

# ENGINEERING SUPPLIES

<u>Key Steel</u>	<u>348-349</u>
<u>Grease Nipple</u>	<u>350</u>
<u>Cotter/Split Pins</u>	<u>351-353</u>
<u>Hose Clamps</u>	<u>354-357</u>
<u>T-Bolt Clamps</u>	<u>358-359</u>



Ø x L	BLACK	304 STAINLESS	316 STAINLESS
1mm x 1mm	KS1X1	KS1X1SS	
3mm x 3mm	KS3X3		
4mm x 4mm	KS4X4	KS4X4SS	
5mm x 5mm	KS5X5	KS5X5SS	
6mm x 6mm	KS6X6	KS6X6SS	
7mm x 7mm	KS7X7		
8mm x 7mm	KS8X7	KS8X7SS	
8mm x 8mm	KS8X8	KS8X8SS	
10mm x 8mm	KS10X8	KS10X8SS	
10mm x 10mm	KS10X10	KS10X10SS	
12mm x 8mm	KS12X8	KS12X8SS	
12mm x 10mm	KS12X10	KS12X10SS	
12mm x 12mm	KS12X12	KS12X12SS	
14mm x 9mm	KS14X9	KS14X9SS	
14mm x 14mm	KS14X14	KS14X14SS	
15mm x 10mm	KS15X10		
15mm x 15mm	KS15X15		
16mm x 10mm	KS16X10	KS16X10SS	
16mm x 16mm	KS16X16	KS16X16SS	
18mm x 11mm	KS18X11	KS18X11SS	
18mm x 12mm	KS18X12		
18mm x 18mm	KS18X18		
20mm x 12mm	KS20X12	KS20X12SS	
20mm x 13mm	KS20X13		
20mm x 20mm	KS20X20		KS20X20SS
22mm x 14mm	KS22X14		
22mm x 22mm	KS22X22		
24mm x 16mm	KS24X16		
24mm x 24mm	KS24X24		
25mm x 14mm	KS25X14		
25mm x 25mm	KS25X25		KS25X25SS
28mm x 16mm	KS28X16		
28mm x 18mm	KS28X18		
32mm x 18mm	KS32X18		
32mm x 20mm	KS32X20		
36mm x 20mm	KS36X20		
40mm x 22mm	KS40X22		

\*300mm LONG

Ø x L	BLACK	304 STAINLESS	316 STAINLESS
1/8"X1/8"	KS1/8X1/8		
3/16"X3/16"	KS3/16X3/16	KS3/16X3/16SS	
1/4"X1/4"	KS1/4X1/4	KS1/4X1/4SS	
5/16"X5/16"	KS5/16X5/16	KS5/16X5/16SS	
3/8"X1/4"	KS3/8X1/4		
3/8"X5/16"	KS3/8X5/16		
3/8"X3/8"	KS3/8X3/8	KS3/8X3/8SS	
7/16"X7/16"	KS7/16X7/16		
1/2"X3/8"	KS1/2X3/8		
1/2"X1/2"	KS1/2X1/2	KS1/2X1/2SS	
9/16"X9/16"	KS9/16X9/16		
5/8"X1/2"	KS5/8X1/2		
5/8"X5/8"	KS5/8X5/8	KS5/8X5/8SS	
3/4"X3/4"	KS3/4X3/4	KS3/4X3/4SS	
7/8"X7/8"	KS7/8X7/8		KS7/8X7/8SS
1-1/8"X1-1/8"	KS1-1/8X1-1/8		
1-1/4"X1-1/4"	KS1-1/4X1-1/4		
1-3/8"X1-3/8"	KS1-3/8X1-3/8		
1-1/2"X1-1/2"	KS1-1/2X1-1/2		
1"x1"			KS1X1SS

\*300mm LONG





# GREASE NIPPLE

# SPLIT PIN



Ø	ANGLE	ZINC	304 STAINLESS	ZINC	304 STAINLESS
		METRIC		METRIC FINE	
6mm	35°	GN6X1-35			
6mm	45°	GN6X1-45	GN6X1-45SS		
6mm	90°	GN6X1-90	GN6X1-90SS		
6mm	ST	GN6X1-ST	GN6X1-STSS		

8mm	45°	GN8X1-45	GN8X1-45SS	GN8X1.25-45	GN8X1.25-45SS
8mm	67°			GN8X1.25-67	
8mm	90°	GN8X1-90	GN8X1-90SS	GN8X1.25-90	GN8X1.25-90SS
8mm	ST	GN8X1-ST	GN8X1-STSS	GN8X1.25-ST	GN8X1.25-STSS

10mm	45°	GN10X1-45	GN10X1-45SS	GN10X1.5-45	
10mm	90°	GN10X1-90	GN10X1-90SS	GN10X1.5-90	
10mm	ST	GN10X1-ST	GN10X1-STSS	GN10X1.5-ST	



Ø	ANGLE	ZINC	304 STAINLESS	ZINC	304 STAINLESS	ZINC
		UNF		BSP		BSF
1/8"	45°			GN1/8BSP45	GN1/8BSP45SS	
1/8"	67°			GN1/8BSP67		
1/8"	90°			GN1/8BSP90	GN1/8BSP90SS	
1/8"	ST			GN1/8BSPST	GN1/8BSPSTSS	

1/4"	45°	GN1/4UNF45	GN1/4UNF45SS	GN1/4BSP45	GN1/4BSP45SS	
1/4"	67°	GN1/4UNF67				GN1/4BSF67
1/4"	90°	GN1/4UNF90	GN1/4UNF90SS	GN1/4BSP90	GN1/4BSP90SS	GN1/4BSF90
1/4"	ST	GN1/4UNFST	GN1/4UNFSTSS	GN1/4BSPST	GN1/4BSPSTSS	GN1/4BSFST

5/16"	45°	GN5/16UNF45				
5/16"	67°					
5/16"	90°	GN5/16UNF90				GN5/16BSF90
5/16"	ST	GN5/16UNFST				GN5/16BSFST



Ø	LENGTH	ZINC	304 STAINLESS
		METRIC	
1mm	12mm		SP1X12A2
1mm	16mm		SP1X16A2
1mm	20mm		SP1X20A2

1.2mm	12mm		SP1.2X12A2
1.2mm	20mm		SP1.2X20A2

1.6mm	12mm		SP1.6X12A2
1.6mm	16mm		SP1.6X16A2
1.6mm	20mm	SP1.6X20Z	SP1.6X20A2
1.6mm	25mm	SP1.6X25Z	SP1.6X25A2
1.6mm	32mm	SP1.6X32Z	SP1.6X32A2
1.6mm	36mm		SP1.6X36A2
1.6mm	40mm	SP1.6X40Z	SP1.6X40A2
1.6mm	50mm	SP1.6X50Z	

2mm	12mm		SP2X12A2
2mm	16mm		SP2X16A2
2mm	20mm	SP2.0X20Z	SP2X20A2
2mm	25mm	SP2.0X25Z	SP2X25A2
2mm	32mm	SP2.0X32Z	SP2X32A2
2mm	36mm		SP2X36A2
2mm	40mm	SP2.0X40Z	SP2X40A2
2mm	45mm	SP2.0X45Z	
2mm	50mm	SP2.0X50Z	SP2X50A2

2.5mm	12mm		SP2.5X12A2
2.5mm	16mm		SP2.5X16A2
2.5mm	20mm	SP2.5X20Z	SP2.5X20A2
2.5mm	25mm	SP2.5X25Z	SP2.5X25A2
2.5mm	32mm	SP2.5X32Z	SP2.5X32A2
2.5mm	40mm	SP2.5X40Z	SP2.5X40A2
2.5mm	45mm	SP2.5X45Z	
2.5mm	50mm	SP2.5X50Z	SP2.5X50A2
2.5mm	63mm	SP2.5X63Z	

2.8mm	50mm	SP2.8X50Z	
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Ø	LENGTH	ZINC	304 STAINLESS
3.2mm	10mm		SP3.2X10A2
3.2mm	12mm		SP3.2X12A2
3.2mm	16mm		SP3.2X16A2
3.2mm	20mm	SP3.2X20Z	SP3.2X20A2
3.2mm	25mm	SP3.2X25Z	SP3.2X25A2
3.2mm	32mm	SP3.2X32Z	SP3.2X32A2
3.2mm	40mm	SP3.2X40Z	SP3.2X40A2
3.2mm	45mm	SP3.2X45Z	SP3.2X45A2
3.2mm	50mm	SP3.2X50Z	SP3.2X50A2
3.2mm	63mm	SP3.2X63Z	SP3.2X63A2
3.2mm	80mm	SP3.2X80Z	

3.6mm	50mm	SP3.6X50Z	
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4mm	16mm		SP4X16A2
4mm	20mm	SP4.0X20Z	SP4X20A2
4mm	25mm	SP4.0X25Z	SP4X25A2
4mm	32mm	SP4.0X32Z	SP4X32A2
4mm	40mm	SP4.0X40Z	SP4X40A2
4mm	45mm	SP4.0X45Z	SP4X45A2
4mm	50mm	SP4.0X50Z	SP4X50A2
4mm	63mm	SP4.0X63Z	SP4X63A2
4mm	80mm	SP4.0X80Z	SP4X80A2
4mm	90mm		SP4X90A2

5mm	16mm		SP5X16A2
5mm	20mm		SP5X20A2
5mm	25mm	SP5.0X25Z	SP5X25A2
5mm	32mm	SP5.0X32Z	SP5X32A2
5mm	36mm		SP5X36A2
5mm	40mm	SP5.0X40Z	SP5X40A2
5mm	45mm		SP5X45A2
5mm	50mm	SP5.0X50Z	SP5X50A2
5mm	63mm	SP5.0X63Z	SP5X63A2
5mm	71mm		SP5X71A2
5mm	80mm	SP5.0X80Z	SP5X80A2
5mm	100mm		SP5X100A2

Ø	LENGTH	ZINC	304 STAINLESS
6.3mm	25mm		SP6.3X25A2
6.3mm	32mm		SP6.3X32A2
6.3mm	40mm	SP6.3X40Z	SP6.3X40A2
6.3mm	50mm	SP6.3X50Z	SP6.3X50A2
6.3mm	63mm	SP6.3X63Z	SP6.3X63A2
6.3mm	80mm	SP6.3X80Z	SP6.3X80A2
6.3mm	100mm	SP6.3X100Z	SP6.3X100A2

8mm	50mm	SP8.0X50Z	SP8X50A2
8mm	63mm	SP8.0X63Z	SP8X63A2
8mm	80mm	SP8.0X80Z	SP8X80A2
8mm	100mm	SP8.0X100Z	SP8X100A2

10mm	63mm	SP10X63Z	
10mm	80mm	SP10X80Z	
10mm	100mm	SP10X100Z	
10mm	150mm	SP10X150Z	

13mm	80mm	SP13X80Z	
13mm	100mm	SP13X100Z	





S/S PERFORATED BAND ZP SCREW	
SIZE RANGE	CODE
17-38mm	HACH-HS016P
11-25mm	HACH-HS008P
115-164mm	HACH-HS096P
14-27mm	HACH-HS010P
14-32mm	HACH-HS012P
19-44mm	HACH-HS020P
27-51mm	HACH-HS024P
33-57mm	HACH-HS028P
40-64mm	HACH-HS032P
46-70mm	HACH-HS036P
52-76mm	HACH-HS040P
59-83mm	HACH-HS044P
65-89mm	HACH-HS048P
71-95mm	HACH-HS052P
78-102mm	HACH-HS056P
84-108mm	HACH-HS060P
9.5-22mm	HACH-HS006P
90-114mm	HACH-HS064P
103-127mm	HACH-HS072P
106-152mm	HACH-HS088P
117-140mm	HACH-HS080P
125-146mm	HACH-HS084P
133-170mm	HACH-HS104P
6-16mm	HACH-MH004P
11-18mm	HACH-MH005P
8-22mm	HACH-MH006P
11-25mm	HACH-MH008P
13-27mm	HACH-MH010P
14-32mm	HACH-MH012P

S/S 301 PERFORATED BAND S/S 305 SCREW			
SIZE RANGE	CODE	SIZE RANGE	CODE
6-16mm	HACH-MAH004P	46-70mm	HACH-HAS036P
11-18mm	HACH-MAH005P	52-76mm	HACH-HAS040P
11-22mm	HACH-MAH006P	59-83mm	HACH-HAS044P
13-25mm	HACH-MAH008P	65-89mm	HACH-HAS048P
13-27mm	HACH-MAH010P	71-95mm	HACH-HAS052P
14-32mm	HACH-MAH012P	78-102mm	HACH-HAS056P
18-38mm	HACH-MAH016P	84-108mm	HACH-HAS060P
22-45mm	HACH-MAH020P	90-114mm	HACH-HAS064P
33-51mm	HACH-MAH024P	103-127mm	HACH-HAS072P
40-57mm	HACH-MAH028P	106-152mm	HACH-HAS088P
59-76mm	HACH-MAH040P	115-164mm	HACH-HAS096P
52-70mm	HACH-MAH036P	117-140mm	HACH-HAS080P
46-64mm	HACH-MAH032P	125-146mm	HACH-HAS084P
11-22mm	HACH-HAS006P	133-170mm	HACH-HAS104P
11-25mm	HACH-HAS008P	146-197mm	HACH-HAS116
14-27mm	HACH-HAS010P	175-217mm	HACH-HAS128
14-32mm	HACH-HAS012P	181-225mm	HACH-HAS136
19-44mm	HACH-HAS020P	206-251mm	HACH-HAS152B
21-38mm	HACH-HAS016P	222-273mm	HACH-HAS164
27-51mm	HACH-HAS024P	260-311mm	HACH-HAS188B
33-57mm	HACH-HAS028P	298-349mm	HACH-HAS212
40-64mm	HACH-HAS032P		





### S/S 316 PERFORATED BAND S/S 316 SCREW

SIZE RANGE	CODE
40-64mm	HACH-H316-032P
46-70mm	HACH-H316-036P
59-83mm	HACH-H316-044P
65-89mm	HACH-H316-048P
71-95mm	HACH-H316-052
90-114mm	HACH-H316-064P
133-178mm	HACH-H316-104P



### S/S 430 SOLID BAND ZP SCREW

SIZE RANGE	CODE
14-27mm	HACH-SHS010P
18-32mm	HACH-SHS012P
21-38mm	HACH-SHS016P
24-44mm	HACH-SHS020P
27-51mm	HACH-SHS024P
33-57mm	HACH-SHS028P
40-64mm	HACH-SHS032P
46-70mm	HACH-SHS036P

### SMPC 9.5-12MM SS NON-PERFORATED BAND (BLUE)

SIZE RANGE	CODE
9.5-12mm	HAHC-SMPC000P
11-16mm	HAHC-SMPCM00P
13-20mm	HAHC-SMPC00P
16-24mm	HAHC-SMPC0AP
16-27mm	HAHC-SMPC0P
22-32mm	HAHC-SMPC1AP
22-38mm	HAHC-SMPC1P
30-42mm	HAHC-SMPC1XP
35-48mm	HAHC-SMPC2AP
35-53mm	HAHC-SMPC2P
40-57mm	HAHC-SMPC2XP
52-70mm	HAHC-SMPC3P
65-90mm	HAHC-SMPC4P
85-110mm	HAHC-SMPC5P
105-130mm	HAHC-SMPC6P
130-155mm	HAHC-SMPC7P
155-180mm	HAHC-SMPC8P
180-205mm	HAHC-SMPC9P
255-280mm	HAHC-SMPC12P





T-BOLT CLAMP STAINLESS BAND ZP BOLT			
SIZE RANGE	CODE	SIZE RANGE	CODE
17-19mm	HAHC-TTBY17-19P	74-79mm	HAHC-TTBY74-79P
18-20mm	HAHC-TTBY18-20P	77-82mm	HAHC-TTBY77-82P
20-22mm	HAHC-TTBY20-22P	80-85mm	HAHC-TTBY80-85P
21-23mm	HAHC-TTBY21-23P	83-88mm	HAHC-TTBY83-88P
23-25mm	HAHC-TTBY23-25P	86-91mm	HAHC-TTBY86-91P
24-26mm	HAHC-TTBY24-26P	89-94mm	HAHC-TTBY89-94P
26-28mm	HAHC-TTBY26-28P	92-97mm	HAHC-TTBY92-97P
27-29mm	HAHC-TTBY27-29P	95-100mm	HAHC-TTBY95-100P
29-31mm	HAHC-TTBY29-31P	98-103mm	HAHC-TTBY98-103P
30-33mm	HAHC-TTBY30-33P	101-107mm	HAHC-TTBY101-107P
32-35mm	HAHC-TTBY32-35P	104-112mm	HAHC-TTBY104-112P
34-37mm	HAHC-TTBY34-37P	108-116mm	HAHC-TTBY108-116P
36-39mm	HAHC-TTBY36-39P	113-121mm	HAHC-TTBY113-121P
38-41mm	HAHC-TTBY38-41P	117-125mm	HAHC-TTBY117-125P
40-43mm	HAHC-TTBY40-43P	122-130mm	HAHC-TTBY122-130P
42-45mm	HAHC-TTBY42-45P	126-134mm	HAHC-TTBY126-134P
44-47mm	HAHC-TTBY44-47P	131-139mm	HAHC-TTBY131-139P
46-49mm	HAHC-TTBY46-49P	140-148mm	HAHC-TTBY140-148P
48-51mm	HAHC-TTBY48-51P	149-161mm	HAHC-TTBY149-161P
50-53mm	HAHC-TTBY50-53P	162-174mm	HAHC-TTBY162-174P
52-55mm	HAHC-TTBY52-55P	175-187mm	HAHC-TTBY175-187P
54-57mm	HAHC-TTBY54-57P	188-200mm	HAHC-TTBY188-200P
56-59mm	HAHC-TTBY56-59P	201-213mm	HAHC-TTBY201-213P
58-61mm	HAHC-TTBY58-61P	214-226mm	HAHC-TTBY214-226P
60-63mm	HAHC-TTBY60-63P	227-239mm	HAHC-TTBY227-239P
62-65mm	HAHC-TTBY62-65P	240-252mm	HAHC-TTBY240-252P
64-67mm	HAHC-TTBY64-67P	266-248mm	HAHC-TTBY266-278P
66-70mm	HAHC-TTBY66-70P	279-291mm	HAHC-TTBY279-291P
68-73mm	HAHC-TTBY68-73P	292-304mm	HAHC-TTBY292-304P
71-76mm	HAHC-TTBY71-76P		

T-BOLT CLAMP STAINLESS BAND STAINLESS BOLT			
SIZE RANGE	CODE	SIZE RANGE	CODE
17-19mm	HAHC-TTBS17-19P	74-79mm	HAHC-TTBS74-79P
18-20mm	HAHC-TTBS18-20P	77-82mm	HAHC-TTBS77-82P
20-21mm	HAHC-TTBS20-22P	80-85mm	HAHC-TTBS80-85P
21-23mm	HAHC-TTBS21-23P	83-88mm	HAHC-TTBS83-88P
23-25mm	HAHC-TTBS23-25P	86-91mm	HAHC-TTBS86-91P
24-26mm	HAHC-TTBS24-26P	89-94mm	HAHC-TTBS89-94P
26-28mm	HAHC-TTBS26-28P	92-97mm	HAHC-TTBS92-97P
27-29mm	HAHC-TTBS27-29P	95-100mm	HAHC-TTBS95-100P
29-31mm	HAHC-TTBS29-31P	98-103mm	HAHC-TTBS98-103P
30-33mm	HAHC-TTBS30-33P	101-107mm	HAHC-TTBS101-107P
32-35mm	HAHC-TTBS32-35P	104-112mm	HAHC-TTBS104-112P
34-37mm	HAHC-TTBS34-37P	113-121mm	HAHC-TTBS113-121P
36-39mm	HAHC-TTBS36-39P	117-125mm	HAHC-TTBS117-125P
38-41mm	HAHC-TTBS38-41P	126-134mm	HAHC-TTBS126-134P
40-43mm	HAHC-TTBS40-43P	122-130mm	HAHC-TTBS122-130P
42-45mm	HAHC-TTBS42-45P	131-139mm	HAHC-TTBS131-139P
44-47mm	HAHC-TTBS44-47P	140-148mm	HAHC-TTBS140-148P
46-49mm	HAHC-TTBS46-49P	149-161mm	HAHC-TTBS149-161P
48-51mm	HAHC-TTBS48-51P	162-174mm	HAHC-TTBS162-174P
50-53mm	HAHC-TTBS50-53P	175-187mm	HAHC-TTBS175-187P
52-55mm	HAHC-TTBS52-55P	188-200mm	HAHC-TTBS188-200P
54-57mm	HAHC-TTBS54-57P	201-213mm	HAHC-TTBS201-213P
56-59mm	HAHC-TTBS56-59P	227-239mm	HAHC-TTBS227-239P
58-61mm	HAHC-TTBS58-61P	240-252mm	HAHC-TTBS240-252P
60-63mm	HAHC-TTBS60-63P	253-265mm	HAHC-TTBS253-265P
62-65mm	HAHC-TTBS62-65P	266-278mm	HAHC-TTBS266-278P
64-67mm	HAHC-TTBS64-67P	292-304mm	HAHC-TTBS292-304P
66-70mm	HAHC-TTBS66-70P	279-291mm	HAHC-TTBS279-291P
68-73mm	HAHC-TTBS68-73P	214-226mm	HAHC-TTBS214-226P
71-76mm	HAHC-TTBS71-76P		

