
<b>M 5</b>	6.35	0.8	6.33	8.64	2.0	0.77	7.1	C M 5-0	<b>358 025</b>	CS M 5-0	<b>358 074</b>
		1.0	6.33	8.64	2.0	0.97	7.1	C M 5-1	<b>358 026</b>	CS M 5-1	<b>358 076</b>
		1.4	6.33	8.64	2.0	1.38	7.1	C M 5-2	<b>358 027</b>	CS M 5-2	<b>358 077</b>
		2.29	6.33	8.64	2.0	2.21	7.1	C M 5-3	<b>358 028</b>	CS M 5-3	–
<b>M 6</b>	8.75	1.2	8.73	11.18	4.08	1.15	8.6	C M 6-0	<b>358 029</b>	CS M 6-0	–
		1.4	8.73	11.18	4.08	1.38	8.6	C M 6-1	<b>358 030</b>	CS M 6-1	<b>358 080</b>
		2.29	8.73	11.18	4.08	2.21	8.6	C M 6-2	<b>358 031</b>	CS M 6-2	<b>358 081</b>
		3.18	8.73	11.18	4.08	3.05	8.6	C M 6-3	<b>358 032</b>	CS M 6-3	<b>358 082</b>
<b>M 8</b>	10.5	1.4	10.47	12.7	5.47	1.38	9.7	C M 8-1	<b>358 035</b>	CS M 8-1	<b>358 090</b>
		2.29	10.47	12.7	5.47	2.21	9.7	C M 8-2	<b>358 036</b>	CS M 8-2	<b>358 083</b>
		3.2	10.47	12.7	5.47	3.05	9.7	C M 8-3	–	CS M 8-3	–
<b>M 10</b>	14.0	2.29	13.97	17.35	7.48	2.21	13.5	C M 10-1	<b>358 040</b>	CS M 10-1	–
		3.18	13.97	17.35	7.48	3.05	13.5	C M 10-2	<b>358 041</b>	CS M 10-2	<b>358 093</b>
		6.4	13.97	17.35	7.48	6.00	13.5	C M 10-3	–	CS M 10-3	–
<b>M 12</b>	17.0	3.18	16.95	20.57	8.5	3.05	16.0	C M 12-1	–	CS M 12-1	–
		6.4	16.95	20.57	8.5	6.00	16.0	C M 12-2	–	CS M 12-2	–

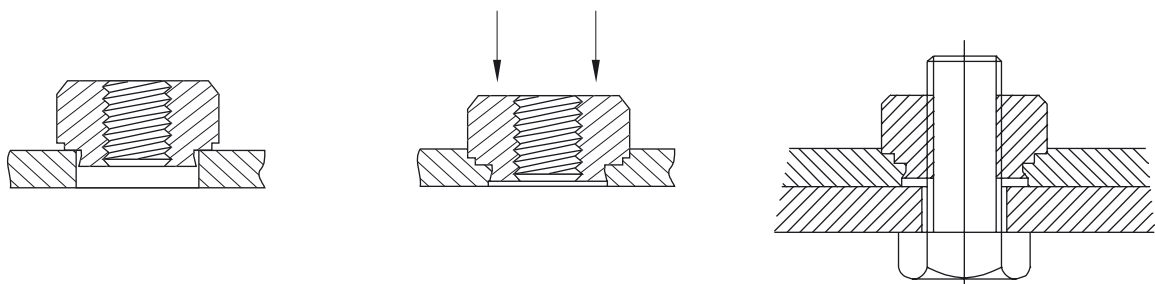
We reserve the right to amend specifications at any time.

Technical data

Thread	Shaft code <sup>1</sup>	Sheet material					
		Steel			Aluminium (H34)		
		Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
<b>M 2; M 2.5; M 3</b>	0	11.2 – 15.6	470	1.5	6.7 – 8.9	280	0.9
	-1	11.2 – 15.6	550	1.7	6.7 – 8.9	400	1.1
	-2	11.2 – 15.6	1010	2.0	6.7 – 8.9	750	1.4
	-3	11.2 – 15.6	1100	2.0	6.7 – 8.9	850	1.4
<b>M 3.5</b>	0	13.4 – 26.7	480	1.8	11.2 – 13.5	280	1.8
	-1	13.4 – 26.7	570	2.3	11.2 – 13.5	400	1.9
	-2	13.4 – 26.7	1210	2.3	11.2 – 13.5	840	2.5
	-3	13.4 – 26.7	1300	2.5	11.2 – 13.5	1050	2.8
<b>M 4</b>	0	18.0 – 27.0	490	2.9	11.2 – 13.4	300	2.3
	-1	18.0 – 27.0	645	4.0	11.2 – 13.4	470	2.6
	-2	18.0 – 27.0	1250	5.1	11.2 – 13.4	970	4.0
	-3	18.0 – 27.0	1300	4.2	11.2 – 13.4	1100	4.0
<b>M 5</b>	0	18.0 – 38.0	530	3.6	11.2 – 15.6	300	3.0
	-1	18.0 – 38.0	800	4.5	11.2 – 15.6	480	3.6
	-2	18.0 – 38.0	1110	6.8	11.2 – 15.6	845	5.7
	-3	18.0 – 38.0	1500	6.0	11.2 – 15.6	1225	5.7
<b>M 6</b>	0	27.0 – 36.0	1380	13.0	18.0 – 32.0	970	7.9
	-1	27.0 – 36.0	1760	17.0	18.0 – 32.0	1580	10.2
	-2	27.0 – 36.0	1760	17.0	18.0 – 32.0	1580	10.2
	-3	27.0 – 36.0	1760	17.0	18.0 – 32.0	1580	10.2
<b>M 8</b>	-1	27.0 – 36.0	1870	18.7	18.0 – 32.0	1570	13.6
	-2	27.0 – 36.0	1870	18.7	18.0 – 32.0	1570	13.6
	-3	27.0 – 36.0	1870	18.7	18.0 – 32.0	1570	13.6
<b>M 10</b>	-1	32.0 – 50.0	2020	36.2	22.0 – 36.0	1760	32.7
	-2	32.0 – 50.0	2020	36.2	22.0 – 36.0	1760	32.7
	-3	32.0 – 50.0	2020	36.2	22.0 – 36.0	1760	32.7
<b>M 12</b>	-1	33.0 – 49.0	3065	73.9	23.0 – 30.0	1390	35.2
	-2	33.0 – 49.0	3065	73.9	23.0 – 30.0	1390	35.2

<sup>1</sup> denotes the minimum material thickness of the application material

For guidance only - the precise values must be determined using the original component.



Nut must be affixed at right angles.

Press-in force is exerted on the head of the nut.

Fastening (fitting) occurs on the opposite side to the nut head.

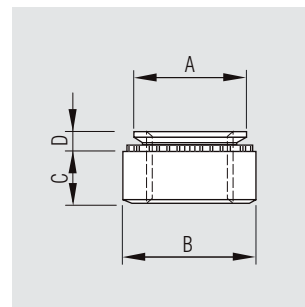
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# Captive® Self-clinching fasteners

## Self-clinching nuts for metals

### Material

- Aluminium (CA series)  
suitable for metal hardnesses up to HRB 50



Thread	Hole $\varnothing$ $+0.08 -0.00$ [mm]	Material thickness <i>min</i> [mm]	A <i>max</i> [mm]	B $\pm 0.25$ [mm]	C $\pm 0.25$ [mm]	D <i>max</i> [mm]	 <i>min</i> [mm]	Aluminium	
								Description	Part No.
M 2	4.22	1.0	4.20	6.35	1.5	0.98	4.8	CA M 2-1	-
		1.4	4.20	6.35	1.5	1.38	4.8	CA M 2-2	-
M 3	4.75	1.0	4.73	6.35	2.0	0.98	5.6	CA M 3-1	-
		1.4	4.73	6.35	2.0	1.38	5.6	CA M 3-2	-
M 3.5	5.41	1.0	5.38	7.11	2.0	0.98	6.9	CA M 3.5-1	-
		1.4	5.38	7.11	2.0	1.38	6.9	CA M 3.5-2	-
M 4	5.94	1.0	5.92	7.8	3.0	0.98	7.1	CA M 4-1	<b>358 726</b>
		1.4	5.92	7.8	3.0	1.38	7.1	CA M 4-2	<b>358 727</b>
M 5	7.52	1.0	7.49	9.4	3.8	0.98	7.9	CA M 5-1	<b>358 728</b>
		1.4	7.49	9.4	3.8	1.38	7.9	CA M 5-2	<b>358 729</b>
M 6	8.75	1.4	8.73	11.18	4.08	1.38	8.6	CA M 6-1	<b>358 730</b>
		2.3	8.73	11.18	4.08	2.21	8.6	CA M 6-2	<b>358 731</b>

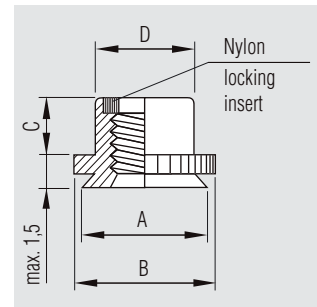
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
Self-clinching lock nuts for metals  
self-locking

**Material**

**Steel zinc (CPL series)**  
suitable for metal hardnesses up to HRB 70

**Stainless Steel passivate (CPLC series)**  
suitable for metal hardnesses up to HRB 70



Thread	Hole $\varnothing$ $+0.08 -0.00$ [mm]	Material thickness <i>min</i> [mm]	A <i>max</i> [mm]	B <i>max</i> [mm]	C <i>max</i> [mm]	D <i>max</i> [mm]	 <i>min</i> [mm]	Steel		Stainless Steel	
								Description	Part No.	Description	Part No.
M 3	6.0	1.0 – 1.78	5.98	7.01	3.56	5.52	4.32	CPL M 3	<b>358 770</b>	CPLC M 3	<b>358 773</b>
M 4	7.5	1.0 – 1.78	7.48	8.54	4.20	7.01	5.59	CPL M 4	<b>358 771</b>	CPLC M 4	–
M 5	8.0	1.0 – 1.78	7.98	9.0	4.45	9.52	6.35	CPL M 5	<b>358 772</b>	CPLC M 5	–

**Technical data**

Thread	Tightening torque <i>max</i> [kN]	Sheet material					
		Steel 1.5 mm			Steel 1.2 mm		
		Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
M 3	1.1	13.34	1156	2.2	13.34	1000	2.2
M 4	2.2	13.34	1290	6.7	13.34	1200	6.7
M 5	3.1	13.34	1557	7.9	13.34	1380	7.9

Thread	Tightening torque <i>max</i> [kN]	Sheet material					
		Aluminium (H 34) 1.5 mm			Aluminium (H 34) 1.0 mm		
		Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
M 3	1.1	8.9	1000	2.2	6.67	710	2.2
M 4	2.2	8.9	1290	6.7	6.67	800	3.1
M 5	3.1	8.9	1330	7.9	6.67	800	4.5

For guidance only - the precise values must be determined using the original component.

**Installation tips**

- Thin sheet metal – If the fastener is fitted to sheet metal thinner than 1–1.5 mm, the fastener is only partially attached to the material. The knurled collar must be pressed into the sheet metal to make up the difference in the sheet thickness to a minimum material thickness of 1.5 mm.
- Thick sheet metal – If the fastener is fitted into sheet metal thicker than 1.78 mm, the knurled collar may snap if the permissible tightening torque is exceeded.

We reserve the right to amend specifications at any time.

# Captive® Self-clinching fasteners

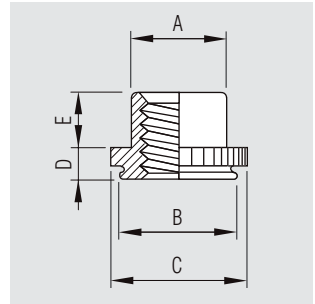
Miniature self-clinching nuts for metals  
self-locking


## Material

suitable for metal hardnesses up to HRB 70

■ Stainless Steel (CFE, CFEO series)  
self-locking

■ Stainless Steel passivate (CFEX, CFEOX series)   
not locking



Thread	Hole $\varnothing$ $+0.08 -0.00$ [mm]	Material thickness <i>min</i> [mm]	A <i>max</i> [mm]	B <i>max</i> [mm]	C $\pm 0.13$ <i>max</i> [mm]	D <i>max</i> [mm]	E $+0.4$ $-0.0$ <i>min</i> [mm]		■ Stainless Steel self-locking		■ Stainless Steel not locking	
									Description	Part No.	Description	Part No.
<b>M 3</b>	4.39	0.99	3.96	4.37	4.88	1.02	1.90	3.6	CFEO M 3	<b>358 607</b>	CFEOX M 3	<b>358 633</b>
		1.50	3.96	4.37	4.88	1.53	1.90	3.6	CFE M 3	–	CFEX M 3	–
<b>M 4</b>	7.39	0.99	5.23	7.37	8.17	1.02	2.55	5.2	CFEO M 4	–	CFEOX M 4	–
		1.50	5.23	7.37	8.17	1.53	2.55	5.2	CFE M 4	<b>358 604</b>	CFEX M 4	–
<b>M 5</b>	7.39	0.90	6.48	7.37	8.17	1.02	3.05	5.2	CFEO M 5	<b>358 605</b>	CFEOX M 5	–
		1.50	6.48	7.37	8.17	1.53	3.05	5.2	CFE M 5	<b>358 606</b>	CFEX M 5	<b>358 637</b>
<b>M 6</b>	8.74	1.53	7.72	8.72	9.74	1.53	3.30	7.1	CFE M 6	<b>358 608</b>	CFEX M 6	–

## Technical data

Thread	Material thickness [mm]	Sheet material						Series
		Steel			Aluminium (H 34)			
		Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]	
<b>M 3</b>	1.0	6.7	600	1.3	4.0	380	1.3	CFEO, CFEOX
	1.5	6.7	900	1.3	4.0	590	1.3	CFE, CFEX
<b>M 4</b>	1.0	11.1	1100	5.3	7.0	675	5.3	CFEO, CFEOX
	1.5	11.1	1600	5.3	7.0	1100	5.3	CFE, CFEX
<b>M 5</b>	1.0	12.0	1200	5.3	7.0	675	5.3	CFEO, CFEOX
	1.5	12.0	1600	5.3	7.0	1100	5.3	CFE, CFEX
<b>M 6</b>	1.5	15.6	1800	11.3	9.0	1400	11.3	CFE, CFEX

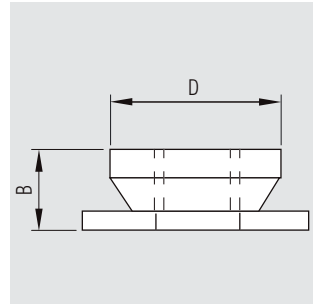
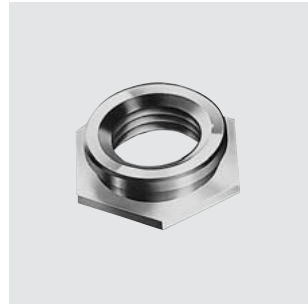
For guidance only - the precise values must be determined using the original component.


We reserve the right to amend specifications at any time.

Self-clinching flush nuts for metals  
for flush-surface installation

**Material**

■ Stainless Steel passivate (CFL series)  
suitable for metal hardnesses up to HRB 70



Thread	Hole $\varnothing$ <i>+0.08 -0.00</i> [mm]	Material thickness <i>min</i> [mm]	A/F <i>nom</i> [mm]	B <i>max</i> [mm]	D <i>max</i> [mm]	 <i>min</i> [mm]	■ Stainless Steel	
							Description	Part No.
<b>M 2</b>	4.37	1.53	4.8	1.53	4.35	6.0	CFL M 2-1	<b>358 501</b>
		2.3	4.8	2.3	4.35	6.0	CFL M 2-2	-
<b>M 2.5</b>	4.37	1.53	4.8	1.53	4.35	6.0	CFL M 2.5-1	<b>358 502</b>
		2.3	4.8	2.3	4.35	6.0	CFL M 2.5-2	<b>358 503</b>
<b>M 3</b>	4.37	1.53	4.8	1.53	4.35	6.0	CFL M 3-1	<b>358 506</b>
		2.3	4.8	2.3	4.35	6.0	CFL M 3-2	<b>358 507</b>
<b>M 3.5</b>	5.40	1.5	6.4	1.53	5.35	6.5	CFL M 3.5-1	-
		2.3	6.4	2.3	5.35	6.5	CFL M 3.5-2	-
<b>M 4</b>	7.37	1.53	7.9	1.53	7.35	7.2	CFL M 4-1	<b>358 511</b>
		2.3	7.9	2.3	7.35	7.2	CFL M 4-2	<b>358 512</b>
<b>M 5</b>	7.92	1.53	8.7	1.53	7.9	8.0	CFL M 5-1	<b>358 516</b>
		2.3	8.7	2.3	7.9	8.0	CFL M 5-2	<b>358 517</b>
<b>M 6</b>	8.74	3.18	9.5	3.05	8.72	8.8	CFL M 6-3	<b>358 518</b>
		3.96	9.5	3.84	8.72	8.8	CFL M 6-4	-
		4.75	9.5	4.75	8.72	8.8	CFL M 6-5	-

**Technical data**

Thread	Shaft code	Tightening torque <i>max</i> [kN]	Sheet material			
			Steel		Aluminium (H 34)	
			Press-in force [kN]	Push-out force [N]	Press-in force [kN]	Push-out force [N]
<b>M 2</b>	-1	0.16	13.3	0.9	8.9	0.9
	-2	0.16	13.3	0.9	8.9	0.9
<b>M 2.5</b>	-1	0.23	13.3	0.9	8.9	0.9
	-2	0.23	13.3	0.9	8.9	0.9
<b>M 3</b>	-1.2	0.36	13.3	0.9	8.9	0.9
<b>M 3.5</b>	-1.2	0.4	15.0	1.0	8.9	0.9
<b>M 4</b>	-1.2	1.0	17.8	1.1	17.8	1.1
<b>M 5</b>	-1.2	1.3	17.8	1.1	17.8	1.1
<b>M 6</b>	-3.4.5	4.5	20.0	3.7	20.0	3.8

For guidance only - the precise values must be determined using the original component.

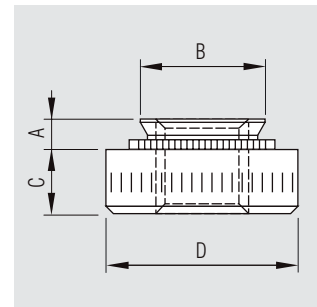
We reserve the right to amend specifications at any time.


# Captive® Self-clinching fasteners

## Self-clinching nuts for Stainless Steel

### Material

Stainless Steel passivate (CFSP series)  
suitable for metal hardnesses up to HRB 88



Thread	Hole $\varnothing$ $+0.08 -0.00$ [mm]	Material thickness <i>min</i> [mm]	A <i>max</i> [mm]	B <i>max</i> [mm]	C $\pm 0.25$ [mm]	D $\pm 0.25$ [mm]	 <i>min</i> [mm]	Stainless Steel	
								Description	Part No.
M 3	4.22	0.8 – 1.0	0.77	4.20	1.5	6.35	4.8	CFSP M 3-0	<b>358 789</b>
		1.0	0.97	4.20	1.5	6.35	4.8	CFSP M 3-1	<b>358 790</b>
		1.4	1.38	4.20	1.5	6.35	4.8	CFSP M 3-2	<b>358 791</b>
M 4	5.41	0.8 – 1.0	0.77	5.38	2.0	7.87	6.9	CFSP M 4-0	<b>358 720</b>
		1.0	0.97	5.38	2.0	7.87	6.9	CFSP M 4-1	<b>358 794</b>
		1.4	1.38	5.38	2.0	7.87	6.9	CFSP M 4-2	<b>358 795</b>
M 5	6.35	0.8 – 1.0	0.77	6.33	2.0	8.75	7.1	CFSP M 5-0	–
		1.0	0.97	6.33	2.0	8.75	7.1	CFSP M 5-1	<b>358 797</b>
		1.4	1.38	6.33	2.0	8.75	7.1	CFSP M 5-2	<b>358 796</b>
M 6	8.75	1.4	1.38	8.73	4.08	11.1	8.6	CFSP M 6-1	<b>358 799</b>
M 8	10.5	1.4	1.38	10.47	5.47	12.7	9.7	CFSP M 8-1	<b>358 806</b>
		2.29	2.21	10.47	5.47	12.7	9.7	CFSP M 8-2	<b>358 798</b>

### Technical data

Thread	Shaft code	Press-in force		Push-out force		Torsional strength	
		[kN]	[N]	[N]	[Nm]		
M 3	0	35.6	575		1.6		
	-1	40	725		1.9		
	-2	44.5	1290		2.0		
M 4	0	40	645		3.4		
	-1	44.5	800		4.2		
	-2	49	1600		5.0		
M 5	0	42.3	800		4.0		
	-1	46.7	1025		5.0		
	-2	51.2	1775		6.8		
M 6	-1	60	2000		17.0		
M 8	-1	66	2100		18.0		
	-2	72	2400		21.0		

For guidance only - the precise values must be determined using the original component.

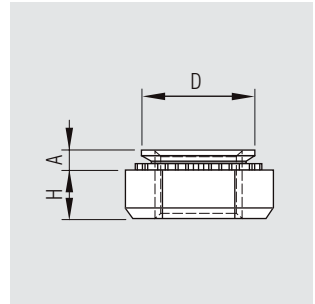
We reserve the right to amend specifications at any time.




Self-clinching nuts KAL for metals

**Material**

Steel zinc (CKN series)  
suitable for metal hardnesses up to HRB 80

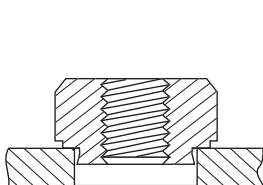


Thread	Hole $\varnothing$ $+0.08$ $-0.00$ [mm]	Material thickness <i>min</i> [mm]	A/F		D <i>max</i> [mm]	H $+0.10$ [mm]	 <i>min</i> [mm]	Steel	
			$-0.2$ [mm]	<i>max</i> [mm]				Description	Part No.
<b>M 3</b>	4.5	1.0	5.5	1.0	4.45	2.0	4.5	CKN M 3-1	<b>358 760</b>
		1.4	5.5	1.4	4.45	2.0	4.5	CKN M 3-2	<b>358 761</b>
<b>M 4</b>	5.5	1.0	7.0	1.0	5.45	2.2	5.5	CKN M 4-1	<b>358 762</b>
		1.4	7.0	1.4	5.45	2.2	5.5	CKN M 4-2	<b>358 763</b>
<b>M 5</b>	6.5	1.0	8.0	1.0	6.45	3.0	6.5	CKN M 5-1	<b>358 764</b>
		1.4	8.0	1.4	6.45	3.0	6.5	CKN M 5-2	<b>358 765</b>
<b>M 6</b>	8.0	1.0	10.0	1.0	7.95	4.0	8.0	CKN M 6-1	<b>358 766</b>
		1.4	10.0	1.4	7.95	4.0	8.0	CKN M 6-2	<b>358 767</b>
<b>M 8</b>	10.0	1.4	13.0	1.4	9.95	4.5	10.0	CKN M 8-2	<b>358 768</b>
		2.0	13.0	2.0	9.95	4.5	10.0	CKN M 8-3	<b>358 769</b>

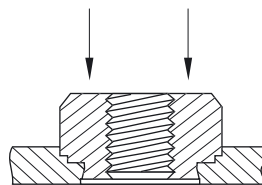
**Technical data**

Thread	Shaft code	Min.	Sheet material					
			Steel			Aluminium (H 34)		
			Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
<b>M 3</b>	-1	1.0	11.7	490	1.96	5.8	290	1.17
	-2	1.4	12.7	780	2.45	6.8	580	1.47
<b>M 4</b>	-1	1.0	12.7	580	2.94	7.8	390	1.96
	-2	1.4	13.7	880	3.92	9.8	680	2.94
<b>M 5</b>	-1	1.0	13.7	680	3.92	8.8	440	2.94
	-2	1.4	14.7	980	4.9	10.7	730	3.92
<b>M 6</b>	-1	1.0	16.6	880	7.84	11.7	580	5.88
	-2	1.4	19.6	1270	11.76	13.7	880	7.84
<b>M 8</b>	-2	1.0	24.5	1370	15.69	15.6	1070	9.8
	-3	1.4	29.4	1760	19.61	17.6	1370	11.76

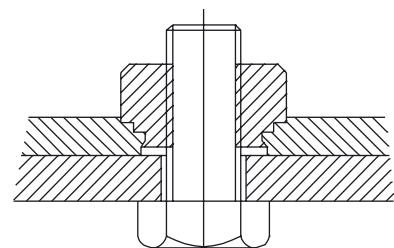
For guidance only - the precise values must be determined using the original component.



Nut must be affixed at right angles.



Press-in force is exerted on the head of the nut.



Fastening (fitting) occurs on the opposite side to the nut head.

# Captive® Self-clinching fasteners

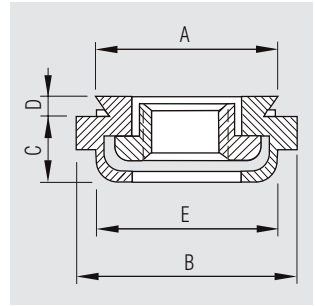
## Self-clinching floating nuts for metals


- Floating thread
- To compensate for an axis offset by approx. 0.8 mm

### Material

■ Steel zinc (CFAS series)  
suitable for metal hardnesses up to HRB 80

■ Stainless Steel passivate (CFAC series)  
suitable for metal hardnesses up to HRB 70



Thread	Hole $\varnothing$ $+0.08 -0.00$ [mm]	Material thickness <i>min</i> [mm]	A <i>max</i> [mm]	B $\pm 0.38$ [mm]	C <i>max</i> [mm]	D <i>max</i> [mm]	E <i>max</i> [mm]	 <i>min</i> [mm]	■ Steel		■ Stainless Steel	
									Description	Part No.	Description	Part No.
<b>M 3</b>	4.39	0.97	7.35	9.14	3.31	0.97	7.37	7.62	CFAS M 3-1	<b>358 701</b>	CFAC M 3-1	<b>358 708</b>
		1.38	7.35	9.14	3.31	1.38	7.37	7.62	CFAS M 3-2	<b>358 702</b>	CFAC M 3-2	<b>358 709</b>
<b>M 4</b>	7.39	0.97	9.33	11.18	3.31	0.97	9.28	8.64	CFAS M 4-1	<b>358 703</b>	CFAC M 4-1	-
		1.38	9.33	11.18	3.31	1.38	9.28	8.64	CFAS M 4-2	<b>358 704</b>	CFAC M 4-2	-
<b>M 5</b>	7.39	0.97	10.29	11.94	4.32	0.97	10.29	9.14	CFAS M 5-1	<b>358 706</b>	CFAC M 5-1	-
		1.38	10.29	11.94	4.32	1.38	10.29	9.14	CFAS M 5-2	-	CFAC M 5-2	-
<b>M 6</b>	8.74	1.38	13.06	15.24	5.34	1.38	12.96	10.67	CFAS M 6-2	<b>358 707</b>	CFAC M 6-2	-

### Technical data

Thread	Shaft code	Sheet material								
		Steel			Aluminium (T 3)			Aluminium (H 34)		
		Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
<b>M 3</b>	1	13	1330	9	13	970	7	7	950	7
	2	13	1330	17	13	1000	17	9	1000	9
<b>M 4</b>	1	13	1330	17	13	1050	12	9	1100	16
	2	13	1780	22	15	1330	17	9	1178	17
<b>M 5</b>	1	15	1780	17	15	1330	17	9	1330	17
	2	15	2000	22	16	1330	22	9	1550	20
<b>M 6</b>	2	22	2200	36	23	1330	36	14	1780	36

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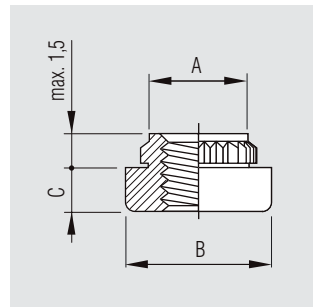
We reserve the right to amend specifications at any time.


Broaching type nuts for plastics  
printed circuit boards, fibre-glass, acrylic

**Material**

■ Steel electrolytically zinc plated (CKF2 series)  
suitable for metal hardnesses up to HRB 60

■ Stainless Steel passivate (CKFS2 series)  
suitable for metal hardnesses up to HRB 60



Thread	Hole $\varnothing$ $+0.08 \quad -0.00$ [mm]	Material thickness <i>min</i> [mm]	A $+0.08$ [mm]	B $\pm 0.13$ [mm]	C $\pm 0.13$ [mm]	 <i>min</i> [mm]	■ Steel		■ Stainless Steel	
							Description	Part No.	Description	Part No.
<b>M 2</b>	3.73	1.53	4.19	5.56	1.5	4.2	CKF2 M2	–	CKFS2 M2	–
<b>M 2.5</b>	4.22	1.53	4.68	5.56	1.5	4.4	CKF2 M 2.5	<b>358 551</b>	CKFS2 M 2.5	–
<b>M 3</b>	4.22	1.53	4.68	5.56	1.5	4.4	CKF2 M 3	<b>358 561</b>	CKFS2 M 3	<b>358 593</b>
<b>M 4</b>	6.4	1.53	6.81	8.74	2.0	6.4	CKF2 M 4	<b>358 571</b>	CKFS2 M 4	<b>358 594</b>
<b>M 5</b>	6.9	1.53	7.37	9.53	3.0	7.1	CKF2 M 5	<b>358 572</b>	CKFS2 M 5	–

**Technical data**

Thread	Sheet material Fibre glass 1.5 mm		
	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
<b>M 2</b>	2.22	265	0.65
<b>M 2.5</b>	2.22	285	1.35
<b>M 3</b>	2.22	285	1.7
<b>M 4</b>	2.90	415	3.95
<b>M 5</b>	2.90	435	4.52

For guidance only - the precise values must be determined using the original component.

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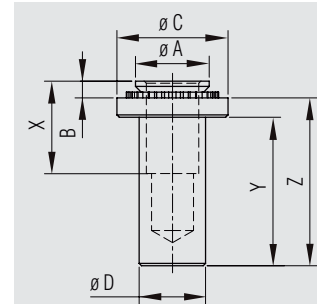
# Captive® Self-clinching fasteners

## Self-clinching blind nuts for metals

### Material

**Steel zinc (CFB series)**  
suitable for metal hardnesses up to HRB 80

**Stainless Steel passivate (CFBS series)**  
suitable for metal hardnesses up to HRB 70



Thread	Hole Ø +0.08 -0.00 [mm]	Material thickness min max [mm]	A max [mm]	B max [mm]	C ±0.25 max [mm]	D max [mm]	Y max [mm]	Z ±0.25 max [mm]	X max min [mm]		Steel		Stainless Steel	
											Description	Part No.	Description	Part No.
M 3	4.25	1.0	4.20	0.97	6.35	3.84	8.5	9.6	5.3	4.8	CFB M3-1	<b>358 710</b>	CFBS M3-1	<b>358 930</b>
		1.4	4.20	1.38	6.35	3.84	8.5	9.6	5.3	4.8	CFB M3-2	<b>358 712</b>	CFBS M3-2	<b>358 933</b>
M 4	5.41	1.0	5.38	0.97	7.95	5.20	9.8	11.2	7.1	6.9	CFB M4-1	<b>358 713</b>	CFBS M4-1	<b>358 931</b>
		1.4	5.38	1.38	7.95	5.20	9.8	11.2	7.1	6.9	CFB M4-2	<b>358 711</b>	CFBS M4-2	<b>358 934</b>
M 5	6.35	1.0	6.33	0.97	8.75	6.02	9.8	11.2	7.1	7.1	CFB M5-1	<b>358 718</b>	CFBS M5-1	–
		1.4	6.33	1.38	8.75	6.02	9.8	11.2	7.1	7.1	CFB M5-2	–	CFBS M5-2	<b>358 932</b>
M 6	8.73	1.4	8.72	1.38	11.10	7.80	12.7	14.3	7.8	8.6	CFB M6-1	<b>358 714</b>	CFBS M6-1	<b>358 941</b>
		2.3	8.72	2.21	11.10	7.80	12.7	14.3	7.8	8.6	CFB M6-2	<b>358 715</b>	CFBS M6-2	–

### Technical data

Thread	Shaft code	Min.	Sheet material					
			Steel			Aluminium (H 34)		
			Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
M 3	-1	1.0	11.1	550	1.50	7.1	400	1.15
	-2	1.4	14.0	1010	2.05	9.0	750	1.47
M 4	-1	1.0	15.6	600	3.40	8.9	470	2.60
	-2	1.4	20.0	1250	5.10	12.5	970	4.00
M 5	-1	1.0	17.8	620	4.00	9.3	480	3.60
	-2	1.4	25.0	1112	6.80	14.0	845	5.70
M 6	-1	1.4	25.7	1760	11.90	17.8	1400	10.20
	-2	2.3	25.7	1760	11.90	17.8	1400	10.20

For guidance only - the precise values must be determined using the original component.

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Self-clinching studs for metals

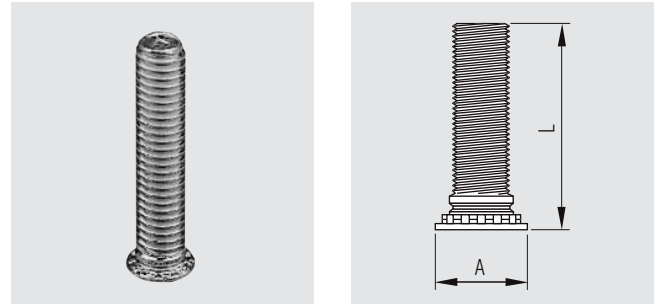
**Material**

■ Steel zinc (CH series)  
suitable for metal hardnesses up to HRB 80

■ Stainless Steel passivate (CHS series)  
suitable for metal hardnesses up to HRB 70



■ Aluminium (CHA series)  
suitable for metal hardnesses up to HRB 50



Thread	Hole $\varnothing$ <small>+0.08 -0.00</small> [mm]	Material thickness <small>min</small> [mm]	L <small>±0.4</small> [mm]	D <small>±0.4</small> [mm]		■ Steel		■ Stainless Steel		■ Aluminium	
						Description	Part No.	Description	Part No.	Description	Part No.
<b>M 2</b>	2.0	1.0	8	3.5	5.2	CH M 2-8	<b>358 111</b>	-	-	-	-
			10	3.5	5.2	CH M 2-10	<b>358 112</b>	-	-	-	-
<b>M 2.5</b>	2.5	1.0	6	4.1	5.4	CH M 2.5-6	<b>358 120</b>	CHS M 2.5-6	<b>358 220</b>	CHA M 2.5-6	-
			8	4.1	5.4	CH M 2.5-8	<b>358 121</b>	CHS M 2.5-8	<b>358 221</b>	CHA M 2.5-8	-
			10	4.1	5.4	CH M 2.5-10	<b>358 122</b>	CHS M 2.5-10	<b>358 222</b>	CHA M 2.5-10	-
			12	4.1	5.4	CH M 2.5-12	<b>358 123</b>	CHS M 2.5-12	<b>358 223</b>	CHA M 2.5-12	-
			15	4.1	5.4	CH M 2.5-15	<b>358 124</b>	CHS M 2.5-15	<b>358 224</b>	CHA M 2.5-15	-
			18	4.1	5.4	CH M 2.5-18	<b>358 125</b>	CHS M 2.5-18	<b>358 225</b>	CHA M 2.5-18	-
<b>M 3</b>	3.0	1.0	5	4.6	5.6	CH M 3-5	<b>358 129</b>	CHS M 3-5	<b>358 229</b>	-	-
			6	4.6	5.6	CH M 3-6	<b>358 130</b>	CHS M 3-6	<b>358 230</b>	CHA M 3-6	-
			8	4.6	5.6	CH M 3-8	<b>358 131</b>	CHS M 3-8	<b>358 231</b>	CHA M 3-8	<b>358 911</b>
			10	4.6	5.6	CH M 3-10	<b>358 132</b>	CHS M 3-10	<b>358 232</b>	CHA M 3-10	-
			12	4.6	5.6	CH M 3-12	<b>358 133</b>	CHS M 3-12	<b>358 233</b>	CHA M 3-12	<b>358 774</b>
			15	4.6	5.6	CH M 3-15	<b>358 134</b>	CHS M 3-15	<b>358 234</b>	CHA M 3-15	<b>358 914</b>
			16	4.6	5.6	CH M 3-16	<b>358 126</b>	CHS M 3-16	<b>358 275</b>	CHA M 3-16	-
			18	4.6	5.6	CH M 3-18	<b>358 135</b>	CHS M 3-18	<b>358 235</b>	CHA M 3-18	-
			20	4.6	5.6	CH M 3-20	<b>358 136</b>	CHS M 3-20	<b>358 236</b>	CHA M 3-20	<b>358 916</b>
			22	4.6	5.6	CH M 3-22	<b>358 137</b>	CHS M 3-22	<b>358 237</b>	CHA M 3-22	-
<b>M 3.5</b>	3.5	1.0	25	4.6	5.6	CH M 3-25	<b>358 138</b>	CHS M 3-25	<b>358 238</b>	CHA M 3-25	-
			30	4.6	5.6	CH M 3-30	<b>358 176</b>	CHS M 3-30	<b>358 239</b>	CHA M 3-30	-
			6	5.3	6.4	CH M 3.5	-	CHS M 3.5	-	CHA M 3.5	-
			8	5.3	6.4	CH M 3.5	-	CHS M 3.5	-	CHA M 3.5	-
			10	5.3	6.4	CH M 3.5	-	CHS M 3.5	-	CHA M 3.5	-
			12	5.3	6.4	CH M 3.5	-	CHS M 3.5	-	CHA M 3.5	-
			15	5.3	6.4	CH M 3.5	-	CHS M 3.5	-	CHA M 3.5	-
			18	5.3	6.4	CH M 3.5	-	CHS M 3.5	-	CHA M 3.5	-
			20	5.3	6.4	CH M 3.5	-	CHS M 3.5	-	CHA M 3.5	-
			22	5.3	6.4	CH M 3.5	-	CHS M 3.5	-	CHA M 3.5	-
25	5.3	6.4	CH M 3.5	-	CHS M 3.5	-	CHA M 3.5	-			
28	5.3	6.4	CH M 3.5	-	CHS M 3.5	-	CHA M 3.5	-			
30	5.3	6.4	CH M 3.5	-	CHS M 3.5	-	CHA M 3.5	-			


Continued on next page

For punch and die dimensions, see page 16.

We reserve the right to amend specifications at any time.

# Captive® Self-clinching fasteners

Continued


Thread	Hole $\varnothing$ +0.08 -0.00 [mm]	Material thickness min [mm]	L $\pm 0.4$ [mm]	D $\pm 0.4$ [mm]	 min [mm]	Steel		Stainless Steel		Aluminium				
						Description	Part No.	Description	Part No.	Description	Part No.			
<b>M 4</b>	4.0	1.0	6	5.9	7.2	CH M 4-6	<b>358 140</b>	CHS M 4-6	<b>358 240</b>	CHA M 4-6	<b>358 310</b>			
			8	5.9	7.2	CH M 4-8	<b>358 141</b>	CHS M 4-8	<b>358 241</b>	CHA M 4-8	–			
			10	5.9	7.2	CH M 4-10	<b>358 142</b>	CHS M 4-10	<b>358 242</b>	CHA M 4-10	<b>358 942</b>			
			12	5.9	7.2	CH M 4-12	<b>358 143</b>	CHS M 4-12	<b>358 243</b>	CHA M 4-12	–			
			13.5	5.9	7.2	CH M 4-13.5	<b>358 980</b>	CHS M 4-13.5	–	CHA M 4-13.5	–			
			15	5.9	7.2	CH M 4-15	<b>358 144</b>	CHS M 4-15	<b>358 244</b>	CHA M 4-15	<b>358 944</b>			
			16	5.9	7.2	CH M 4-16	<b>358 844</b>	CHS M 4-16	–	CHA M 4-16	–			
			18	5.9	7.2	CH M 4-18	<b>358 145</b>	CHS M 4-18	<b>358 245</b>	CHA M 4-18	<b>358 945</b>			
			20	5.9	7.2	CH M 4-20	<b>358 146</b>	CHS M 4-20	<b>358 246</b>	CHA M 4-20	–			
			22	5.9	7.2	CH M 4-22	<b>358 147</b>	CHS M 4-22	<b>358 247</b>	CHA M 4-22	–			
			25	5.9	7.2	CH M 4-25	<b>358 148</b>	CHS M 4-25	<b>358 248</b>	CHA M 4-25	<b>358 948</b>			
			28	5.9	7.2	CH M 4-28	<b>358 199</b>	CHS M 4-28	–	CHA M 4-28	–			
			30	5.9	7.2	CH M 4-30	<b>358 150</b>	CHS M 4-30	<b>358 250</b>	CHA M 4-30	<b>358 950</b>			
			35	5.9	7.2	CH M 4-35	<b>358 139</b>	CHS M 4-35	–	CHA M 4-35	–			
			38	5.9	7.2	CH M 4-38	<b>358 149</b>	CHS M 4-38	<b>358 258</b>	CHA M 4-38	–			
			45	5.9	7.2	CH M 4-45	<b>358 198</b>	CHS M 4-45	<b>358 228</b>	CHA M 4-45	–			
			50	5.9	7.2	CH M 4-50	<b>358 117</b>	CHS M 4-50	–	CHA M 4-50	–			
			<b>M 5</b>	5.0	1.0	6	6.5	7.2	CH M 5-6	<b>358 169</b>	CHS M 5-6	–	CHA M 5-6	–
						8	6.5	7.2	CH M 5-8	<b>358 151</b>	CHS M 5-8	<b>358 251</b>	CHA M 5-8	–
						10	6.5	7.2	CH M 5-10	<b>358 152</b>	CHS M 5-10	<b>358 252</b>	CHA M 5-10	–
12	6.5	7.2				CH M 5-12	<b>358 153</b>	CHS M 5-12	<b>358 253</b>	CHA M 5-12	<b>358 943</b>			
15	6.5	7.2				CH M 5-15	<b>358 154</b>	CHS M 5-15	<b>358 254</b>	CHA M 5-15	–			
16	6.5	7.2				CH M 5-16	<b>358 116</b>	CHS M 5-16	–	CHA M 5-16	–			
18	6.5	7.2				CH M 5-18	<b>358 155</b>	CHS M 5-18	<b>358 255</b>	CHA M 5-18	–			
20	6.5	7.2				CH M 5-20	<b>358 156</b>	CHS M 5-20	<b>358 256</b>	CHA M 5-20	–			
22	6.5	7.2				CH M 5-22	<b>358 115</b>	CHS M 5-22	<b>358 257</b>	CHA M 5-22	–			
25	6.5	7.2				CH M 5-25	<b>358 158</b>	CHS M 5-25	<b>358 274</b>	CHA M 5-25	–			
28	6.5	7.2				CH M 5-28	<b>358 173</b>	CHS M 5-28	<b>358 259</b>	CHA M 5-28	–			
30	6.5	7.2				CH M 5-30	<b>358 160</b>	CHS M 5-30	<b>358 260</b>	CHA M 5-30	–			
35	6.5	7.2				CH M 5-35	<b>358 159</b>	CHS M 5-35	<b>358 249</b>	CHA M 5-35	–			
38	6.5	7.2				CH M 5-38	<b>358 157</b>	CHS M 5-38	<b>358 262</b>	CHA M 5-38	–			
42	6.5	7.2				CH M 5-42	<b>358 177</b>	CHS M 5-42	–	CHA M 5-42	–			
50	6.5	7.2				CH M 5-50	–	CHS M 5-50	<b>358 267</b>	CHA M 5-50	–			
54	6.5	7.2	CH M 5-54	<b>358 174</b>	CHS M 5-54	–	CHA M 5-54	–						
<b>M 6</b>	6.0	1.6	8	8.2	7.9	CH M 6-8	<b>358 161</b>	CHS M 6-8	<b>358 269</b>	CHA M 6-8	–			
			10	8.2	7.9	CH M 6-10	<b>358 162</b>	CHS M 6-10	<b>358 261</b>	CHA M 6-10	–			
			12	8.2	7.9	CH M 6-12	<b>358 163</b>	CHS M 6-12	<b>358 263</b>	CHA M 6-12	<b>358 308</b>			
			14	8.2	7.9	CH M 6-14	–	CHS M 6-14	<b>358 277</b>	CHA M 6-14	–			
			15	8.2	7.9	CH M 6-15	<b>358 164</b>	CHS M 6-15	<b>358 264</b>	CHA M 6-15	–			
			16	8.2	7.9	CH M 6-16	<b>358 178</b>	CHS M 6-16	–	CHA M 6-16	–			
			18	8.2	7.9	CH M 6-18	<b>358 165</b>	CHS M 6-18	<b>358 265</b>	CHA M 6-18	–			
			20	8.2	7.9	CH M 6-20	<b>358 166</b>	CHS M 6-20	<b>358 266</b>	CHA M 6-20	<b>358 311</b>			
			22	8.2	7.9	CH M 6-22	<b>358 167</b>	CHS M 6-22	<b>358 272</b>	CHA M 6-22	–			
			25	8.2	7.9	CH M 6-25	<b>358 168</b>	CHS M 6-25	<b>358 268</b>	CHA M 6-25	<b>358 313</b>			
			28	8.2	7.9	CH M 6-28	<b>358 180</b>	CHS M 6-28	–	CHA M 6-28	–			
			30	8.2	7.9	CH M 6-30	<b>358 170</b>	CHS M 6-30	<b>358 270</b>	CHA M 6-30	–			
			35	8.2	7.9	CH M 6-35	<b>358 171</b>	CHS M 6-35	<b>358 271</b>	CHA M 6-35	–			
			38	8.2	7.9	CH M 6-38	<b>358 172</b>	CHS M 6-38	<b>358 273</b>	CHA M 6-38	–			
50	8.2	7.9	CH M 6-50	<b>358 179</b>	CHS M 6-50	<b>358 276</b>	CHA M 6-50	–						

We reserve the right to amend specifications at any time.

For punch and die dimensions, see page 16.

Continued on next page

Continued

Thread	Hole $\varnothing$ +0.08 -0.00 [mm]	Material thickness min [mm]	L $\pm 0.4$ [mm]	D $\pm 0.4$ [mm]	 min [mm]	Steel		Stainless Steel		Aluminium	
						Description	Part No.	Description	Part No.	Description	Part No.
M 8	8.0	2.4	12	9.6	9.6	CH M 8-12	358 183	CHS M 8-12	–	CHA M 8-12	–
			15	9.6	9.6	CH M 8-15	358 184	CHS M 8-15	358 284	CHA M 8-15	–
			18	9.6	9.6	CH M 8-18	358 185	CHS M 8-18	358 285	CHA M 8-18	–
			20	9.6	9.6	CH M 8-20	358 186	CHS M 8-20	358 286	CHA M 8-20	–
			22	9.6	9.6	CH M 8-22	358 187	CHS M 8-22	–	CHA M 8-22	–
			25	9.6	9.6	CH M 8-25	358 188	CHS M 8-25	358 288	CHA M 8-25	–
			28	9.6	9.6	CH M 8-28	–	CHS M 8-28	–	CHA M 8-28	–
			30	9.6	9.6	CH M 8-30	358 190	CHS M 8-30	358 291	CHA M 8-30	–
			35	9.6	9.6	CH M 8-35	358 191	CHS M 8-35	358 292	CHA M 8-35	–
			38	9.6	9.6	CH M 8-38	–	CHS M 8-38	358 732	CHA M 8-38	–
			42	9.6	9.6	CH M 8-42	358 113	CHS M 8-42	–	CHA M 8-42	–
			45	9.6	9.6	CH M 8-45	358 192	CHS M 8-45	–	CHA M 8-45	–
			58	9.6	9.6	CH M 8-58	358 193	CHS M8-58	–	CHA M8-58	–

### Technical data

Thread	Test material	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
M 2.5	Aluminium 1.6 mm	8.9	465	1.0
	Steel 1.5 mm	11.1	740	1.0
M 3	Aluminium 1.6 mm	12.9	600	1.7
	Steel 1.5 mm	14.7	820	1.7
M 3.5	Aluminium 1.6 mm	15.6	800	1.7
	Steel 1.5 mm	22.3	1335	2.8
M 4	Aluminium 1.6 mm	20.0	975	2.9
	Steel 1.5 mm	28.9	1780	4.2
M 5	Aluminium 1.6 mm	24.5	1070	3.5
	Steel 1.5 mm	33.4	2000	6.5
M 6	Aluminium 2.4 mm	28.9	1660	7.3
	Steel 2.2 mm	44.5	2560	11.3
M 8	Aluminium 2.4 mm	29.8	1910	11.3
	Steel 2.2 mm	44.5	2890	19.2

For guidance only - the precise values must be determined using the original component.  
For punch and die dimensions, see page 16.

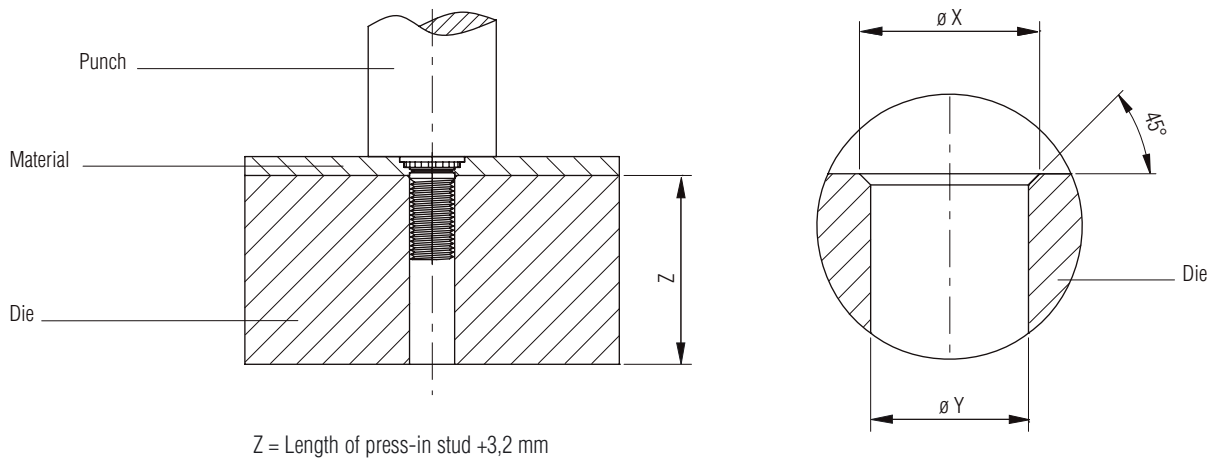
We reserve the right to amend specifications at any time.

**Punch / die dimensions for press-in studs of the series: CH – CHS – CHA – CHN**

Thread	Die dimensions	
	X +0.1 [mm]	Y +0.08 [mm]
<b>M 2.5</b>	3.1	2.5
<b>M 3</b>	3.6	3.0
<b>M 3.5</b>	4.1	3.5
<b>M 4</b>	4.6	4.0
<b>M 5</b>	5.6	5.0
<b>M 6</b>	6.6	6.0
<b>M 8</b>	–	8.0

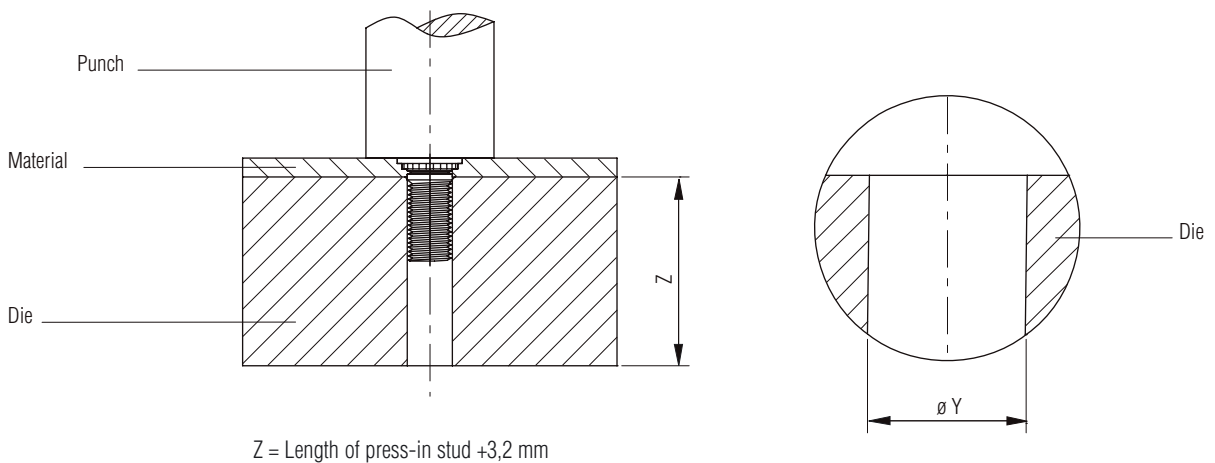
**Die for material thickness < 1.5 mm for thread sizes M 2,5–M 5**

**Die for material thickness < 2,3 mm for thread sizes M 6–M 8**



**Die for material thickness > 1.5 mm for thread sizes M 2,5–M 5**

**Die for material thickness > 2.3 mm for thread sizes M 6–M 8**



We reserve the right to amend specifications at any time.

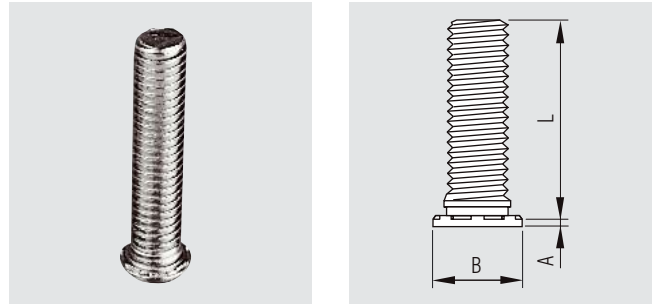



Self-clinching studs for metals  
for thin sheet metal > 0.51 mm, not flush-fitting

**Material**

■ Steel zinc (TCH series)  
suitable for metal hardnesses up to HRB 80

■ Stainless Steel (TCHS series)  
suitable for metal hardnesses up to HRB 70



Thread	Hole $\varnothing$ <i>+0.08 -0.00</i> [mm]	Material thickness <i>min</i> [mm]	L $\pm 0.4$ [mm]	A <i>max</i> [mm]	B $\pm 0.4$ [mm]	 <i>min</i> [mm]	■ Steel		■ Stainless Steel	
							Description	Part No.	Description	Part No.
<b>M 3</b>	3.0	0.51	6	0.64	4.5	5.6	TCH M 3-6	<b>358 850</b>	TCHS M 3-6	-
			8	0.64	4.5	5.6	TCH M 3-8	<b>358 851</b>	TCHS M 3-8	-
			10	0.64	4.5	5.6	TCH M 3-10	-	TCHS M 3-10	-
			12	0.64	4.5	5.6	TCH M 3-12	-	TCHS M 3-12	-
			15	0.64	4.5	5.6	TCH M 3-15	<b>358 854</b>	TCHS M 3-15	-
			18	0.64	4.5	5.6	TCH M 3-18	-	TCHS M 3-18	<b>358 885</b>
			20	0.64	4.5	5.6	TCH M 3-20	-	TCHS M 3-20	-
<b>M 4</b>	4.0	0.51	25	0.64	4.5	5.6	TCH M 3-25	-	TCHS M 3-25	-
			10	0.64	5.8	7.2	TCH M 4-10	<b>358 884</b>	TCHS M 4-10	-
			12	0.64	5.8	7.2	TCH M 4-12	<b>358 716</b>	TCHS M 4-12	-
			15	0.64	5.8	7.2	TCH M 4-15	-	TCHS M 4-15	-
			18	0.64	5.8	7.2	TCH M 4-18	-	TCHS M 4-18	-
			20	0.64	5.8	7.2	TCH M 4-20	-	TCHS M 4-20	-
			22	0.64	5.8	7.2	TCH M 4-22	-	TCHS M 4-22	-
			25	0.64	5.8	7.2	TCH M 4-25	-	TCHS M 4-25	-
<b>M 5</b>	5.0	0.51	28	0.64	5.8	7.2	TCH M 4-28	-	TCHS M 4-28	-
			30	0.64	5.8	7.2	TCH M 4-30	-	TCHS M 4-30	-
			35	0.64	5.8	7.2	TCH M 4-35	-	TCHS M 4-35	-
			38	0.64	5.8	7.2	TCH M 4-38	-	TCHS M 4-38	-
			10	0.64	6.4	7.2	TCH M 5-10	-	TCHS M 5-10	-
			12	0.64	6.4	7.2	TCH M 5-12	-	TCHS M 5-12	-
			15	0.64	6.4	7.2	TCH M 5-15	-	TCHS M 5-15	-
			18	0.64	6.4	7.2	TCH M 5-18	-	TCHS M 5-18	-
			20	0.64	6.4	7.2	TCH M 5-20	-	TCHS M 5-20	-
			22	0.64	6.4	7.2	TCH M 5-22	-	TCHS M 5-22	-
25	0.64	6.4	7.2	TCH M 5-25	-	TCHS M 5-25	-			
28	0.64	6.4	7.2	TCH M 5-28	-	TCHS M 5-28	-			
30	0.64	6.4	7.2	TCH M 5-30	-	TCHS M 5-30	-			
35	0.64	6.4	7.2	TCH M 5-35	-	TCHS M 5-35	-			
38	0.64	6.4	7.2	TCH M 5-38	-	TCHS M 5-38	-			

For punch and die dimensions, see page 23.

We reserve the right to amend specifications at any time.

# Captive® Self-clinching fasteners

## Technical data

Thread	Tightening torque <i>max</i> [Nm]	Material  [mm]	Sheet material			
			Material hardness [HRB]	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
<b>M 3</b>	0.74	Aluminium 0.5	28	5.3	190	0.6
		Steel 0.6	52	6.7	290	1.0
<b>M 4</b>	1.70	Aluminium 0.5	28	9.8	245	0.7
		Steel 0.6	52	13.4	495	2.5
<b>M 5</b>	3.50	Aluminium 0.5	28	13.4	265	1.2
		Steel 0.6	52	17.8	665	2.9

For guidance only - the precise values must be determined using the original component.  
For punch and die dimensions, see page 16.

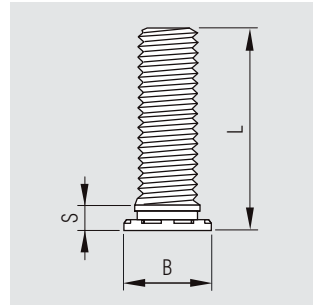
We reserve the right to amend specifications at any time.


Close edge studs for metals  
for fitting close to an edge

**Material**

■ Steel zinc (CHE series)  
suitable for metal hardnesses up to HRB 80

■ Stainless Steel passivate (CHES series)  
suitable for metal hardnesses up to HRB 70



Thread	Hole $\varnothing$ $+0.08 -0.00$ [mm]	Material thickness <i>min</i> [mm]	L $\pm 0.4$ [mm]	B $\pm 0.4$ [mm]	S <i>max</i> [mm]	 <i>min</i> [mm]	■ Steel		■ Stainless Steel	
							Description	Part No.	Description	Part No.
<b>M 2.5</b>	2.5	1.0	6	3.15	2.1	2.8	CHE M 2.5-6	<b>358 863</b>	CHES M 2.5-6	-
			8	3.15	2.1	2.8	CHE M 2.5-8	<b>358 881</b>	CHES M 2.5-8	<b>358 937</b>
			10	3.15	2.1	2.8	CHE M 2.5-10	<b>358 864</b>	CHES M 2.5-10	-
			12	3.15	2.1	2.8	CHE M 2.5-12	<b>358 858</b>	CHES M 2.5-12	-
			15	3.15	2.1	2.8	CHE M 2.5-15	<b>358 865</b>	CHES M 2.5-15	<b>358 938</b>
			18	3.15	2.1	2.8	CHE M 2.5-18	<b>358 877</b>	CHES M 2.5-18	<b>358 939</b>
			25	3.15	2.1	2.8	CHE M 2.5-25	<b>358 882</b>	CHES M 2.5-25	-
<b>M 3</b>	3.0	1.0	6	3.65	2.1	3.3	CHE M 3-6	<b>358 888</b>	CHES M 3-6	<b>358 756</b>
			7	3.65	2.1	3.3	CHE M 3-7	<b>358 852</b>	CHES M 3-7	-
			8	3.65	2.1	3.3	CHE M 3-8	<b>358 889</b>	CHES M 3-8	<b>358 758</b>
			10	3.65	2.1	3.3	CHE M 3-10	<b>358 890</b>	CHES M 3-10	<b>358 645</b>
			12	3.65	2.1	3.3	CHE M 3-12	<b>358 891</b>	CHES M 3-12	<b>358 737</b>
			15	3.65	2.1	3.3	CHE M 3-15	<b>358 892</b>	CHES M 3-15	<b>358 759</b>
			18	3.65	2.1	3.3	CHE M 3-18	<b>358 893</b>	CHES M 3-18	<b>358 902</b>
			20	3.65	2.1	3.3	CHE M 3-20	<b>358 861</b>	CHES M 3-20	<b>358 738</b>
			22	3.65	2.1	3.3	CHE M 3-22	<b>358 862</b>	CHES M 3-22	-
25	3.65	2.1	3.3	CHE M 3-25	<b>358 886</b>	CHES M 3-25	-			
<b>M 3.5</b>	3.5	1.0	6	4.15	2.3	3.8	CHE M 3.5-6	-	CHES M3.5-6	-
			8	4.15	2.3	3.8	CHE M 3.5-8	-	CHES M3.5-8	-
			10	4.15	2.3	3.8	CHE M 3.5-10	-	CHES M3.5-10	-
			12	4.15	2.3	3.8	CHE M 3.5-12	-	CHES M3.5-12	-
			15	4.15	2.3	3.8	CHE M 3.5-15	-	CHES M3.5-15	-
			18	4.15	2.3	3.8	CHE M 3.5-18	-	CHES M3.5-18	-
			20	4.15	2.3	3.8	CHE M 3.5-20	-	CHES M3.5-20	-
			25	4.15	2.3	3.8	CHE M 3.5-25	-	CHES M3.5-25	-
30	4.15	2.3	3.8	CHE M 3.5-30	-	CHES M3.5-30	-			


Continued on next page

For punch and die dimensions, see page 23.

We reserve the right to amend specifications at any time.

# Captive® Self-clinching fasteners

Continued

Thread	Hole $\varnothing$ $+0.08 -0.00$ [mm]	Material thickness <i>min</i> [mm]	L $\pm 0.4$ [mm]	B $\pm 0.4$ [mm]	S <i>max</i> [mm]	 <i>min</i> [mm]	■ Steel		■ Stainless Steel	
							Description	Part No.	Description	Part No.
<b>M 4</b>	4.0	1.0	6	4.65	2.4	4.3	CHE M 4-6	<b>358 876</b>	CHES M 4-6	-
			8	4.65	2.4	4.3	CHE M 4-8	<b>358 866</b>	CHES M 4-8	-
			10	4.65	2.4	4.3	CHE M 4-10	<b>358 894</b>	CHES M 4-10	<b>358 913</b>
			12	4.65	2.4	4.3	CHE M 4-12	<b>358 895</b>	CHES M 4-12	-
			15	4.65	2.4	4.3	CHE M 4-15	<b>358 896</b>	CHES M 4-15	<b>358 752</b>
			18	4.65	2.4	4.3	CHE M 4-18	<b>358 897</b>	CHES M 4-18	<b>358 900</b>
			20	4.65	2.4	4.3	CHE M 4-20	<b>358 898</b>	CHES M 4-20	-
			22	4.65	2.4	4.3	CHE M 4-22	<b>358 867</b>	CHES M 4-22	-
			25	4.65	2.4	4.3	CHE M 4-25	<b>358 899</b>	CHES M 4-25	-
			28	4.65	2.4	4.3	CHE M 4-28	<b>358 853</b>	CHES M 4-28	-
			30	4.65	2.4	4.3	CHE M 4-30	<b>358 855</b>	CHES M 4-30	-
			35	4.65	2.4	4.3	CHE M 4-35	<b>358 856</b>	CHES M 4-35	-
			38	4.65	2.4	4.3	CHE M 4-38	<b>358 849</b>	CHES M 4-38	-
			42	4.65	2.4	4.3	CHE M 4-42	-	CHES M 4-42	<b>358 793</b>
			50	4.65	2.4	4.3	CHE M4-50	-	CHES M 4-50	<b>358 792</b>
<b>M 5</b>	5.0	1.0	8	5.9	2.7	5.6	CHE M 5-8	<b>358 755</b>	CHES M 5-8	-
			10	5.9	2.7	5.6	CHE M 5-10	<b>358 868</b>	CHES M 5-10	-
			12	5.9	2.7	5.6	CHE M 5-12	<b>358 869</b>	CHES M 5-12	-
			15	5.9	2.7	5.6	CHE M 5-15	<b>358 878</b>	CHES M 5-15	-
			18	5.9	2.7	5.6	CHE M 5-18	<b>358 873</b>	CHES M 5-18	<b>358 753</b>
			20	5.9	2.7	5.6	CHE M 5-20	<b>358 857</b>	CHES M 5-20	-
			25	5.9	2.7	5.6	CHE M 5-25	<b>358 879</b>	CHES M 5-25	-
			30	5.9	2.7	5.6	CHE M 5-30	<b>358 871</b>	CHES M 5-30	-
			35	5.9	2.7	5.6	CHE M 5-35	-	CHES M 5-35	-

## Technical data

Thread	Tightening torque <i>max</i> [Nm]	Material [mm]	Sheet material				
			Material hardness [HRB]	Press-in force [kN]	Push-out force [N]	Tensile force [N]	Torsional strength [Nm]
<b>M 2.5</b>	0.41	Aluminium 1.2	33	3.1	285	1200	0.55
		Steel 1.1	54	5.3	450	2250	1.10
<b>M 3</b>	0.46	Aluminium 1.2	33	4.4	285	1300	0.65
		Steel 1.1	54	5.3	475	2500	1.25
<b>M 3.5</b>	0.58	Aluminium 1.2	33	4.4	290	1400	0.76
		Steel 1.1	54	6.6	500	2800	1.75
<b>M 4</b>	0.75	Aluminium 1.2	33	5.3	365	1550	1.10
		Steel 1.1	54	6.6	550	3300	2.10
<b>M 5</b>	1.11	Aluminium 1.2	33	11.1	530	1850	2.20
		Steel 1.1	54	20.0	1000	3750	4.40

For guidance only - the precise values must be determined using the original component.  
For punch and die dimensions, see page 16.

We reserve the right to amend specifications at any time.

Self-clinching studs for metals  
for high torques

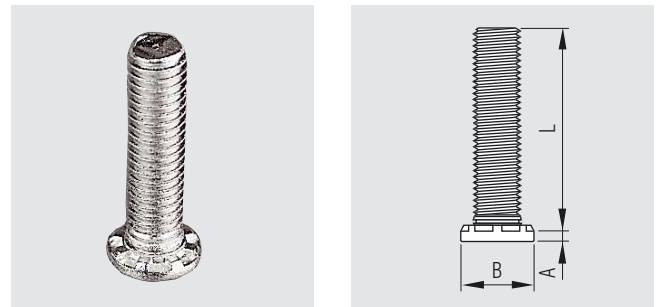
**Material**

■ Steel zinc (HCH series)  
suitable for metal hardnesses up to HRB 85

■ Stainless Steel passivate (HCHS series)  
suitable for metal hardnesses up to HRB 70



■ Phosphorous bronze (HCHB series)  
suitable for metal hardnesses up to HRB 55 – on request



Thread	Hole ø +0.13 -0.00 [mm]	Material thickness min [mm]	L ±0.4 [mm]	A max [mm]	B ±0.25 [mm]	 min [mm]	Hole for fastener max [mm]	■ Steel		■ Stainless Steel	
								Description	Part No.	Description	Part No.
<b>M 5</b>	5.0	1.3	15	1.14	7.8	10.7	6.4	HCH M 5-15	<b>358 808</b>	HCHS M 5-15	-
			20	1.14	7.8	10.7	6.4	HCH M 5-20	-	HCHS M 5-20	-
			25	1.14	7.8	10.7	6.4	HCH M 5-25	-	HCHS M 5-25	-
			30	1.14	7.8	10.7	6.4	HCH M 5-30	-	HCHS M 5-30	-
			35	1.14	7.8	10.7	6.4	HCH M 5-35	-	HCHS M 5-35	-
			40	1.14	7.8	10.7	6.4	HCH M 5-40	-	HCHS M 5-40	-
			50	1.14	7.8	10.7	6.4	HCH M 5-50	-	HCHS M 5-50	-
<b>M 6</b>	6.0	1.5	10	1.27	9.4	11.5	7.5	HCH M 6-10	<b>358 810</b>	HCHS M 6-10	-
			15	1.27	9.4	11.5	7.5	HCH M 6-15	-	HCHS M 6-15	<b>358 823</b>
			20	1.27	9.4	11.5	7.5	HCH M 6-20	<b>358 812</b>	HCHS M 6-20	-
			25	1.27	9.4	11.5	7.5	HCH M 6-25	<b>358 813</b>	HCHS M 6-25	<b>358 822</b>
			30	1.27	9.4	11.5	7.5	HCH M 6-30	-	HCHS M 6-30	-
			35	1.27	9.4	11.5	7.5	HCH M 6-35	<b>358 815</b>	HCHS M 6-35	-
			40	1.27	9.4	11.5	7.5	HCH M 6-40	-	HCHS M 6-40	-
<b>M 8</b>	8.0	2.0	14	1.78	12.5	12.7	9.5	HCH M 8-14	<b>358 821</b>	HCHS M 8-14	-
			16	1.78	12.5	12.7	9.5	HCH M 8-16	<b>358 816</b>	HCHS M 8-16	-
			20	1.78	12.5	12.7	9.5	HCH M 8-20	<b>358 817</b>	HCHS M 8-20	-
			25	1.78	12.5	12.7	9.5	HCH M 8-25	<b>358 818</b>	HCHS M 8-25	<b>358 824</b>
			30	1.78	12.5	12.7	9.5	HCH M 8-30	<b>358 819</b>	HCHS M 8-30	-
			35	1.78	12.5	12.7	9.5	HCH M 8-35	<b>358 820</b>	HCHS M 8-35	-
			40	1.78	12.5	12.7	9.5	HCH M 8-40	-	HCHS M 8-40	-
<b>M 10</b>	10.0	2.3	15	2.29	15.7	13.7	11.5	HCH M 10-15	<b>358 840</b>	HCHS M 10-15	-
			20	2.29	15.7	13.7	11.5	HCH M 10-20	-	HCHS M 10-20	-
			25	2.29	15.7	13.7	11.5	HCH M 10-25	-	HCHS M 10-25	-
			30	2.29	15.7	13.7	11.5	HCH M 10-30	<b>358 779</b>	HCHS M 10-30	<b>358 809</b>
			35	2.29	15.7	13.7	11.5	HCH M 10-35	-	HCHS M 10-35	-
			40	2.29	15.7	13.7	11.5	HCH M 10-40	-	HCHS M 10-40	-
			50	2.29	15.7	13.7	11.5	HCH M 10-50	-	HCHS M 10-50	-

For punch and die dimensions, see page 23.

We reserve the right to amend specifications at any time.

## Technical data

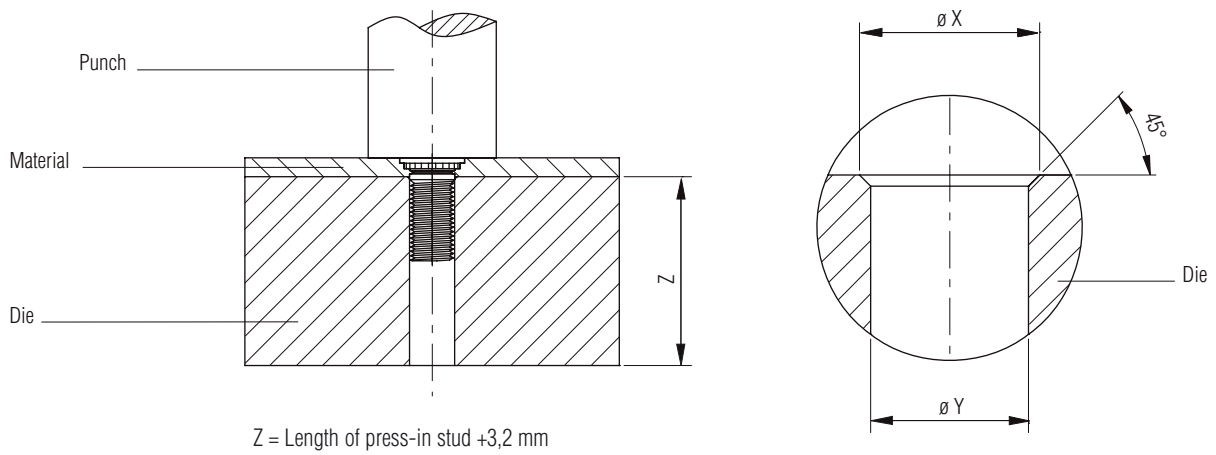
Thread	Description	Test material	Material hardness	Press-in force	Push-out force	Torsional strength	Over tightening torque
		[mm]	[HRB]	[kN]	[N]	[Nm]	[Nm]
<b>M 5</b>	HCH	1.5 Aluminium	15	13.0	800	5.4	4.4
	HCH	1.5 Steel	65	26.0	1500	7.6	4.4
	HCHS	1.62 Aluminium	35	12.4	800	5.4	4.4
	HCHS	1.47 Aluminium	54	21.7	1500	6.4	4.4
	HCHB	1.5 Copper CDA-110	28	15.6	1115	3.4	3.5
<b>M 6</b>	HCH	1.5 Aluminium	43	29.0	1270	14.0	10.0
	HCH	1.5 Steel	59	33.0	1750	14.0	10.0
	HCHS	1.62 Aluminium	35	15.4	1270	11.0	10.0
	HCHS	1.6 Aluminium	45	24.6	1750	11.0	10.0
	HCHB	1.5 Copper CDA-110	28	25.3	1600	6.7	5.9
<b>M 8</b>	HCH	2.3 Aluminium	39	35.6	1700	30.0	21.7
	HCH	2.3 Steel	58	44.5	2200	30.0	21.7
	HCHS	2.23 Aluminium	44	24.4	1700	20.0	21.7
	HCHS	2.48 Steel	43	37.8	2100	20.0	21.7
	HCHB	3.2 Copper CDA-110	32	33.0	2250	15.3	14.3
<b>M 10</b>	HCH	2.3 Aluminium	39	53.3	2445	36.0	36.6
	HCH	2.3 Steel	58	80.0	3470	49.0	36.6
	HCHS	2.3 Aluminium	44	44.4	2445	36.0	36.6
	HCHS	2.3 Steel	44	57.7	3470	36.0	36.6
	HCHB	3.2 Copper CDA-110	32	53.3	2500	25.0	28.5

For guidance only - the precise values must be determined using the original component.  
For punch and die dimensions, see page 23.

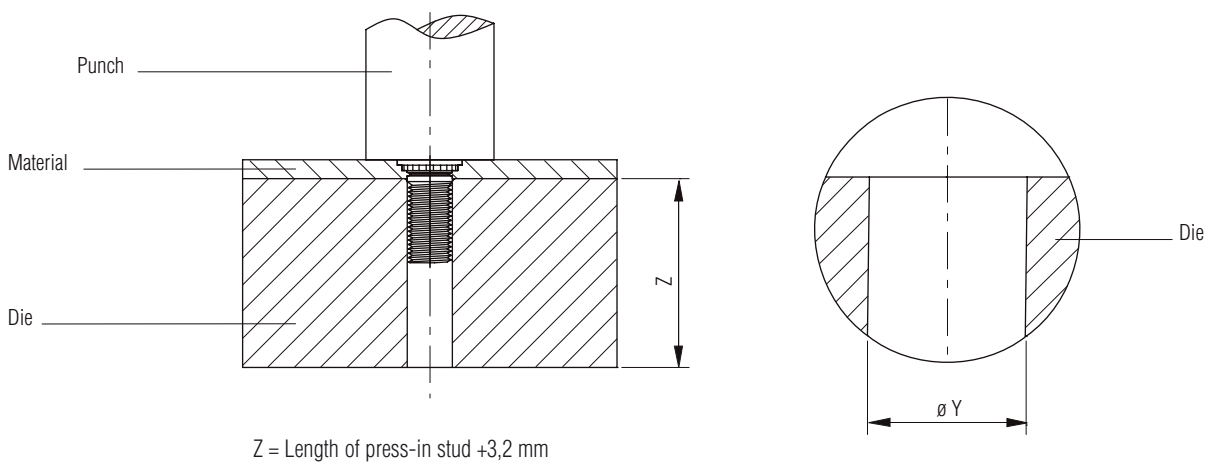
**Punch / die dimensions for press-in studs of the series: TCH – TCHS – CHE – CHES – HCH – HCHS – HCHB**

Thread	Die dimensions	
	X +0.1 [mm]	Y +0.1 [mm]
<b>M 2.5</b>	3.1	2.6
<b>M 3</b>	3.6	3.1
<b>M 4</b>	4.6	4.1
<b>M 5</b>	5.6	5.1

**Die for material thickness < 1,5 mm**



**Die for material thickness > 1,5 mm**



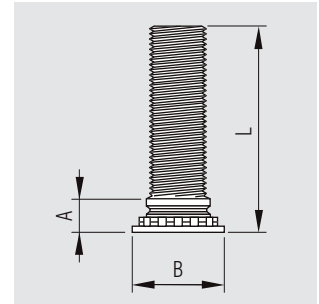
We reserve the right to amend specifications at any time.


# Captive® Self-clinching fasteners

## Self-clinching studs for metals

### Material

Stainless Steel passivate (CHTS series)  
suitable for metal hardnesses up to HRB 92



Thread	Hole $\varnothing$ $+0.08 -0.00$ [mm]	Material thickness [mm]	L $\pm 0.4$ [mm]	A <i>max</i> [mm]	B $\pm 0.4$ [mm]	 <i>min</i> [mm]	Stainless Steel	
							Description	Part No.
<b>M 3</b>	3.0	1 -2.4	6	2.1	4.6	5.6	CHTS M 3-6	<b>358 956</b>
			8	2.1	4.6	5.6	CHTS M 3-8	<b>358 940</b>
			10	2.1	4.6	5.6	CHTS M 3-10	<b>358 825</b>
			12	2.1	4.6	5.6	CHTS M 3-12	<b>358 970</b>
			15	2.1	4.6	5.6	CHTS M 3-15	<b>358 975</b>
			18	2.1	4.6	5.6	CHTS M 3-18	-
			20	2.1	4.6	5.6	CHTS M 3-20	<b>358 971</b>
			25	2.1	4.6	5.6	CHTS M 3-25	-
<b>M 4</b>	4.0	1 -2.4	6	2.4	5.9	7.2	CHTS M 4-6	-
			8	2.4	5.9	7.2	CHTS M 4-8	<b>358 935</b>
			10	2.4	5.9	7.2	CHTS M 4-10	<b>358 972</b>
			12	2.4	5.9	7.2	CHTS M 4-12	<b>358 845</b>
			15	2.4	5.9	7.2	CHTS M 4-15	<b>358 976</b>
			18	2.4	5.9	7.2	CHTS M 4-18	-
			20	2.4	5.9	7.2	CHTS M 4-20	-
			25	2.4	5.9	7.2	CHTS M 4-25	-
			30	2.4	5.9	7.2	CHTS M 4-30	<b>358 811</b>
<b>M 5</b>	5.0	1 -2.4	8	2.7	6.5	7.2	CHTS M 5-8	-
			10	2.7	6.5	7.2	CHTS M 5-10	<b>358 974</b>
			12	2.7	6.5	7.2	CHTS M 5-12	-
			15	2.7	6.5	7.2	CHTS M 5-15	-
			18	2.7	6.5	7.2	CHTS M 5-18	-
			20	2.7	6.5	7.2	CHTS M 5-20	<b>358 973</b>
			25	2.7	6.5	7.2	CHTS M 5-25	-
<b>M 6</b>	6.0	1.6 -3	8	3.0	8.2	7.9	CHTS M 6-8	<b>358 915</b>
			10	3.0	8.2	7.9	CHTS M 6-10	-
			12	3.0	8.2	7.9	CHTS M 6-12	<b>358 736</b>
			15	3.0	8.2	7.9	CHTS M 6-15	<b>358 936</b>
			18	3.0	8.2	7.9	CHTS M 6-18	-
			20	3.0	8.2	7.9	CHTS M 6-20	-
			22	3.0	8.2	7.9	CHTS M 6-22	<b>358 918</b>
25	3.0	8.2	7.9	CHTS M 6-25	<b>358 805</b>			
			30	3.0	8.2	7.9	CHTS M 6-30	-
			35	3.0	8.2	7.9	CHTS M 6-35	-

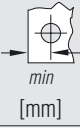
For punch and die dimensions, see page 16.

Continued on next page

We reserve the right to amend specifications at any time.



Continued

Thread	Hole $\varnothing$ $+0.08 -0.00$ [mm]	Material thickness [mm]	L $\pm 0.4$ [mm]	A <i>max</i> [mm]	B $\pm 0.4$ [mm]	 <i>min</i> [mm]	■ Stainless Steel	
							Description	Part No.
<b>M 8</b>	8.0	2.4 -3.8	12	3.7	9.6	9.6	CHTS M 8-12	-
			15	3.7	9.6	9.6	CHTS M 8-15	-
			18	3.7	9.6	9.6	CHTS M 8-18	-
			20	3.7	9.6	9.6	CHTS M 8-20	-
			25	3.7	9.6	9.6	CHTS M 8-25	-
			30	3.7	9.6	9.6	CHTS M 8-30	-
			35	3.7	9.6	9.6	CHTS M 8-35	-

### Technical data

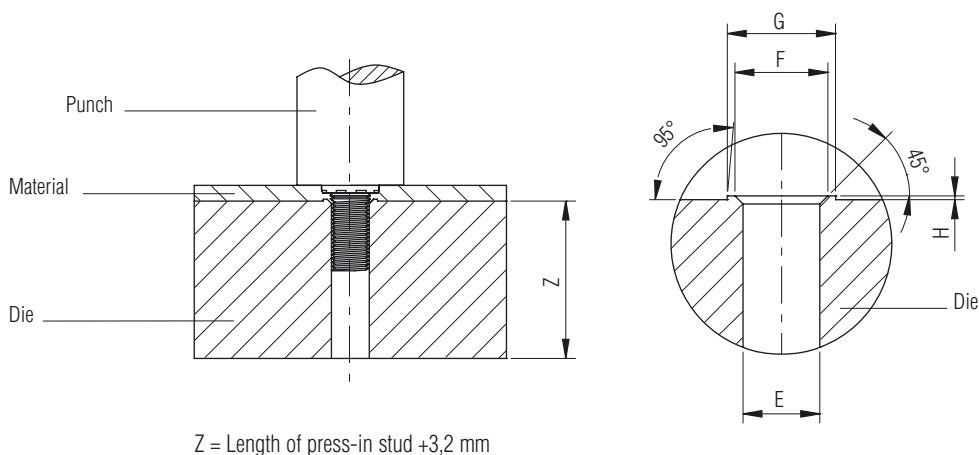
Thread	Test material	Material thickness [mm]	Material hardness [HRB]	Press-in force	Push-out force	Torsional strength	Tensile force
				<i>max</i> [kN]	<i>min</i> [N]	<i>max</i> [Nm]	<i>max</i> [N]
<b>M 3</b>	Stainless Steel	1.5	92	40	2210	1.7	3510
<b>M 4</b>	Stainless Steel	1.5	92	50	3200	6.4	7960
<b>M 5</b>	Stainless Steel	1.5	92	53	3570	10.5	9980
<b>M 6</b>	Stainless Steel	1.5	92	58	4195	15.7	14880
<b>M 8</b>	Stainless Steel	2.3	92	71	7895	33.3	32804

For guidance only - the precise values must be determined using the original component.

### Punch / die dimensions for press-in studs of the series: CHTS

Thread	Die dimensions			
	E [mm]	F [mm]	G [mm]	H [mm]
<b>M 3</b>	3.05	3.81	4.57	0.25
<b>M 4</b>	4.04	4.95	5.82	0.25
<b>M 5</b>	5.08	6.15	7.16	0.25

### Die for material thickness < 1,5 mm



We reserve the right to amend specifications at any time.

# Captive® Self-clinching fasteners

Self-clinching pins for metals  
for thin sheet metal > 1.0 mm

## Material

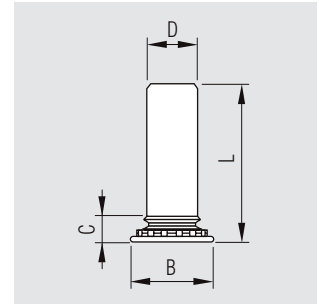
■ Steel heat treated, zinc (CH series)<sup>1</sup>

■ Steel not heat treated, zinc (CHN series)<sup>2</sup>

■ Stainless Steel passivate (CHS series)<sup>3</sup>



■ Aluminium (CHA series)<sup>2</sup>



Pin ø D ±0.05 [mm]	Hole ø +0.08 -0.00 [mm]	Material thickness min [mm]	L ±0.4 [mm]	B ±0.4 [mm]	C max [mm]	⌀ min [mm]	■ Steel heat treated		■ Steel not heat treated		■ Stainless Steel		■ Aluminium	
							Description	Part No.	Description	Part No.	Description	Part No.	Description	Part No.
3	3.5	1.0	6	5.3	2.3	6.4	CH 3MM-6	-	CHN 3MM-6	-	CHS 3MM-6	<b>358 839</b>	CHA 3MM-6	-
			8	5.3	2.3	6.4	CH 3MM-8	-	CHN 3MM-8	<b>358 801</b>	CHS 3MM-8	-	CHA 3MM-8	-
			10	5.3	2.3	6.4	CH 3MM-10	-	CHN 3MM-10	-	CHS 3MM-10	-	CHA 3MM-10	-
			12	5.3	2.3	6.4	CH 3MM-12	<b>358 826</b>	CHN 3MM-12	-	CHS 3MM-12	-	CHA 3MM-12	-
			15	5.3	2.3	6.4	CH 3MM-15	-	CHN 3MM-15	-	CHS 3MM-15	-	CHA 3MM-15	-
			18	5.3	2.3	6.4	CH 3MM-18	-	CHN 3MM-18	-	CHS 3MM-18	-	CHA 3MM-18	-
			20	5.3	2.3	6.4	CH 3MM-20	-	CHN 3MM-20	-	CHS 3MM-20	-	CHA 3MM-20	-
			25	5.3	2.3	6.4	CH 3MM-25	-	CHN 3MM-25	-	CHS 3MM-25	-	CHA 3MM-25	-
			30	5.3	2.3	6.4	CH 3MM-30	-	CHN 3MM-30	-	CHS 3MM-30	-	CHA 3MM-30	-
4	4.1	1.0	8	6.0	2.3	7.1	CH 4MM-8	<b>358 828</b>	CHN 4MM-8	<b>358 841</b>	CHS 4MM-8	<b>358 848</b>	CHA 4MM-8	-
			10	6.0	2.3	7.1	CH 4MM-10	<b>358 827</b>	CHN 4MM-10	-	CHS 4MM-10	-	CHA 4MM-10	-
			12	6.0	2.3	7.1	CH 4MM-12	<b>358 831</b>	CHN 4MM-12	-	CHS 4MM-12	-	CHA 4MM-12	-
			15	6.0	2.3	7.1	CH 4MM-15	<b>358 721</b>	CHN 4MM-15	-	CHS 4MM-15	-	CHA 4MM-15	-
			18	6.0	2.3	7.1	CH 4MM-18	-	CHN 4MM-18	-	CHS 4MM-18	-	CHA 4MM-18	-
			20	6.0	2.3	7.1	CH 4MM-20	<b>358 834</b>	CHN 4MM-20	-	CHS 4MM-20	-	CHA 4MM-20	-
			25	6.0	2.3	7.1	CH 4MM-25	<b>358 835</b>	CHN 4MM-25	<b>358 847</b>	CHS 4MM-25	-	CHA 4MM-25	-
			30	6.0	2.3	7.1	CH 4MM-30	-	CHN 4MM-30	-	CHS 4MM-30	-	CHA 4MM-30	-
5	5.5	1.0	6	7.5	2.55	7.6	CH 5MM-6	<b>358 829</b>	CHN 5MM-6	-	CHS 5MM-6	-	CHA 5MM-6	-
			8	7.5	2.55	7.6	CH 5MM-8	<b>358 830</b>	CHN 5MM-8	-	CHS 5MM-8	-	CHA 5MM-8	-
			10	7.5	2.55	7.6	CH 5MM-10	<b>358 832</b>	CHN 5MM-10	-	CHS 5MM-10	-	CHA 5MM-10	-
			12	7.5	2.55	7.6	CH 5MM-12	<b>358 838</b>	CHN 5MM-12	-	CHS 5MM-12	-	CHA 5MM-12	-
			15	7.5	2.55	7.6	CH 5MM-15	<b>358 833</b>	CHN 5MM-15	-	CHS 5MM-15	-	CHA 5MM-15	-
			18	7.5	2.55	7.6	CH 5MM-18	-	CHN 5MM-18	-	CHS 5MM-18	-	CHA 5MM-18	-
			20	7.5	2.55	7.6	CH 5MM-20	-	CHN 5MM-20	-	CHS 5MM-20	-	CHA 5MM-20	-
			25	7.5	2.55	7.6	CH 5MM-25	<b>358 836</b>	CHN 5MM-25	-	CHS 5MM-25	-	CHA 5MM-25	-
			28	7.5	2.55	7.6	CH 5MM-28	<b>358 837</b>	CHN 5MM-28	-	CHS 5MM-28	-	CHA 5MM-28	-
			30	7.5	2.55	7.6	CH 5MM-30	-	CHN 5MM-30	-	CHS 5MM-30	-	CHA 5MM-30	-
35	7.5	2.55	7.6	CH 5MM-35	<b>358 846</b>	CHN 5MM-35	-	CHS 5MM-35	-	CHA 5MM-35	-			

<sup>1</sup> suitable for metal hardnesses up to HRB 80

<sup>2</sup> suitable for metal hardnesses up to HRB 50

<sup>3</sup> suitable for metal hardnesses up to HRB 70

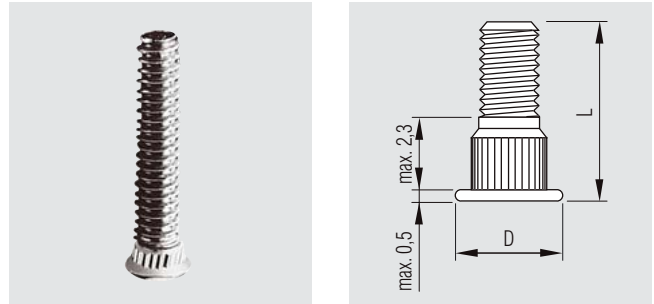
For punch and die dimensions, see page 16.

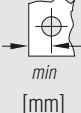
We reserve the right to amend specifications at any time.

Self-clinching studs for plastics  
solderable

**Material**

■ Phosphorous bronze electrolytically tin plated (CKFH series)



Thread	Hole $\varnothing$ $+0.08 -0.00$ [mm]	Material thickness <i>min</i> [mm]	L [mm]	Hole for fastener [mm]	Torque for nut <i>max</i> [Nm]	Hole for die $+0.08 -0.00$ [mm]	D $\pm 0.25$ [mm]	 <i>min</i> [mm]	Description	Part No.
<b>M 2.5</b>	2.6	1.53	6	–	–	2.6	4.10	3.30	CKFH M 2.5-6	<b>358 595</b>
			8	–	–	2.6	4.10	3.30	CKFH M 2.5-8	<b>358 579</b>
			10	–	–	2.6	4.10	3.30	CKFH M 2.5-10	<b>358 591</b>
			12	–	–	2.6	4.10	3.30	CKFH M 2.5-12	<b>358 580</b>
			15	–	–	2.6	4.10	3.30	CKFH M 2.5-15	<b>358 110</b>
<b>M 3</b>	3.0	1.53	6	3.7	0.45	3.1	4.58	3.8	CKFH M 3-6	<b>358 581</b>
			8	3.7	0.45	3.1	4.58	3.8	CKFH M 3-8	<b>358 582</b>
			10	3.7	0.45	3.1	4.58	3.8	CKFH M 3-10	<b>358 583</b>
			12	3.7	0.45	3.1	4.58	3.8	CKFH M 3-12	<b>358 584</b>
			15	3.7	0.45	3.1	4.58	3.8	CKFH M 3-15	<b>358 585</b>
			18	3.7	0.45	3.1	4.58	3.8	CKFH M 3-18	<b>358 586</b>
			20	3.7	0.45	3.1	4.58	3.8	CKFH M 3-20	<b>358 592</b>
<b>M 4</b>	4.2	1.53	6	4.8	1.60	4.1	5.74	5.1	CKFH M 4-6	–
			8	4.8	1.60	4.1	5.74	5.1	CKFH M 4-8	<b>358 587</b>
			10	4.8	1.60	4.1	5.74	5.1	CKFH M 4-10	<b>358 588</b>
			12	4.8	1.60	4.1	5.74	5.1	CKFH M 4-12	<b>358 589</b>
			15	4.8	1.60	4.1	5.74	5.1	CKFH M 4-15	<b>358 590</b>
<b>M 5</b>	5.0	1.53	18	4.8	1.60	4.1	5.74	5.1	CKFH M 4-18	–
			6	5.8	2.10	5.1	6.60	5.3	CKFH M 5-6	–
			8	5.8	2.10	5.1	6.60	5.3	CKFH M 5-8	–
			10	5.8	2.10	5.1	6.60	5.3	CKFH M 5-10	–
			12	5.8	2.10	5.1	6.60	5.3	CKFH M 5-12	–
			15	5.8	2.10	5.1	6.60	5.3	CKFH M 5-15	–
18	5.8	2.10	5.1	6.60	5.3	CKFH M 5-18	–			

**Technical data**

Thread	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
<b>M 3</b>	1.8	285	0.79
<b>M 4</b>	1.8	355	1.80
<b>M 5</b>	1.8	400	1.92

For guidance only - the precise values must be determined using the original component.  
Hole  $\varnothing$  of dies = Dimension "A"  $+0.10/+0.18$  mm.

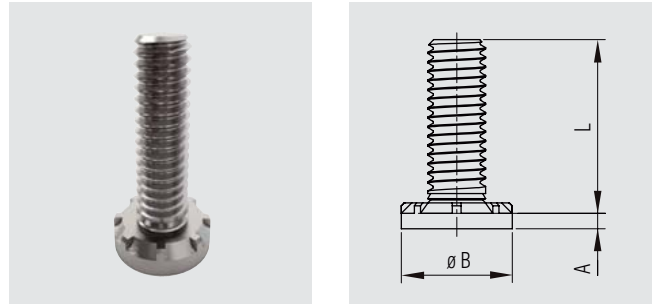
We reserve the right to amend specifications at any time.


# Captive® Self-clinching fasteners

Self-clinching studs for metals  
with wide head for increase pull-through strength

## Material

- Steel zinc (HCW series)  
suitable for metal hardnesses up to HRB 85



Thread	Hole $\varnothing$ $+0.13 -0.00$ [mm]	Material thickness <i>min</i> [mm]	L $\pm 0.4$ [mm]	A <i>max</i> [mm]	B $\pm 0.25$ [mm]	 <i>min</i> [mm]	Hole for fastener <i>max</i> [mm]	Steel	
								Description	Part No.
<b>M 5</b>	5.0	1.0	15	1.35	9.6	10.0	7.3	HCW M5 -15	-
			20	1.35	9.6	10.0	7.3	HCW M5 -20	-
			25	1.35	9.6	10.0	7.3	HCW M5 -25	-
			30	1.35	9.6	10.0	7.3	HCW M5 -30	-
			35	1.35	9.6	10.0	7.3	HCW M5 -35	-
			40	1.35	9.6	10.0	7.3	HCW M5 -40	-
			50	1.35	9.6	10.0	7.3	HCW M5 -50	-
<b>M 6</b>	6.0	1.0	15	1.52	11.35	11.5	8.3	HCW M6 -15	-
			20	1.52	11.35	11.5	8.3	HCW M6 -20	-
			25	1.52	11.35	11.5	8.3	HCW M6 -25	-
			30	1.52	11.35	11.5	8.3	HCW M6 -30	-
			35	1.52	11.35	11.5	8.3	HCW M6 -35	-
			40	1.52	11.35	11.5	8.3	HCW M6 -40	-
			50	1.52	11.35	11.5	8.3	HCW M6 -50	-
<b>M 8</b>	8.0	1.5	15	2.13	15.3	14.5	10.3	HCW M8 -15	-
			20	2.13	15.3	14.5	10.3	HCW M8 -20	-
			25	2.13	15.3	14.5	10.3	HCW M8 -25	-
			30	2.13	15.3	14.5	10.3	HCW M8 -30	-
			35	2.13	15.3	14.5	10.3	HCW M8 -35	-
			40	2.13	15.3	14.5	10.3	HCW M8 -40	-
			50	2.13	15.3	14.5	10.3	HCW M8 -50	-

## Technical data

Thread	Test material	Material hardness [HRB]	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
<b>M 5</b>	Aluminium 1.0	27	37.7	685	8.0
	Steel 1.0	67	51.1	1345	8.0
<b>M 6</b>	Aluminium 1.0	27	39	745	11.7
	Steel 1.0	67	60	1395	14.3
<b>M 8</b>	Aluminium 1.5	22	42.0	1225	23.4
	Steel 1.5	65	71.1	2395	33.8

For guidance only - the precise values must be determined using the original component.

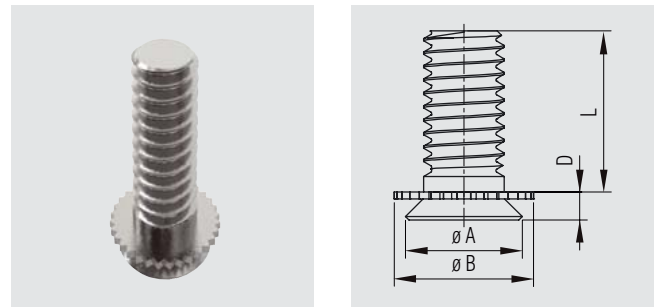
We reserve the right to amend specifications at any time.


Self-clinching concealed head studs for metals  
for blind holes

**Material**

■ Aluminium (CFA series)  
suitable for metal hardnesses up to HRB 50

■ Stainless Steel passivate (CFC series)  
suitable for metal hardnesses up to HRB 70



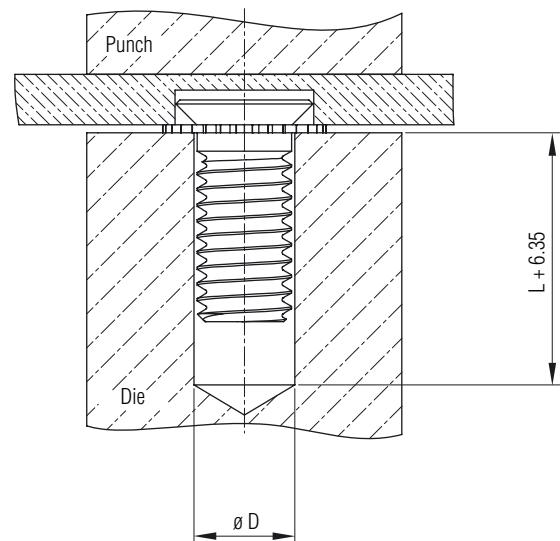
Thread	Blind hole ø +0.08 -0.00 [mm]	Material thickness min [mm]	L [mm]	Hole depth		Hole		D [mm]	B ±0.25 [mm]	A max [mm]	 min [mm]	■ Aluminium		■ Stainless Steel		
				min [mm]	max [mm]	max [mm]	max [mm]					Description	Part No.	Description	Part No.	
M 3	4.37	1.6	6	1.1	3.6	1.04	5.21	4.35	4.0	CFA-1 M3-6	—	CFC-1 M3-6	—			
			8	1.1	3.6	1.04	5.21	4.35	4.0	CFA-1 M3-8	—	CFC-1 M3-8	—			
			10	1.1	3.6	1.04	5.21	4.35	4.0	CFA-1 M3-10	—	CFC-1 M3-10	—			
			12	1.1	3.6	1.04	5.21	4.35	4.0	CFA-1 M3-12	—	CFC-1 M3-12	—			
			16	1.1	3.6	1.04	5.21	4.35	4.0	CFA-1 M3-16	—	CFC-1 M3-16	—			
			20	1.1	3.6	1.04	5.21	4.35	4.0	CFA-1 M3-20	—	CFC-1 M3-20	—			
		2.4	6	1.91	3.6	1.80	5.21	4.35	4.0	CFA-2 M3-6	—	CFC-2 M3-6	—			
			8	1.91	3.6	1.80	5.21	4.35	4.0	CFA-2 M3-8	—	CFC-2 M3-8	—			
			10	1.91	3.6	1.80	5.21	4.35	4.0	CFA-2 M3-10	—	CFC-2 M3-10	—			
			12	1.91	3.6	1.80	5.21	4.35	4.0	CFA-2 M3-12	<b>358 024</b>	CFC-2 M3-12	—			
			16	1.91	3.6	1.80	5.21	4.35	4.0	CFA-2 M3-16	<b>358 014</b>	CFC-2 M3-16	—			
			20	1.91	3.6	1.80	5.21	4.35	4.0	CFA-2 M3-20	—	CFC-2 M3-20	—			
			M 4	7.37	1.6	6	1.1	4.6	1.04	8.33	7.35	5.6	CFA-1 M4-6	—	CFC-1 M4-6	—
						8	1.1	4.6	1.04	8.33	7.35	5.6	CFA-1 M4-8	—	CFC-1 M4-8	—
10	1.1	4.6				1.04	8.33	7.35	5.6	CFA-1 M4-10	<b>358 775</b>	CFC-1 M4-10	—			
12	1.1	4.6				1.04	8.33	7.35	5.6	CFA-1 M4-12	<b>358 776</b>	CFC-1 M4-12	—			
16	1.1	4.6				1.04	8.33	7.35	5.6	CFA-1 M4-16	—	CFC-1 M4-16	—			
20	1.1	4.6				1.04	8.33	7.35	5.6	CFA-1 M4-20	—	CFC-1 M4-20	—			
2.4	25	1.1			4.6	1.04	8.33	7.35	5.6	CFA-1 M4-25	—	CFC-1 M4-25	—			
	6	1.91			4.6	1.80	8.33	7.35	5.6	CFA-2 M4-6	—	CFC-2 M4-6	—			
	8	1.91			4.6	1.80	8.33	7.35	5.6	CFA-2 M4-8	—	CFC-2 M4-8	—			
	10	1.91			4.6	1.80	8.33	7.35	5.6	CFA-2 M4-10	—	CFC-2 M4-10	—			
	12	1.91			4.6	1.80	8.33	7.35	5.6	CFA-2 M4-12	—	CFC-2 M4-12	—			
	16	1.91			4.6	1.80	8.33	7.35	5.6	CFA-2 M4-16	—	CFC-2 M4-16	—			
	20	1.91			4.6	1.80	8.33	7.35	5.6	CFA-2 M4-20	—	CFC-2 M4-20	—			
	25	1.91			4.6	1.80	8.33	7.35	5.6	CFA-2 M4-25	—	CFC-2 M4-25	—			
M 5	7.93	1.6	10	1.1	5.6	1.04	8.89	7.90	6.4	CFA-1 M5-10	—	CFC-1 M5-10	—			
			12	1.1	5.6	1.04	8.89	7.90	6.4	CFA-1 M5-12	—	CFC-1 M5-12	—			
			16	1.1	5.6	1.04	8.89	7.90	6.4	CFA-1 M5-16	—	CFC-1 M5-16	—			
			20	1.1	5.6	1.04	8.89	7.90	6.4	CFA-1 M5-20	—	CFC-1 M5-20	—			
			25	1.1	5.6	1.04	8.89	7.90	6.4	CFA-1 M5-25	—	CFC-1 M5-25	—			
		2.4	10	1.91	5.6	1.80	8.89	7.90	6.4	CFA-2 M5-10	—	CFC-2 M5-10	—			
			12	1.91	5.6	1.80	8.89	7.90	6.4	CFA-2 M5-12	—	CFC-2 M5-12	—			
			16	1.91	5.6	1.80	8.89	7.90	6.4	CFA-2 M5-16	—	CFC-2 M5-16	—			
			20	1.91	5.6	1.80	8.89	7.90	6.4	CFA-2 M5-20	—	CFC-2 M5-20	—			
			25	1.91	5.6	1.80	8.89	7.90	6.4	CFA-2 M5-25	—	CFC-2 M5-25	—			

We reserve the right to amend specifications at any time.

## Technical data

Type	Thread	Tightening torque <i>max</i> [Nm]	Steel		Aluminium (H 34)	
			Press-in force [kN]	Push-out force [N]	Press-in force [kN]	Push-out force [N]
CFC-1	M 3	0.5	8	1065	6.2	575
	M 4	2.0	17.8	1200	12.5	800
	M 5	3.6	22.2	1290	17.8	930
CFC-2	M 3	0.5	8.9	1065	6.7	890
	M 4	2.0	14.7	1955	13.3	1375
	M 5	3.6	17.8	3020	15.6	1600
CFA-1	M 3	0.3	–	–	6.2	555
	M 4	1.2	–	–	12.5	645
	M 5	2.16	–	–	17.8	755
CFA-2	M 3	0.3	–	–	6.7	845
	M 4	1.2	–	–	13.3	1065
	M 5	2.16	–	–	15.6	1330

1. Punch the blind hole.
2. Place the stud in the die hole.
3. Place the sheet on the side of the head.
4. Install the fastener. Make sure the punch and die are parallel to each other, until the stud collar is flush with the sheet surface.



## Die dimensions for concealed-head studs CFC-1/ CFC-2/ CFA-1/ CFA-2

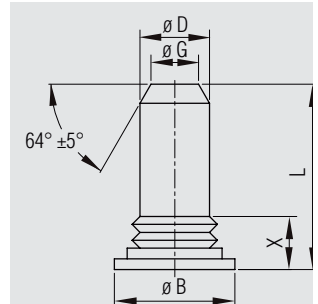
Type	Thread	D [mm]
CFA / CFC	M 3	3.4
	M 4	4.4
	M 5	5.4


We reserve the right to amend specifications at any time.

Self-clinching studs for metals  
for thin sheets from 1.0 mm

**Material**

■ Stainless Steel (CGS series)  
suitable for metal hardnesses up to HRB 70



Pin ø D ±0.05 [mm]	Hole ø +0.08 -0.00 [mm]	Material thickness min [mm]	L ±0.4 [mm]	B ±0.4 [mm]	X max [mm]	G ±0.15 [mm]	 min [mm]	■ Stainless Steel	
								Description	Part No.
<b>3</b>	3.5	1.0	8	5.20	2.29	2.05	6.4	CGS 3MM-8	-
			10	5.20	2.29	2.05	6.4	CGS 3MM-10	-
			12	5.20	2.29	2.05	6.4	CGS 3MM-12	<b>358 496</b>
			16	5.20	2.29	2.05	6.4	CGS 3MM-16	-
<b>4</b>	4.5	1.0	8	6.12	2.29	2.82	7.1	CGS 4MM-8	-
			10	6.12	2.29	2.82	7.1	CGS 4MM-10	<b>358 495</b>
			12	6.12	2.29	2.82	7.1	CGS 4MM-12	-
			16	6.12	2.29	2.82	7.1	CGS 4MM-16	-
<b>5</b>	5.5	1.0	10	7.19	2.29	3.53	7.6	CGS 5MM-10	-
			12	7.19	2.29	3.53	7.6	CGS 5MM-12	<b>358 498</b>
			16	7.19	2.29	3.53	7.6	CGS 5MM-16	-
			20	7.19	2.29	3.53	7.6	CGS 5MM-20	-
<b>6</b>	6.5	1.0	12	8.13	2.29	4.24	7.9	CGS 6MM-12	<b>358 497</b>
			16	8.13	2.29	4.24	7.9	CGS 6MM-16	-
			20	8.13	2.29	4.24	7.9	CGS 6MM-20	-

**Technical data**

Pin ø D ±0.05 [mm]	Test material	Material hardness [HRB]	Press-in force [kN]	Push-out force [N]
<b>3 MM</b>	Aluminium	22	12	550
	Steel	65	22	970
<b>4 MM</b>	Aluminium	19	22	880
	Steel	66	26.4	1530
<b>5 MM</b>	Aluminium	18	28.6	1000
	Steel	60	35.2	1750
<b>6 MM</b>	Aluminium	18	30.8	1050
	Steel	62	39.6	2050

For guidance only - the precise values must be determined using the original component.

We reserve the right to amend specifications at any time.

# Captive® Self-clinching fasteners

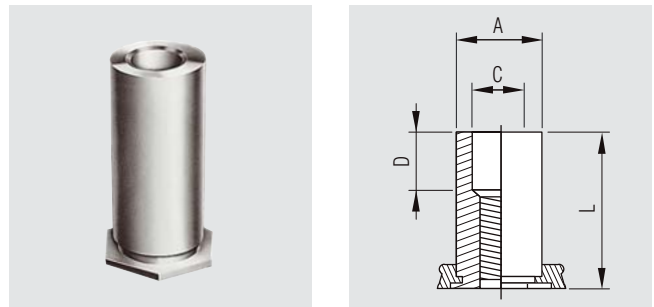
Self-clinching stand-offs with thread for metals  
open style


## Material

■ Steel zinc (CFSO series)  
suitable for metal hardnesses up to HRB 80

■ Stainless Steel passivate (CFSOS series) 

■ Aluminium (CFSOA series)  
suitable for metal hardnesses up to HRB 50




Thread	Hole ø +0.08 -0.00 [mm]	Material thickness min [mm]	L +0.05 -0.13 [mm]	A +0.00 -0.13 [mm]	A/F nom [mm]	C ±0.13 [mm]	D ±0.25 [mm]		■ Steel		■ Stainless Steel		■ Aluminium	
									Description	Part No.	Description	Part No.	Description	Part No.
M 3	4.22	1.0	3.0	4.2	4.8	3.2	0	6.0	CFSO M 3-3	<b>358 330</b>	CFSOS M 3-3	-	CFSOA M 3-3	-
			3.5	4.2	4.8	3.2	0	6.0	CFSO M 3-3.5	<b>358 326</b>	CFSOS M 3-3.5	-	CFSOA M 3-3.5	-
			4.0	4.2	4.8	3.2	0	6.0	CFSO M 3-4	<b>358 331</b>	CFSOS M 3-4	<b>358 381</b>	CFSOA M 3-4	-
			4.5	4.2	4.8	3.2	0	6.0	CFSO M 3-4.5	<b>358 321</b>	CFSOS M 3-4.5	-	CFSOA M 3-4.5	-
			5.0	4.2	4.8	3.2	0	6.0	CFSO M 3-5	<b>358 337</b>	CFSOS M 3-5	<b>358 379</b>	CFSOA M 3-5	-
			6.0	4.2	4.8	3.2	0	6.0	CFSO M 3-6	<b>358 332</b>	CFSOS M 3-6	<b>358 382</b>	CFSOA M 3-6	-
			7.0	4.2	4.8	3.2	0	6.0	CFSO M 3-7	<b>358 322</b>	CFSOS M 3-7	-	CFSOA M 3-7	-
			8.0	4.2	4.8	3.2	0	6.0	CFSO M 3-8	<b>358 333</b>	CFSOS M 3-8	<b>358 383</b>	CFSOA M 3-8	-
			10.0	4.2	4.8	3.2	4.0	6.0	CFSO M 3-10	<b>358 334</b>	CFSOS M 3-10	<b>358 385</b>	CFSOA M 3-10	-
			12.0	4.2	4.8	3.2	4.0	6.0	CFSO M 3-12	<b>358 335</b>	CFSOS M 3-12	<b>358 380</b>	CFSOA M 3-12	-
			14.0	4.2	4.8	3.2	4.0	6.0	CFSO M 3-14	<b>358 336</b>	CFSOS M 3-14	-	CFSOA M 3-14	-
			16.0	4.2	4.8	3.2	8.0	6.0	CFSO M 3-16	-	CFSOS M 3-16	-	CFSOA M 3-16	-
			18.0	4.2	4.8	3.2	8.0	6.0	CFSO M 3-18	-	CFSOS M 3-18	-	CFSOA M 3-18	-
			5.41	1.0	3.0	5.39	6.4	3.2	0	6.8	CFSO3.5 M 3-3	<b>358 340</b>	CFSOS3.5 M 3-3	-
	4.0	5.39			6.4	3.2	0	6.8	CFSO3.5 M 3-4	<b>358 341</b>	CFSOS3.5 M 3-4	-	CFSOA3.5 M 3-4	-
	5.0	5.39			6.4	3.2	0	6.8	CFSO3.5 M 3-5	<b>358 342</b>	CFSOS3.5 M 3-5	-	CFSOA3.5 M 3-5	-
	6.0	5.39			6.4	3.2	0	6.8	CFSO3.5 M 3-6	<b>358 343</b>	CFSOS3.5 M 3-6	<b>358 391</b>	CFSOA3.5 M 3-6	-
	8.0	5.39			6.4	3.2	0	6.8	CFSO3.5 M 3-8	<b>358 344</b>	CFSOS3.5 M 3-8	<b>358 390</b>	CFSOA3.5 M 3-8	-
	9.0	5.39			6.4	3.2	0	6.8	CFSO3.5 M 3-9	<b>358 350</b>	CFSOS3.5 M 3-9	-	CFSOA3.5 M 3-9	-
	10.0	5.39			6.4	3.2	4.0	6.8	CFSO3.5 M 3-10	<b>358 345</b>	CFSOS3.5 M 3-10	<b>358 393</b>	CFSOA3.5 M 3-10	-
	12.0	5.39			6.4	3.2	4.0	6.8	CFSO3.5 M 3-12	<b>358 346</b>	CFSOS3.5 M 3-12	<b>358 394</b>	CFSOA3.5 M 3-12	-
	14.0	5.39			6.4	3.2	4.0	6.8	CFSO3.5 M 3-14	<b>358 347</b>	CFSOS3.5 M 3-14	-	CFSOA3.5 M 3-14	-
	16.0	5.39			6.4	3.2	8.0	6.8	CFSO3.5 M 3-16	<b>358 339</b>	CFSOS3.5 M 3-16	-	CFSOA3.5 M 3-16	-
	18.0	5.39			6.4	3.2	8.0	6.8	CFSO3.5 M 3-18	<b>358 348</b>	CFSOS3.5 M 3-18	-	CFSOA3.5 M 3-18	-
	22.0	5.39			6.4	3.2	11.0	6.8	CFSO3.5 M 3-22	<b>358 349</b>	CFSOS3.5 M 3-22	-	CFSOA3.5 M 3-22	-

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We reserve the right to amend specifications at any time.



Continued

Thread	Hole ø +0.08 -0.00 [mm]	Material thickness  min [mm]	L  +0.05 -0.13 [mm]	A  +0.00 -0.13 [mm]	A/F  nom [mm]	C  ±0.13 [mm]	D  ±0.25 [mm]		Steel		Stainless Steel		Aluminium	
									Description	Part No.	Description	Part No.	Description	Part No.
M 3.5	5.41	1.0	3.0	5.39	6.4	4.0	0	6.8	CFSO M 3.5-3	-	CFSOS M 3.5-3	-	CFSOA M 3.5-3	-
			4.0	5.39	6.4	4.0	0	6.8	CFSO M 3.5-4	-	CFSOS M 3.5-4	-	CFSOA M 3.5-4	-
			6.0	5.39	6.4	4.0	4.0	6.8	CFSO M 3.5-6	-	CFSOS M 3.5-6	-	CFSOA M 3.5-6	-
			8.0	5.39	6.4	4.0	4.0	6.8	CFSO M 3.5-8	<b>358 338</b>	CFSOS M 3.5-8	-	CFSOA M 3.5-8	-
			10.0	5.39	6.4	4.0	4.0	6.8	CFSO M 3.5-10	-	CFSOS M 3.5-10	-	CFSOA M 3.5-10	-
			12.0	5.39	6.4	4.0	8.0	6.8	CFSO M 3.5-12	-	CFSOS M 3.5-12	-	CFSOA M 3.5-12	-
			14.0	5.39	6.4	4.0	8.0	6.8	CFSO M 3.5-14	-	CFSOS M 3.5-14	-	CFSOA M 3.5-14	-
			16.0	5.39	6.4	4.0	8.0	6.8	CFSO M 3.5-16	-	CFSOS M 3.5-16	-	CFSOA M 3.5-16	-
			18.0	5.39	6.4	4.0	8.0	6.8	CFSO M 3.5-18	-	CFSOS M 3.5-18	-	CFSOA M 3.5-18	-
			20.0	5.39	6.4	4.0	8.0	6.8	CFSO M 3.5-20	-	CFSOS M 3.5-20	-	CFSOA M 3.5-20	-
			22.0	5.39	6.4	4.0	11.0	6.8	CFSO M 3.5-22	-	CFSOS M 3.5-22	-	CFSOA M 3.5-22	-
			25.0	5.39	6.4	4.0	11.0	6.8	CFSO M 3.5-25	-	CFSOS M 3.5-25	-	CFSOA M 3.5-25	-
			M 4	7.14	1.27	3.0	7.12	7.9	4.8	0	8.0	CFSO M 4-3	<b>358 359</b>	CFSOS M 4-3
4.0	7.12	7.9				4.8	0	8.0	CFSO M 4-4	<b>358 351</b>	CFSOS M 4-4	<b>358 373</b>	CFSOA M 4-4	-
4.5	7.12	7.9				4.8	0	8.0	CFSO M 4-4.5	<b>358 366</b>	CFSOS M 4-4.5	-	CFSOA M 4-4.5	-
6.0	7.12	7.9				4.8	0	8.0	CFSO M 4-6	<b>358 352</b>	CFSOS M 4-6	<b>358 384</b>	CFSOA M 4-6	<b>358 395</b>
7.0	7.12	7.9				4.8	0	8.0	CFSO M 4-7	<b>358 356</b>	CFSOS M 4-7	-	CFSOA M 4-7	-
8.0	7.12	7.9				4.8	0	8.0	CFSO M 4-8	<b>358 353</b>	CFSOS M 4-8	<b>358 389</b>	CFSOA M 4-8	-
10.0	7.12	7.9				4.8	4.0	8.0	CFSO M 4-10	<b>358 354</b>	CFSOS M 4-10	<b>358 374</b>	CFSOA M 4-10	-
12.0	7.12	7.9				4.8	4.0	8.0	CFSO M 4-12	<b>358 355</b>	CFSOS M 4-12	-	CFSOA M 4-12	-
14.0	7.12	7.9				4.8	4.0	8.0	CFSO M 4-14	-	CFSOS M 4-14	-	CFSOA M 4-14	-
16.0	7.12	7.9				4.8	8.0	8.0	CFSO M 4-16	<b>358 361</b>	CFSOS M 4-16	-	CFSOA M 4-16	-
18.0	7.12	7.9				4.8	8.0	8.0	CFSO M 4-18	<b>358 358</b>	CFSOS M 4-18	-	CFSOA M 4-18	-
20.0	7.12	7.9				4.8	8.0	8.0	CFSO M 4-20	<b>358 357</b>	CFSOS M 4-20	-	CFSOA M 4-20	-
22.0	7.12	7.9				4.8	11.0	8.0	CFSO M 4-22	<b>358 360</b>	CFSOS M 4-22	-	CFSOA M 4-22	-
25.0	7.12	7.9	4.8	11.0	8.0	CFSO M 4-25	-	CFSOS M 4-25	-	CFSOA M 4-25	-			
M 5	7.14	1.27	3.0	7.12	7.9	5.35	0	8.0	CFSO M 5-3	-	CFSOS M 5-3	-	CFSOA M 5-3	-
			4.0	7.12	7.9	5.35	0	8.0	CFSO M 5-4	<b>358 362</b>	CFSOS M 5-4	<b>358 378</b>	CFSOA M 5-4	-
			6.0	7.12	7.9	5.35	0	8.0	CFSO M 5-6	<b>358 363</b>	CFSOS M 5-6	<b>358 388</b>	CFSOA M 5-6	-
			8.0	7.12	7.9	5.35	0	8.0	CFSO M 5-8	<b>358 364</b>	CFSOS M 5-8	<b>358 387</b>	CFSOA M 5-8	-
			10.0	7.12	7.9	5.35	4.0	8.0	CFSO M 5-10	<b>358 365</b>	CFSOS M 5-10	-	CFSOA M 5-10	-
			12.0	7.12	7.9	5.35	4.0	8.0	CFSO M 5-12	<b>358 371</b>	CFSOS M 5-12	-	CFSOA M 5-12	-
			14.0	7.12	7.9	5.35	4.0	8.0	CFSO M 5-14	<b>358 367</b>	CFSOS M 5-14	-	CFSOA M 5-14	-
			16.0	7.12	7.9	5.35	8.0	8.0	CFSO M 5-16	<b>358 368</b>	CFSOS M 5-16	-	CFSOA M 5-16	-
			18.0	7.12	7.9	5.35	8.0	8.0	CFSO M 5-18	-	CFSOS M 5-18	-	CFSOA M 5-18	-
			20.0	7.12	7.9	5.35	8.0	8.0	CFSO M 5-20	-	CFSOS M 5-20	<b>358 386</b>	CFSOA M 5-20	-
			22.0	7.12	7.9	5.35	11.0	8.0	CFSO M 5-22	-	CFSOS M 5-22	-	CFSOA M 5-22	-
			25.0	7.12	7.9	5.35	11.0	8.0	CFSO M 5-25	<b>358 370</b>	CFSOS M 5-25	-	CFSOA M 5-25	-

Die for drill hole diam. = Dimension "A" +0.10/+0.18 mm.

Technical data see page 37.

We reserve the right to amend specifications at any time.

# Captive® Self-clinching fasteners

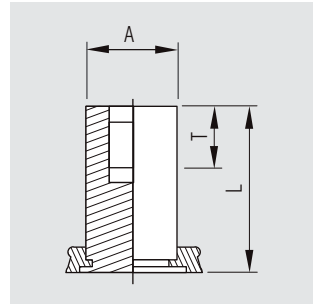
Self-clinching stand-offs with thread for metals  
closed style


## Material

■ Steel zinc (CFBSO series)  
suitable for metal hardnesses up to HRB 80

■ Stainless Steel passivate (CFBSOS series) 

■ Aluminium (CFBSOA series)  
suitable for metal hardnesses up to HRB 50



Thread	Hole ø +0.08 -0.00 [mm]	Material thickness min [mm]	L +0.05 -0.13 [mm]	A +0.00 -0.13 [mm]	A/F nom [mm]	T <sup>1</sup> min [mm]		■ Steel		■ Stainless Steel		■ Aluminium				
								Description	Part No.	Description	Part No.	Description	Part No.			
M 3	4.22	1.0	6.0	4.2	4.8	3.2	6.0	CFBSO M 3-6	<b>358 402</b>	CFBSOS M 3-6	<b>358 396</b>	CFBSOA M 3-6	-			
			8.0	4.2	4.8	4.0	6.0	CFBSO M 3-8	<b>358 403</b>	CFBSOS M 3-8	<b>358 433</b>	CFBSOA M 3-8	-			
			10.0	4.2	4.8	4.0	6.0	CFBSO M 3-10	<b>358 404</b>	CFBSOS M 3-10	<b>358 434</b>	CFBSOA M 3-10	-			
			12.0	4.2	4.8	5.0	6.0	CFBSO M 3-12	<b>358 405</b>	CFBSOS M 3-12	<b>358 435</b>	CFBSOA M 3-12	-			
			14.0	4.2	4.8	6.5	6.0	CFBSO M 3-14	<b>358 406</b>	CFBSOS M 3-14	<b>358 436</b>	CFBSOA M 3-14	-			
			16.0	4.2	4.8	6.5	6.0	CFBSO M 3-16	<b>358 407</b>	CFBSOS M 3-16	<b>358 432</b>	CFBSOA M 3-16	-			
			18.0	4.2	4.8	9.5	6.0	CFBSO M 3-18	<b>358 408</b>	CFBSOS M 3-18	<b>358 438</b>	CFBSOA M 3-18	<b>358 453</b>			
			20.0	4.2	4.8	9.5	6.0	CFBSO M 3-20	<b>358 409</b>	CFBSOS M 3-20	-	CFBSOA M 3-20	-			
			22.0	4.2	4.8	9.5	6.0	CFBSO M 3-22	<b>358 410</b>	CFBSOS M 3-22	-	CFBSOA M 3-22	-			
			25.0	4.2	4.8	9.5	6.0	CFBSO M 3-25	<b>358 421</b>	CFBSOS M 3-25	<b>358 437</b>	CFBSOA M 3-25	-			
			5.41	1.0	6.0	5.39	6.4	3.2	6.8	CFBSO3.5 M 3-6	<b>358 412</b>	CFBSOS3.5 M 3-6	<b>358 457</b>	CFBSOA3.5 M 3-6	-	
					8.0	5.39	6.4	4.0	6.8	CFBSO3.5 M 3-8	<b>358 413</b>	CFBSOS3.5 M 3-8	<b>358 439</b>	CFBSOA3.5 M 3-8	-	
					9.0	5.39	6.4	4.0	6.8	CFBSO3.5 M 3-9	<b>358 401</b>	CFBSOS3.5 M 3-9	-	CFBSOA3.5 M 3-9	-	
					10.0	5.39	6.4	4.0	6.8	CFBSO3.5 M 3-10	<b>358 414</b>	CFBSOS3.5 M 3-10	<b>358 440</b>	CFBSOA3.5 M 3-10	-	
					11.0	5.39	6.4	4.0	6.8	CFBSO3.5 M 3-11	<b>358 411</b>	CFBSOS3.5 M 3-11	-	CFBSOA3.5 M 3-11	-	
	12.0	5.39			6.4	5.0	6.8	CFBSO3.5 M 3-12	<b>358 415</b>	CFBSOS3.5 M 3-12	<b>358 441</b>	CFBSOA3.5 M 3-12	-			
	14.0	5.39			6.4	6.5	6.8	CFBSO3.5 M 3-14	<b>358 416</b>	CFBSOS3.5 M 3-14	<b>358 442</b>	CFBSOA3.5 M 3-14	-			
	16.0	5.39			6.4	6.5	6.8	CFBSO3.5 M 3-16	<b>358 417</b>	CFBSOS3.5 M 3-16	<b>358 443</b>	CFBSOA3.5 M 3-16	-			
	18.0	5.39			6.4	9.5	6.8	CFBSO3.5 M 3-18	<b>358 418</b>	CFBSOS3.5 M 3-18	<b>358 458</b>	CFBSOA3.5 M 3-18	-			
	20.0	5.39			6.4	9.5	6.8	CFBSO3.5 M 3-20	<b>358 419</b>	CFBSOS3.5 M 3-20	-	CFBSOA3.5 M 3-20	-			
	22.0	5.39			6.4	9.5	6.8	CFBSO3.5 M 3-22	<b>358 420</b>	CFBSOS3.5 M 3-22	-	CFBSOA3.5 M 3-22	<b>358 455</b>			
	25.0	5.39			6.4	9.5	6.8	CFBSO3.5 M 3-25	<b>358 448</b>	CFBSOS3.5 M 3-25	-	CFBSOA3.5 M 3-25	-			
	30.0	5.39			6.4	9.5	6.8	CFBSO3.5 M 3-30	<b>358 449</b>	CFBSOS3.5 M 3-30	-	CFBSOA3.5 M 3-30	-			
	M 3.5	5.41			1.0	6.0	5.39	6.4	3.2	6.8	CFBSO M 3.5-6	-	CFBSOS M 3.5-6	-	CFBSOA M 3.5-6	-
						8.0	5.39	6.4	4.0	6.8	CFBSO M 3.5-8	-	CFBSOS M 3.5-8	-	CFBSOA M 3.5-8	-
			10.0	5.39		6.4	4.0	6.8	CFBSO M 3.5-10	-	CFBSOS M 3.5-10	-	CFBSOA M 3.5-10	-		
			12.0	5.39		6.4	5.0	6.8	CFBSO M 3.5-12	-	CFBSOS M 3.5-12	-	CFBSOA M 3.5-12	-		
			14.0	5.39		6.4	6.5	6.8	CFBSO M 3.5-14	-	CFBSOS M 3.5-14	-	CFBSOA M 3.5-14	-		
			16.0	5.39		6.4	6.5	6.8	CFBSO M 3.5-16	-	CFBSOS M 3.5-16	-	CFBSOA M 3.5-16	-		
			18.0	5.39		6.4	9.5	6.8	CFBSO M 3.5-18	-	CFBSOS M 3.5-18	-	CFBSOA M 3.5-18	-		
20.0			5.39	6.4		9.5	6.8	CFBSO M 3.5-20	-	CFBSOS M 3.5-20	-	CFBSOA M 3.5-20	-			
22.0			5.39	6.4		9.5	6.8	CFBSO M 3.5-22	-	CFBSOS M 3.5-22	-	CFBSOA M 3.5-22	-			
25.0			5.39	6.4		9.5	6.8	CFBSO M 3.5-25	-	CFBSOS M 3.5-25	-	CFBSOA M 3.5-25	-			

<sup>1</sup> T = Thread length

Continued on next page

We reserve the right to amend specifications at any time.

Continued

Thread	Hole ø +0.08 -0.00 [mm]	Material thickness  min [mm]	L	A	A/F	T <sup>1</sup>		■ Steel		■ Stainless Steel		■ Aluminium	
			+0.05 -0.13 [mm]	+0.00 -0.13 [mm]	nom [mm]	min [mm]		min [mm]	Description	Part No.	Description	Part No.	Description
M 4	7.14	1.27	6.0	7.12	7.9	3.2	8.0	CFBSO M 4-6	<b>358 451</b>	CFBSOS M 4-6	–	CFBSOA M 4-6	–
			8.0	7.12	7.9	4.0	8.0	CFBSO M 4-8	<b>358 423</b>	CFBSOS M 4-8	<b>358 473</b>	CFBSOA M 4-8	–
			10.0	7.12	7.9	4.0	8.0	CFBSO M 4-10	<b>358 424</b>	CFBSOS M 4-10	<b>358 474</b>	CFBSOA M 4-10	–
			11.5	7.12	7.9	4.0	8.0	CFBSO M 4-11.5	<b>358 422</b>	CFBSOS M 4-11.5	–	CFBSOA M 4-11.5	–
			12.0	7.12	7.9	5.0	8.0	CFBSO M 4-12	<b>358 425</b>	CFBSOS M 4-12	<b>358 475</b>	CFBSOA M 4-12	–
			14.0	7.12	7.9	6.5	8.0	CFBSO M 4-14	<b>358 426</b>	CFBSOS M 4-14	<b>358 476</b>	CFBSOA M 4-14	<b>358 456</b>
			16.0	7.12	7.9	6.5	8.0	CFBSO M 4-16	<b>358 427</b>	CFBSOS M 4-16	<b>358 477</b>	CFBSOA M 4-16	–
			18.0	7.12	7.9	9.5	8.0	CFBSO M 4-18	<b>358 428</b>	CFBSOS M 4-18	<b>358 478</b>	CFBSOA M 4-18	–
			20.0	7.12	7.9	9.5	8.0	CFBSO M 4-20	<b>358 429</b>	CFBSOS M 4-20	–	CFBSOA M 4-20	–
			22.0	7.12	7.9	9.5	8.0	CFBSO M 4-22	<b>358 430</b>	CFBSOS M 4-22	<b>358 454</b>	CFBSOA M 4-22	–
			25.0	7.12	7.9	9.5	8.0	CFBSO M 4-25	<b>358 431</b>	CFBSOS M 4-25	<b>358 481</b>	CFBSOA M 4-25	–
M 5	7.14	1.27	6.0	7.12	7.9	3.2	8.0	CFBSO M 5-6	–	CFBSOS M 5-6	–	CFBSOA M 5-6	–
			8.0	7.12	7.9	4.0	8.0	CFBSO M 5-8	–	CFBSOS M 5-8	–	CFBSOA M 5-8	–
			10.0	7.12	7.9	4.0	8.0	CFBSO M 5-10	<b>358 444</b>	CFBSOS M 5-10	–	CFBSOA M 5-10	–
			12.0	7.12	7.9	5.0	8.0	CFBSO M 5-12	<b>358 445</b>	CFBSOS M 5-12	<b>358 484</b>	CFBSOA M 5-12	–
			14.0	7.12	7.9	6.5	8.0	CFBSO M 5-14	–	CFBSOS M 5-14	–	CFBSOA M 5-14	–
			16.0	7.12	7.9	6.5	8.0	CFBSO M 5-16	<b>358 447</b>	CFBSOS M 5-16	<b>358 486</b>	CFBSOA M 5-16	–
			18.0	7.12	7.9	9.5	8.0	CFBSO M 5-18	<b>358 446</b>	CFBSOS M 5-18	<b>358 487</b>	CFBSOA M 5-18	–
			20.0	7.12	7.9	9.5	8.0	CFBSO M 5-20	–	CFBSOS M 5-20	–	CFBSOA M 5-20	–
			22.0	7.12	7.9	9.5	8.0	CFBSO M 5-22	<b>358 450</b>	CFBSOS M 5-22	–	CFBSOA M 5-22	–
25.0	7.12	7.9	9.5	8.0	CFBSO M 5-25	<b>358 452</b>	CFBSOS M 5-25	–	CFBSOA M 5-25	–			

<sup>1</sup> Thread length

Die for drill hole diam. = Dimension "A" +0.10/+0.18 mm.

Technical data see page 37.

We reserve the right to amend specifications at any time.

# Captive® Self-clinching fasteners

## Unthreaded thru-hole stand-offs for metals

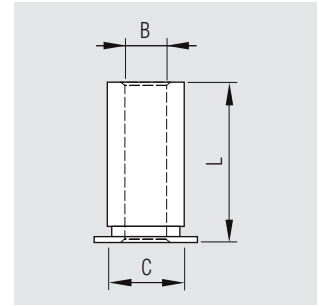
### Material

**Steel zinc (CFSO series)**  
suitable for metal hardnesses up to HRB 80

**Stainless Steel passivate (CFSOS series)**  
suitable for metal hardnesses up to HRB 70



**Aluminium (CFSOA series)**  
suitable for metal hardnesses up to HRB 50




Bore ø B [mm]	Hole ø [mm]	Material thickness [mm]	L [mm]	C [mm]	A/F [mm]		Steel		Stainless Steel		Aluminium	
							Description	Part No.	Description	Part No.	Description	Part No.
3.1	4.22	1.02	3.0	4.19	4.8	6.0	CFSO 43.1-3	-	CFSOS 43.1-3	-	CFSOA 43.1-3	-
			4.0	4.19	4.8	6.0	CFSO 43.1-4	<b>358 947</b>	CFSOS 43.1-4	-	CFSOA 43.1-4	-
			6.0	4.19	4.8	6.0	CFSO 43.1-6	<b>358 957</b>	CFSOS 43.1-6	-	CFSOA 43.1-6	-
			8.0	4.19	4.8	6.0	CFSO 43.1-8	-	CFSOS 43.1-8	-	CFSOA 43.1-8	-
			10.0	4.19	4.8	6.0	CFSO 43.1-10	-	CFSOS 43.1-10	-	CFSOA 43.1-10	-
			12.0	4.19	4.8	6.0	CFSO 43.1-12	-	CFSOS 43.1-12	-	CFSOA 43.1-12	-
			14.0	4.19	4.8	6.0	CFSO 43.1-14	-	CFSOS 43.1-14	-	CFSOA 43.1-14	-
			16.0	4.19	4.8	6.0	CFSO 43.1-16	-	CFSOS 43.1-16	-	CFSOA 43.1-16	-
			18.0	4.19	4.8	6.0	CFSO 43.1-18	-	CFSOS 43.1-18	-	CFSOA 43.1-18	-
			20.0	4.19	4.8	6.0	CFSO 43.1-20	-	CFSOS 43.1-20	-	CFSOA 43.1-20	-
	5.41	1.02	3.0	5.38	6.4	6.8	CFSO 63.1-3	-	CFSOS 63.1-3	-	CFSOA 63.1-3	-
			4.0	5.38	6.4	6.8	CFSO 63.1-4	-	CFSOS 63.1-4	-	CFSOA 63.1-4	-
			6.0	5.38	6.4	6.8	CFSO 63.1-6	<b>358 963</b>	CFSOS 63.1-6	-	CFSOA 63.1-6	-
			8.0	5.38	6.4	6.8	CFSO 63.1-8	-	CFSOS 63.1-8	-	CFSOA 63.1-8	-
			10.0	5.38	6.4	6.8	CFSO 63.1-10	-	CFSOS 63.1-10	-	CFSOA 63.1-10	-
			12.0	5.38	6.4	6.8	CFSO 63.1-12	-	CFSOS 63.1-12	-	CFSOA 63.1-12	-
			14.0	5.38	6.4	6.8	CFSO 63.1-14	-	CFSOS 63.1-14	-	CFSOA 63.1-14	-
			16.0	5.38	6.4	6.8	CFSO 63.1-16	-	CFSOS 63.1-16	-	CFSOA 63.1-16	-
			18.0	5.38	6.4	6.8	CFSO 63.1-18	-	CFSOS 63.1-18	-	CFSOA 63.1-18	-
			20.0	5.38	6.4	6.8	CFSO 63.1-20	-	CFSOS 63.1-20	-	CFSOA 63.1-20	-
3.6	5.41	1.02	3.0	5.38	6.4	6.8	CFSO 63.6-3	-	CFSOS 63.6-3	-	CFSOA 63.6-3	-
			4.0	5.38	6.4	6.8	CFSO 63.6-4	-	CFSOS 63.6-4	-	CFSOA 63.6-4	-
			6.0	5.38	6.4	6.8	CFSO 63.6-6	-	CFSOS 63.6-6	-	CFSOA 63.6-6	-
			8.0	5.38	6.4	6.8	CFSO 63.6-8	-	CFSOS 63.6-8	-	CFSOA 63.6-8	-
			10.0	5.38	6.4	6.8	CFSO 63.6-10	<b>358 967</b>	CFSOS 63.6-10	-	CFSOA 63.6-10	-
			12.0	5.38	6.4	6.8	CFSO 63.6-12	<b>358 966</b>	CFSOS 63.6-12	-	CFSOA 63.6-12	-
			14.0	5.38	6.4	6.8	CFSO 63.6-14	<b>358 960</b>	CFSOS 63.6-14	-	CFSOA 63.6-14	-
			16.0	5.38	6.4	6.8	CFSO 63.6-16	-	CFSOS 63.6-16	-	CFSOA 63.6-16	-
			18.0	5.38	6.4	6.8	CFSO 63.6-18	-	CFSOS 63.6-18	-	CFSOA 63.6-18	-
			20.0	5.38	6.4	6.8	CFSO 63.6-20	-	CFSOS 63.6-20	-	CFSOA 63.6-20	-

Continued on next page

Die for drill hole diam. = Dimension "A" +0.10/+0.18 mm.

We reserve the right to amend specifications at any time.

Continued

Bore ø B	Hole ø	Material thickness	L	C	A/F		Steel		Stainless Steel		Aluminium	
							Description	Part No.	Description	Part No.	Description	Part No.
3.6	7.14	1.27	3.0	7.11	7.9	8.0	CFSO 83.6-3	–	CFSOS 83.6-3	–	CFSOA 83.6-3	–
			4.0	7.11	7.9	8.0	CFSO 83.6-4	–	CFSOS 83.6-4	–	CFSOA 83.6-4	–
			6.0	7.11	7.9	8.0	CFSO 83.6-6	–	CFSOS 83.6-6	–	CFSOA 83.6-6	–
			8.0	7.11	7.9	8.0	CFSO 83.6-8	–	CFSOS 83.6-8	–	CFSOA 83.6-8	–
			10.0	7.11	7.9	8.0	CFSO 83.6-10	–	CFSOS 83.6-10	–	CFSOA 83.6-10	–
			12.0	7.11	7.9	8.0	CFSO 83.6-12	–	CFSOS 83.6-12	–	CFSOA 83.6-12	–
			14.0	7.11	7.9	8.0	CFSO 83.6-14	–	CFSOS 83.6-14	–	CFSOA 83.6-14	–
			16.0	7.11	7.9	8.0	CFSO 83.6-16	–	CFSOS 83.6-16	–	CFSOA 83.6-16	–
			18.0	7.11	7.9	8.0	CFSO 83.6-18	–	CFSOS 83.6-18	–	CFSOA 83.6-18	–
			20.0	7.11	7.9	8.0	CFSO 83.6-20	–	CFSOS 83.6-20	–	CFSOA 83.6-20	–
4.1	7.14	1.27	3.0	7.11	7.9	8.0	CFSO 84.1-3	–	CFSOS 84.1-3	–	CFSOA 84.1-3	–
			4.0	7.11	7.9	8.0	CFSO 84.1-4	–	CFSOS 84.1-4	–	CFSOA 84.1-4	–
			6.0	7.11	7.9	8.0	CFSO 84.1-6	–	CFSOS 84.1-6	–	CFSOA 84.1-6	–
			8.0	7.11	7.9	8.0	CFSO 84.1-8	<b>358 672</b>	CFSOS 84.1-8	–	CFSOA 84.1-8	–
			10.0	7.11	7.9	8.0	CFSO 84.1-10	–	CFSOS 84.1-10	–	CFSOA 84.1-10	–
			12.0	7.11	7.9	8.0	CFSO 84.1-12	–	CFSOS 84.1-12	–	CFSOA 84.1-12	–
			14.0	7.11	7.9	8.0	CFSO 84.1-14	–	CFSOS 84.1-14	–	CFSOA 84.1-14	–
			16.0	7.11	7.9	8.0	CFSO 84.1-16	–	CFSOS 84.1-16	–	CFSOA 84.1-16	–
5.1	7.14	1.27	3.0	7.11	7.9	8.0	CFSO 85.1-3	–	CFSOS 85.1-3	–	CFSOA 85.1-3	–
			4	7.11	7.9	8.0	CFSO 85.1-4	<b>358 671</b>	CFSOS 85.1-4	–	CFSOA 85.1-4	–
			6	7.11	7.9	8.0	CFSO 85.1-6	–	CFSOS 85.1-6	–	CFSOA 85.1-6	–
			8	7.11	7.9	8.0	CFSO 85.1-8	–	CFSOS 85.1-8	–	CFSOA 85.1-8	–
			10	7.11	7.9	8.0	CFSO 85.1-10	–	CFSOS 85.1-10	–	CFSOA 85.1-10	–
			12	7.11	7.9	8.0	CFSO 85.1-12	–	CFSOS 85.1-12	–	CFSOA 85.1-12	–
			14	7.11	7.9	8.0	CFSO 85.1-14	–	CFSOS 85.1-14	–	CFSOA 85.1-14	–
			16	7.11	7.9	8.0	CFSO 85.1-16	–	CFSOS 85.1-16	–	CFSOA 85.1-16	–
			18	7.11	7.9	8.0	CFSO 85.1-18	<b>358 678</b>	CFSOS 85.1-18	–	CFSOA 85.1-18	–
			20	7.11	7.9	8.0	CFSO 85.1-20	–	CFSOS 85.1-20	–	CFSOA 85.1-20	–

Die for drill hole diam. = Dimension "A" +0.10/+0.18 mm.

Technical data

Thread / Hole ø B	Fastener material	Sheet material Aluminium (H 34) 1.5 mm				Sheet material Steel 1.5 mm			
		Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]	Push-through force [N]	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]	Push-through force [N]
M 3 3.1	Steel	4.7	700	1.20	1230	9.6	990	2.10	1450
	Stainless Steel	4.7	700	1.20	985	9.6	990	2.10	1150
	Aluminium	4.7	700	1.20	740	–	–	–	–
M 3 / M 3.5 3.1 / 3.6	Steel	7.4	1310	2.79	1230	14.5	1850	3.90	1450
	Stainless Steel	7.4	1310	2.79	1100	14.5	1850	3.90	1150
	Aluminium	7.4	1310	2.79	810	–	–	–	–
M 4 / M 5 3.1 / 4.1 / 5.1	Steel	10.5	1750	5.01	2550	17.6	2460	8.45	3100
	Stainless Steel	10.5	1750	5.01	2020	17.6	2460	8.45	2450
	Aluminium	10.5	1750	5.01	1525	–	–	–	–

We reserve the right to amend specifications at any time.

Guidelines - the precise values must be determined using the original component.

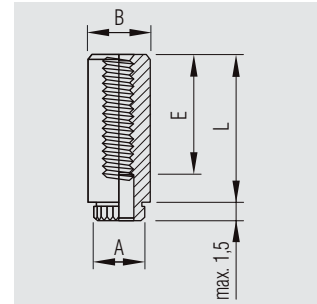
# Captive® Self-clinching fasteners

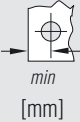
Broaching type stand-offs for plastics with thread

## Material

■ Steel (CKFE series) electrolytically tin plated suitable for metal hardnesses up to HRB 60

■ Stainless Steel passivate (CKFSE series) suitable for metal hardnesses up to HRB 70



Thread	Hole $\varnothing$ +0.08 -0.00 [mm]	L ±0.13 [mm]	A ±0.08 [mm]	B ±0.13 [mm]	E ±0.4 [mm]	 min [mm]	■ Steel		■ Stainless Steel	
							Description	Part No.	Description	Part No.
M 3	4.2	3.0	4.68	5.56	3.0	4.4	CKFE M 3-3	<b>358 655</b>	CKFSE M 3-3	-
		4.0	4.68	5.56	4.0	4.4	CKFE M 3-4	-	CKFSE M 3-4	-
		6.0	4.68	5.56	6.0	4.4	CKFE M 3-6	<b>358 657</b>	CKFSE M 3-6	-
		8.0	4.68	5.56	8.0	4.4	CKFE M 3-8	<b>358 658</b>	CKFSE M 3-8	-
		10.0	4.68	5.56	10.0	4.4	CKFE M 3-10	-	CKFSE M 3-10	-
		12.0	4.68	5.56	9.5 <sup>1</sup>	4.4	CKFE M 3-12	-	CKFSE M 3-12	-
		14.0	4.68	5.56	9.5 <sup>1</sup>	4.4	CKFE M 3-14	-	CKFSE M 3-14	-
		16.0	4.68	5.56	9.5 <sup>1</sup>	4.4	CKFE M 3-16	<b>358 656</b>	CKFSE M 3-16	-

## Technical data

Thread	Fibre glass 1.5 mm		
	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
M 3	2.22	295	1.35

For guidance only - the precise values must be determined using the original component.

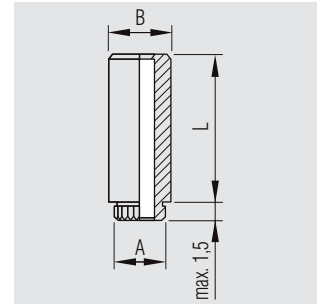
We reserve the right to amend specifications at any time.

Broaching type stand-offs for plastics without thread

**Material**

Steel (CKFE series) electrolytically tin plated suitable for metal hardnesses up to HRB 60

Stainless Steel (CKFSE series) suitable for metal hardnesses up to HRB 70



Internal $\varnothing$ +0.10 -0.08 [mm]	Hole $\varnothing$ +0.08 -0.00 [mm]	L ±0.13 [mm]	A ±0.08 [mm]	B ±0.13 [mm]	min [mm]	Steel		Stainless Steel	
						Description	Part No.	Description	Part No.
3.6	5.4	3.0	5.87	7.14	5.5	CKFE 3.6-3	-	CKFSE 3.6-3	-
		4.0	5.87	7.14	5.5	CKFE 3.6-4	<b>358 964</b>	CKFSE 3.6-4	-
		6.0	5.87	7.14	5.5	CKFE 3.6-6	<b>358 969</b>	CKFSE 3.6-6	-
		8.0	5.87	7.14	5.5	CKFE 3.6-8	<b>358 968</b>	CKFSE 3.6-8	-
		10.0	5.87	7.14	5.5	CKFE 3.6-10	-	CKFSE 3.6-10	-
		12.0	5.87	7.14	5.5	CKFE 3.6-12	-	CKFSE 3.6-12	-
		14.0	5.87	7.14	5.5	CKFE 3.6-14	<b>358 987</b>	CKFSE 3.6-14	-
4.2	6.4	16.0	5.87	7.14	5.5	CKFE 3.6-16	-	CKFSE 3.6-16	-
		3.0	6.86	8.74	7.1	CKFE 4.2-3	-	CKFSE 4.2-3	-
		4.0	6.86	8.74	7.1	CKFE 4.2-4	-	CKFSE 4.2-4	-
		6.0	6.86	8.74	7.1	CKFE 4.2-6	-	CKFSE 4.2-6	-
		8.0	6.86	8.74	7.1	CKFE 4.2-8	-	CKFSE 4.2-8	-
		10.0	6.86	8.74	7.1	CKFE 4.2-10	-	CKFSE 4.2-10	-
		12.0	6.86	8.74	7.1	CKFE 4.2-12	-	CKFSE 4.2-12	<b>358 660</b>
14.0	6.86	8.74	7.1	CKFE 4.2-14	-	CKFSE 4.2-14	-		
		16.0	6.86	8.74	7.1	CKFE 4.2-16	-	CKFSE 4.2-16	-

**Technical data**

Internal- $\varnothing$ [mm]	Fibre glass 1.5 mm		
	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
3.6	2.22	295	1.35
4.2	2.22	295	1.35

For guidance only - the precise values must be determined using the original component.

We reserve the right to amend specifications at any time.

# Captive® Self-clinching fasteners

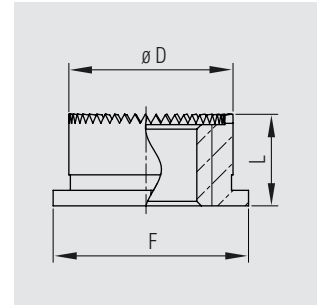
Self-clinching stand-offs  
for self-earthing electrical contact


## Material

■ Stainless Steel passivate (CFSOSG series)  
suitable for metal hardnesses up to HRB 70



■ Aluminium (CFSOAG series)  
suitable for metal hardnesses up to HRB 50



Thread	Hole ø +0.08 -0.00 [mm]	Material thickness min [mm]	L +0.25 -0.00 [mm]	D +0.00 -0.13 [mm]	A/F nom [mm]	 min [mm]	■ Stainless Steel		■ Aluminium	
							Description	Part No.	Description	Part No.
M 3	5.41	1.0	3.0	5.38	6.4	6.86	CFSOSG 3.5 M 3-3	<b>358 680</b>	CFSOAG 3.5 M 3-3	-
			4.0	5.38	6.4	6.86	CFSOSG 3.5 M 3-4	-	CFSOAG 3.5 M 3-4	-
			6.0	5.38	6.4	6.86	CFSOSG 3.5 M 3-6	<b>358 682</b>	CFSOAG 3.5 M 3-6	-
			8.0	5.38	6.4	6.86	CFSOSG 3.5 M 3-8	<b>358 683</b>	CFSOAG 3.5 M 3-8	-
			10.0	5.38	6.4	6.86	CFSOSG 3.5 M 3-10	<b>358 684</b>	CFSOAG 3.5 M 3-10	-
			12.0	5.38	6.4	6.86	CFSOSG 3.5 M 3-12	-	CFSOAG 3.5 M 3-12	-
			14.0	5.38	6.4	6.86	CFSOSG 3.5 M 3-14	-	CFSOAG 3.5 M 3-14	-

## Technical data

Thread	Test material	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
M 3	Aluminium 1.0 (H34)	8.0	1290	2.7

For guidance only - the precise values must be determined using the original component.

We reserve the right to amend specifications at any time.

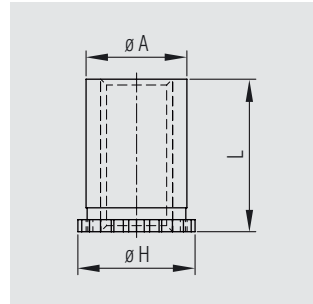


Self-clinching stand-offs (open)  
for D-sub connectors

**Material**

■ Steel yellow zinc (CF40 series)  
suitable for metal hardnesses up to HRB 80

■ Stainless Steel passivate (CF40S series)  
suitable for metal hardnesses up to HRB 70



Thread	Hole $\varnothing$ $+0.08 \ -0.00$ [mm]	Material thickness <i>min</i> [mm]	L $+0.05$ $-0.13$ [mm]	A <i>max</i> [mm]	H <i>nom</i> [mm]	 <i>min</i> [mm]	■ Steel		■ Stainless Steel	
							Description	Part No.	Description	Part No.
M 3	4.22	0.94 - 6.35	6.35	4.20	4.92	3.2	CF40 M 3-6.35	—	CF40S M 3-6.35	—
			7.0	4.20	4.92	3.2	CF40 M 3-7	—	CF40S M 3-7	—

**Technical data**

Thread	Fastener	Test material	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
M 3	Steel	Aluminium 1.0 (H34)	4.5	223	1.1
M 3	Steel	Steel 1.0	5.8	334	1.1
M 3	Stainless Steel	Aluminium 1.0 (H34)	4.5	223	1.1
M 3	Stainless Steel	Steel 1.0	5.8	334	1.1

For guidance only - the precise values must be determined using the original component.

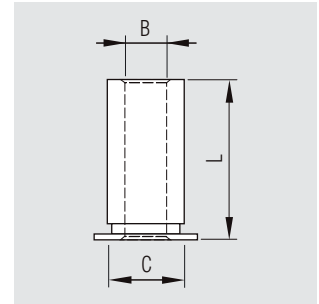
We reserve the right to amend specifications at any time.


# Captive® Self-clinching fasteners

Self-clinching stand-offs for metals  
with through holes

## Material

Stainless Steel passivate (CF4-SO series)  
suitable for metal hardnesses up to HRB 88

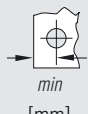


Thread	Hole $\varnothing$ $+0.08 -0.00$ [mm]	Material thickness <i>min</i> [mm]	L $+0.05 -0.13$ [mm]	A $+0.00 -0.13$ [mm]	H <i>nom</i> [mm]	C $\pm 0.13$ [mm]	D $\pm 0.25$ [mm]	 <i>min</i> [mm]	Stainless Steel	
									Description	Part No.
<b>M 3</b>	4.22	1.02	3.0	4.2	4.8	3.2	0	6.0	CF4-SO M 3-3	-
			4.0	4.2	4.8	3.2	0	6.0	CF4-SO M 3-4	<b>358 946</b>
			6.0	4.2	4.8	3.2	0	6.0	CF4-SO M 3-6	<b>358 717</b>
			8.0	4.2	4.8	3.2	0	6.0	CF4-SO M 3-8	-
			10.0	4.2	4.8	3.2	4.0	6.0	CF4-SO M 3-10	-
			12.0	4.2	4.8	3.2	4.0	6.0	CF4-SO M 3-12	-
			14.0	4.2	4.8	3.2	4.0	6.0	CF4-SO M 3-14	-
			16.0	4.2	4.8	3.2	8.0	6.0	CF4-SO M 3-16	-
			18.0	4.2	4.8	3.2	8.0	6.0	CF4-SO M 3-18	-
	5.41	1.02	3.0	5.39	6.4	3.2	0	6.8	CF4-SO3.5 M 3-3	-
			4.0	5.39	6.4	3.2	0	6.8	CF4-SO3.5 M 3-4	-
			6.0	5.39	6.4	3.2	0	6.8	CF4-SO3.5 M 3-6	<b>358 919</b>
			8.0	5.39	6.4	3.2	0	6.8	CF4-SO3.5 M 3-8	<b>358 925</b>
			10.0	5.39	6.4	3.2	4.0	6.8	CF4-SO3.5 M 3-10	-
			12.0	5.39	6.4	3.2	4.0	6.8	CF4-SO3.5 M 3-12	-
			14.0	5.39	6.4	3.2	4.0	6.8	CF4-SO3.5 M 3-14	<b>358 926</b>
			16.0	5.39	6.4	3.2	8.0	6.8	CF4-SO3.5 M 3-16	-
			18.0	5.39	6.4	3.2	8.0	6.8	CF4-SO3.5 M 3-18	-
<b>M 3.5</b>	5.41	1.02	3.0	5.39	6.4	3.9	0	6.8	CF4-SO M 3.5-3	-
			4.0	5.39	6.4	3.9	0	6.8	CF4-SO M 3.5-4	-
			6.0	5.39	6.4	3.9	4.0	6.8	CF4-SO M 3.5-6	-
			8.0	5.39	6.4	3.9	4.0	6.8	CF4-SO M 3.5-8	-
			10.0	5.39	6.4	3.9	4.0	6.8	CF4-SO M 3.5-10	-
			12.0	5.39	6.4	3.9	8.0	6.8	CF4-SO M 3.5-12	-
			14.0	5.39	6.4	3.9	8.0	6.8	CF4-SO M 3.5-14	-
			16.0	5.39	6.4	3.9	8.0	6.8	CF4-SO M 3.5-16	-
			18.0	5.39	6.4	3.9	8.0	6.8	CF4-SO M 3.5-18	-
			20.0	5.39	6.4	3.9	8.0	6.8	CF4-SO M 3.5-20	-
			22.0	5.39	6.4	3.9	11.0	6.8	CF4-SO M 3.5-22	-
			25.0	5.39	6.4	3.9	11.0	6.8	CF4-SO M 3.5-25	-

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We reserve the right to amend specifications at any time.

Continued

Thread	Hole $\varnothing$ $+0.08 -0.00$ [mm]	Material thickness <i>min</i> [mm]	L	A	H	C	D	 <i>min</i> [mm]	■ Stainless Steel	
			$+0.05$ $-0.13$ [mm]	$+0.00$ $-0.13$ [mm]	<i>nom</i> [mm]	$\pm 0.13$ [mm]	$\pm 0.25$ [mm]		Description	Part No.
<b>M 4</b>	7.14	1.27	3.0	7.12	7.9	4.8	0	8.0	CF4-SO M 4-3	-
			4.0	7.12	7.9	4.8	0	8.0	CF4-SO M 4-4	-
			6.0	7.12	7.9	4.8	0	8.0	CF4-SO M 4-6	-
			8.0	7.12	7.9	4.8	0	8.0	CF4-SO M 4-8	-
			10.0	7.12	7.9	4.8	4.0	8.0	CF4-SO M 4-10	-
			12.0	7.12	7.9	4.8	4.0	8.0	CF4-SO M 4-12	-
			14.0	7.12	7.9	4.8	4.0	8.0	CF4-SO M 4-14	-
			16.0	7.12	7.9	4.8	8.0	8.0	CF4-SO M 4-16	-
			18.0	7.12	7.9	4.8	8.0	8.0	CF4-SO M 4-18	-
			20.0	7.12	7.9	4.8	8.0	8.0	CF4-SO M 4-20	-
			22.0	7.12	7.9	4.8	11.0	8.0	CF4-SO M 4-22	-
			25.0	7.12	7.9	4.8	11.0	8.0	CF4-SO M 4-25	-
			<b>M 5</b>	7.14	1.27	3.0	7.12	7.9	5.35	0
4.0	7.12	7.9				5.35	0	8.0	CF4-SO M 5-4	-
6.0	7.12	7.9				5.35	0	8.0	CF4-SO M 5-6	-
8.0	7.12	7.9				5.35	0	8.0	CF4-SO M 5-8	-
10.0	7.12	7.9				5.35	4.0	8.0	CF4-SO M 5-10	-
12.0	7.12	7.9				5.35	4.0	8.0	CF4-SO M 5-12	-
14.0	7.12	7.9				5.35	4.0	8.0	CF4-SO M 5-14	-
16.0	7.12	7.9				5.35	8.0	8.0	CF4-SO M 5-16	-
18.0	7.12	7.9				5.35	8.0	8.0	CF4-SO M 5-18	-
20.0	7.12	7.9				5.35	8.0	8.0	CF4-SO M 5-20	-
22.0	7.12	7.9				5.35	11.0	8.0	CF4-SO M 5-22	-
25.0	7.12	7.9				5.35	11.0	8.0	CF4-SO M 5-25	-

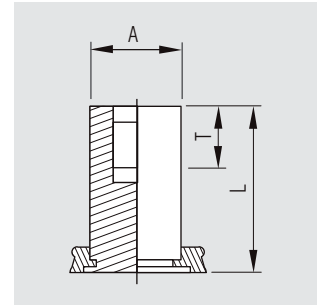
We reserve the right to amend specifications at any time.


# Captive® Self-clinching fasteners

Self-clinching stand-offs for metals  
with blind holes

## Material

Stainless Steel passivate (CF4-BSO series)  
suitable for metal hardnesses up to HRB 88



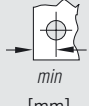
Thread	Hole $\varnothing$ $+0.08 -0.00$ [mm]	Material thickness min [mm]	L $+0.05 -0.13$ [mm]	A $+0.00 -0.13$ [mm]	A/F nom [mm]	T min [mm]	 min [mm]	Stainless Steel				
								Description	Part No.			
M 3	4.22	1.0	6.0	4.2	4.8	3.2	6.0	CF4-BSO M 3-6	-			
			8.0	4.2	4.8	4.0	6.0	CF4-BSO M 3-8	-			
			10.0	4.2	4.8	4.0	6.0	CF4-BSO M 3-10	-			
			12.0	4.2	4.8	5.0	6.0	CF4-BSO M 3-12	-			
			14.0	4.2	4.8	6.5	6.0	CF4-BSO M 3-14	-			
			16.0	4.2	4.8	6.5	6.0	CF4-BSO M 3-16	<b>358 615</b>			
			18.0	4.2	4.8	9.5	6.0	CF4-BSO M 3-18	-			
			20.0	4.2	4.8	9.5	6.0	CF4-BSO M 3-20	-			
			22.0	4.2	4.8	9.5	6.0	CF4-BSO M 3-22	-			
	25.0	4.2	4.8	9.5	6.0	CF4-BSO M 3-25	-					
	5.41	1.0	6.0	5.39	6.4	3.2	6.8	CF4-BSO3.5 M 3-6	-			
			8.0	5.39	6.4	4.0	6.8	CF4-BSO3.5 M 3-8	-			
			10.0	5.39	6.4	4.0	6.8	CF4-BSO3.5 M 3-10	-			
			12.0	5.39	6.4	5.0	6.8	CF4-BSO3.5 M 3-12	<b>358 929</b>			
			14.0	5.39	6.4	6.5	6.8	CF4-BSO3.5 M 3-14	-			
			16.0	5.39	6.4	6.5	6.8	CF4-BSO3.5 M 3-16	<b>358 616</b>			
			18.0	5.39	6.4	9.5	6.8	CF4-BSO3.5 M 3-18	-			
			20.0	5.39	6.4	9.5	6.8	CF4-BSO3.5 M 3-20	-			
			22.0	5.39	6.4	9.5	6.8	CF4-BSO3.5 M 3-22	-			
			25.0	5.39	6.4	9.5	6.8	CF4-BSO3.5 M 3-25	-			
			M 3.5	5.41	1.0	6.0	5.39	6.4	3.2	6.8	CF4-BSO M 3.5-6	-
						8.0	5.39	6.4	4.0	6.8	CF4-BSO M 3.5-8	-
						10.0	5.39	6.4	4.0	6.8	CF4-BSO M 3.5-10	-
						12.0	5.39	6.4	5.0	6.8	CF4-BSO M 3.5-12	-
						14.0	5.39	6.4	6.5	6.8	CF4-BSO M 3.5-14	-
16.0						5.39	6.4	6.5	6.8	CF4-BSO M 3.5-16	-	
18.0	5.39	6.4				9.5	6.8	CF4-BSO M 3.5-18	-			
20.0	5.39	6.4				9.5	6.8	CF4-BSO M 3.5-20	-			
22.0	5.39	6.4				9.5	6.8	CF4-BSO M 3.5-22	-			
25.0	5.39	6.4	9.5	6.8	CF4-BSO M 3.5-25	-						

<sup>1</sup> T = Thread length

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We reserve the right to amend specifications at any time.

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Thread	Hole $\varnothing$ +0.08 -0.00 [mm]	Material thickness min [mm]	L +0.05 -0.13 [mm]	A +0.00 -0.13 [mm]	A/F nom [mm]	T min [mm]	 min [mm]	■ Stainless Steel				
								Description	Part No.			
<b>M 4</b>	7.14	1.27	6.0	7.12	7.9	3.2	8.0	CF4-BSO M 4-6	<b>358 488</b>			
			8.0	7.12	7.9	4.0	8.0	CF4-BSO M 4-8	-			
			9.0	7.12	7.9	4.0	8.0	CF4-BSO M 4-9	<b>358 802</b>			
			10.0	7.12	7.9	4.0	8.0	CF4-BSO M 4-10	-			
			12.0	7.12	7.9	5.0	8.0	CF4-BSO M 4-12	-			
			14.0	7.12	7.9	6.5	8.0	CF4-BSO M 4-14	-			
			16.0	7.12	7.9	6.5	8.0	CF4-BSO M 4-16	-			
			18.0	7.12	7.9	9.5	8.0	CF4-BSO M 4-18	-			
			20.0	7.12	7.9	9.5	8.0	CF4-BSO M 4-20	-			
			22.0	7.12	7.9	9.5	8.0	CF4-BSO M 4-22	-			
			25.0	7.12	7.9	9.5	8.0	CF4-BSO M 4-25	-			
			<b>M 5</b>	7.14	1.27	6.0	7.12	7.9	3.2	8.0	CF4-BSO M 5-6	-
						8.0	7.12	7.9	4.0	8.0	CF4-BSO M 5-8	-
10.0	7.12	7.9				4.0	8.0	CF4-BSO M 5-10	-			
12.0	7.12	7.9				5.0	8.0	CF4-BSO M 5-12	-			
14.0	7.12	7.9				6.5	8.0	CF4-BSO M 5-14	-			
16.0	7.12	7.9				6.5	8.0	CF4-BSO M 5-16	-			
18.0	7.12	7.9				9.5	8.0	CF4-BSO M 5-18	<b>358 920</b>			
20.0	7.12	7.9				9.5	8.0	CF4-BSO M 5-20	-			
22.0	7.12	7.9				9.5	8.0	CF4-BSO M 5-22	-			
25.0	7.12	7.9				9.5	8.0	CF4-BSO M 5-25	-			

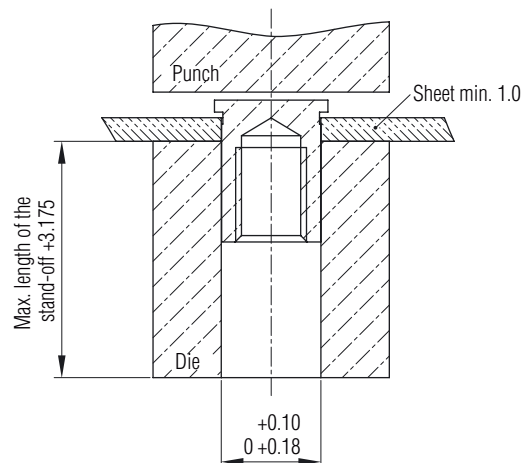
<sup>1</sup> T = Thread length

### Technical data

Thread	Sheet material Stainless Steel 300 series 1.3 mm			
	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]	Push-through force [N]
<b>M 3</b>	24.5	1493	2.36	2650
<b>3.5 M 3</b>	42.3	2877	3.06	3025
<b>M 3.5</b>	42.3	2877	3.06	3025
<b>M 4</b>	46.7	4003	8.89	6458
<b>M 5</b>	46.7	4003	8.89	6226

For guidance only - the precise values must be determined using the original component.

1. Place the stand-off through the mounting hole and the die.
2. Install the fastener. Make sure the punch and die are parallel to one another, until the stand-off head is flush with the sheet surface. Try to avoid excessive pressure.



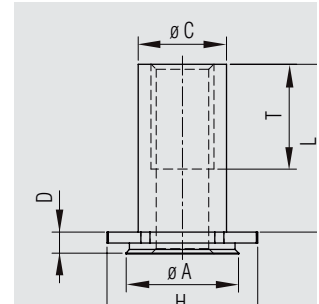
We reserve the right to amend specifications at any time.


# Captive® Self-clinching fasteners

Self-clinching concealed head stand-offs  
for blind holes

## Material

Stainless Steel passivate (CFHS series)  
suitable for metal hardnesses up to HRB 70

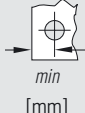


Thread	Blind hole $\varnothing$ $+0.08 -0.00$ [mm]	Material thickness <i>min</i> [mm]	L [mm]	Hole depth		T <i>min</i> [mm]	D <i>max</i> [mm]	C <i>max</i> [mm]	A <i>max</i> [mm]	H <i>nom</i> [mm]	 <i>min</i> [mm]	Stainless Steel	
				<i>min</i> [mm]	<i>max</i> [mm]							Description	Part No.
M 3	5.41	1.6	4 A	1.1	5.0	1.04	4.2	5.39	6.35	4.8	CFHS-1 M 3-4	-	
			6 A	1.1	5.0	1.04	4.2	5.39	6.35	4.8	CFHS-1 M 3-6	-	
			8 B	1.1	5.0	1.04	4.2	5.39	6.35	4.8	CFHS-1 M 3-8	-	
			10 C	1.1	5.0	1.04	4.2	5.39	6.35	4.8	CFHS-1 M 3-10	-	
			12 C	1.1	5.0	1.04	4.2	5.39	6.35	4.8	CFHS-1 M 3-12	-	
			16 C	1.1	5.0	1.04	4.2	5.39	6.35	4.8	CFHS-1 M 3-16	-	
			20 C	1.1	5.0	1.04	4.2	5.39	6.35	4.8	CFHS-1 M 3-20	-	
			25 C	1.1	5.0	1.04	4.2	5.39	6.35	4.8	CFHS-1 M 3-25	-	
	2.4	4 A	1.91	5.0	1.83	4.2	5.39	6.35	4.8	CFHS-2 M 3-4	-		
		6 A	1.91	5.0	1.83	4.2	5.39	6.35	4.8	CFHS-2 M 3-6	-		
		8 C	1.91	5.0	1.83	4.2	5.39	6.35	4.8	CFHS-2 M 3-8	-		
		10 C	1.91	5.0	1.83	4.2	5.39	6.35	4.8	CFHS-2 M 3-10	-		
		12 C	1.91	5.0	1.83	4.2	5.39	6.35	4.8	CFHS-2 M 3-12	-		
		16 C	1.91	5.0	1.83	4.2	5.39	6.35	4.8	CFHS-2 M 3-16	-		
		20 C	1.91	5.0	1.83	4.2	5.39	6.35	4.8	CFHS-2 M 3-20	-		
		25 C	1.91	5.0	1.83	4.2	5.39	6.35	4.8	CFHS-2 M 3-25	-		
M 4	7.92	1.6	4 A	1.1	6.5	1.04	6.23	7.90	8.74	6.4	CFHS-1 M 4-4	-	
			6 A	1.1	6.5	1.04	6.23	7.90	8.74	6.4	CFHS-1 M 4-6	-	
			8 B	1.1	6.5	1.04	6.23	7.90	8.74	6.4	CFHS-1 M 4-8	-	
			10 B	1.1	6.5	1.04	6.23	7.90	8.74	6.4	CFHS-1 M 4-10	-	
			12 C	1.1	6.5	1.04	6.23	7.90	8.74	6.4	CFHS-1 M 4-12	-	
			16 C	1.1	6.5	1.04	6.23	7.90	8.74	6.4	CFHS-1 M 4-16	-	
			20 C	1.1	6.5	1.04	6.23	7.90	8.74	6.4	CFHS-1 M 4-20	-	
			25 C	1.1	6.5	1.04	6.23	7.90	8.74	6.4	CFHS-1 M 4-25	-	
	2.4	4 A	1.91	6.5	1.83	6.23	7.90	8.74	6.4	CFHS-2 M 4-4	-		
		6 A	1.91	6.5	1.83	6.23	7.90	8.74	6.4	CFHS-2 M 4-6	-		
		8 B	1.91	6.5	1.83	6.23	7.90	8.74	6.4	CFHS-2 M 4-8	-		
		10 C	1.91	6.5	1.83	6.23	7.90	8.74	6.4	CFHS-2 M 4-10	-		
		12 C	1.91	6.5	1.83	6.23	7.90	8.74	6.4	CFHS-2 M 4-12	-		
		16 C	1.91	6.5	1.83	6.23	7.90	8.74	6.4	CFHS-2 M 4-16	-		
		20 C	1.91	6.5	1.83	6.23	7.90	8.74	6.4	CFHS-2 M 4-20	-		
		25 C	1.91	6.5	1.83	6.23	7.90	8.74	6.4	CFHS-2 M 4-25	-		

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We reserve the right to amend specifications at any time.

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Thread	Blind hole $\varnothing$ $+0.08 -0.00$ [mm]	Material thickness <i>min</i> [mm]	L [mm]	Hole depth <i>min</i> [mm]	T <i>min</i> [mm]	D <i>max</i> [mm]	C <i>max</i> [mm]	A <i>max</i> [mm]	H <i>nom</i> [mm]	 <i>min</i> [mm]	■ Stainless Steel	
											Description	Part No.
<b>M 5</b>	8.74	1.6	4 A	1.1	9.6	1.04	7.37	8.72	9.53	7.2	CFHS-1 M 5-4	–
			6 A	1.1	9.6	1.04	7.37	8.72	9.53	7.2	CFHS-1 M 5-6	–
			8 B	1.1	9.6	1.04	7.37	8.72	9.53	7.2	CFHS-1 M 5-8	–
			10 B	1.1	9.6	1.04	7.37	8.72	9.53	7.2	CFHS-1 M 5-10	–
			12 B	1.1	9.6	1.04	7.37	8.72	9.53	7.2	CFHS-1 M 5-12	–
			16 C	1.1	9.6	1.04	7.37	8.72	9.53	7.2	CFHS-1 M 5-16	–
			20 C	1.1	9.6	1.04	7.37	8.72	9.53	7.2	CFHS-1 M 5-20	–
			25 C	1.1	9.6	1.04	7.37	8.72	9.53	7.2	CFHS-1 M 5-25	–
	2.4	4 A	1.91	9.6	1.83	7.37	8.72	9.53	7.2	CFHS-2 M 5-4	–	
		6 A	1.91	9.6	1.83	7.37	8.72	9.53	7.2	CFHS-2 M 5-6	–	
		8 B	1.91	9.6	1.83	7.37	8.72	9.53	7.2	CFHS-2 M 5-8	–	
		10 B	1.91	9.6	1.83	7.37	8.72	9.53	7.2	CFHS-2 M 5-10	–	
		12 B	1.91	9.6	1.83	7.37	8.72	9.53	7.2	CFHS-2 M 5-12	–	
		16 C	1.91	9.6	1.83	7.37	8.72	9.53	7.2	CFHS-2 M 5-16	–	
		20 C	1.91	9.6	1.83	7.37	8.72	9.53	7.2	CFHS-2 M 5-20	–	
		25 C	1.91	9.6	1.83	7.37	8.72	9.53	7.2	CFHS-2 M 5-25	–	
<b>M 6</b>	9.9	2.4	4 A	1.91	9.6	1.83	9.0	9.89	11.11	9.5	CFHS-2 M 6-4	–
			6 A	1.91	9.6	1.83	9.0	9.89	11.11	9.5	CFHS-2 M 6-6	–
			8 A	1.91	9.6	1.83	9.0	9.89	11.11	9.5	CFHS-2 M 6-8	–
			10 B	1.91	9.6	1.83	9.0	9.89	11.11	9.5	CFHS-2 M 6-10	–
			12 B	1.91	9.6	1.83	9.0	9.89	11.11	9.5	CFHS-2 M 6-12	–
			16 C	1.91	9.6	1.83	9.0	9.89	11.11	9.5	CFHS-2 M 6-16	–
			20 C	1.91	9.6	1.83	9.0	9.89	11.11	9.5	CFHS-2 M 6-20	–
			25 C	1.91	9.6	1.83	9.0	9.89	11.11	9.5	CFHS-2 M 6-25	–

Technical data

Type	Thread	Tightening torque <i>max</i> [Nm]	Steel		Aluminium (H 34)	
			Press-in force [kN]	Push-out force [N]	Press-in force [kN]	Push-out force [N]
<b>CFHS-1</b>	<b>M3</b>	0.55	17.8	1330	12.5	890
	<b>M4</b>	2	21.3	1775	17.8	1200
	<b>M5</b>	3.6	24.5	2000	22.2	1290
<b>CFHS-2</b>	<b>M3</b>	0.55	19.2	1465	12.9	975
	<b>M4</b>	2	23.6	1955	17.8	1335
	<b>M5</b>	3.6	26.7	2665	22.2	1775
	<b>M6</b>	7.2	28.9	2860	24.4	1915

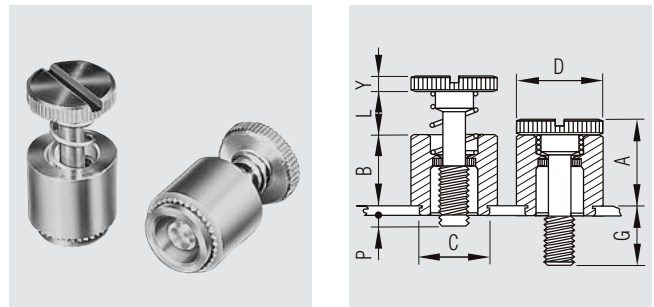
We reserve the right to amend specifications at any time.


# Captive® Self-clinching fasteners

## Self-clinching quick-release screws for metals

### Material

Stainless Steel passivate (CPFC2 series)  
suitable for metal hardnesses up to HRB 70,  
min. material thickness 1.5 mm



Thread	Hole $\emptyset$ $+0.08 -0.00$ [mm]	A max [mm]	B $\pm 0.25$ [mm]	C max [mm]	D $+0.40$ $-0.25$ [mm]	G $+0.4$ [mm]	L $+0.4$ [mm]	P $+0.4$ [mm]	Y $\pm 0.13$ [mm]	 min [mm]	Description	Part No.
<b>M 3</b>	6.73	9.14	7.2	6.71	7.92	6.4	4.8	0.0	1.83	6.4	CPFC2 M 3-40	<b>358 744</b>
		9.14	7.2	6.71	7.92	9.5	4.8	3.2	1.83	6.4	CPFC2 M 3-62	<b>358 746</b>
		9.14	7.2	6.71	7.92	12.7	4.8	6.4	1.83	6.4	CPFC2 M 3-84	–
<b>M 4</b>	7.92	11.43	9.3	7.90	9.53	7.9	6.4	0.0	2.08	7.9	CPFC2 M 4-50	<b>358 745</b>
		11.43	9.3	7.90	9.53	11.1	6.4	3.2	2.08	7.9	CPFC2 M 4-72	<b>358 754</b>
		11.43	9.3	7.90	9.53	14.3	6.4	6.4	2.08	7.9	CPFC2 M 4-94	–
<b>M 5</b>	8.74	11.47	9.3	8.72	10.31	7.9	6.4	0.0	2.08	8.7	CPFC2 M 5-50	–
		11.47	9.3	8.72	10.31	11.1	6.4	3.2	2.08	8.7	CPFC2 M 5-72	–
		11.47	9.3	8.72	10.31	14.3	6.4	6.4	2.08	8.7	CPFC2 M 5-94	<b>358 757</b>
<b>M 6</b>	10.49	14.73	12.0	10.47	11.89	9.5	7.9	0.0	2.46	9.5	CPFC2 M 6-60	–
		14.73	12.0	10.47	11.89	12.7	7.9	3.2	2.46	9.5	CPFC2 M 6-82	–
		14.73	12.0	10.47	11.89	15.9	7.9	6.4	2.46	9.5	CPFC2 M 6-04	–

### Technical data

Thread	Sheet material			
	Steel		Aluminium (H 34)	
	Press-in force [kN]	Push-out force [N]	Press-in force [kN]	Push-out force [N]
<b>M 3</b>	13.3	1330	10.7	1070
<b>M 4</b>	16.9	1780	12.9	1330
<b>M 5</b>	17.8	2220	13.3	1780
<b>M 6</b>	22.2	2670	15.6	1780

For guidance only - the precise values must be determined using the original component.

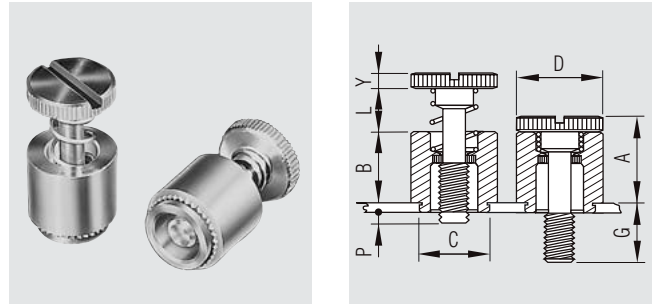
We reserve the right to amend specifications at any time.




Self-clinching quick-release screws for plastics

Material

Stainless Steel passivate (CPFK series),  
min. material thickness 1.5 mm



Thread	Hole $\emptyset$ $+0.08 -0.00$ [mm]	A max [mm]	B $\pm 0.25$ [mm]	C $\pm 0.08$ [mm]	D $+0.40$ $-0.25$ [mm]	G $+0.4$ [mm]	L $+0.4$ [mm]	P $+0.4$ [mm]	Y $\pm 0.13$ [mm]	 min [mm]	Description	Part No.
<b>M 3</b>	6.73	9.14	7.2	7.19	7.92	6.4	4.8	0.0	1.83	5.8	CPFK M 3-40	<b>358 734</b>
		9.14	7.2	7.19	7.92	9.5	4.8	3.2	1.83	5.8	CPFK M 3-62	-
		9.14	7.2	7.19	7.92	12.7	4.8	6.4	1.83	5.8	CPFK M 3-84	-

Technical data

Thread	Press-in force [kN]	Push-out force [N]	Torsional strength [Nm]
<b>M 3</b>	1.1	245	3

For guidance only - the precise values must be determined using the original component.

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# Captive® Self-clinching fasteners

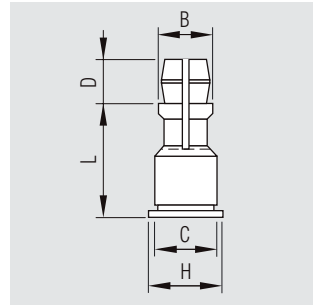
## Spring top stand-offs for metals

### Material

■ Aluminium (CFSSA series)  
suitable for metal hardnesses up to HRB 50

■ Steel zinc (CFSSS series)  
suitable for metal hardnesses up to HRB 60



■ Stainless Steel passivate (CFSSC series)  
suitable for metal hardnesses up to HRB 70



Fastening hole for movable plate [mm]	L [mm]	B [mm]	C [mm]	D [mm]	H [mm]	■ Aluminium		■ Stainless Steel		■ Steel	
						Description	Part No.	Description	Part No.	Description	Part No.
4	8	4.78	5.39	3.58	6.35	CFSSA 4-8	<b>358 880</b>	CFSSC 4-8	<b>358 860</b>	CFSSS 4-8	<b>358 870</b>
	10	4.78	5.39	3.58	6.35	CFSSA 4-10	<b>358 883</b>	CFSSC 4-10	–	CFSSS 4-10	<b>358 875</b>
	12	4.78	5.39	3.58	6.35	CFSSA 4-12	–	CFSSC 4-12	–	CFSSS 4-12	<b>358 872</b>
	14	4.78	5.39	3.58	6.35	CFSSA 4-14	–	CFSSC 4-14	–	CFSSS 4-14	–
	16	4.78	5.39	3.58	6.35	CFSSA 4-16	–	CFSSC 4-16	–	CFSSS 4-16	<b>358 874</b>
	18	4.78	5.39	3.58	6.35	CFSSA 4-18	–	CFSSC 4-18	–	CFSSS 4-18	–
	20	4.78	5.39	3.58	6.35	CFSSA 4-20	–	CFSSC 4-20	–	CFSSS 4-20	–
	22	4.78	5.39	3.58	6.35	CFSSA 4-22	–	CFSSC 4-22	–	CFSSS 4-22	–
	25	4.78	5.39	3.58	6.35	CFSSA 4-25	–	CFSSC 4-25	–	CFSSS 4-25	–

Die for drill hole diam. = Dimension "A" +0.10/+0.18 mm.

### Technical data

Type	Fixed plate						Movable plate				
	Fastening hole for fixed plate $+0.08 -0.00$ [mm]	Material	Hardness  <i>max</i> HRB	Material thickness  <i>min</i> [mm]	 <i>min</i> [mm]	Positional tolerance  <i>min</i> [mm]	Fastening hole for movable plate $+0.08 -0.00$ [mm]	Material Steel 1.5 mm	Material thickness  [mm]	 <i>min</i> [mm]	
<b>CFSSA</b>	5.4	Metall	HRB 50	1	6.6	$\pm 0.134$	4.0	Circuit board or metal	1 – 1.8	2.5	
<b>CFSSS</b>	5.4	Metall	HRB 60	1	6.6	$\pm 0.134$	4.0	Circuit board or metal	1 – 1.8	2.5	
<b>CFSSC</b>	5.4	Metall	HRB 70	1	6.6	$\pm 0.134$	4.0	Circuit board or metal	1 – 1.8	2.5	

### Technical data

Type	Material	Fixed plate		Movable plate		
		Press-in force [kN]	Push-out force [N]	Press-in force 1 time max [N]	Push-out force 1 time min [N]	Push-out force after 15 times max [N]
<b>CFSSA</b>	1.0 Aluminium HRB 25	6.7	880	58	13	4
<b>CFSSS</b>	1.0 Aluminium HRB 25	6.7	880	89	27	9
<b>CFSSC</b>	1.5 Steel HRB 64	16.0	1780	89	27	9

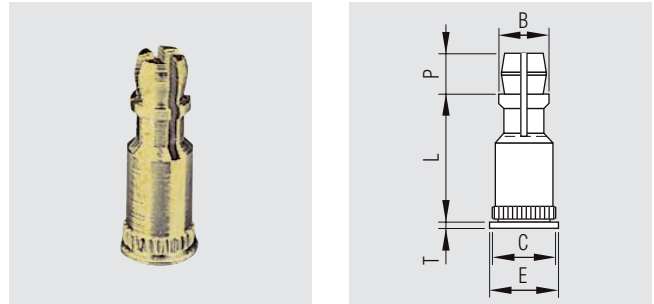
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Spring top stand-offs for PC boards

**Material**



Brass (CFKSSB series)  
suitable for metal hardnesses up to HRB 60,  
no surface treatment



Fastening hole for movable plate [mm]	L $\pm 0.13$ [mm]	B $\pm 0.13$ [mm]	C <i>max</i> [mm]	E $\pm 0.13$ [mm]	P $\pm 0.13$ [mm]	T $\pm 0.13$ [mm]	Description	Part No.
<b>4</b>	8.0	4.77	5.74	6.35	3.58	0.51	CFKSSB 4-8	-
	10.0	4.77	5.74	6.35	3.58	0.51	CFKSSB 4-10	-
	12.0	4.77	5.74	6.35	3.58	0.51	CFKSSB 4-12	-
	14.0	4.77	5.74	6.35	3.58	0.51	CFKSSB 4-14	-
	16.0	4.77	5.74	6.35	3.58	0.51	CFKSSB 4-16	-
	18.0	4.77	5.74	6.35	3.58	0.51	CFKSSB 4-18	-
	20.0	4.77	5.74	6.35	3.58	0.51	CFKSSB 4-20	-
	22.0	4.77	5.74	6.35	3.58	0.51	CFKSSB 4-22	-
25.0	4.77	5.74	5.74	6.35	3.58	0.51	CFKSSB 4-25	-

Die for drill hole diam. = Dimension "C" +0.10/+0.18 mm.

**Technical data**

Type	Fixed plate						Movable plate				
	Fastening hole for fixed plate $+0.08 -0.00$ [mm]	Material	Hardness <i>max</i> HRB	Material thickness <i>max</i> [mm]	 <i>min</i> [mm]	Positional tolerance <i>min</i> [mm]	Fastening hole for movable plate $+0.08 -0.00$ [mm]	Material Steel 1.5 mm	Material thickness [mm]	 <i>min</i> [mm]	
<b>CFKSSB</b>	5.4	Circuit boards	HRB 65	1.25	5.6	$\pm 0.13$	4.0	Circuit board or metal	1 – 1.8	2.5	

**Technical data**

Type	Material	Fixed plate		Press-in force 1 time max [N]	Movable plate	
		Press-in force [kN]	Push-out force [N]		Push-out force 1 time min [N]	Push-out force after 15 times max [N]
<b>CFKSSB</b>	1.52 FR-4 fibre glass	2.2	484	58	13	4

For guidance only - the precise values must be determined using the original component.

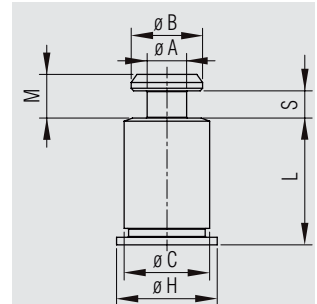
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# Captive® Self-clinching fasteners

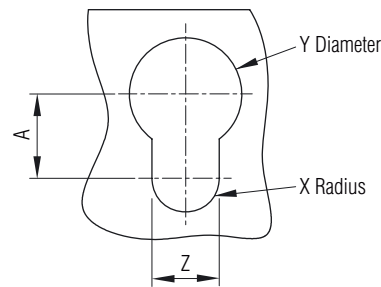
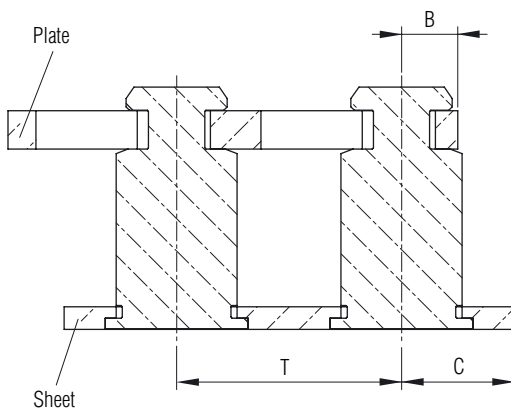
## Self-clinching slide-top stand-offs

### Material

Stainless Steel (CFSKC series)  
suitable for metal hardnesses up to HRB 70



Sheet code	L	A	B	C	S	M	H	Hole	Stainless Steel	
[mm]	$\pm 0.13$ [mm]	$\pm 0.08$ [mm]	$\pm 0.08$ [mm]	max [mm]	$\pm 0.08$ [mm]	max [mm]	nom [mm]	$+0.08 -0.00$ [mm]	Description	Part No.
61.5	6	2.51	4.5	5.39	1.73	2.75	6.35	5.5	CFSKC 61.5-6	358 912
	8	2.51	4.5	5.39	1.73	2.75	6.35	5.5	CFSKC 61.5-8	358 803
	10	2.51	4.5	5.39	1.73	2.75	6.35	5.5	CFSKC 61.5-10	-
	12	2.51	4.5	5.39	1.73	2.75	6.35	5.5	CFSKC 61.5-12	358 904
	14	2.51	4.5	5.39	1.73	2.75	6.35	5.5	CFSKC 61.5-14	-
	16	2.51	4.5	5.39	1.73	2.75	6.35	5.5	CFSKC 61.5-16	358 905
	18	2.51	4.5	5.39	1.73	2.75	6.35	5.5	CFSKC 61.5-18	-
	20	2.51	4.5	5.39	1.73	2.75	6.35	5.5	CFSKC 61.5-20	-
	22	2.51	4.5	5.39	1.73	2.75	6.35	5.5	CFSKC 61.5-22	-
25	2.51	4.5	5.39	1.73	2.75	6.35	5.5	CFSKC 61.5-25	-	

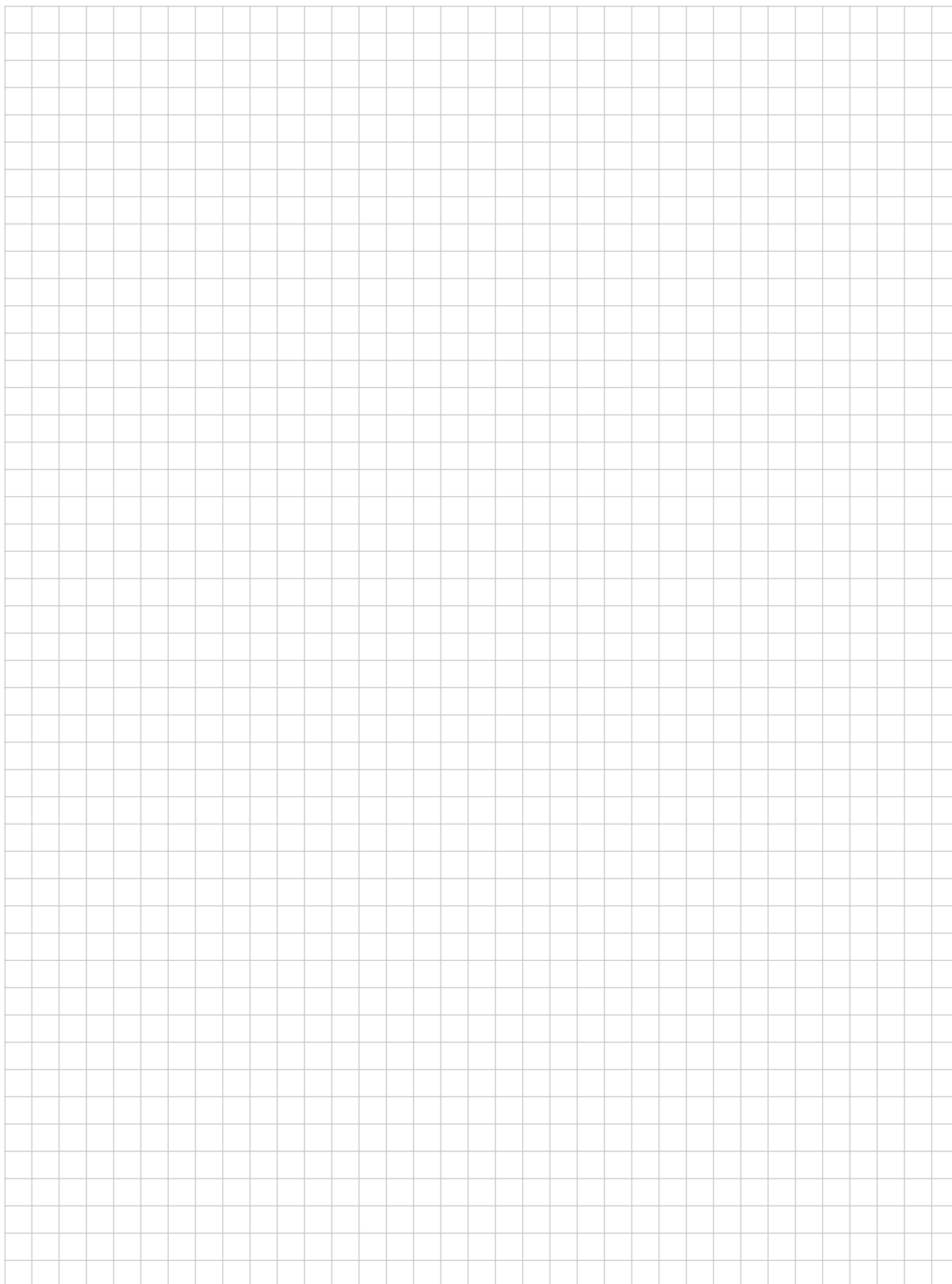


### Technical data

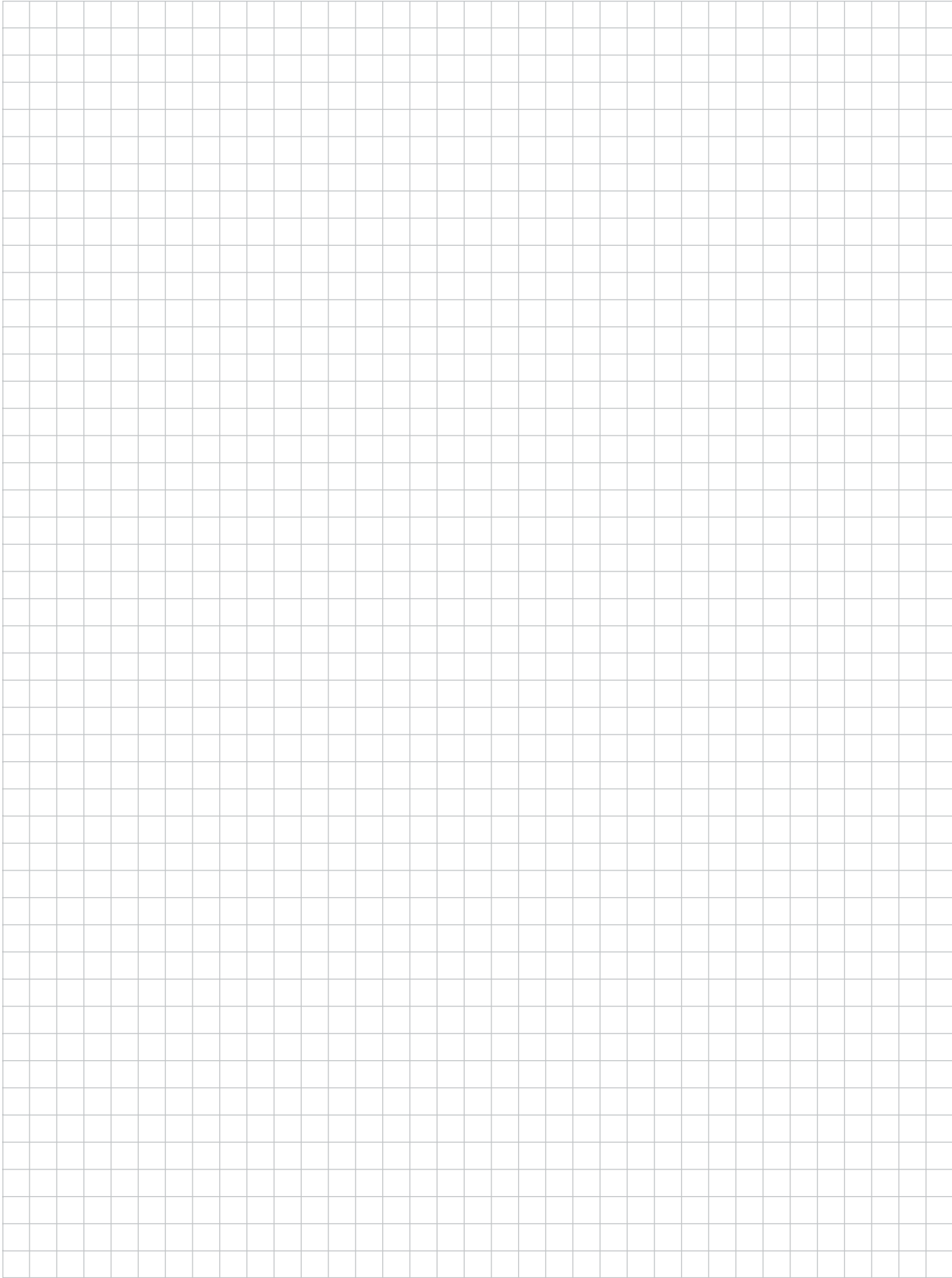
Test plate material Sheet code	1.52 mm cold formed steel		1.52 mm 5052-H34 Aluminium	
	Installation [kN]	Pull-out force [N]	Installation [kN]	Pull-out force [N]
61.5	14.3	2650	7	1100

Plate				Sheet				Sheet thickness	Minimum clearance C
Lower assembly hole	Sheet thickness	Clearance B	Tolerance T	X nom	Y $\pm 0.08$	Z $\pm 0.08$	A min		
5.4	1	6.6	$\pm 0.13$	1.5	5	3	3.75	1.45 – 1.62	4.1

We reserve the right to amend specifications at any time.



# NOTES



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Fastening Technology / Threaded Inserts

## RIV-TI<sup>®</sup> PLUS

Blind Rivet Nuts





# Contents

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# RIV-TI® Plus blind rivet nuts



## The multi-range blind rivet nut for high pull-out resistance

The RIV-TI® Plus blind rivet nut has been especially designed for use in softer materials, such as plastics and composites.

The area prone to distortion has been engineered with longitudinal slots to reduce the cross-section, thus significantly lowering the forming force required compared to standard blind rivet nuts.

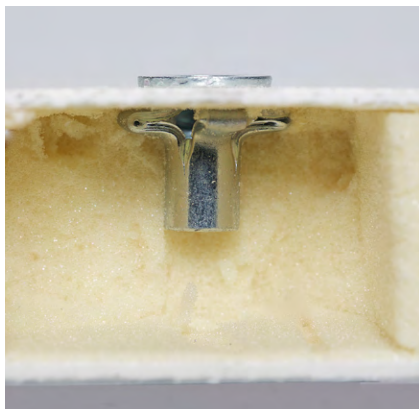
With its especially wide grip range of up to 12.7 mm, this blind rivet nut can connect different components while guaranteeing high tensile strengths. The head expands into four legs on the blind side. The resulting extra-large surface on the blind side also helps to reinforce the rivets.



## Easy, rational and time-saving installation.

1. Insert the RIV-TI® Plus blind rivet nut into the drilled hole.
2. The rivet installation tool retracts the threaded mandrel and rivets the RIV-TI® Plus to the component. Always ensure that the installation tool is square to the component.
3. Spin off the threaded mandrel to fasten the RIV-TI® Plus.
4. Once installed, the RIV-TI® Plus provides a highly durable internal thread for further fastening options.

To ensure that RIV-TI® Plus blind rivet nuts are perfectly installed, we recommend using the TIOS® EN18 or ProSert® XTN20 rivet installation tools, with extended threaded mandrels in either case. (Further information available in the 10057 tool catalogue)



## Benefits at a glance

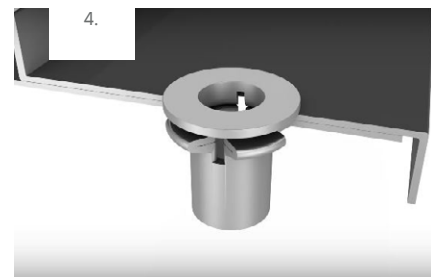
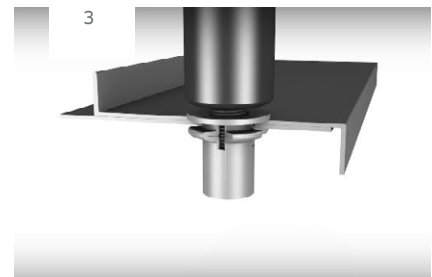
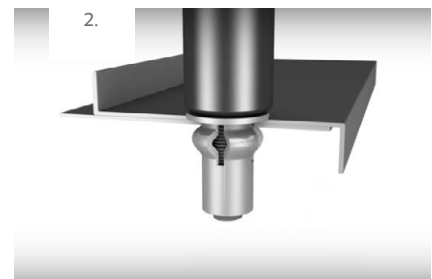
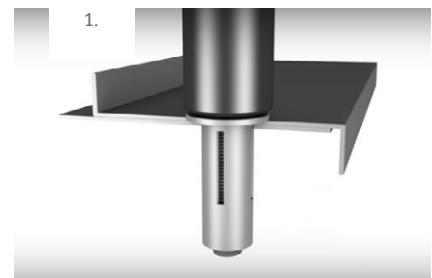
- Extremely wide grip range (Multigrip) reduces the number of fasteners needed
- Extra-large blind side footprint for very strong pull-out resistance
- The low radial stress when installing the RIV-TI® Plus eliminates the risk of the component being exposed to high loads
- Minimal risk of composite materials tearing or delaminating
- Ideal for use on soft and brittle materials, such as plastics, composite materials, cardboard, etc.

## Form of delivery

Head type:	dome head
Threads:	M5, M6, M8, M10
Material:	SAE 1008 steel
Finish:	5-8µm galvanised and passivated, Cr-6 free, RoHS-compliant

## Applications:

- Vehicle construction (use on sandwich profiles and composite panels)
- Interior fittings in stores and offices
- Advertising media, display boards
- Container construction
- Leisure appliances
- Household appliances

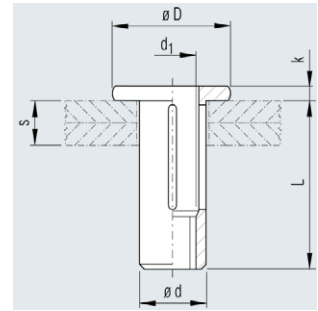


# RIV-TI® Plus blind rivet nuts

## Dome head

## Material

Steel, galvanised



Thread d1	Grip range s [mm]	Hole ø [mm]	Shank ø d max [mm]	Head ø D ± 0.35 [mm]	Head height k ± 0.15 [mm]	Shank length L ± 0.35 [mm]	Pull-out resistance* [N]	Torque* max. [Nm]	Article No.
M5	0.50 - 4.45	7.5 - 7.6	7.47	12.75	0.95	21.05	9,800	11.8	331 800 003
	4.45 - 8.10	7.5 - 7.6	7.47	12.75	0.95	23.85	9,800	11.8	331 801 003
M6	0.50 - 7.10	8.8 - 8.9	8.79	15.80	1.50	25.80	19,600	12.0	331 810 003 <sup>2</sup>
	7.10 - 12.70	8.8 - 8.9	8.79	15.80	1.50	31.30	19,600	12.0	331 811 003
M8	0.50 - 7.10	11.1 - 11.2	11.10	19.00	1.55	29.05	26,000	21.0	331 815 003
	7.10 - 12.70	11.1 - 11.2	11.10	19.00	1.55	35.05	26,000	21.0	331 816 003
M10	0.50 - 7.10	13.1 - 13.2	13.06	22.25	2.25	31.00	- <sup>1</sup>	- <sup>1</sup>	331 820 003 <sup>1</sup>
	7.10 - 12.70	13.1 - 13.2	13.06	22.25	2.25	36.50	- <sup>1</sup>	- <sup>1</sup>	331 821 003 <sup>1</sup>

<sup>1</sup> On request

<sup>2</sup> Shank length tolerance: -0.70 mm

\* All values shown are guidelines only. Values vary depending on use. The exact values will need to be calculated on the original component.



Also available with pre-manufactured upset.

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Titgemeyer Group is a leading fastening technology and transport technology group of companies with 15 sites across Europe. Steeped in tradition, the company develops, manufactures and sells more than 30,000 fastening elements, tools and vehicle components – in series and to customer specification.

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Fastening Technology / Threaded Inserts

# RIV-TI<sup>®</sup> Flex

Blind Nuts





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# RIV-TI® Flex blind nuts



RIV-TI® Flex blind nuts consist of an elastic EPDM rivet body comprising a stainless steel or brass threaded insert. The fastener actively absorbs shocks, vibrations and noise. All that is needed to distort the EPDM rivet body is a screw; no special tools are required! The result is a well-formed distorted ridge. The fastener is removable and can be re-used for other jobs.

RIV-TI® Flex blind nuts can also be used in blind hole applications. Turning the screw causes the distortion area to clamp against the internal wall of the hole. The retention force is dictated by the coarseness of the hole in the component.

RIV-TI® Flex is suitable for a very broad range of applications. The EPDM rivet body stands out for its high weather resistance and is thus exceptionally well-suited for use outdoors in particular. We are also able to manufacture rivet bodies using other combinations of materials to suit your particular needs. Neoprene or NBR rivet bodies are available subject to minimum order volumes being placed.

Neoprene exhibits positive properties in numerous applications and is electrically non-conductive. NBR is highly resistant to mineral oils, greases and hydrocarbons.

### Benefits at a glance

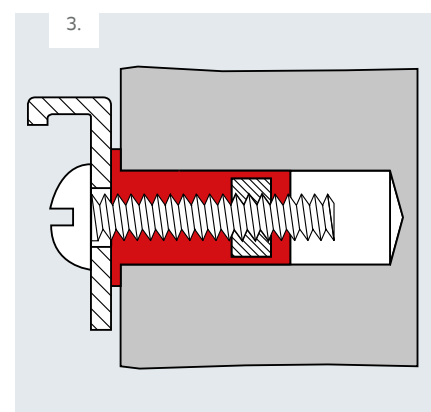
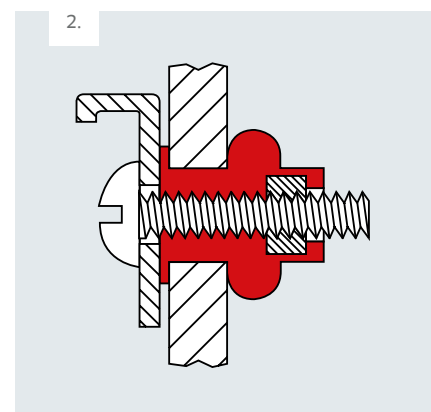
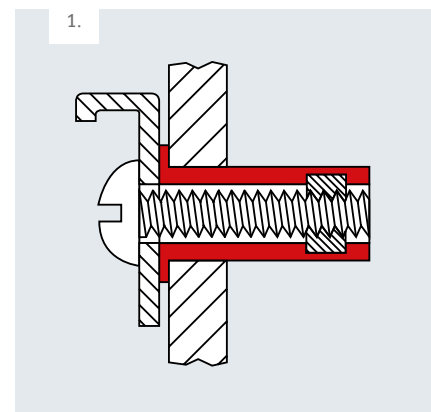
- Corrosion-resistant
- One-sided installation (blind) possible; no tools required
- Vibration-damping and noise-absorbing
- Reliable fit, even when using problematic fasteners such as hard / soft connectors
- Dielectric (neoprene on request)
- Temperature-resistant from -30 °C to +80 °C
- Gentle on sensitive materials and surfaces
- Removeable

### Easy, rational and time-saving installation - no tools required

1. Prepare the drilled hole and insert the RIV-TI® Flex.
2. Turn the screw to form the blind side footprint; no special tools are required.
3. Use in blind side holes: RIV-TI® Flex presses against the drilled hole wall and forms a frictionless tight fit.

### Form of delivery

Threads:	M3, M4, M5, M6, M8, M10, M12
Material Sleeve:	EPDM, black
Material Threaded insert:	A2 stainless steel (1.4567) or brass (2.0401)



# RIV-TI® Flex blind nuts

## Standard head

Especially suited to all applications where vibration damping and shock absorbance are prime considerations.

### Material

Sleeve:



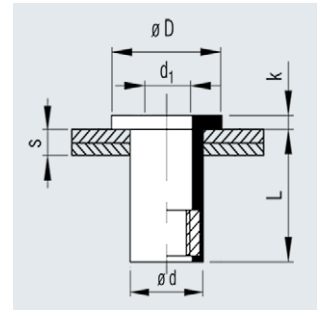
EPDM, black

(dielectric on request)

Threaded insert:



stainless steel



Gewinde d1	Klemmlängenbereich s [mm]	Bohrloch Ø [mm]	Schaft Ø d [mm]	Kopf Ø D [mm]	Kopfhöhe k [mm]	Schaftlänge L [mm]	Anziehdrehmoment [Nm]	Artikel-Nr.
M3	0.4 - 4.0	8.0	7.9	11.0	1.2	11.4	0.25 - 0.50	331 331 003
M4	0.4 - 4.0	8.0	7.9	11.0	1.2	11.4	0.25 - 0.39	331 340 003
M5	0.4 - 4.9	9.7	9.6	12.7	0.9	13.2	0.34 - 0.50	331 350 003
	0.85 - 5.9	9.7	9.6	14.0	1.0	16.0	0.29 - 0.69	331 351 003
	0.8 - 5.8	9.7	9.6	14.0	4.7	14.8	0.39 - 0.69	331 353 003
	4.0 - 10.0	9.7	9.6	14.0	0.9	20.6	0.29 - 0.88	331 357 003
	7.9 - 15.0	9.7	9.6	14.0	1.3	25.2	0.29 - 0.69	331 358 003
	20.5 - 30.0	9.7	9.6	14.0	1.3	37.7	0.59 - 0.98	331 349 003
M6	0.4 - 4.0	12.8	12.7	16.0	1.3	14.7	0.59 - 0.98	331 360 003
	4.7 - 8.7	12.8	12.7	16.0	1.3	19.0	0.59 - 0.98	331 367 003
	0.8 - 4.7	12.8	12.7	19.1	4.8	16.35	0.78 - 0.98	331 365 003
	6.4 - 11.5	12.8	12.7	16.3	2.0	24.7	0.78 - 0.98	331 362 003
M8	0.4 - 4.0	16.0	15.9	21.5	3.2	15.1	0.98 - 1.47	331 380 003
	3.95 - 9.5	16.0	15.9	21.5	5.7	22.2	0.98 - 1.57	331 381 003

Other designs available on request.

# RIV-TI® Flex blind nuts

## Standard head

Especially suited to all applications where vibration damping and shock absorbance are prime considerations.

### Material

Sleeve:

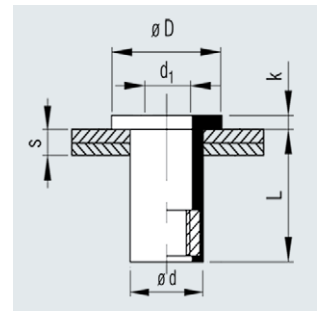


EPDM, black  
(dielectric on request)

Threaded insert:



brass



Thread size d1	Grip range s [mm]	Hole ø [mm]	Shank ø d [mm]	Head ø D [mm]	Head height k [mm]	Shank length L [mm]	Tightening torque [Nm]	Article No.
M3	0.4 - 4.0	8.0	7.9	11.0	1.2	11.4	0.25 - 0.50	331 300 003
M4	0.4 - 4.0	8.0	7.9	11.0	1.2	11.4	0.25 - 0.39	331 301 003
M5	0.4 - 4.9	9.7	9.6	12.7	0.9	13.2	0.34 - 0.50	331 302 003
	0.85 - 5.9	9.7	9.6	14.0	1.0	16.0	0.29 - 0.69	331 303 003
	0.8 - 5.8	9.7	9.6	14.0	4.7	14.8	0.39 - 0.69	331 304 003
	4.0 - 10.0	9.7	9.6	14.0	0.9	20.6	0.29 - 0.88	331 305 003
	7.9 - 15.0	9.7	9.6	14.0	1.3	25.2	0.29 - 0.69	331 306 003
	20.5 - 30.0	9.7	9.6	14.0	1.3	37.7	0.59 - 0.98	331 307 003
M6	0.4 - 4.0	12.8	12.7	16.0	1.3	14.7	0.59 - 0.98	331 308 003
	4.7 - 8.7	12.8	12.7	16.0	1.3	19.0	0.59 - 0.98	331 309 003
	0.8 - 4.7	12.8	12.7	19.1	4.8	16.35	0.78 - 0.98	331 310 003
	6.4 - 11.5	12.8	12.7	16.3	2.0	24.7	0.78 - 0.98	331 312 003
M8	0.4 - 4.0	16.0	15.9	21.5	3.2	15.1	0.98 - 1.47	331 313 003
	3.95 - 9.5	16.0	15.9	21.5	5.7	22.2	0.98 - 1.57	331 314 003
M10	2.5 - 3.5	20.1	20.0	25.0	3.0	21.0	4.41 - 5.39	331 315 003
	0.38 - 11.1	19.15	19.05	29.5	4.75	22.25	4.41 - 5.39	331 316 003
M12	2.5 - 3.5	24.1	24.0	27.0	3.0	23.5	5.88 - 6.86	331 317 003

Other designs available on request.

# RIV-TI® Flex blind nuts

## Large head

Ideal for use in soft and thin materials. The large head provides for ideal load distribution.

### Material

Sleeve:

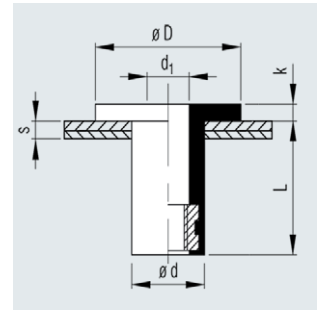


EPDM, black  
(dielectric on request)

Threaded insert:



stainless steel



Thread size d1	Grip range s [mm]	Hole ø [mm]	Shank ø d [mm]	Head ø D [mm]	Head height k [mm]	Shank length L [mm]	Tightening torque [Nm]	Article No.
M3	9.5 - 13.0	6.2	6.1	14.0	0.9	24.0	0.25 - 0.50	331 333 003
M4	0.4 - 4.4	8.0	7.9	19.05	1.5	12.7	0.25 - 0.39	331 343 003
M5	0.8 - 5.8	9.7	9.6	19.0	2.0	16.0	0.29 - 0.69	331 354 003
M6	0.4 - 4.0	12.8	12.7	20.0	1.3	14.7	0.59 - 0.98	331 363 003

Other designs available on request.

## Large head

Ideal for use in soft and thin materials. The large head provides for ideal load distribution.

### Material

Sleeve:

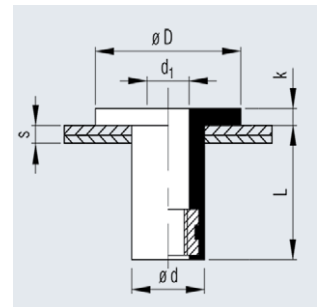


EPDM, black  
(dielectric on request)

Threaded insert:



brass



Thread size d1	Grip range s [mm]	Hole ø [mm]	Shank ø d [mm]	Head ø D [mm]	Head height k [mm]	Shank length L [mm]	Tightening torque [Nm]	Article No.
M3	9.5 - 13.0	6.2	6.1	14.0	0.9	24.0	0.25 - 0.50	331 320 003
M4	0.4 - 4.4	8.0	7.9	19.05	1.5	12.7	0.25 - 0.39	331 321 003
M5	0.8 - 5.8	9.7	9.6	19.0	2.0	16.0	0.29 - 0.69	331 322 003
M6	0.4 - 4.0	12.8	12.7	20.0	1.3	14.7	0.59 - 0.98	331 323 003

Other designs available on request.



# RIV-TI® Flex blind nuts

## Snap head

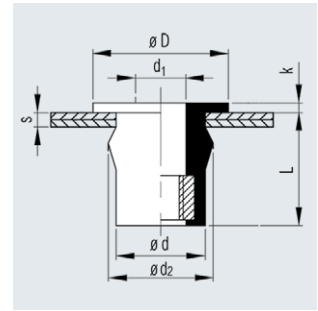
Ideal for use on assembly lines. The snap function provided by the blind nut enables it to fit tightly in the base material before the assembly work is completed.

### Material

Sleeve: Threaded insert: stainless

EPDM, black  
(dielectric on request)

steel



Thread d1	Grip range s [mm]	Hole $\varnothing$ [mm]	Shank $\varnothing$ d [mm]	Shank $\varnothing$ d2 [mm]	Head $\varnothing$ D [mm]	Head height k [mm]	Shank length L [mm]	Tightening torque [Nm]	Article No.
M4	0.4 - 1.3	8.0	7.9	9.3	12.7	1.3	9.7	0.34 - 0.50	331 370 003
M5	0.5 - 1.5	9.7	9.6	10.25	12.7	1.5	9.5	0.34 - 0.50	331 371 003
	0.4 - 1.3	9.7	9.6	10.25	14.2	3.2	10.8	0.34 - 0.50	331 372 003

Other designs available on request.

## Snap head

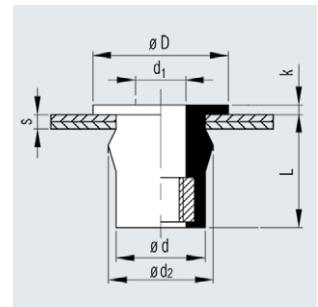
Ideal for use on assembly lines. The snap function provided by the blind nut enables it to fit tightly in the base material before the assembly work is completed.

### Material

Sleeve: Threaded insert:

EPDM, black  
(dielectric on request)

brass



Thread d1	Grip range s [mm]	Hole $\varnothing$ [mm]	Shank $\varnothing$ d [mm]	Shank $\varnothing$ d2 [mm]	Head $\varnothing$ D [mm]	Head height k [mm]	Shank length L [mm]	Tightening torque [Nm]	Article No.
M4	0.4 - 1.3	8.0	7.9	9.3	12.7	1.3	9.7	0.34 - 0.50	331 324 003
M5	0.5 - 1.5	9.7	9.6	10.25	12.7	1.5	9.5	0.34 - 0.50	331 325 003
	0.4 - 1.3	9.7	9.6	10.25	14.2	3.2	10.8	0.34 - 0.50	331 326 003

Other designs available on request.

# RIV-TI® Flex blind nuts

## Tension bushing

The metal tension bushing makes for a constant tightening torque.

### Material

Sleeve:

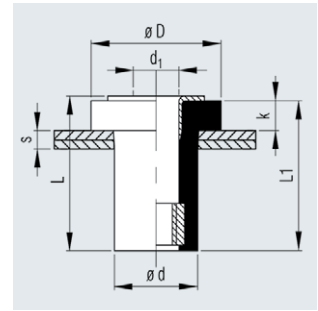


EPDM, black  
(dielectric on request)

Threaded insert:



stainless steel



Thread size <b>d1</b>	Grip range <b>s</b> [mm]	Hole $\varnothing$ [mm]	Shank $\varnothing$ <b>d</b> [mm]	Head $\varnothing$ <b>D</b> [mm]	Head height <b>k</b> [mm]	Shank length <b>L</b> [mm]	Tightening torque [Nm]	Article No.
M4	0.5 - 2.0	8.0	7.9	12.0	3.5	11.0	0.10 - 0.15	331 375 003

Other designs available on request.

## Tension bushing

The metal tension bushing makes for a constant tightening torque.

### Material

Sleeve:

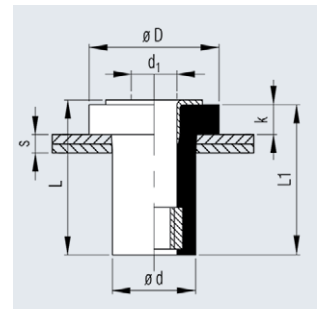


EPDM, black  
(dielectric on request)

Threaded insert:



brass



Thread size <b>d1</b>	Grip range <b>s</b> [mm]	Hole $\varnothing$ [mm]	Shank $\varnothing$ <b>d</b> [mm]	Head $\varnothing$ <b>D</b> [mm]	Head height <b>k</b> [mm]	Shank length <b>L</b> [mm]	Tightening torque [Nm]	Article No.
M4	0.5 - 2.0	8.0	7.9	12.0	3.5	11.0	0.10 - 0.15	331 327 003

Other designs available on request.

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## About us

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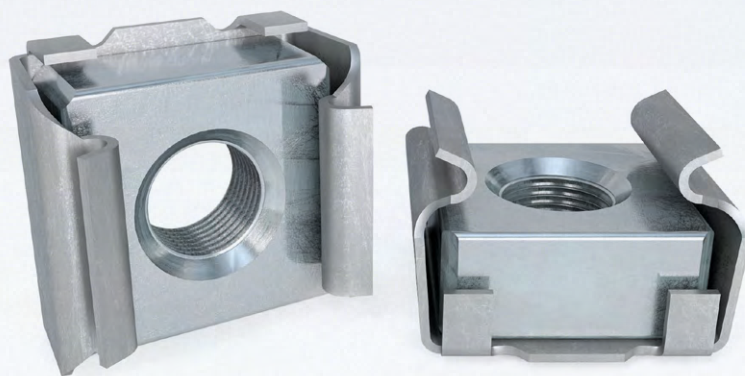
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Fastening Technology / Threaded Inserts

**RIV-TI<sup>®</sup>**  
Captive Nuts





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# RIV-TI® captive nuts

## Metal captive nuts

- Quick installation
- Front-side installation
- Quarter-turn installation
- Made of metal

### Material

Housing:

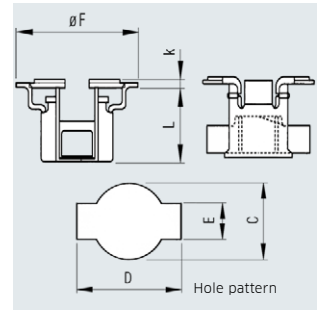


steel

Nut:

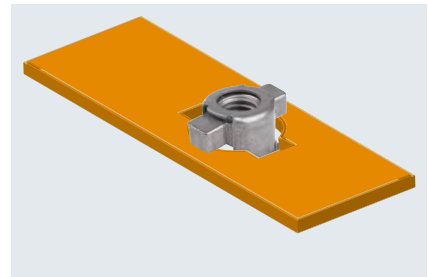
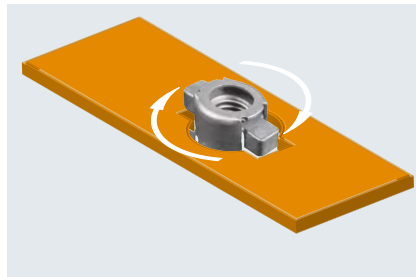
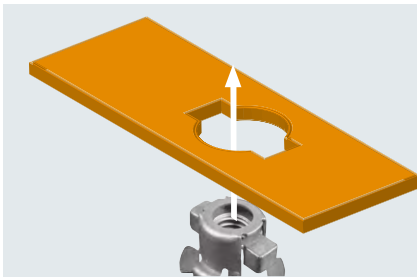


steel



Thread size d1	Grip range s [mm]	Hole dimensions			Head $\varnothing$ D [mm]	Head height k [mm]	Length L [mm]	Colour	Article No.
		C [mm]	D [mm]	E [mm]					
M6	0.5 - 3.7	10.2 - 10.4	14.5 - 14.7	4.4 - 4.6	17	0.5	10.5	-	331 621 000
M8	0.5 - 4.4	14.3 - 14.5	22.0 - 22.2	6.5 - 6.7	24	0.8	14	-	331 626 000

Other designs available on request.





# RIV-TI® captive nuts

## Nylon captive nuts

- Quick installation
- Front-side installation
- Quarter-turn installation

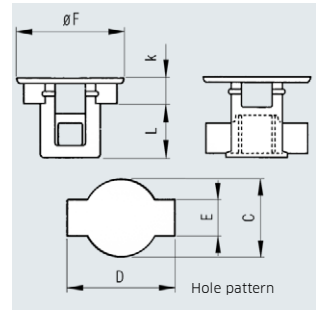
### Material

Housing:

nylon

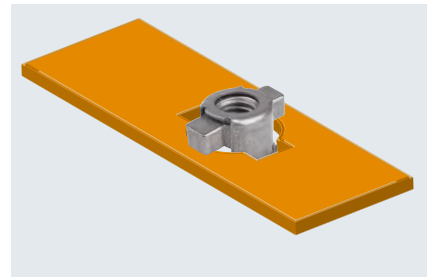
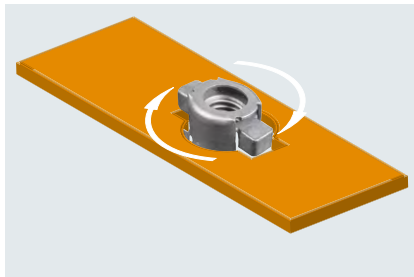
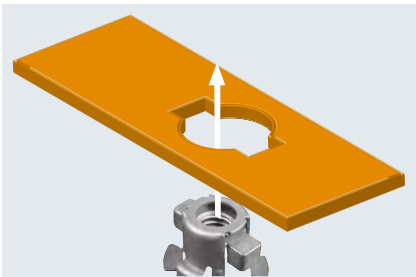
Nut:

steel



Thread size	Grip range	Hole dimensions			Head $\varnothing$	Head height	Length	Colour	Article No.
		C	D	E					
d1	s	C	D	E	D	k	L		
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
M6	0.5 - 5.5	10.5	15.0	4.5	18	0.8	12	natur	331 623 000

Other designs available on request.



# RIV-TI® captive nut

## Captive nuts for 19" switch cabinet

- Quick installation
- Front-side installation
- Quarter-turn installation

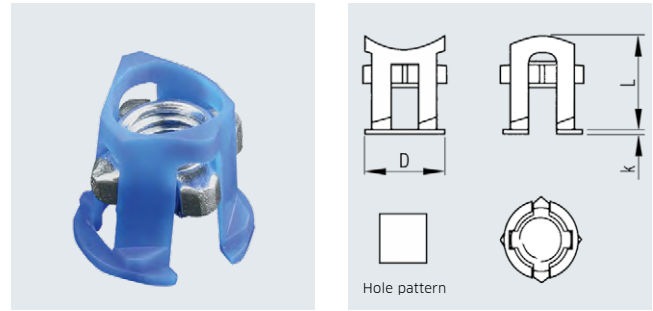
### Material

Housing:

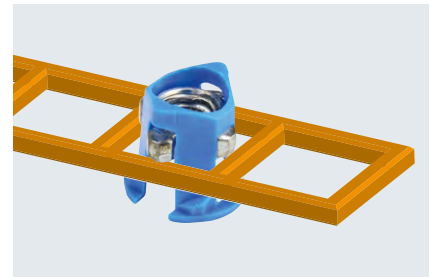
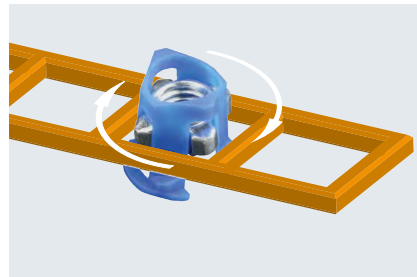
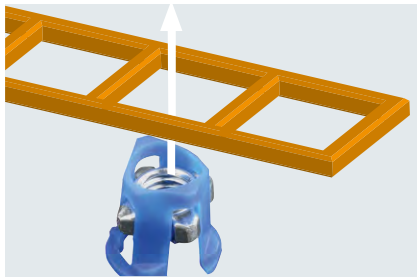
nylon

Nut:

steel



Thread size d1	Grip range s [mm]	Square hole [mm]	Head ø D [mm]	Head height k [mm]	Length L [mm]	Tensile load max [N]	Torque ± 1 Nm recommended [Nm]	Colour	Article No.
M6	0.5 - 3.1	9.5	12.3	0.8	12	5000	6	blau	331 625 000



The tensile load refers to the female thread, not the envisaged application!  
The torque refers to the female thread, not the envisaged application!

Other designs available on request.



captive nut  
Standard



Captive nut for  
front-side installation



Cylindrical  
captive nut

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Fastening Technology / Threaded Inserts

# Jack Nut<sup>®</sup>

Blind Rivet Nuts





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# Jack Nut® blind rivet nuts



Soft or brittle materials pose special challenges for fastening elements. Jack Nut® blind rivet nuts offer load-bearing threads for thin-walled and problematical materials. The distorted section expands into 4 legs on the blind side. Their ability to distribute the load across a large area on the blind side of the material radically improves the fastener's push-out resistance. Suitable for use in plaster-board, plastic, hardboard, plywood, pressboard, etc.

In addition to our galvanised steel Jack Nut®, we are also able to manufacture blind rivet nuts using other combinations of material and with other finishes depending on your particular needs, including for the automotive industry. A Raintite® coating can be applied as an optional extra to guard against moisture. A perfect PVC coating guards against scratching and galvanic corrosion.





### Benefits at a glance

- Especially suited for soft, thin or brittle materials
- Large blind side footprint
- Wide grip range
- Secure fit
- High tensile strength
- Quick and easy one-sided installation

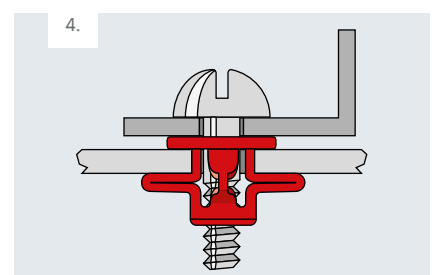
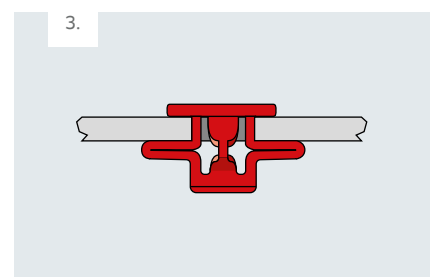
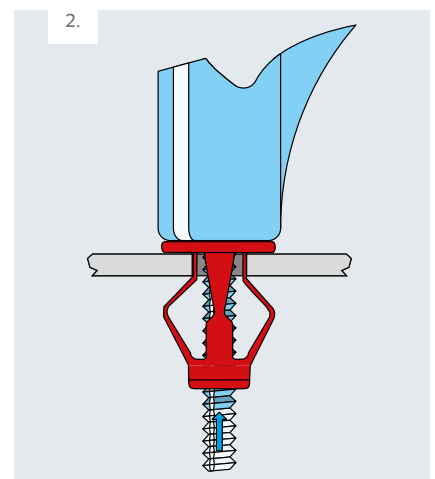
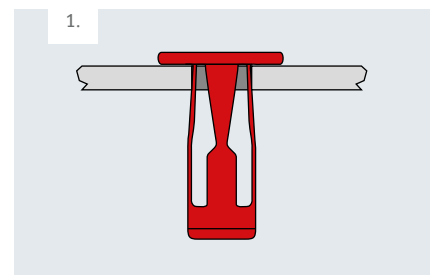
### Easy, rational and time-saving installation

1. Insert Jack Nut® blind rivet nuts into the drilled hole
2. Upset the Jack Nut® blind rivet nut
3. The Jack Nut® blind rivet nut is fastened
4. Screw on the part to be attached

To ensure that the Jack Nut® blind rivet nuts are perfectly installed, we recommend using the JNT2200 hand tool.

### Form of delivery

Threads: M4, M5, M6  
 Material: steel  
 (AISI 1008/1010)  
 Surface: 3 - 5 µm galvanised and passivated, Cr -6 free, RoHS-compliant



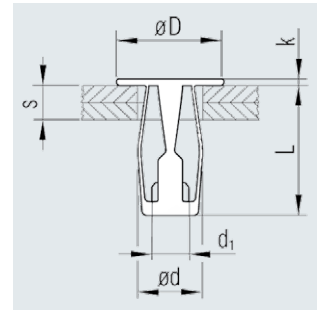
# Jack Nut® blind rivet nuts

## Standard head

### Material



Steel, galvanised



Thread size $d_1$	Grip range $s$ [mm]	Hole $\varnothing$ [mm]	Shank $\varnothing$ $d$ [mm]	Head $\varnothing$ $D$ [mm]	Head height $k$ [mm]	Shank length $L$ [mm]	Article No.
M4	0.4 - 4.8	8.4	7.8	11.9	1.9	14.6	331 140 000
	4.8 - 9.5	8.4	7.8	12.2	1.9	21.0	331 142 000
M5	0.4 - 4.8	10.1	9.6	13.5	1.9	16.0	331 150 000
	4.8 - 9.5	10.1	9.6	13.9	1.9	21.6	331 151 000
M6	0.4 - 4.8	11.4	11.1	15.9	1.9	16.3	331 160 000
	4.8 - 9.5	11.4	11.1	15.9	1.9	21.1	331 161 000

Other designs available on request.

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Fastening Technology / Threaded Inserts

# TIBOLT®

Blind Rivet Studs



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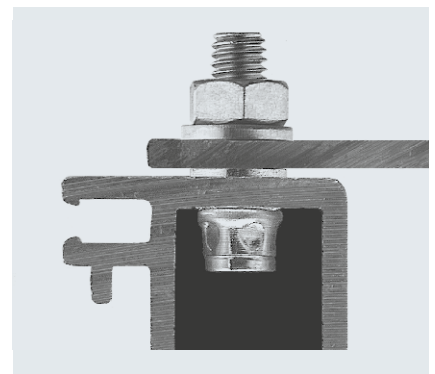
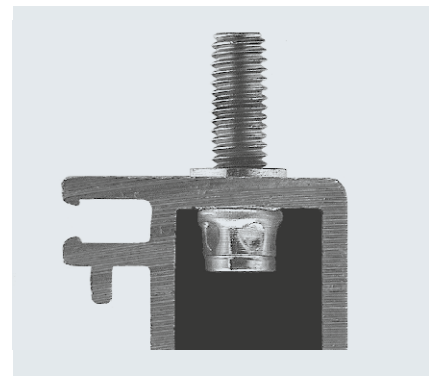
TIBOLT® blind rivet studs	Overview		4
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	Countersunk head	Steel, galvanised	7

# TIBOLT® blind rivet studs



TIBOLT® blind rivet studs are the alternative to weld studs or threaded self-clinching studs. The sleeve and stud are cold welded together. This welding process performs the double function of forming a twist-resistant joint between the two components while also holding the upset on the blind end of the rivet. Without this, the body that forms during the rivet installation process would drag the material away from the stud head. The welding process ensures that the blind rivet studs offer absolute stability and load-bearing capacity. The term 'absolute' here means that the stud, and not the rivet connection, gives way when overloaded. Upon installation, blind rivet studs can therefore be subjected to the same loads as same-quality DIN studs.

The TIBOLT® is installed from one side. This is both rational and time-saving, especially for components that are difficult or impossible to access from the blind side. Highly practical: as a result of this strong rivet installation process, it is also possible to fasten further sheet panels to the component. By attaching commercially available nuts, the protruding thread on the blind rivet stud will support any other installed fasteners. Blind rivet studs are supplied in 8.8 mating screw proof load quality. Their installation using hand lever or hydropneumatic installation tools is extremely easy, fast, and material-friendly. Surface-finished components can also be installed without being damaged. The same tools can be used as for blind rivet nuts, with only the threaded mandrels needing to be replaced with internal threaded mandrels.





## Benefits at a glance

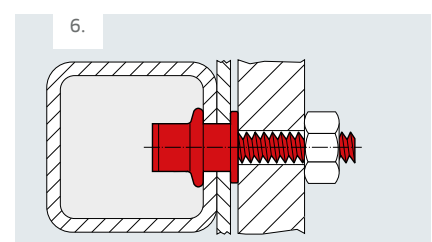
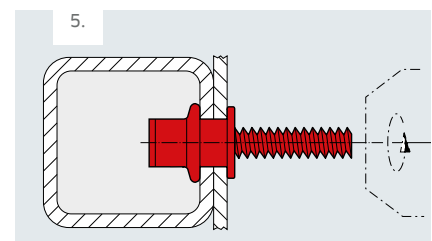
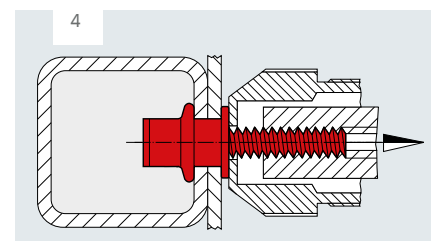
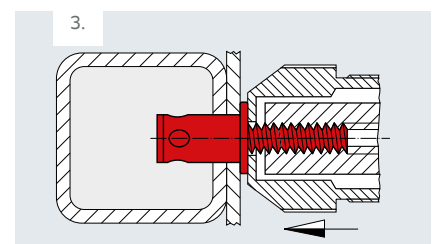
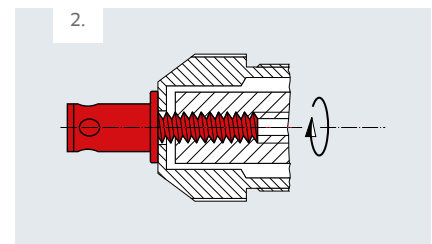
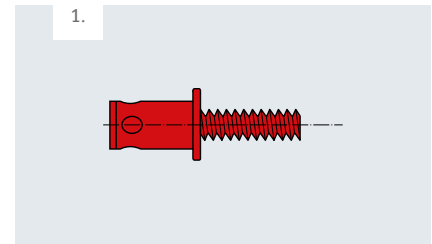
- One-sided access
- No thermal action on the base material, therefore no deforming or discolouring as occurs with welding, for example
- Replaces weld bolts or threaded self-clinching studs
- Enables the component to be pre-attached to the base component before fastening

## Easy, rational and time-saving installation

1. Prepare the drilled hole.
2. Screw the TIBOLT® into the internal threaded mandrel of the rivet installation tool.
3. Insert the TIBOLT® blind rivet stud into the drilled hole.
4. The rivet installation tool retracts the internal threaded mandrel and rivets the TIBOLT® axially to the component. Hold the rivet installation tool squarely to the component when performing the installation.
5. Spin off the internal threaded mandrel.
6. The TIBOLT® is now ready to be used to support additional fasteners. For best twist-proof results, the attached parts must rest very flush on the head of the TIBOLT® blind rivet stud.

## Form of delivery

Head type:	Flat or countersunk head
Threads:	M 4, M 5, M 6, M 8
Material	
Sleeve:	C4C steel
Material	
Stud:	1.5523 steel (property class 8.8)
Finish:	5 - 8 µm galvanised and passivated, Cr-6 free, RoHS-compliant

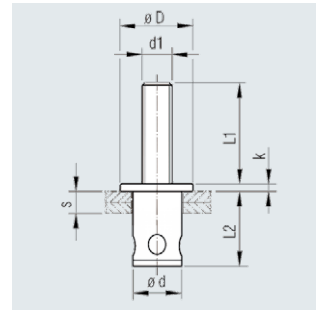


# TIBOLT® blind rivet studs

Flat head

Material

Steel, galvanised



Thread size d1	Grip range s [mm]	Hole ø [mm]	Thread length L1* [mm]	Shank ø d max [mm]	Head ø D [mm]	Head height k [mm]	Shank length L2 [mm]	Article No.
M4	0.2 - 1.8	5.5	8.0	5.4	8.0	0.5	8.0	332 402 000
			15.0	5.4	8.0	0.5	8.0	332 405 000
M5	0.2 - 1.8	6.6	10.0	6.5	9.0	0.75	9.0	332 503 000
			15.0	6.5	9.0	0.75	9.0	332 505 000
	2.0 - 3.3	6.6	10.0	6.5	9.0	0.75	10.5	332 513 000
M6	0.3 - 2.2	7.8	10.0	7.7	10.0	1.0	10.0	332 603 000
			15.0	7.7	10.0	1.0	10.0	332 605 000
			20.0	7.7	10.0	1.0	10.0	332 607 000
	2.5 - 3.8	7.8	10.0	7.7	10.0	1.0	11.5	332 613 000
			15.0	7.7	10.0	1.0	11.5	332 615 000
			20.0	7.7	10.0	1.0	11.5	332 617 000
			25.0	7.7	10.0	1.0	11.5	332 619 000
	4.0 - 5.8	7.8	10.0	7.7	10.0	1.0	13.5	332 623 000
			12.0	7.7	10.0	1.0	13.5	332 624 000
			15.0	7.7	10.0	1.0	13.5	332 625 000
M8	0.3 - 2.8	9.9	15.0	9.8	12.0	1.5	12.5	332 805 000
			20.0	9.8	12.0	1.5	12.5	332 807 000
			25.0	9.8	12.0	1.5	12.5	332 808 000
	3.0 - 4.8	9.9	15.0	9.8	12.0	1.5	15.0	332 815 000
			20.0	9.8	12.0	1.5	15.0	332 817 000
			25.0	9.8	12.0	1.5	15.0	332 819 000

\* L1= Dimensions will vary depending on the grip range and tool settings.

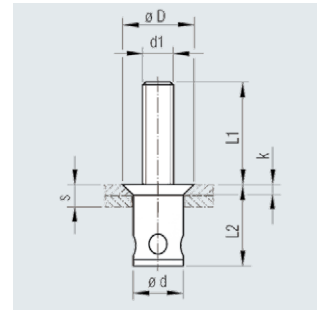
Further designs available on request.

# TIBOLT® blind rivet studs

## 90° countersunk head

### Material

Steel, galvanised



Thread size d1	Grip range s [mm]	Hole $\phi$ [mm]	Thread length L1* [mm]	Shank $\phi$ d max [mm]	Head $\phi$ D [mm]	Head height k [mm]	Shank length L2 [mm]	Article No.
M4	1.6 - 2.3	5.5	15.0	5.4	8.0	1.5	8.5	332 455 000
M5	1.5 - 2.8	6.6	10.0	6.5	9.0	1.4	10.0	332 553 000
			15.0	6.5	9.0	1.4	10.0	332 555 000
M6	1.5 - 3.2	7.8	10.0	7.7	10.0	1.3	11.0	332 653 000
			15.0	7.7	10.0	1.3	11.0	332 655 000
			20.0	7.7	10.0	1.3	11.0	332 657 000
M8	1.5 - 3.8	9.9	15.0	9.8	12.0	1.3	13.5	332 855 000
			20.0	9.8	12.0	1.3	13.5	332 857 000
	4.0 - 5.3	9.9	15.0	9.8	12.0	1.3	15.0	332 865 000
			20.0	9.8	12.0	1.3	15.0	332 867 000

\* L1= Dimensions will vary depending on the grip range and tool settings

When installing the countersunk head version, the drilled hole should only be countersunk deep enough so that the head of the TIBOLT® blind rivet studs protrudes approx. 0.1 mm above the surface.

Further designs available on request.

## About us

Titgemeyer Group is a leading fastening technology and transport technology group of companies with 15 sites across Europe. Steeped in tradition, the company develops, manufactures and sells more than 30,000 fastening elements, tools and vehicle components – in series and to customer specification.

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## ■ **pressti**<sup>®</sup> press-in fasteners



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Moreover, the user is obliged at all times to check each individual use and decide whether the components that we supply can be used as needed.

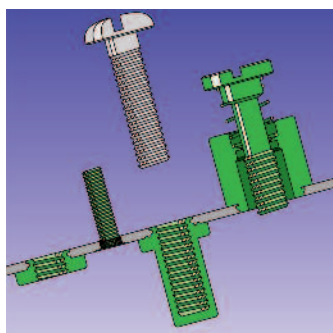
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# pressti®

## precise – secure – economical

Permanent, highly resilient fasteners for thin sheeting, plastic parts and electronic components (printed circuit boards). The cold forming process that occurs between the fastener and the sheeting results in a flush connection that ensures high pull-out and pull-through strengths. No refinishing work required; easy, economical and time-saving installation. Special installation equipment is required. The range includes a wide selection of press-in nuts/studs/bushings, stand-offs and special press-in elements.

### pressti® – At a glance

- Highly durable threads in thin sheeting
- High pull-out and pull-through strengths
- Suitable for automatic feeding, saving you significant installation costs
- Can also be installed on coated components
- No special prepping (countersinking or deburring) of the pre-drilled hole required
- Very accurate positioning, perfectly square to the sheet or panel
- RoHS-compatible



# Our pressti® range



**Press-in nuts for metals**



**Press-in studs for metals**



**Press-in bushings for metals**



**Press-in fasteners for printed circuit boards/  
plastics**



**Stand-offs for metals and plastics**



**Quick-release press-in fasteners and special  
press-in elements**

# Press-in nuts for metals



## Standard press-in nuts

TC series: galvanised steel TCS series: stainless steel  
 TCFSP series: AISI400 stainless steel  
 TCFSP2 series: A286 stainless steel  
 Thread: M2 – M12



## Standard press-in nuts

TCA series: aluminium  
 Thread: M2 – M6



## Press-in nuts – self-locking

TCPL series: galvanised steel  
 TCPLC series: stainless steel  
 Thread: M3 – M5



## Press-in nuts – self-locking

TCFE series: stainless steel  
 TCFO series: stainless steel  
 Thread: M3 – M6



## Press-in nuts – non-locking

TCFEX series: stainless steel  
 TCFOX series: stainless steel  
 Thread: M3 – M6



## Press-in nuts – flush-fitting on both sides

TCFL series: stainless steel  
 Thread: M2 – M6



## Press-in nuts – floating threads

TCFAS series: galvanised steel  
 TCFAC series: stainless steel  
 Thread: M3 – M6



## Press-in nuts – closed

TCFB series: galvanised steel  
 TCFBS series: stainless steel  
 Thread: M3 – M6



## Press-in nuts – hex-shaped head

TCKN series: galvanised steel  
 Thread: M2.5 – M20  
 Collar height: standard, medium, long

## Sheet hardness up to

HRB 50: TCA  
 HRB 70: TCS | TCPL | TCPLC | TCFE | TCFO | TCFEX  
 TCFOX | TCFL | TCFAS | TCFAC | TCFBS  
 HRB 80: TC | TCFB | TCKN  
 HRB 90: TCFSP | TCFSP2

# Press-in studs for metals



## Standard threaded press-in studs

TCHA series: aluminium  
TCH series: galvanised steel  
TCHS series: stainless steel  
TCHTS series: AISI400 stainless steel  
Thread: M2 – M8  
Length depends on thread size: 5–50 mm



## Threaded press-in studs for short edge distances

TCHE series: galvanised steel  
TCHES series: stainless steel  
Thread: M2.5 – M5  
Length depends on thread size: 6–30 mm



## Threaded press-in studs for high torque

THCH series: galvanised steel  
THCHS series: stainless steel  
Thread: M5 – M10  
Length depends on thread size: 10–50 mm



## Threaded press-in studs for high pull-through strength

THCW series: galvanised steel  
Thread: M5 – M8  
Length depends on thread size: 8–50 mm



## Threaded press-in studs for blind hole applications

TCFA-1 & TCFA-2 series: aluminium  
TCFC-1 & TCFC-2 series: stainless steel  
Thread: M3 – M5  
Length depends on thread size: 6–25 mm



## Press-in studs threadless, chamfered

TCG series: galvanised steel  
TCGS series: stainless steel  
Diameter: 3–6 mm  
Length depends on size: 6–20 mm

## Sheet hardness up to

HRB 50: TCHA | TCFA-1 | TCFA-2  
HRB 70: TCHS | TCHES | THCHS | TCFC-1 | TCFC-2  
TCGS  
HRB 80: TCH | TCHE | TCG  
HRB 85: THCH | THCW  
HRB 92: TCHTS

# Press-in bushings for metals



## Standard threaded press-in bushings – open

TCFSOA series: aluminium  
 TCFSO series: galvanised steel  
 #TCFSQS series: stainless steel  
 TCF4-SO series: AISI400 stainless steel  
 Thread: M2 – M5  
 Length depends on thread size: 3–25 mm



## Standard threaded press-in bushings – closed

TCFBSOA series: aluminium  
 TCFBSO series: galvanised steel  
 TCFBSOS series: stainless steel  
 TCF4-BSO series: AISI400 stainless steel  
 Thread: M2 – M5  
 Length depends on thread size: 5–25 mm



## Threaded press-in bushings – for better contact

TCFSOSG series: stainless steel  
 Thread: M3  
 Length depends on thread size: 3–12 mm



## Threaded press-in bushings open – for D-Sub connectors

TCF40 series: galvanised steel  
 TCF40S series: stainless steel  
 Thread: M3



## Threaded press-in bushings for blind hole applications

TCFHHS series: stainless steel  
 Thread: M3 – M6  
 Length depends on thread size: 4–20 mm

## Sheet hardness up to

HRB 50: TCFSOA | TCFBSOA  
 HRB 70: TCFSOS | TCFBSOS | TCFSOSG | TCF40S  
 TCFHS  
 HRB 80: TCFSO | TCFBSO | TCF40  
 HRB 88: TCF4-SO | TCF4-BSO

# Press-in fasteners for printed circuit boards/plastics



## Press-in nuts for printed circuit boards, fibre glass, acrylic

TCKF2 series: electro-tinned steel  
TCKFS2 series: stainless steel  
Thread: M2 – M5



## Threaded press-in studs

TCKFH series: phosphor bronze, electro-tinned  
Thread: M2.5 – M5  
Length depends on thread size: 6–15 mm



## Threaded press-in bushings

TCKFE series: electro-tinned steel  
TCKFSE series: stainless steel  
Thread: M2.5 – M4  
Length depends on thread size: 3–14 mm



## Press-in bushings

TCKFE series: electro-tinned steel  
TCKFSE series: stainless steel  
Diameter: 3.6 & 4.2 mm  
Length depends on size: 3–14 mm

## Sheet hardness up to

HRB 60: TCKF2 | TCKFS2 | TCKFE | TCKFH  
HRB 70: TCKFSE

# Stand-offs for metals and plastics



## Stand-offs for PC circuit boards or metals

TCFSSA series: aluminium  
TCFSSS series: galvanised steel  
TCFSSC series: stainless steel  
Diameter: 4 mm  
Length depends on size: 8–25 mm



## Stand-offs for metals

TCFSKC series: stainless steel  
Sheeting code: 61.5  
Length depends on size: 2–25 mm

### Sheet hardness up to

HRB 50: TCFSSA  
HRB 60: TCFSSS  
HRB 70: TCFSSC | TCFSKC

# Quick-release press-in fasteners and special press-in elements



## Quick-acting press-in screws

TCPFC2 series: stainless steel  
Thread: M3 – M6



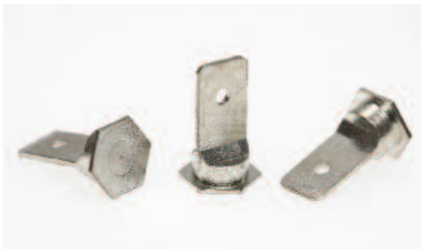
## Quick-acting low-profile press-in screws

TLPH 1–2 series: nickel-plated steel  
Thread: M3 – M6



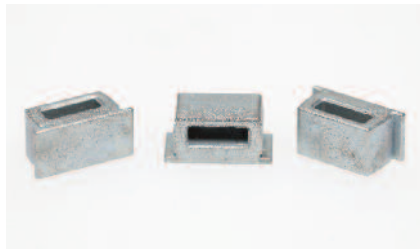
## Quick-acting press-in pin

TCPR series: galvanised steel  
Diameter code: 04  
Stud length: 4.0 mm



## Press-in earthing lug

THCT 6.3–14 series:  
electro tinned steel



## Press-in cable bushings

TTD40 series: galvanised steel\*  
TTD60 series: galvanised steel\*  
TTD175 series: galvanised steel\*

## Sheet hardness up to

HRB 60: TLPH 1–2  
HRB 70: TCPFC2  
HRB 80: TCPR, THCT 6,3–14

\* Auf Anfrage

# Our tools

## ■ LSC 6010 hydraulic assembly press

The LSC 6010 hydraulic assembly press is ideal for securely installing press-in fasteners. The high-quality components ensure that the assembly press always runs reliably and requires little maintenance. With a press-in force of 60 kN, every standard press-in fastener can be installed using this machine.

With its extensive range of accessories, the LSC 7010 incl. HA200 guarantees additional practical and economic means of working with metals, such as clinching, edging or chamfering.

### Benefits at a glance

- Continuously adjustable installation force setting
- Electronic and mechanical safety system
- The mechanical safety system makes the installation of non-conductive fasteners possible.
- Powered by standard mains supply (400V)
- Easy to use, quick retooling times
- Low maintenance and service
- Excellent price-to-performance ratio

### Article No. 463 300 000

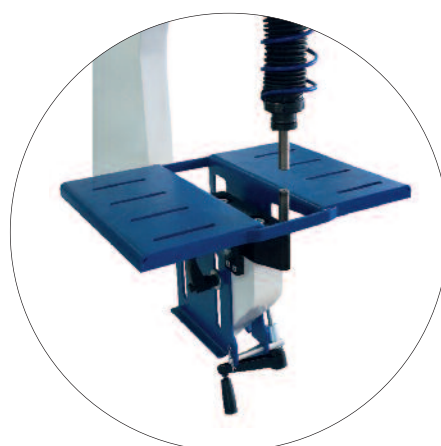
### Technical specifications

Height:	1950 mm
Width:	725 mm
Depth:	1040 mm
Weight:	450 kg
Max. press-in force:	60 kN
Protrusion:	420 mm
Operating stroke:	200 mm
Nominal voltage:	3/N/PE 400/230V AC
Rated frequency:	50 Hz
Rated current:	max. 4.0 A
Output:	1.5 kW
Cycle time:	2.5 to 5.2 sec. (depending on stroke)

### Accessories

Table, adjustable, for LSC 6010 / LSC 7010

### Article No. 463 300 026





## ■ LSC 7010 C-frame assembly press

### Technical specifications

Height:	1897 mm
Width:	812 mm
Depth:	1000 mm
Weight:	250 kg
Max. press-in force:	70 kN
Protrusion:	520 mm
Operating stroke:	130 mm

**Article No. 463 300 201**

## ■ HA 200 hydraulic unit

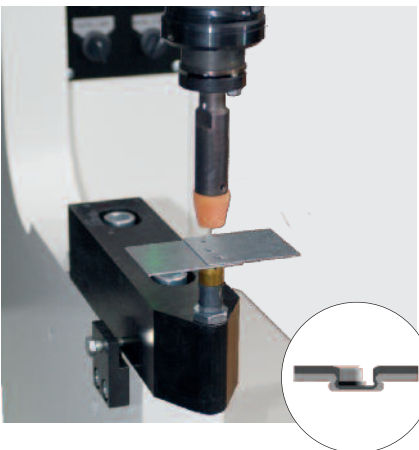
### Technical specifications

Height:	845 mm
Width:	515 mm
Depth:	670 mm
Weight:	110 kg
Max. pressure:	220 bar
Nominal voltage:	3/N/PE 400/230V AC
Rated frequency:	50 Hz
Rated current:	max. 4.0 A
Output:	1.5 kW

**Article No. 463 300 200**

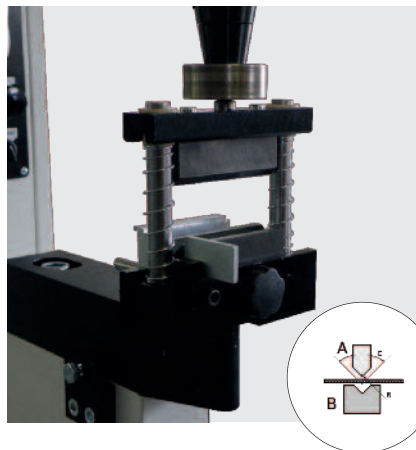


### Further possible uses for the LSC 7010:



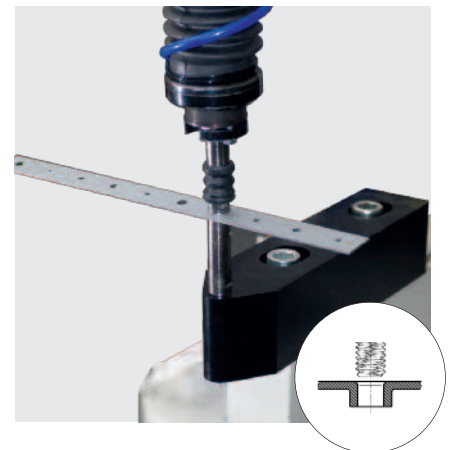
#### Clinching / Metal joining:

This method replaces the conventional spot welding of thin sheeting.



#### Bending / Chamfering:

This press makes light work of bending and chamfering thin sheeting up to a maximum width of 80 mm and a thickness of 2–3 mm depending on the material. It also comes fitted with side and end stops. Depending on the requirements, these can be set to 9–70 mm.

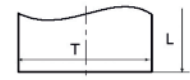


#### Edging:

This technology extends the surface when tapping thin sheeting with a thickness of 0.8–2 mm.

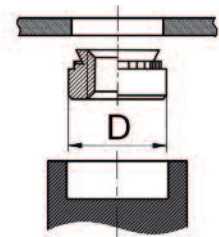
### pressti® die part

Size	T	L	Weight approx.	Description	Article No.
	[mm]	[mm]	[kg/item]		
Long	16	68	0.3	VI00001418	<b>463 300 001</b>
Short	16	34	0.3	VI00001417	<b>463 300 002</b>
Wide	50	32	0.4	VI00001666	<b>463 300 003</b>



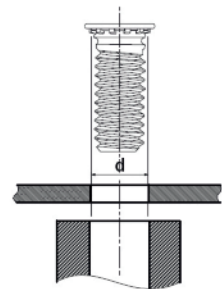
### pressti® template for press-in nuts

Thread	D	Weight approx.	Description	Article No.
	[mm]	[kg/item]		
M 2 / M 2,5 / M 3	6.3	0.3	VI00001426	<b>463 300 004</b>
M 4	7.9	0.3	VI00001428	<b>463 300 005</b>
M 5	8.7	0.3	VI00001429	<b>463 300 006</b>
M 6	11.05	0.3	VI00001430	<b>463 300 007</b>
M 8	12.65	0.3	VI00001431	<b>463 300 008</b>
M 10	17.35	0.3	VI00001432	<b>463 300 009</b>



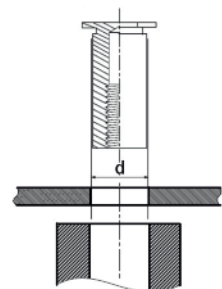
### pressti® template for press-in studs

Thread	D	Weight approx.	Description	Article No.
	[mm]	[kg/item]		
M 2.5	2.5	0.3	VI00001419	<b>463 300 010</b>
M 3	3.0	0.3	VI00001420	<b>463 300 011</b>
M 4	4.0	0.3	VI00001421	<b>463 300 012</b>
M 5	5.0	0.3	VI00001422	<b>463 300 013</b>
M 6	6.0	0.3	VI00001423	<b>463 300 014</b>
M 8	8.0	0.3	VI00001424	<b>463 300 015</b>
M 10	10.0	0.3	VI00001425	<b>463 300 016</b>



### pressti® template for press-in bushings

Thread	D	Weight approx.	Bezeichnung	Artikel-Nr.
	[mm]	[kg/item]		
M 2 – M 3	4.2	0.3	VI00001421	<b>463 300 012</b>
M 3	5.4	0.3	VI00001422	<b>463 300 013</b>
M 4 – M 5	7.2	0.3	VI00001441	<b>463 300 019</b>







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