

GABARITO PARA IMPRESSÃO

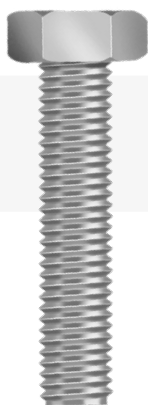
ESCALA 1-1 PRODUTOS



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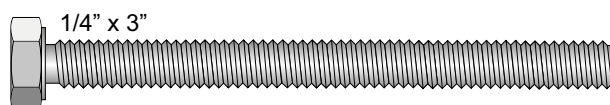
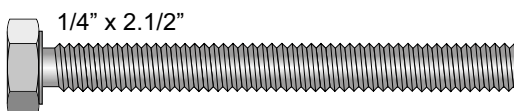
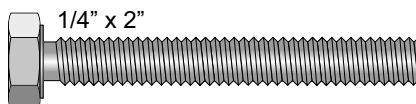
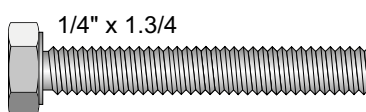
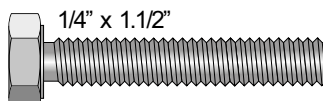
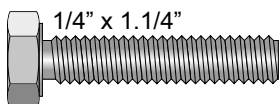
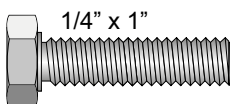
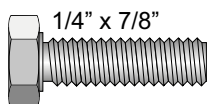
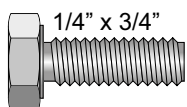
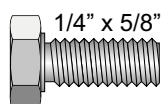
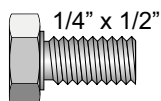
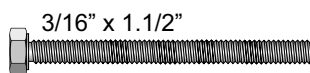
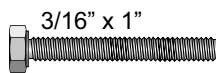
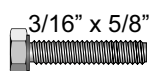
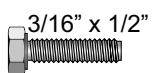
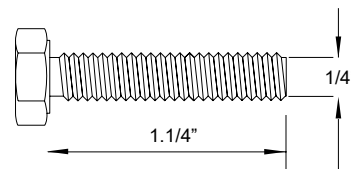
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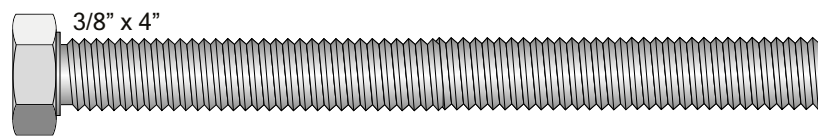
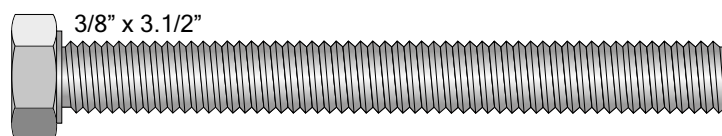
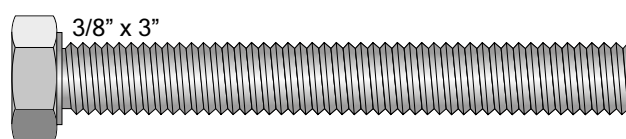
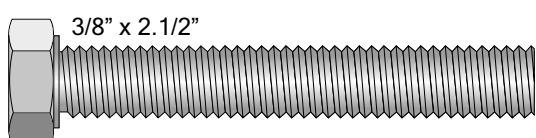
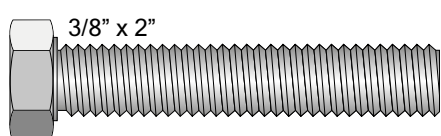
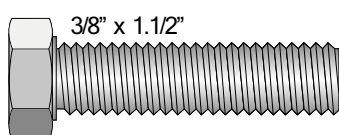
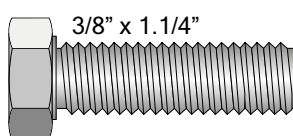
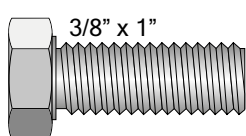
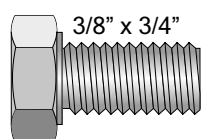
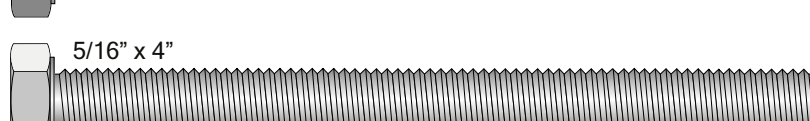
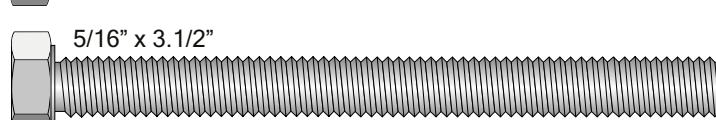
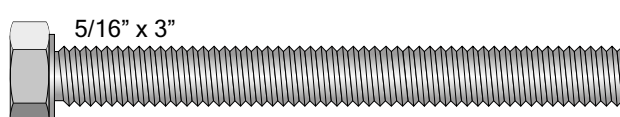
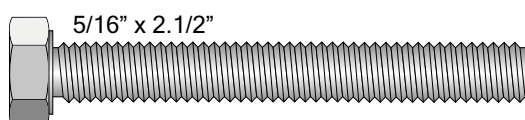
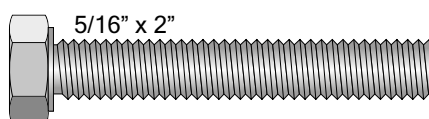
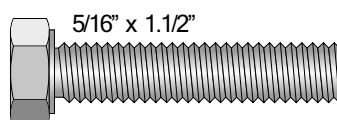
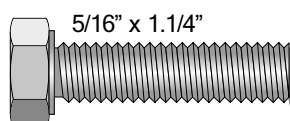
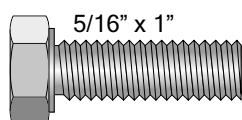
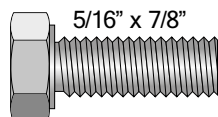
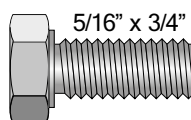
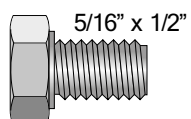
PARAFUSO SEXTAVADO ROSCA INTEIRA - UNC



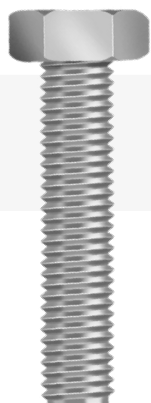
APLICAÇÕES

São os mais utilizados em máquinas e equipamentos industriais, veículos, móveis de aço e outras aplicações diversas.



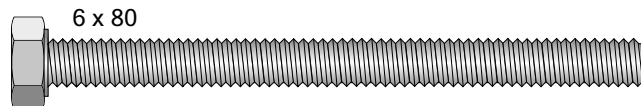
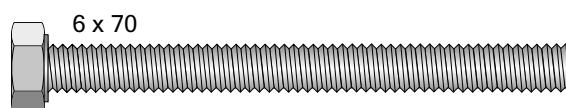
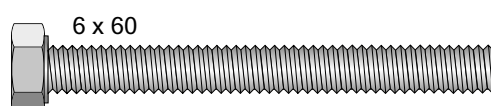
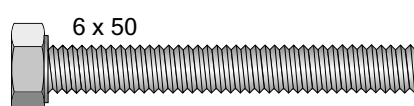
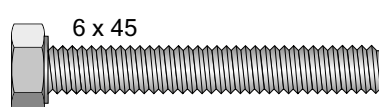
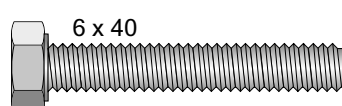
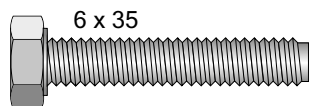
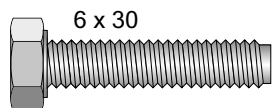
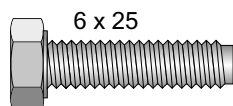
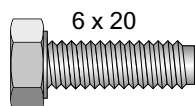
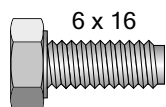
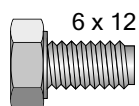
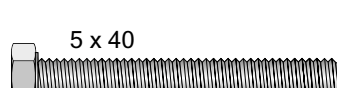
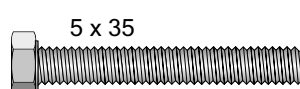
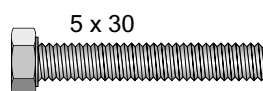
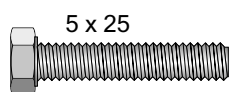
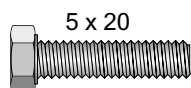
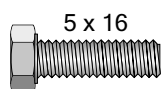
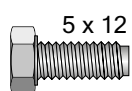
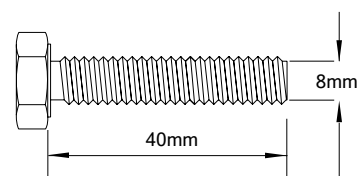


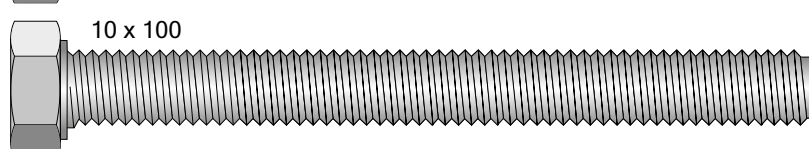
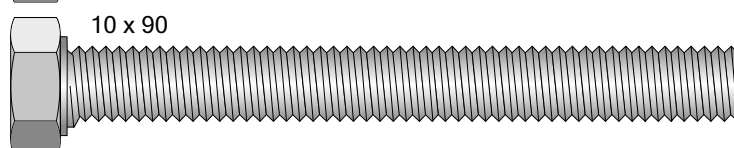
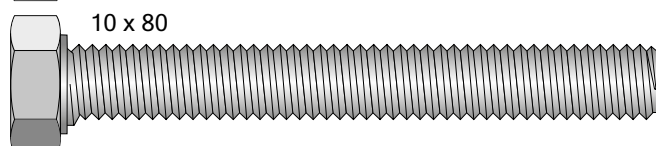
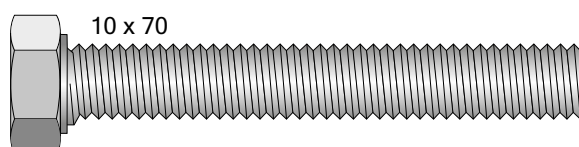
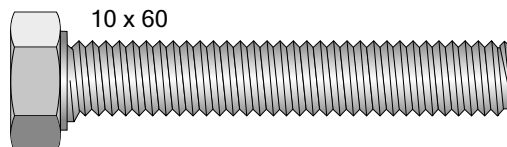
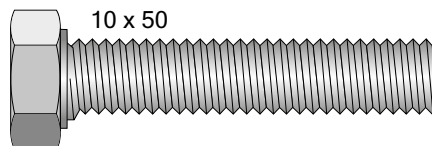
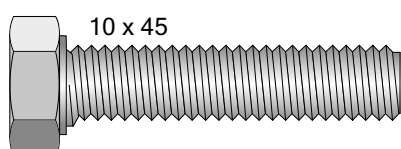
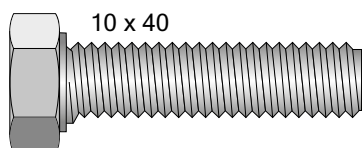
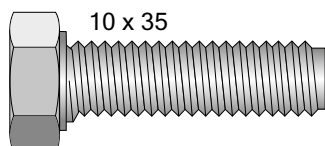
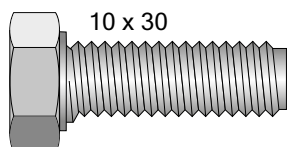
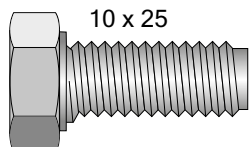
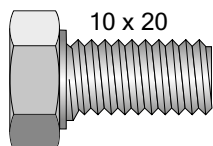
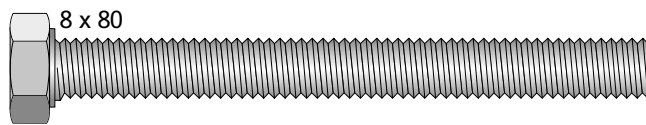
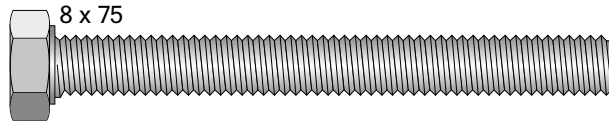
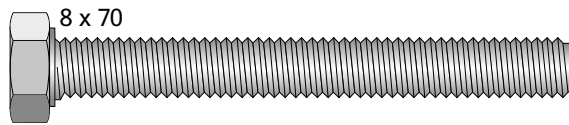
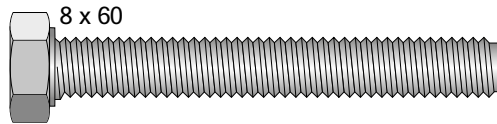
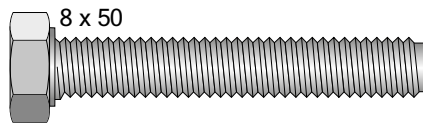
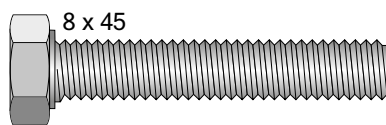
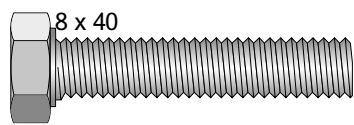
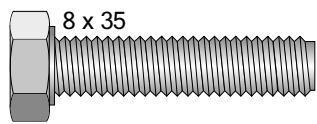
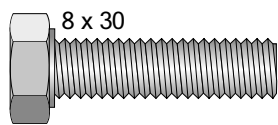
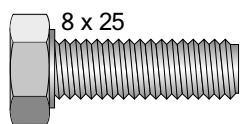
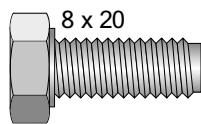
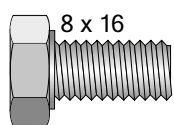
PARAFUSO SEXTAVADO ROSCA INTEIRA - MA



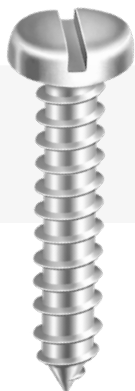
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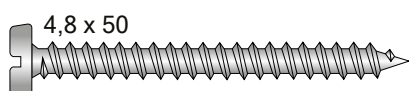
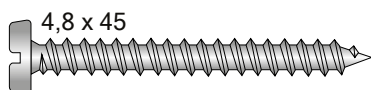
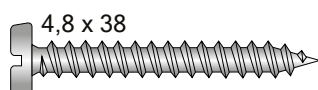
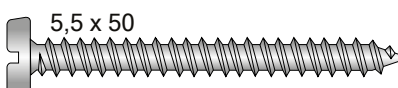
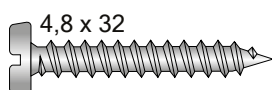
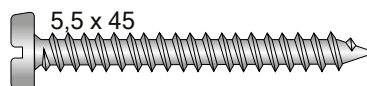
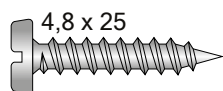
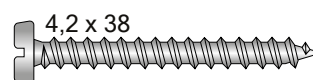
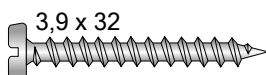
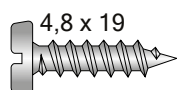
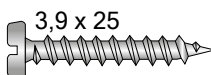
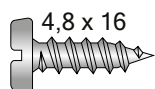
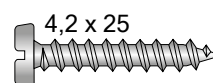
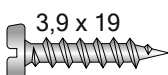
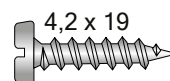
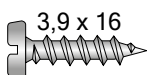
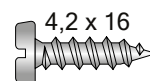
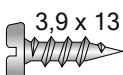
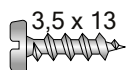
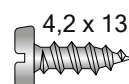
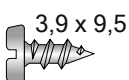
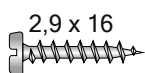
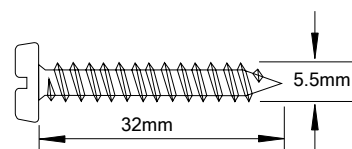


PARAFUSO AUTO ATARRAXANTE CABEÇA PANELA - FENDA SIMPLES



APLICAÇÕES

Muito utilizados com buchas de nylon para fixação de acessórios e diversos objetos em paredes de alvenaria e concreto. Também utilizados em móveis tubulares e equipamentos fabricados com chapas metálicas finas.



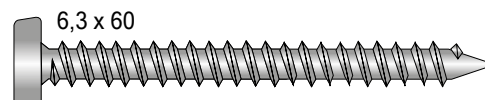
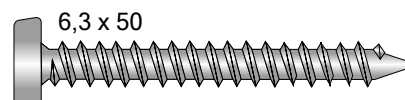
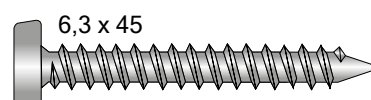
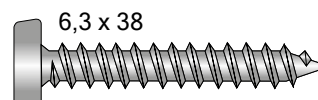
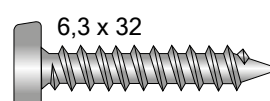
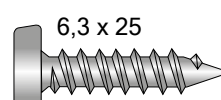
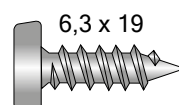
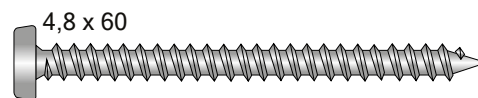
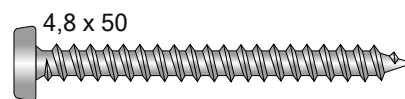
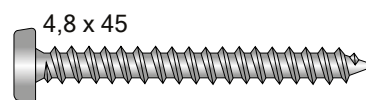
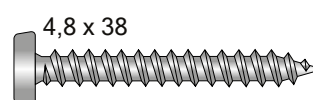
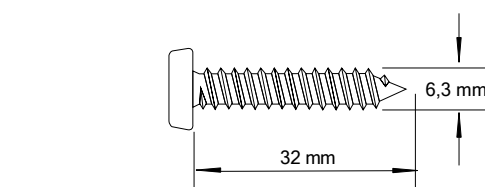
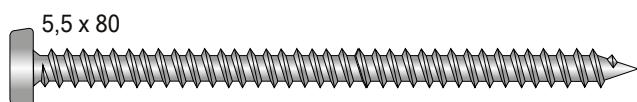
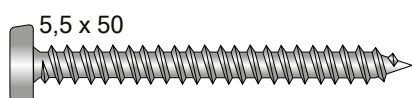
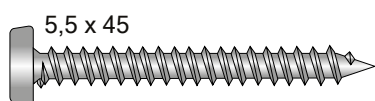
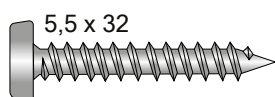
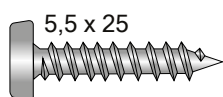
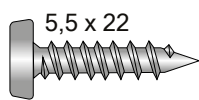
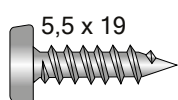
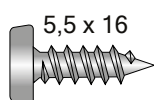
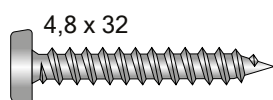
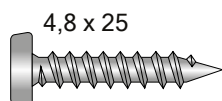
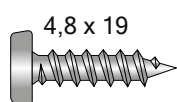
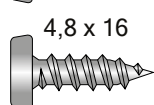
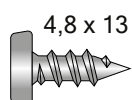
PARAFUSO AUTO ATARRAXANTE - FENDA PHILLIPS

INOX
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APLICAÇÕES

Utilizados para a fixação de chapas metálicas na fabricação de equipamentos em geral. Também, são usados com buchas de expansão em paredes de alvenarias e concreto.

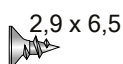
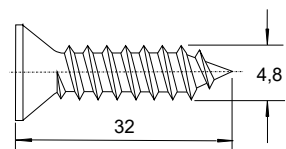


PARAFUSO AUTO ATARRAXANTE CABEÇA CHATA - FENDA PHILLIPS

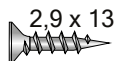


APLICAÇÕES

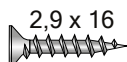
Utilizados para fixação de chapas metálicas na fabricação de equipamentos em geral. Também são usados com buchas de expansão em paredes de alvenaria e concreto.



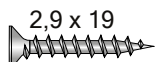
2,9 x 6,5



2,9 x 13



2,9 x 16



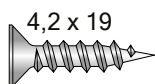
2,9 x 19



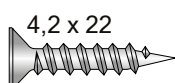
4,2 x 13



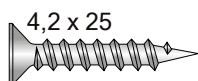
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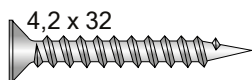
4,2 x 19



4,2 x 22



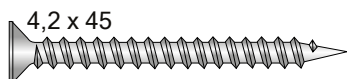
4,2 x 25



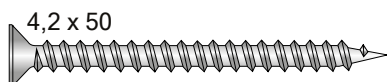
4,2 x 32



4,2 x 38



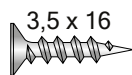
4,2 x 45



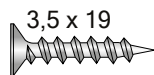
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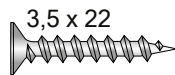
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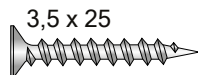
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3,5 x 19



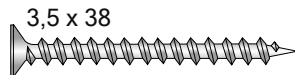
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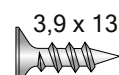
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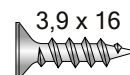
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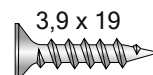
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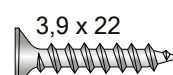
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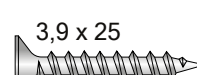
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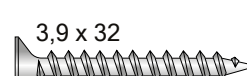
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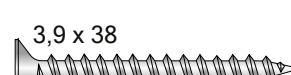
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3,9 x 25

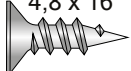


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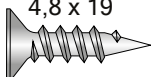


3,9 x 38

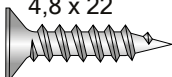
4,8 x 16



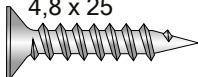
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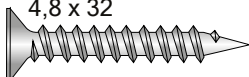
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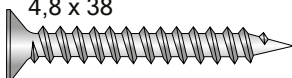
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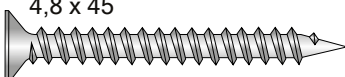
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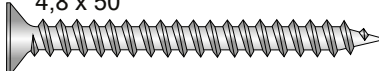
4,8 x 38



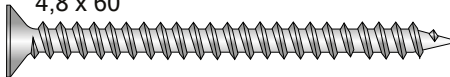
4,8 x 45



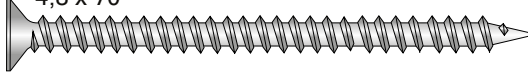
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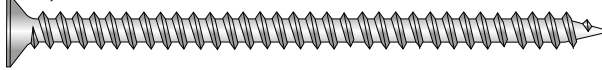
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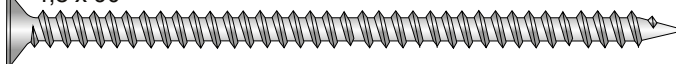
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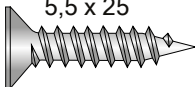
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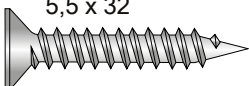
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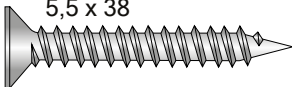
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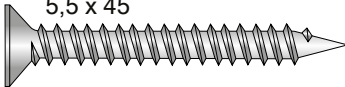
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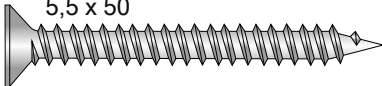
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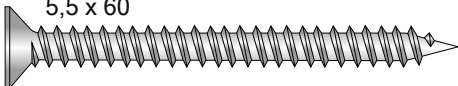
5,5 x 45



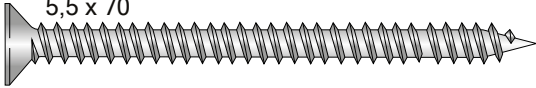
5,5 x 50



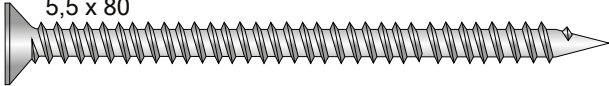
5,5 x 60



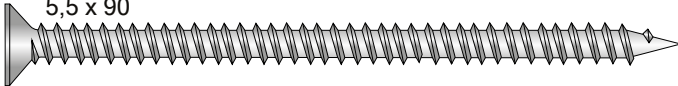
5,5 x 70



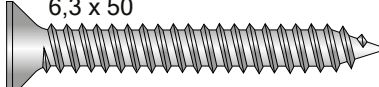
5,5 x 80



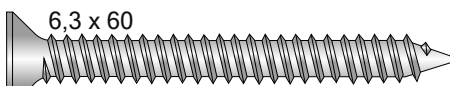
5,5 x 90



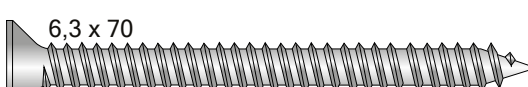
6,3 x 50



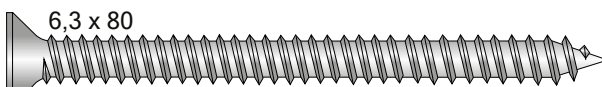
6,3 x 60



6,3 x 70



6,3 x 80

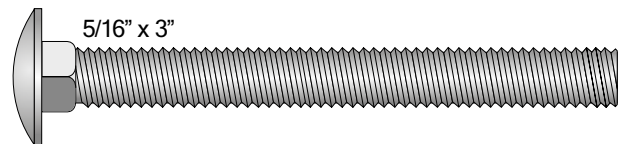
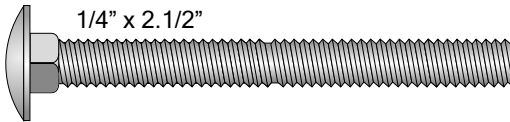
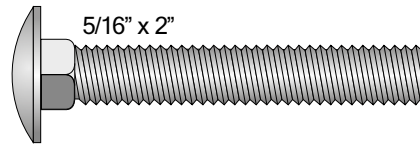
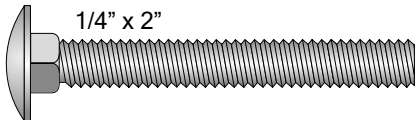
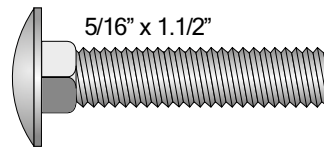
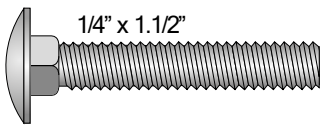
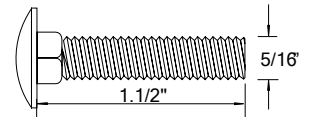


PARAFUSO FRANCÊS SEM PORCA



APLICAÇÕES

Utilizados para a fixação em esteira de tratores diversos. Nota: São conhecidos como parafusos esteira Caterpillar. Utilizados com porca quadrada para esteira (linha 634).

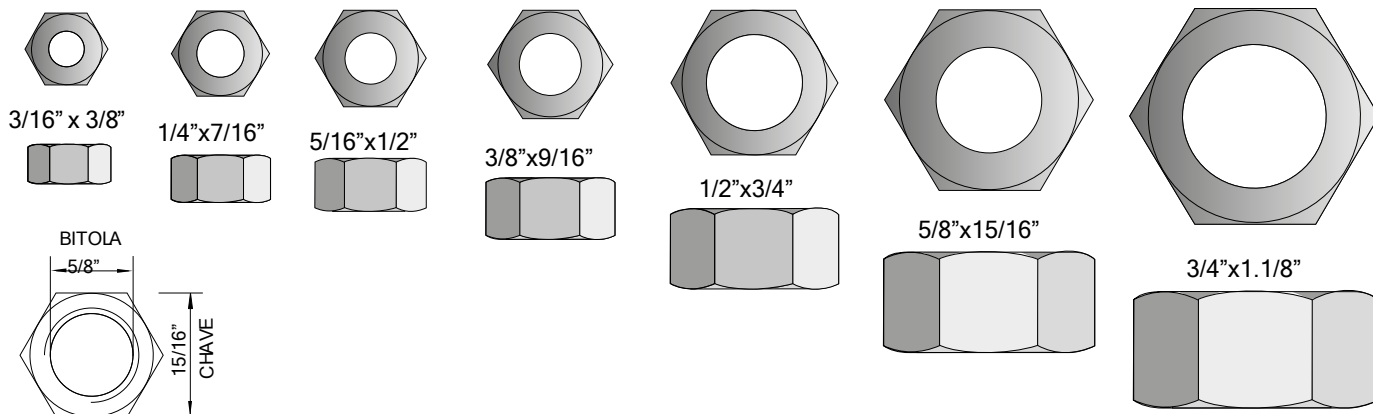


PORCA SEXTAVADA - UNC

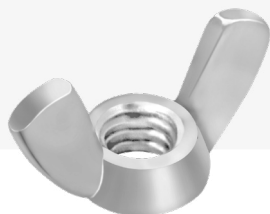


APLICAÇÕES

Possuem diversas aplicações em conjunto com os parafusos franceses, sextavados, hastes e barras roscadas, ou em qualquer outro tipo de fixador, desde que a rosca e a resistência sejam compatíveis.

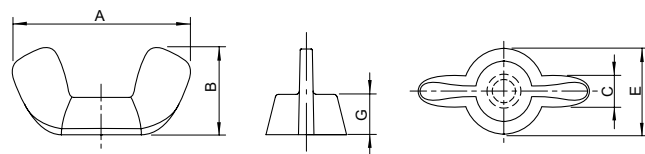


PORCA BORBOLETA UNC / MA

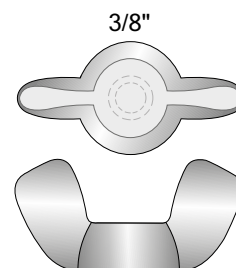
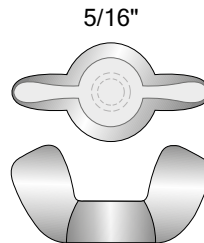
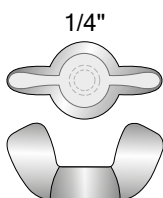
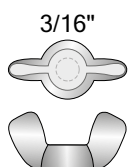


APLICAÇÕES

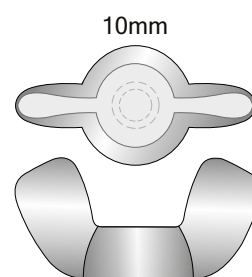
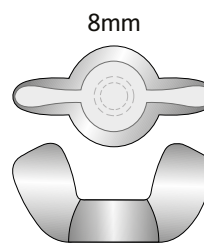
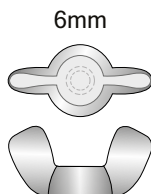
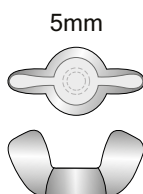
Utilizadas principalmente em montagens mecânicas onde não exige aperto, já que o mesmo é feito manualmente. São muito usadas em sistemas de regulagens, montagens e desmontagens frequentes e rápidas.



UNC



MA

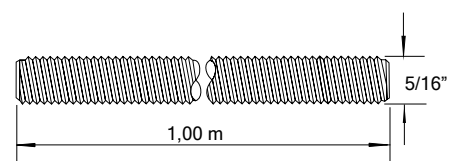


BARRA ROSCADA UNC



APLICAÇÕES

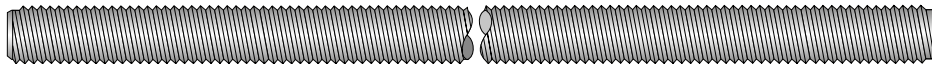
Destinadas para uso mecânico e na montagem de estruturas para instalações elétricas industriais, dutos de refrigeração, rebaixos de tetos falsos, etc. Além disso, muitos usuários cortam essas barras conforme as suas necessidades em substituição a parafusos não encontrados no mercado.



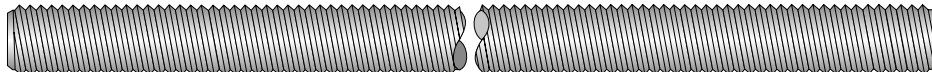
1/4" x 1,00m



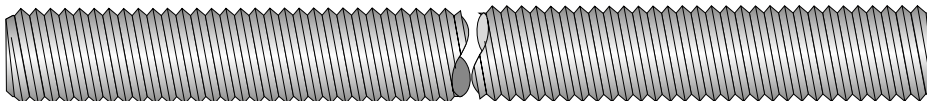
5/16" x 1,00m



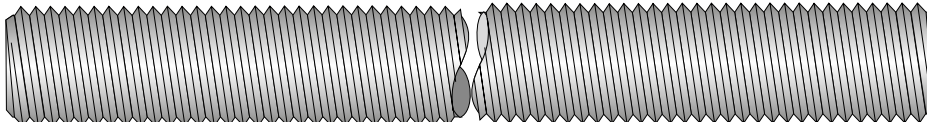
3/8" x 1,00m



1/2" x 1,00m



5/8" x 1,00m

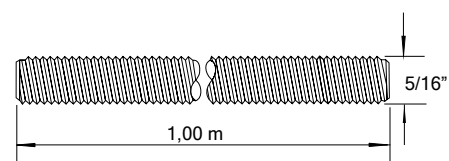


BARRA ROSCADA UNC 1 METRO



APLICAÇÕES

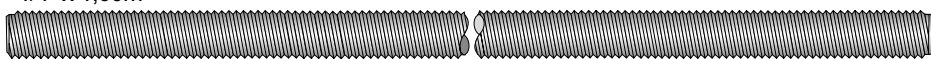
Destinadas para uso mecânico e na montagem de 3/16" estruturas para instalações elétricas industriais, instalação de dutos de refrigeração, rebalços de tetos falsos em instalações comerciais, etc. Além disso, muitos usuários cortam em comprimentos conforme suas necessidades.



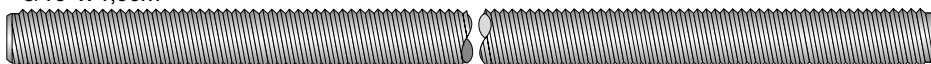
3/16" x 1,00m



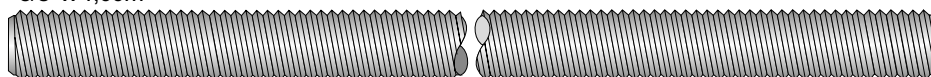
1/4" x 1,00m



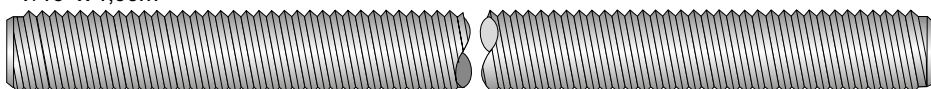
5/16" x 1,00m



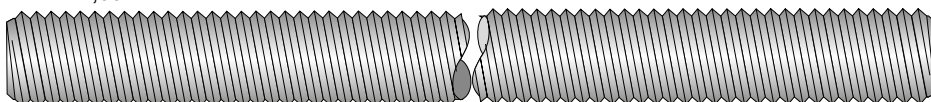
3/8" x 1,00m



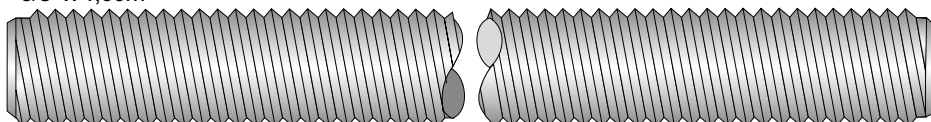
7/16" x 1,00m



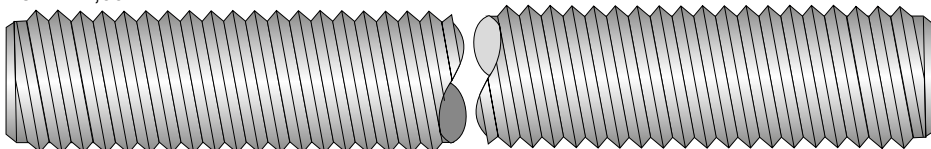
1/2" x 1,00m



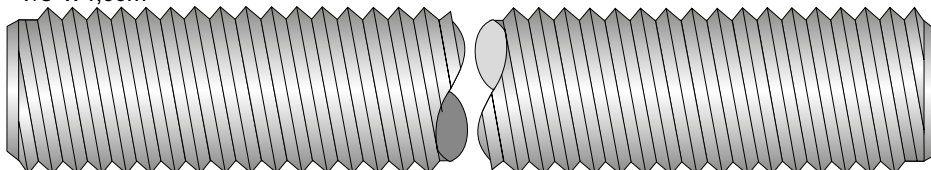
5/8" x 1,00m



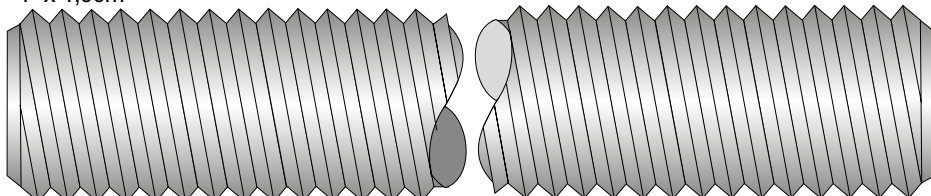
3/4" x 1,00m



7/8" x 1,00m



1" x 1,00m

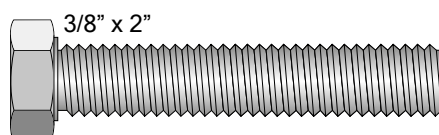
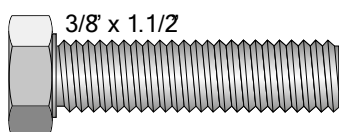
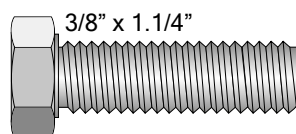
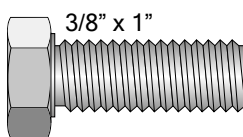
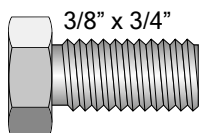
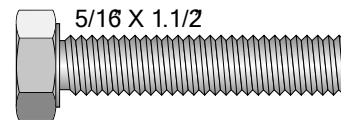
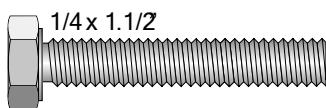
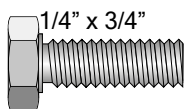
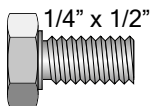
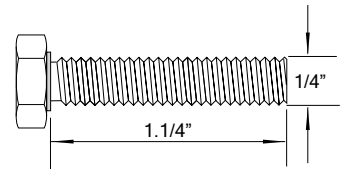


PARAFUSO SEXTAVADO LATÃO



APLICAÇÕES

Indicados para aplicações em equipamentos elétricos e objetos de decorações e, também, em ambientes de agressividade moderada sujeitas à corrosão.

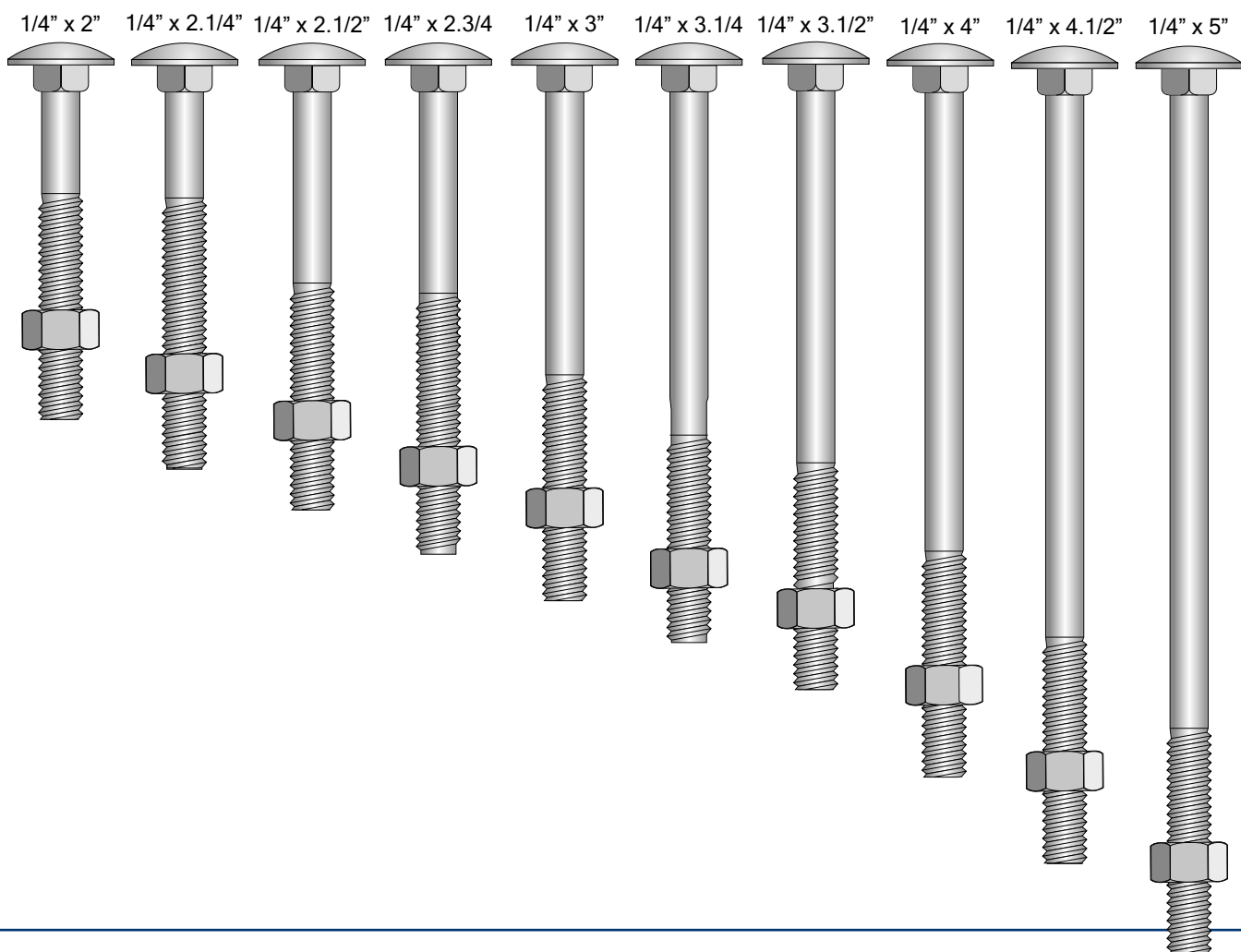
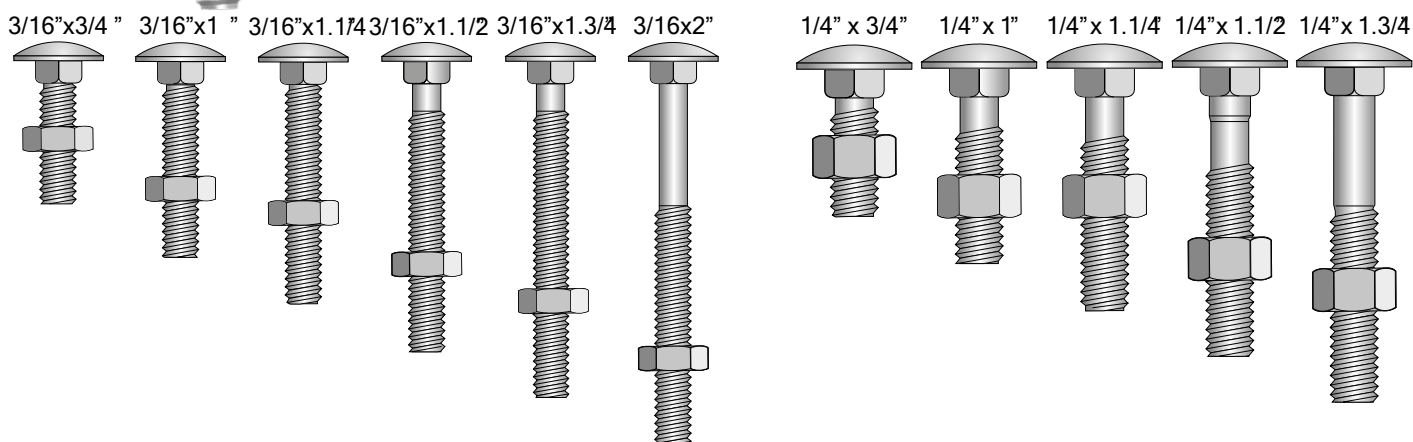
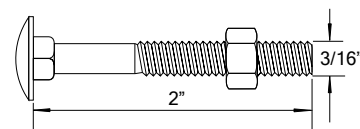


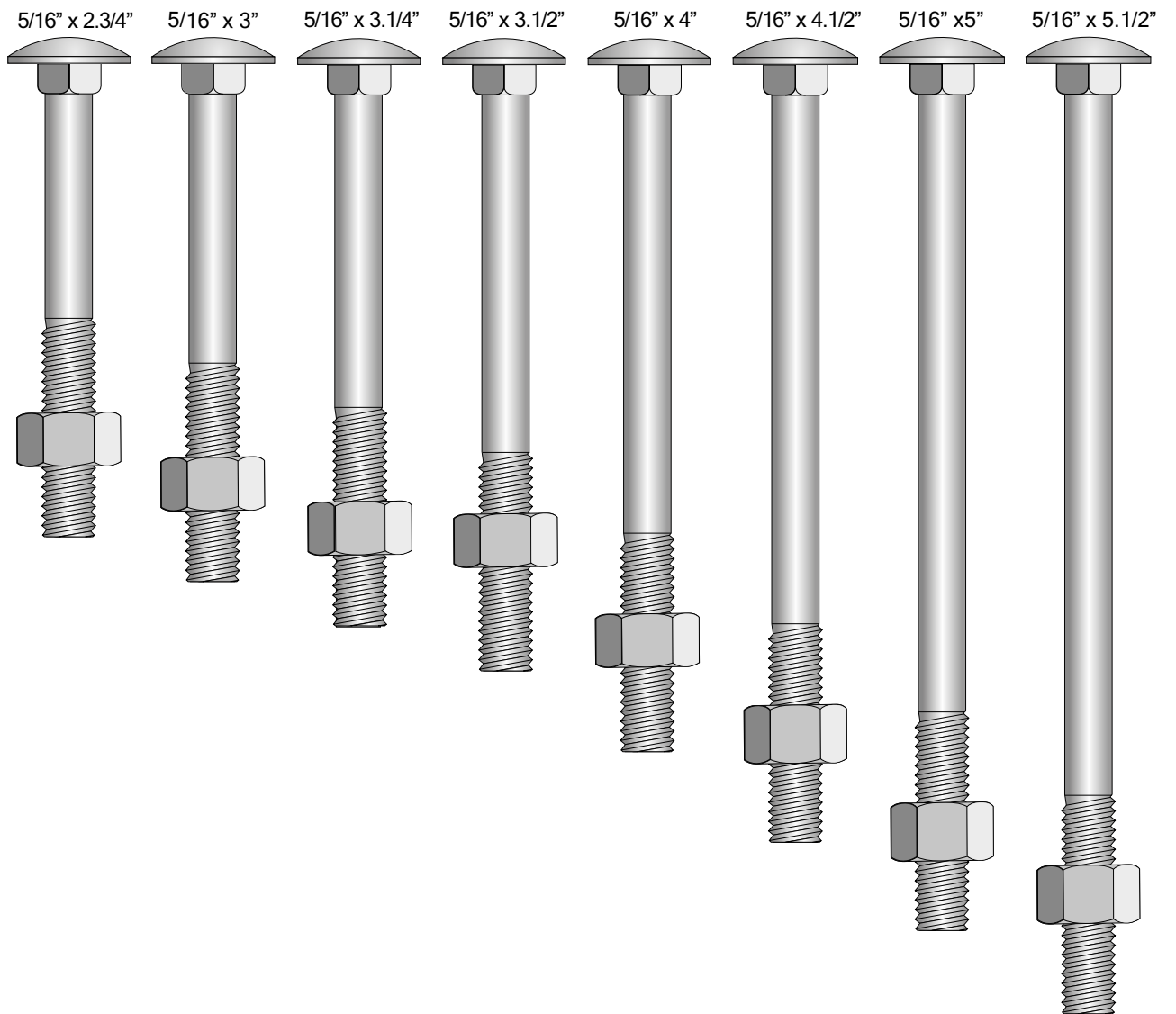
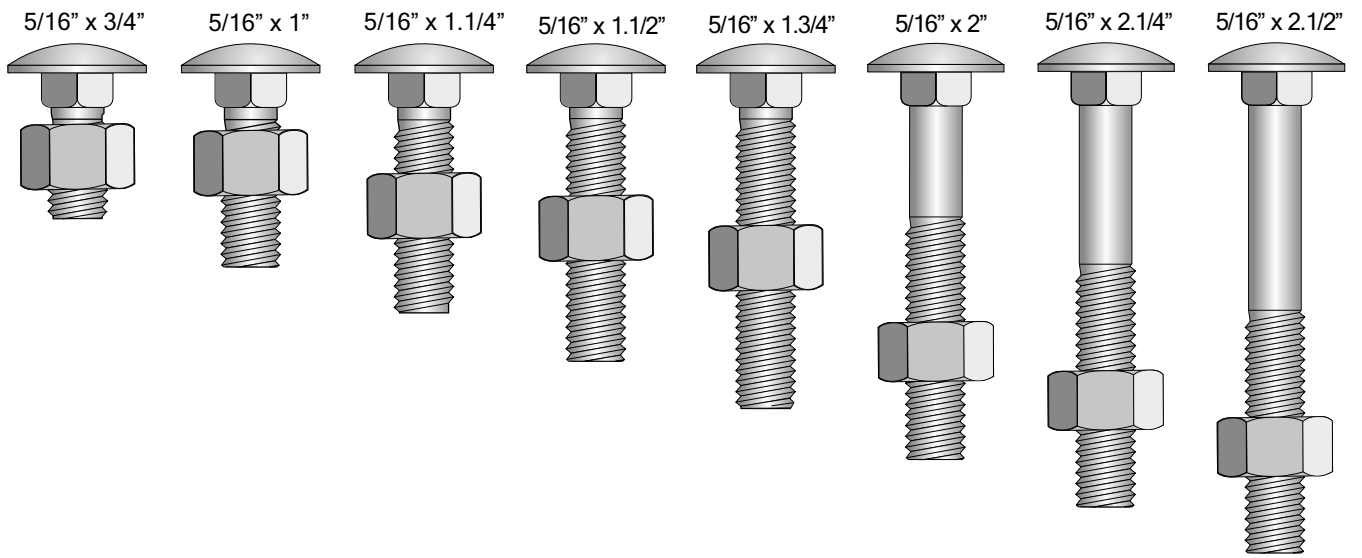
PARAFUSO FRANCÊS COM PORCA SEXTAVADA

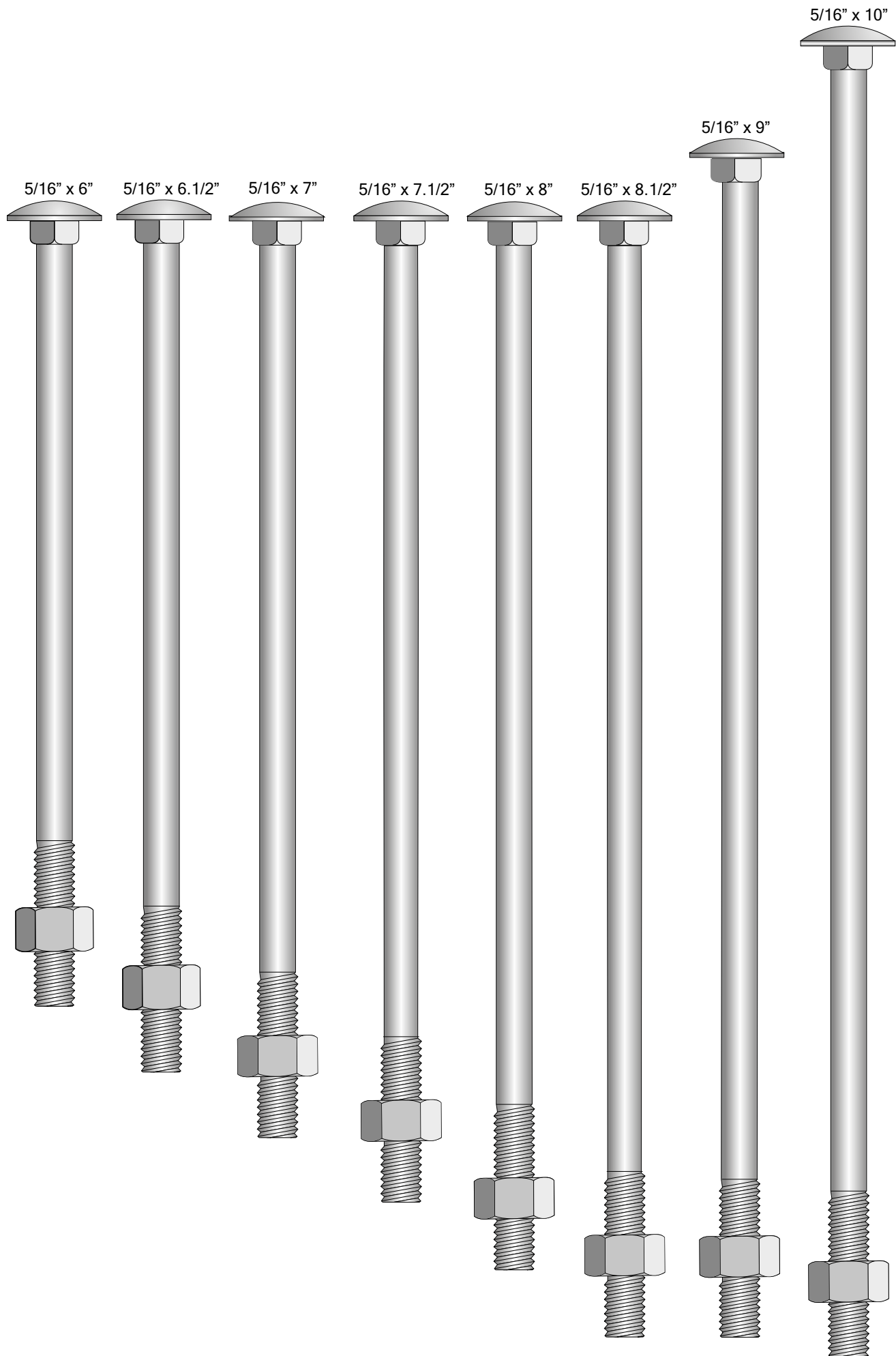


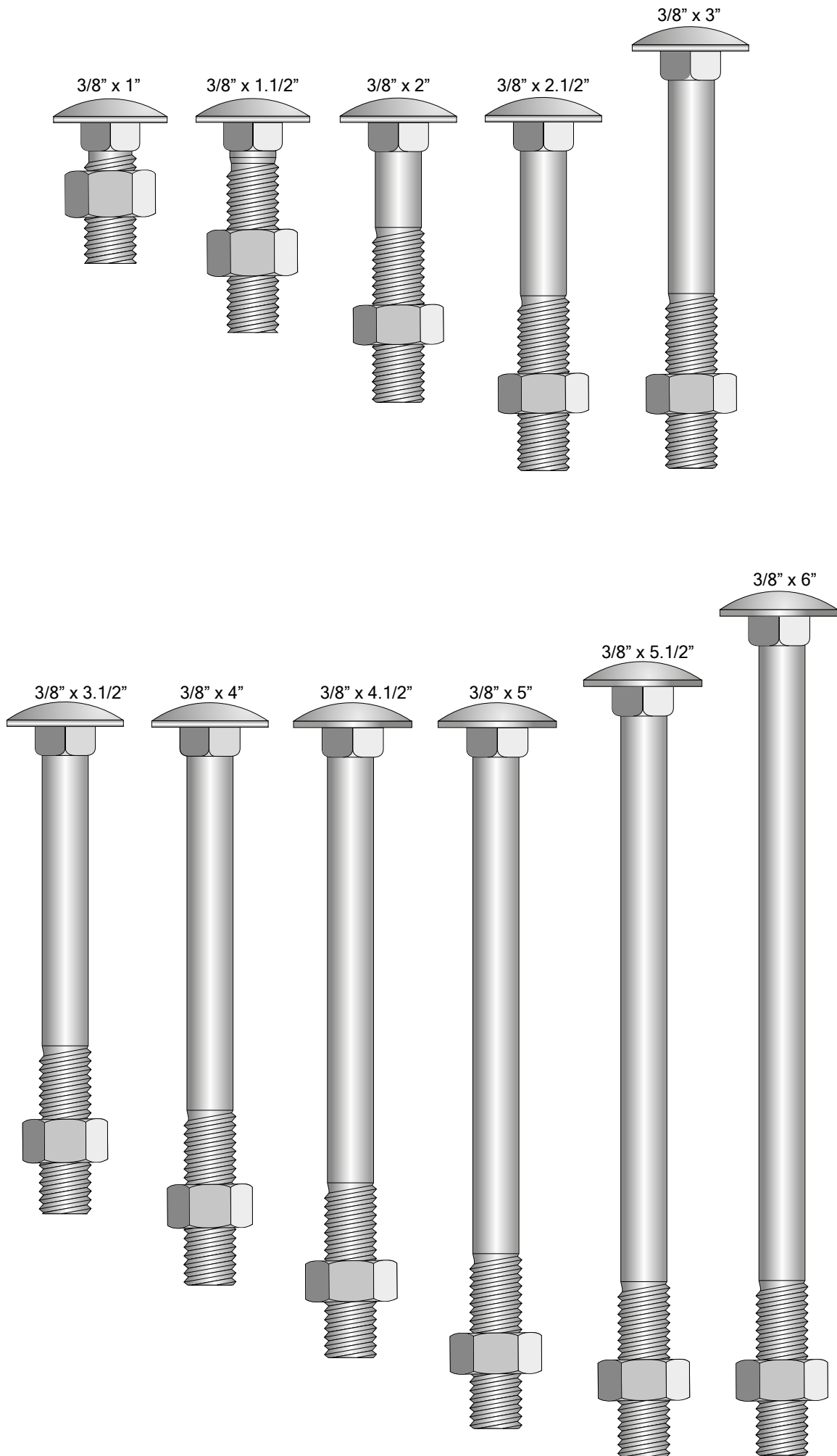
APLICAÇÕES

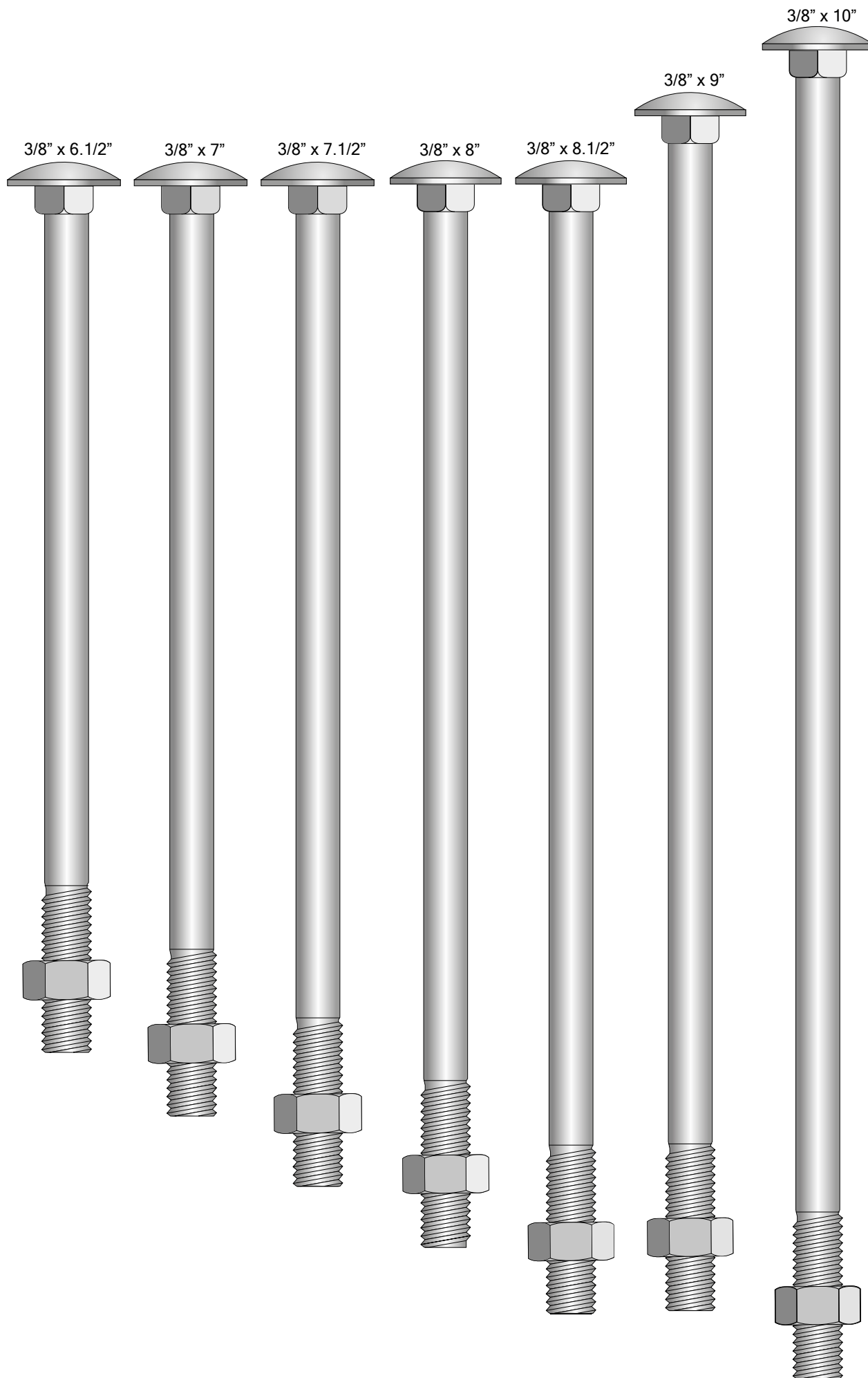
São muito utilizados em carrocerias de caminhões, carretas, arados de tração animal e mecânica, bancos para jardins, abraçadeiras para eletro ferragens e irrigação, quadras esportivas, cercas de madeira, construção naval, placas de sinalização, suportes para TV, vigamento de casas e galpões.





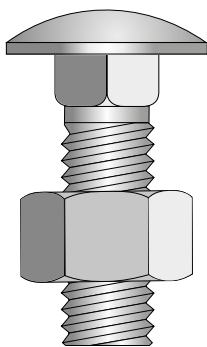




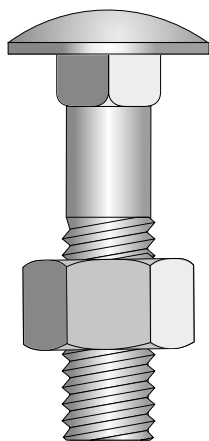




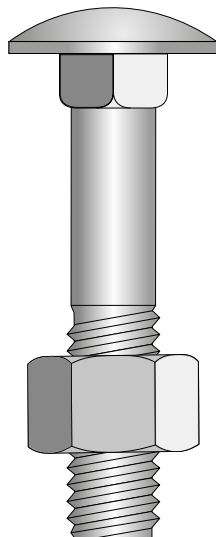
1/2" x 1.1/2"



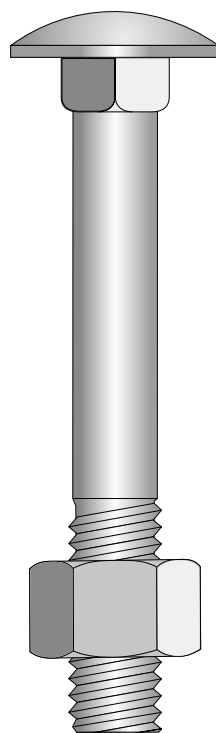
1/2" x 2"



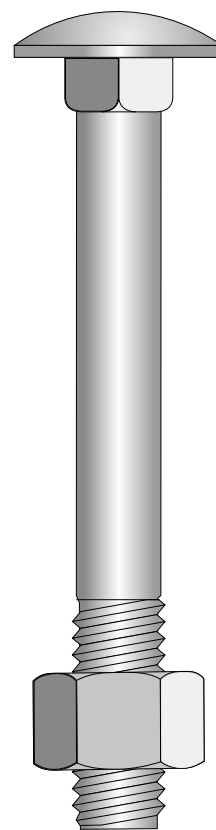
1/2" x 2.1/2"



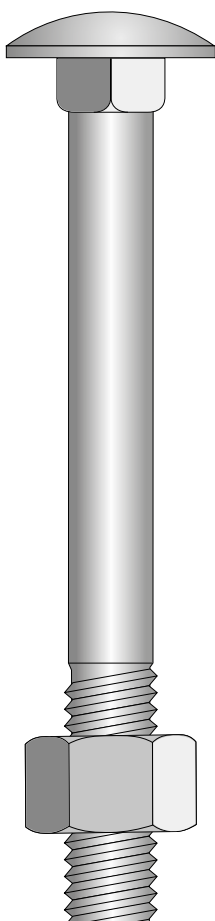
1/2" x 3.1/2"



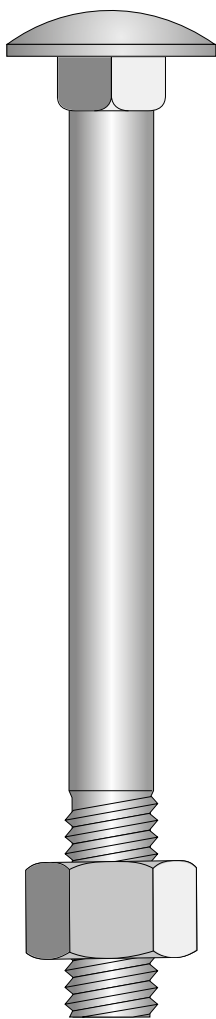
1/2" x 4"



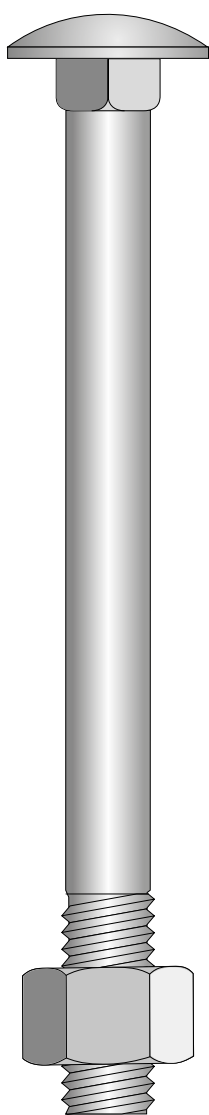
1/2" x 4.1/2"



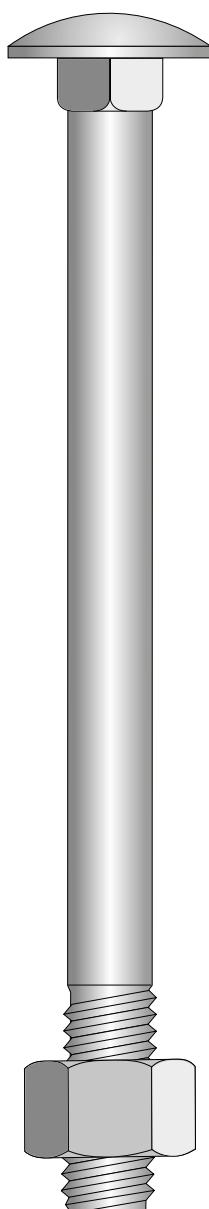
1/2" x 5"

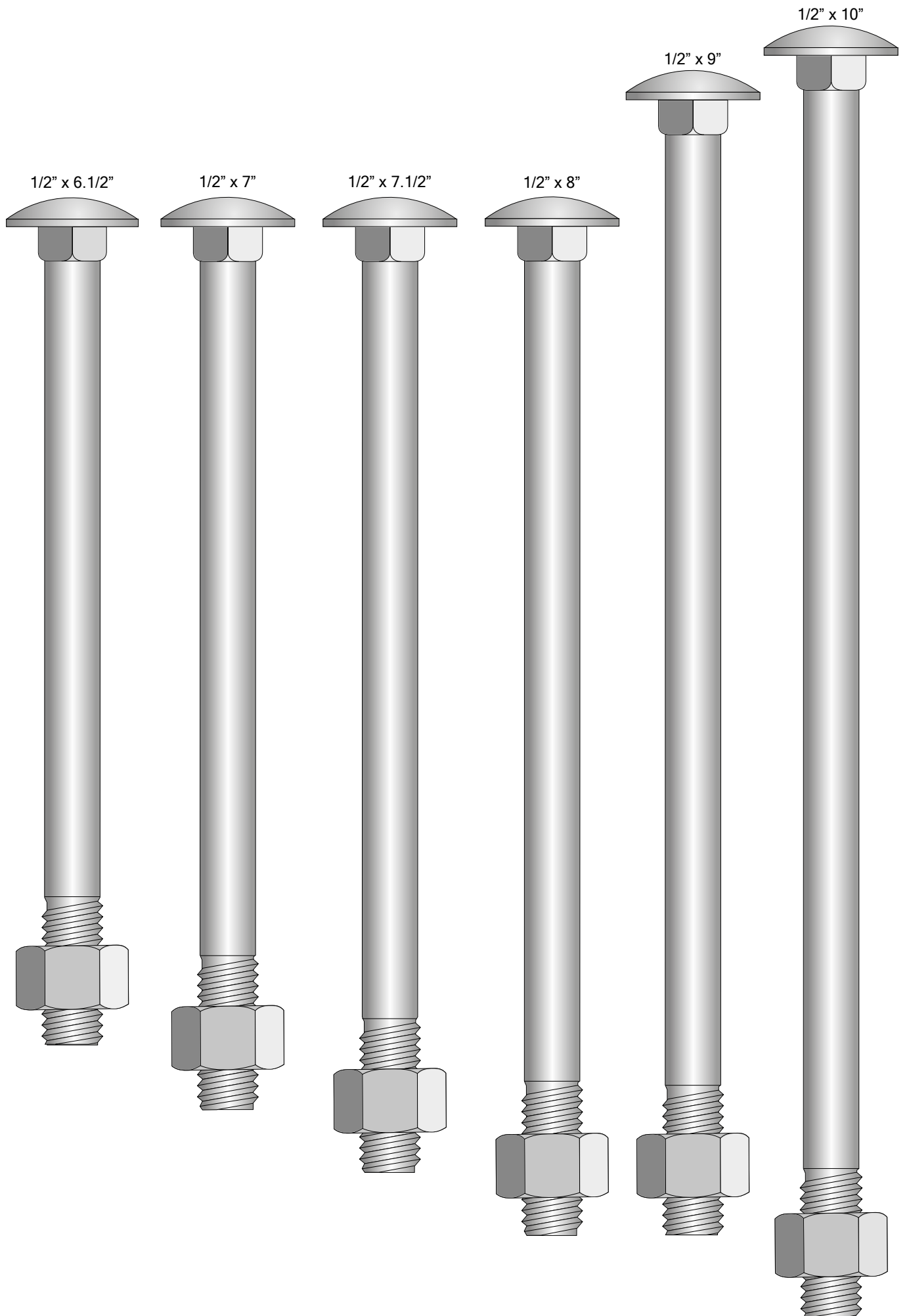


1/2" x 5.1/2"

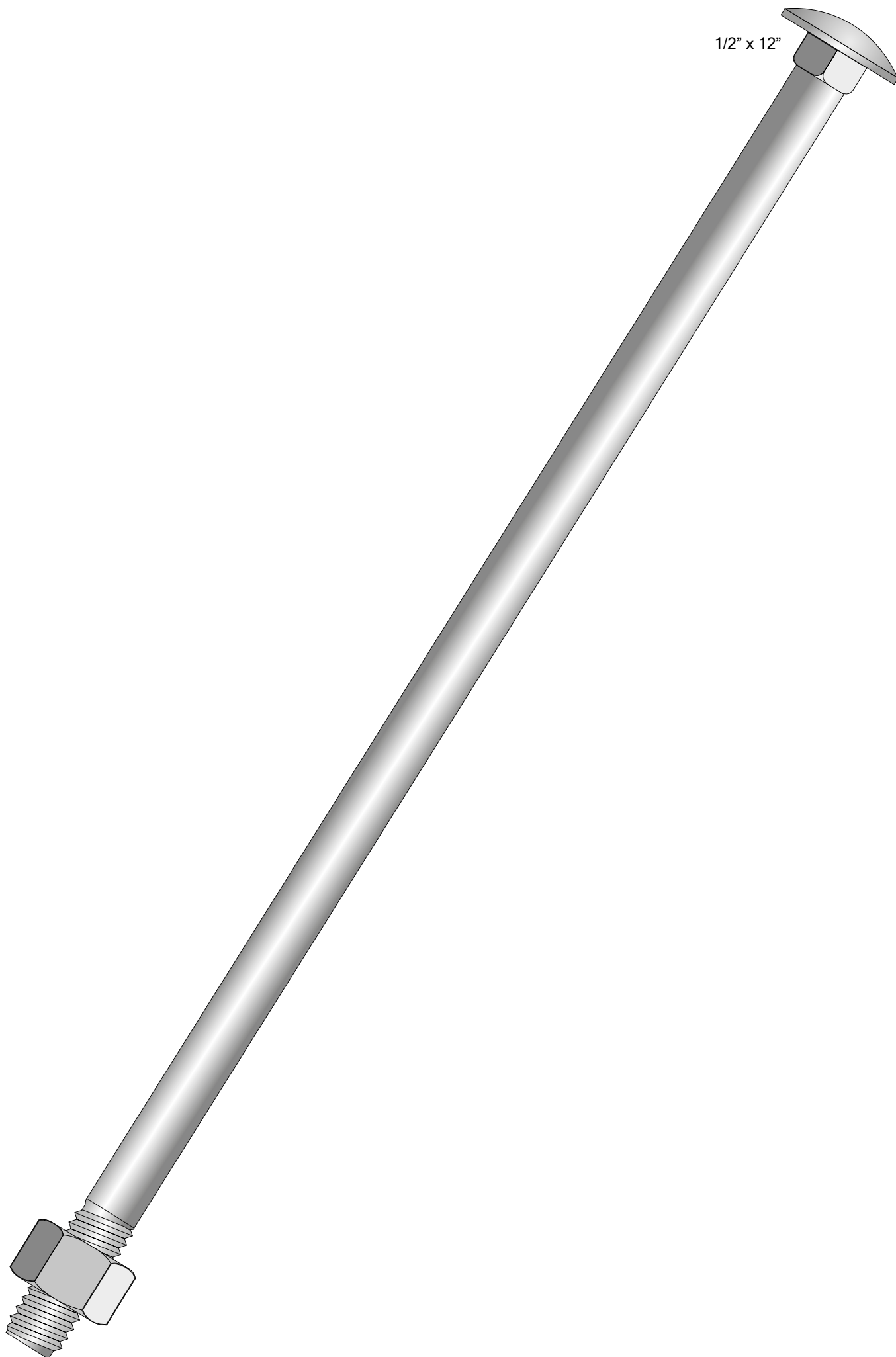


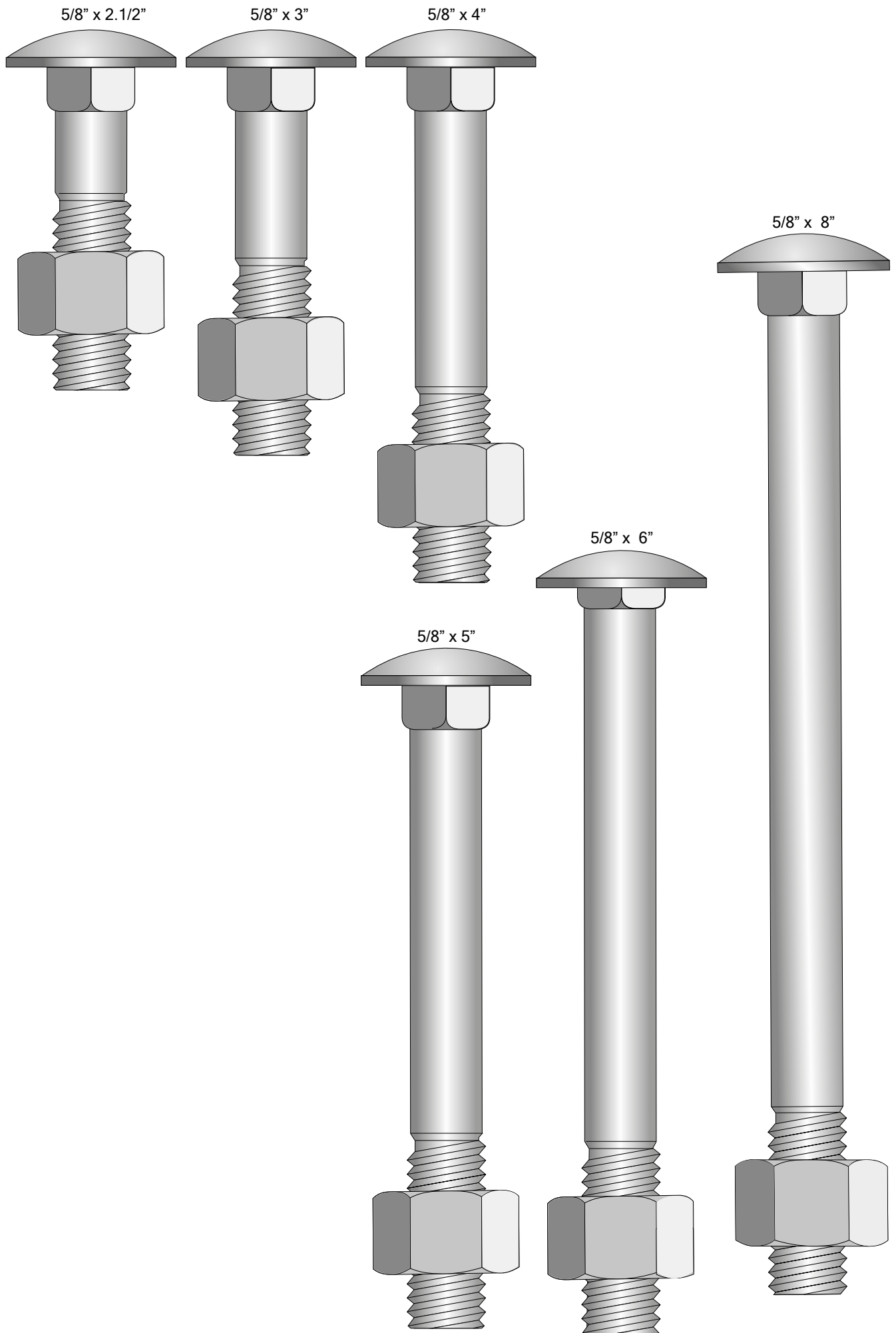
1/2" x 6"

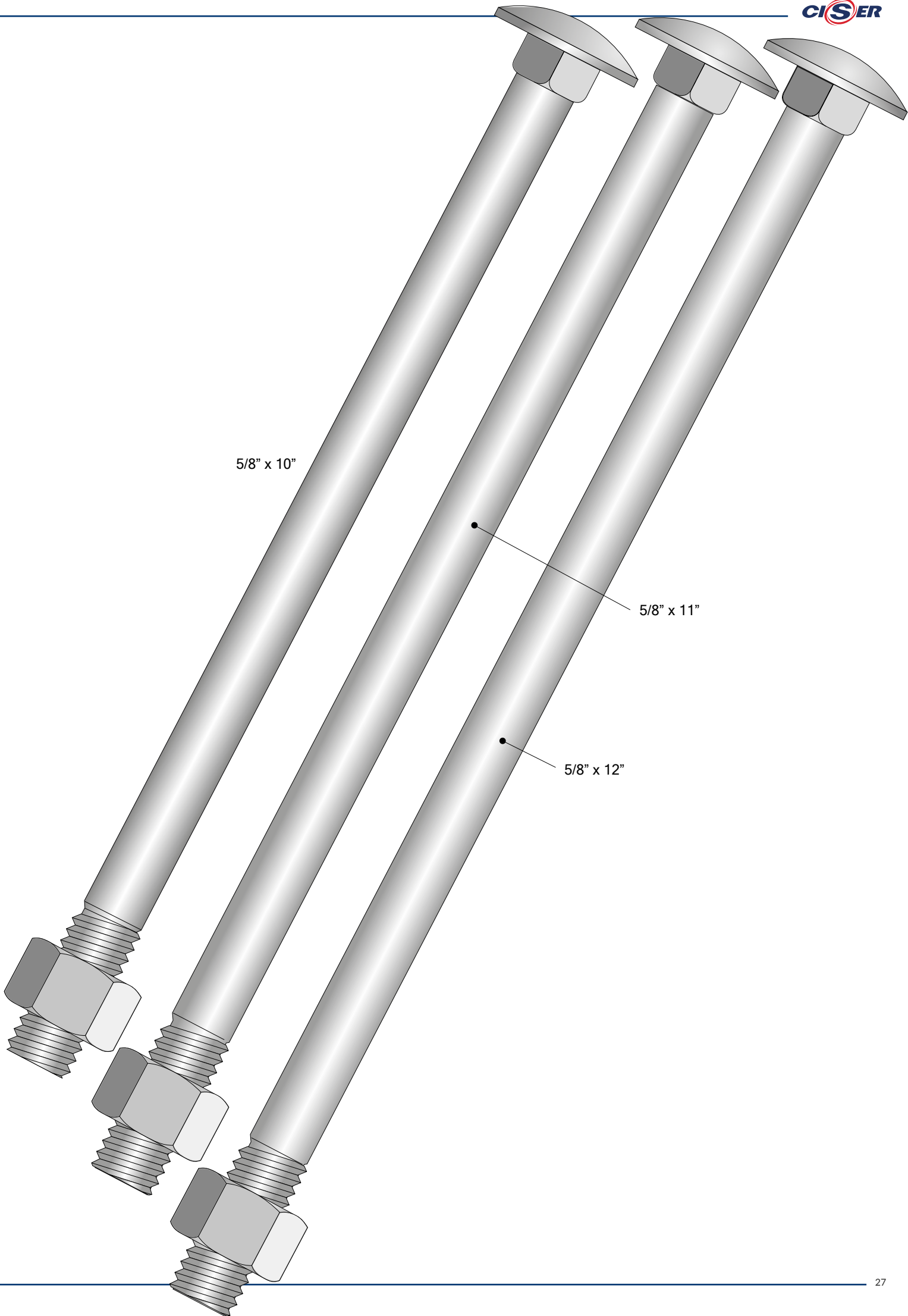




1/2" x 12"





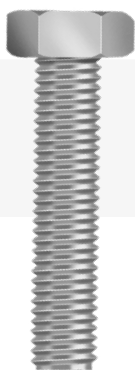


5/8" x 10"

5/8" x 11"

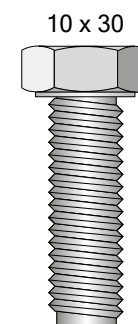
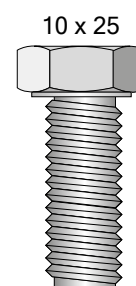
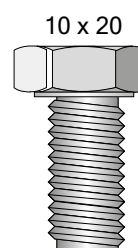
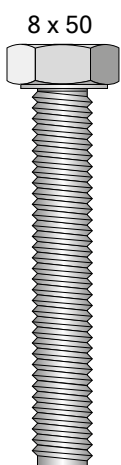
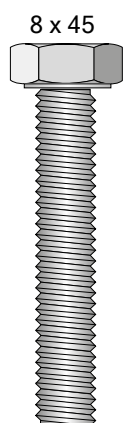
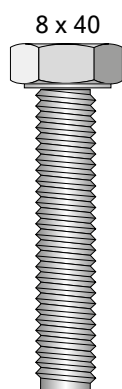
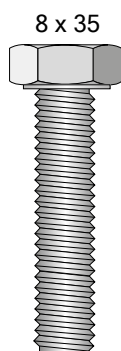
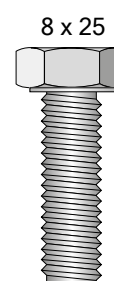
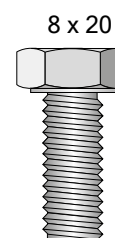
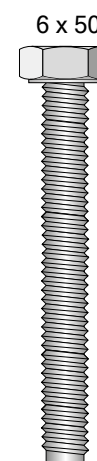
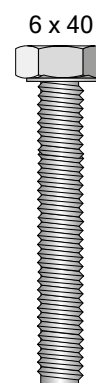
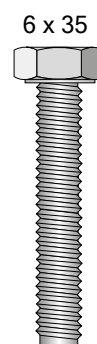
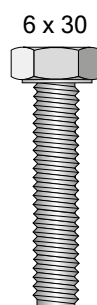
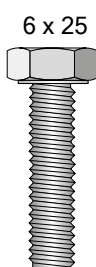
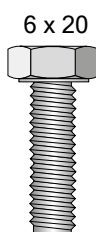
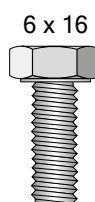
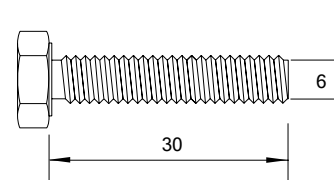
5/8" x 12"

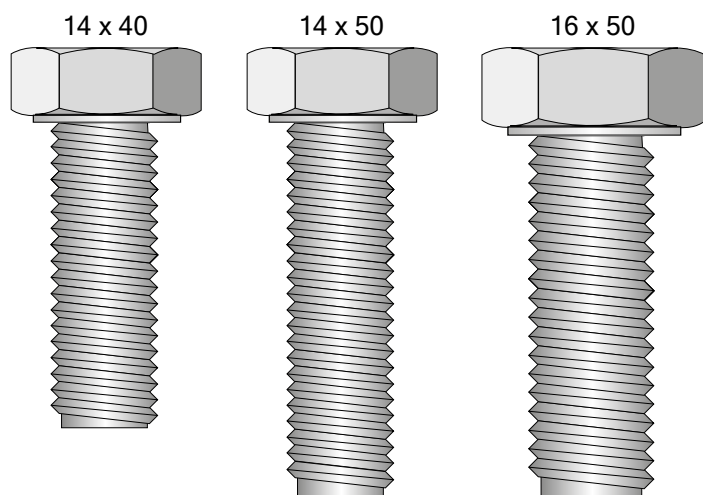
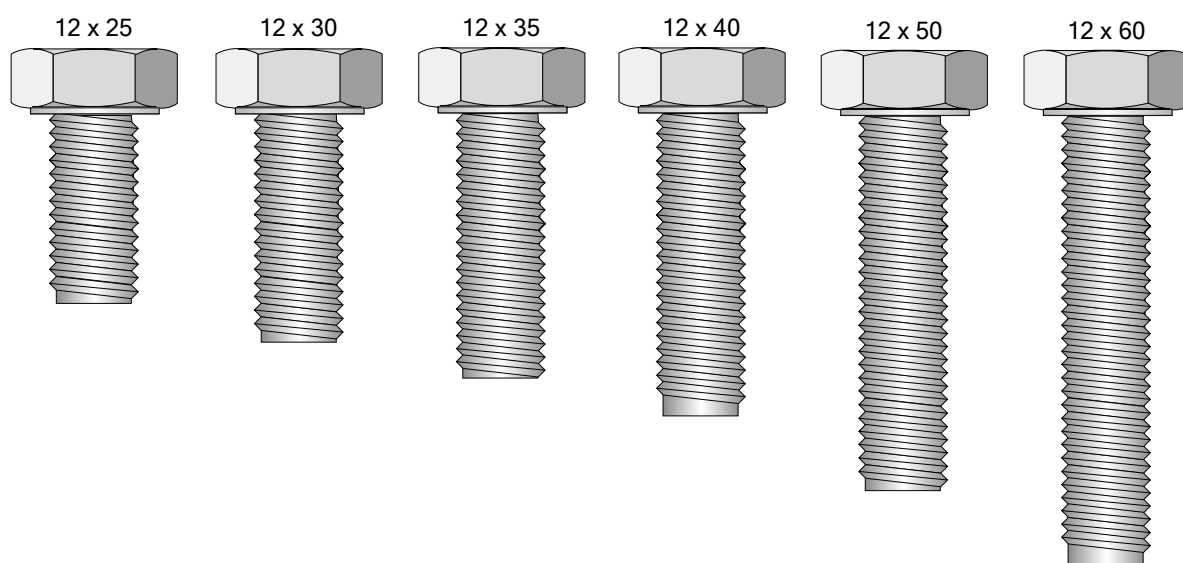
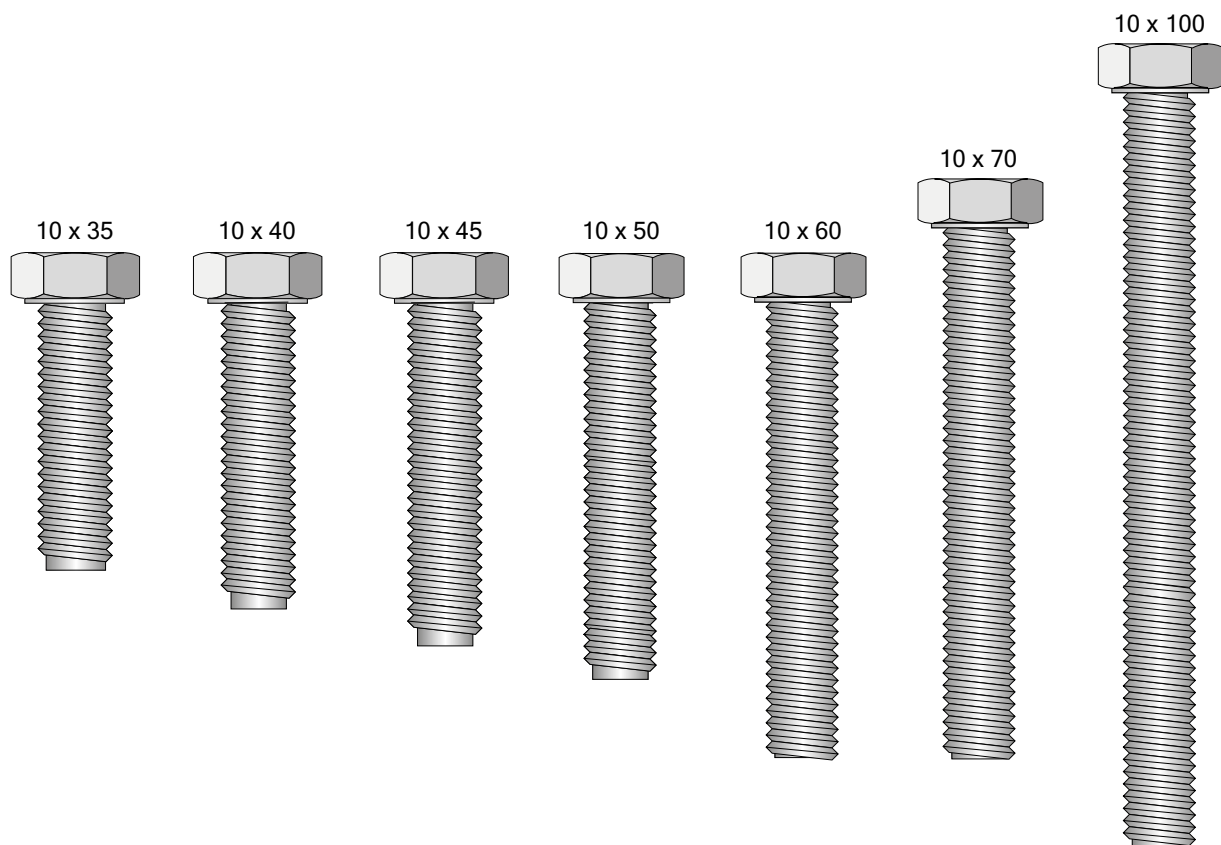
PARAFUSO SEXTAVADO 8.8 MA ROSCA INTEIRA



APLICAÇÕES

São os mais utilizados em máquinas e equipamentos industriais, veículos, móveis de aço e outras aplicações diversas.



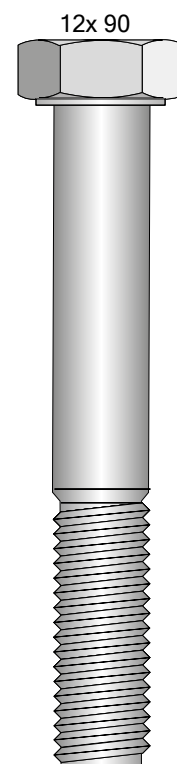
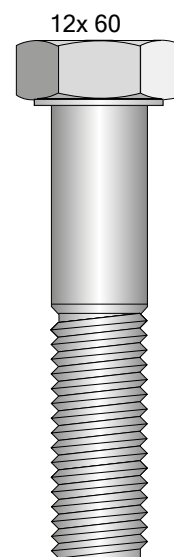
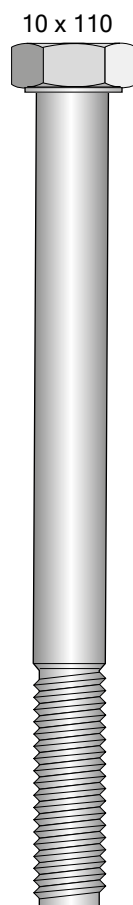
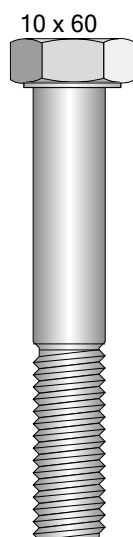
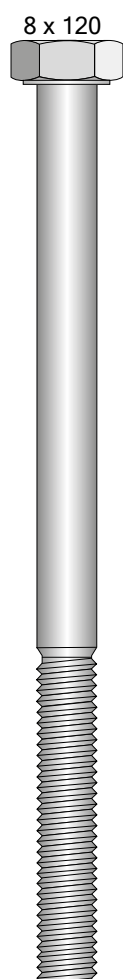
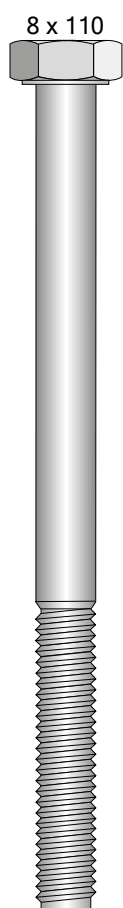
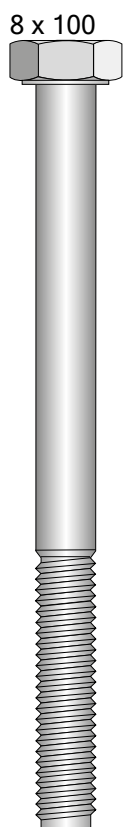
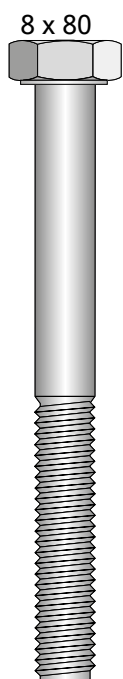
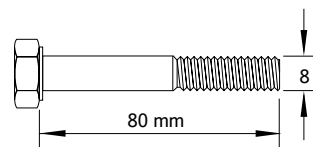


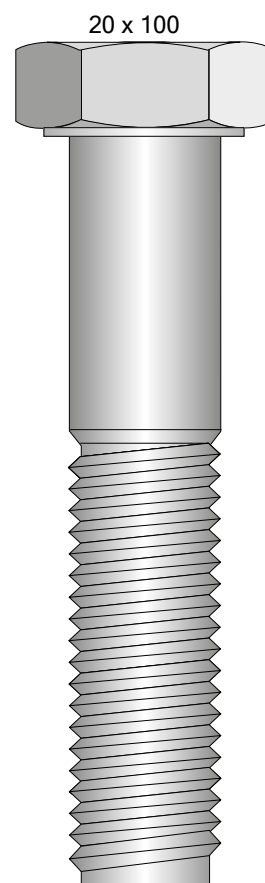
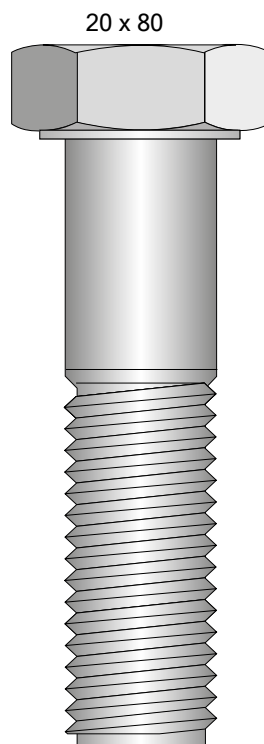
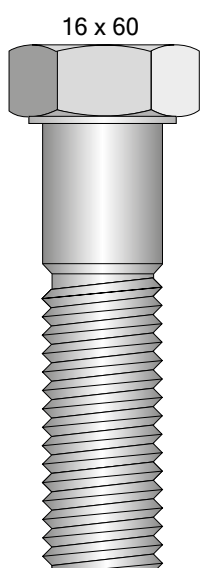
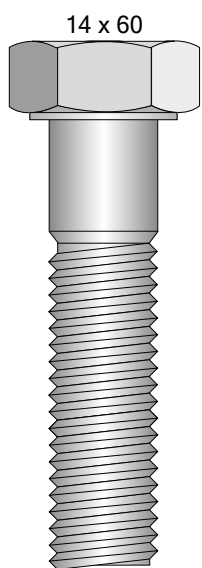
PARAFUSO SEXTAVADO 8.8 MA ROSCA PARCIAL



APLICAÇÕES

São os mais utilizados em máquinas, equipamentos e dispositivos industriais, móveis de aço e aplicações diversas.





PARAFUSO SEXTAVADO UNC ROSCA INTEIRA



APLICAÇÕES

São os mais utilizados em máquinas, equipamentos e dispositivos industriais, móveis de aço e aplicações diversas.

3/16" x 1/2"



3/16" x 5/8"



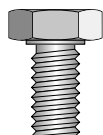
3/16" x 3/4"



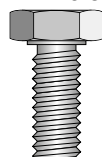
3/16" x 1"



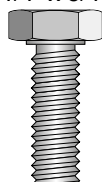
1/4" x 1/2"



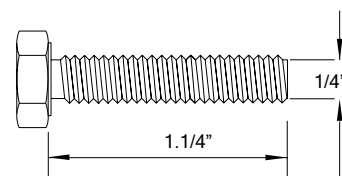
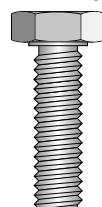
1/4" x 5/8"

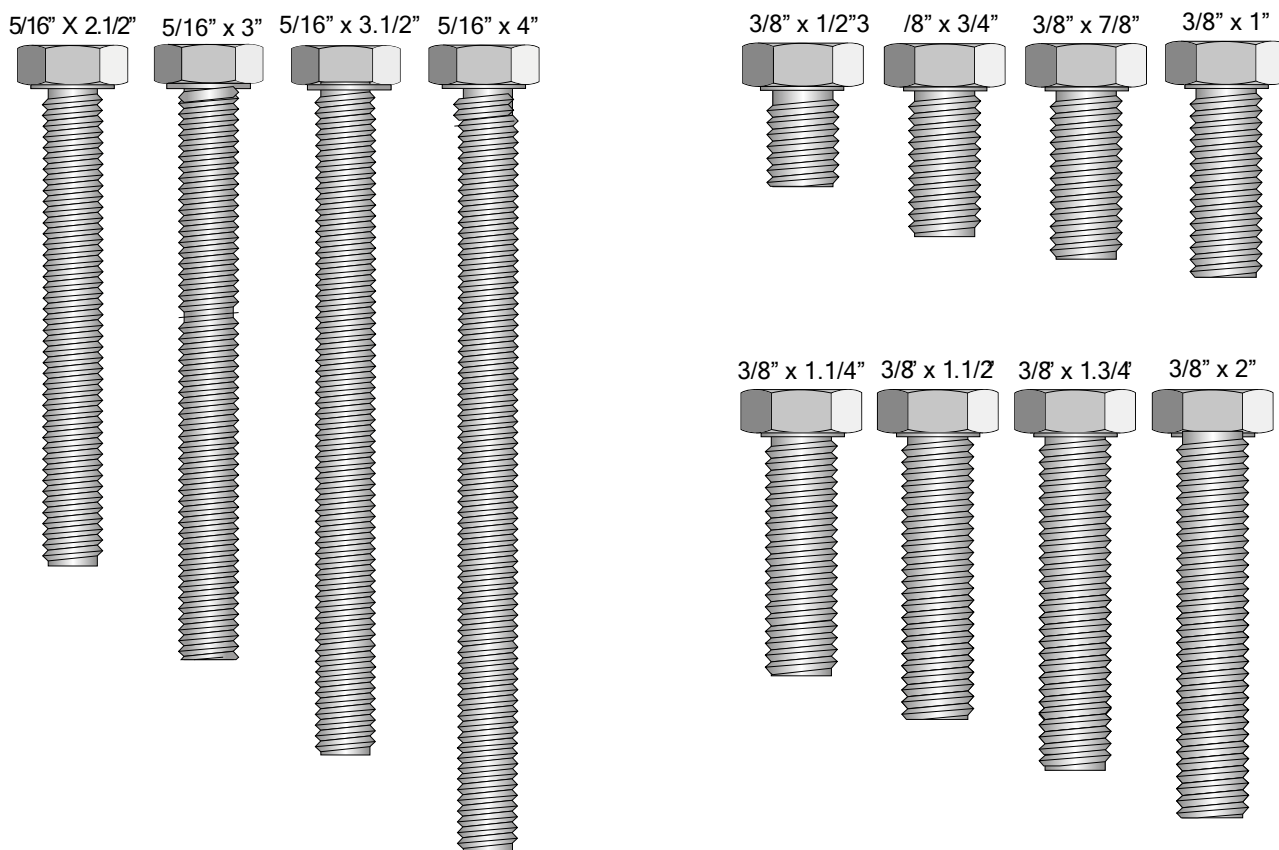
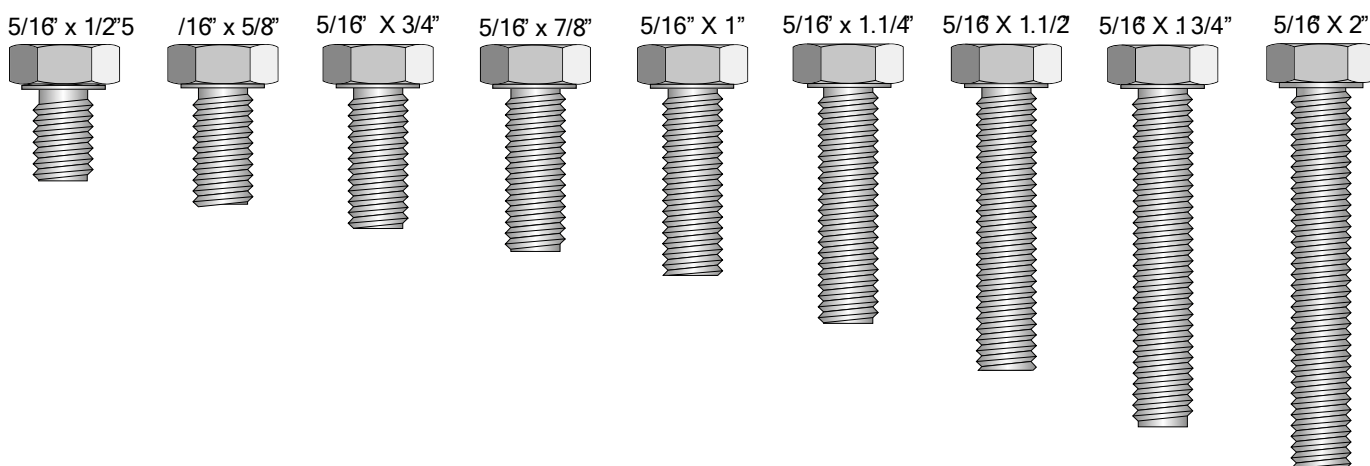
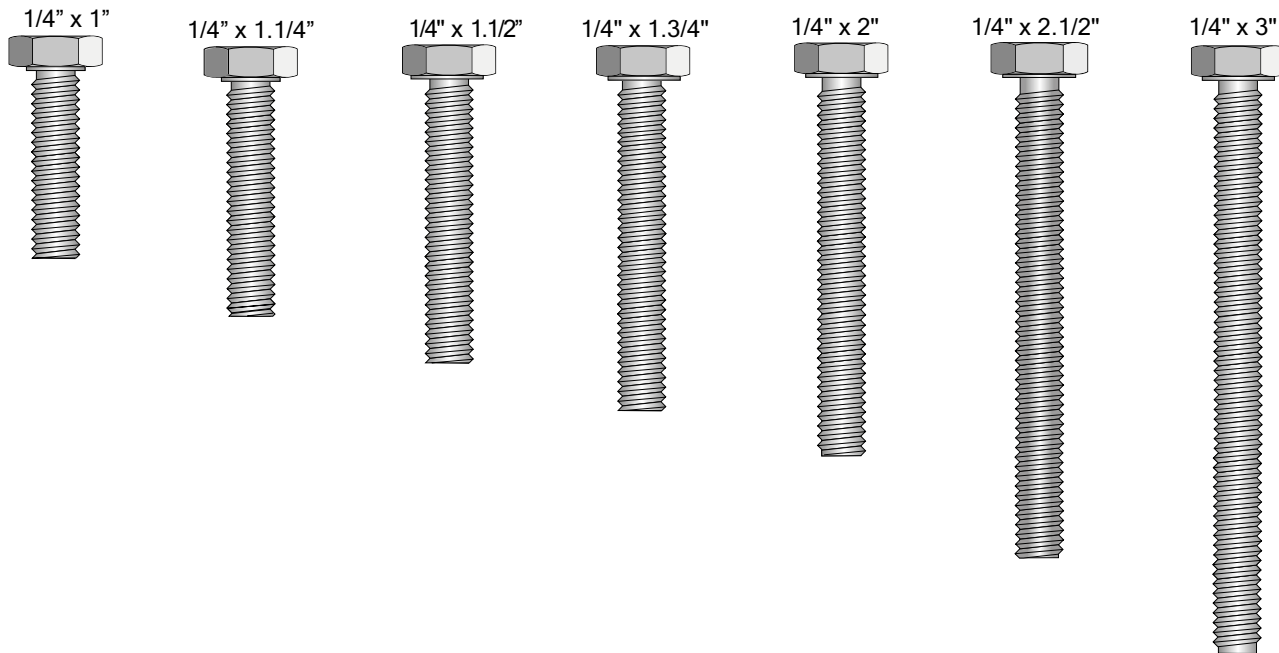


1/4" x 3/4"



1/4" x 7/8"





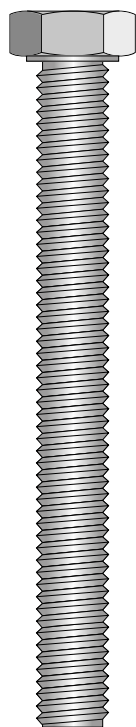
3/8" x 2.1/2"



3/8" x 3"



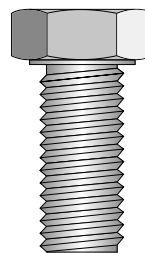
3/8" x 3.1/2"



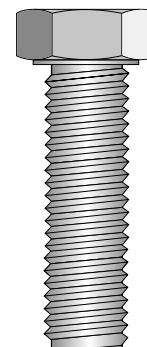
3/8" x 4"



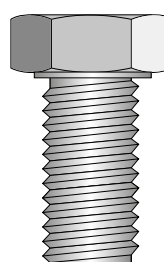
7/16" x 1"7/8"



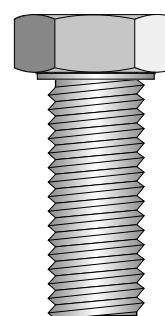
1/2" x 1.1/2"



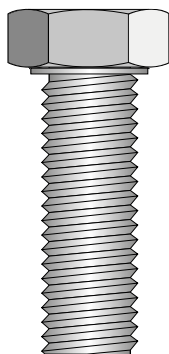
1/2" x 1"



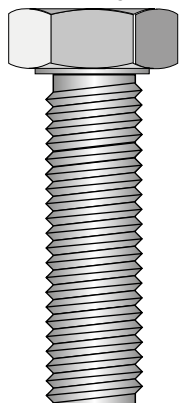
1/2" x 1.1/4"



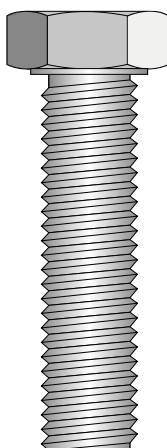
1/2" x 1.1/2"



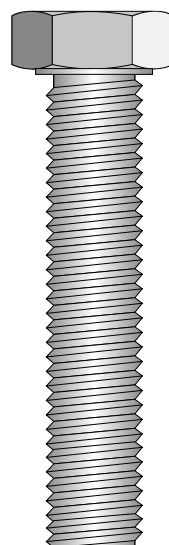
1/2" x 1.3/4"



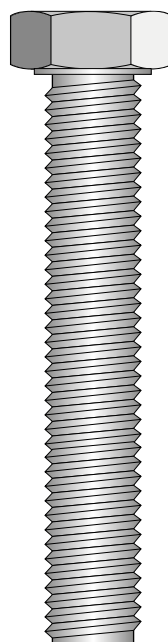
1/2" x 2"



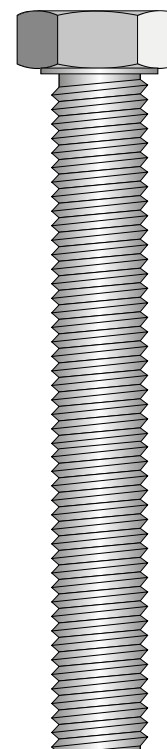
1/2" x 2.1/2"



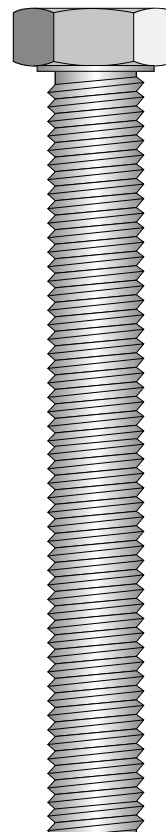
1/2" x 3"



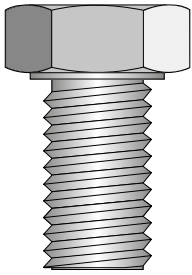
1/2" x 3.1/2"



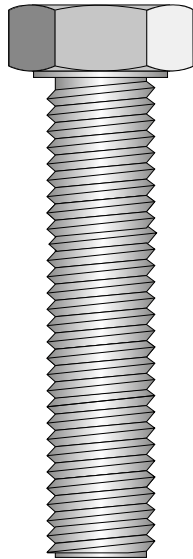
1/2" x 4"



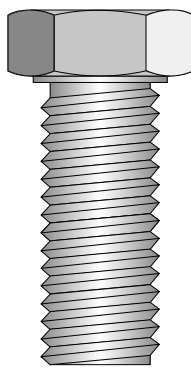
9/16" x 1"9



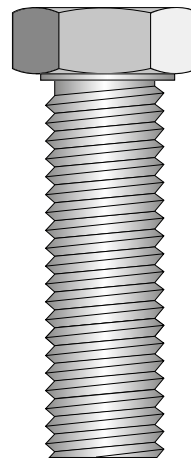
1/16" x 2.1/2"



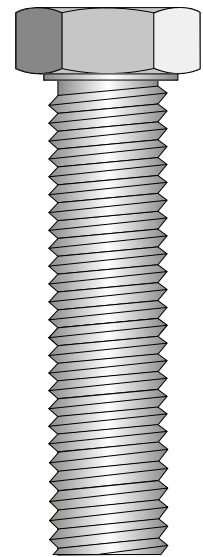
5/8" x 1.1/2"



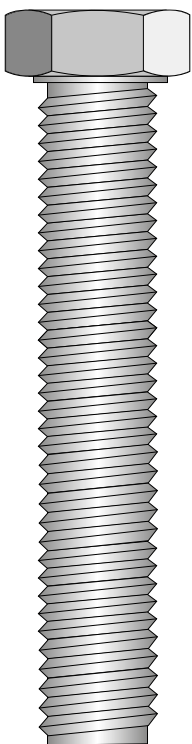
5/8" x 2"



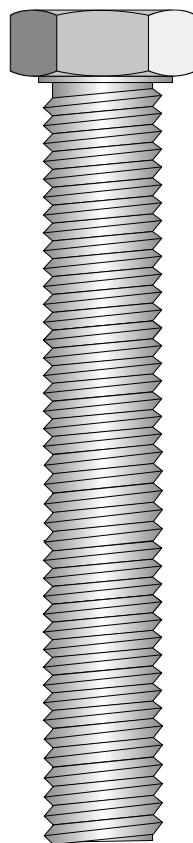
5/8" x 2.1/2"



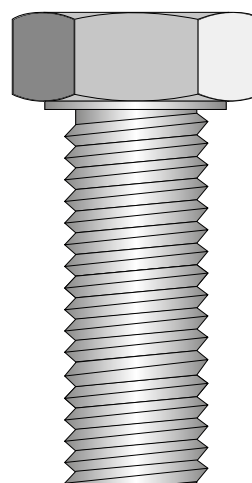
5/8" x 3.1/2"



5/8" x 4"



3/4" x 2"

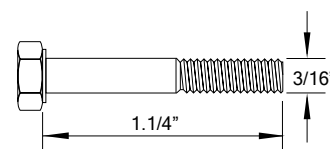


PARAFUSO SEXTAVADO UNC ROSCA PARCIAL



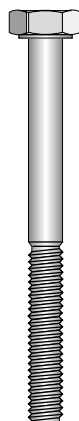
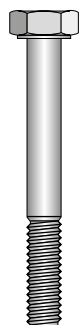
APLICAÇÕES

São os mais utilizados em máquinas e equipamentos industriais, móveis de aço e outras aplicações diversas.



3/16" x 1.1/2"

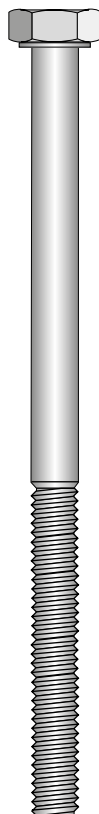
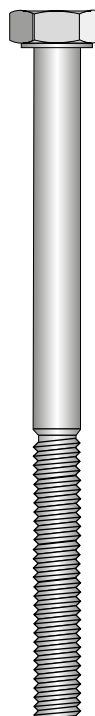
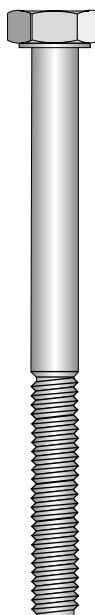
3/16" x 2"



1/4" x 3"

1/4" x 3.1/2"

1/4" x 4"

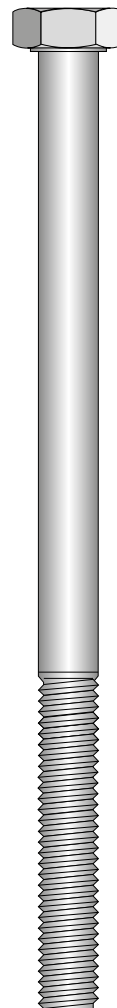
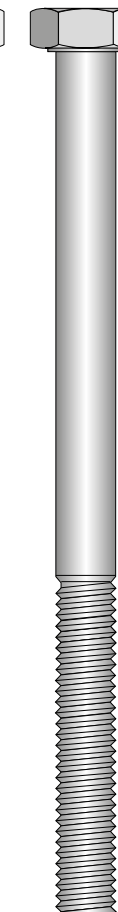
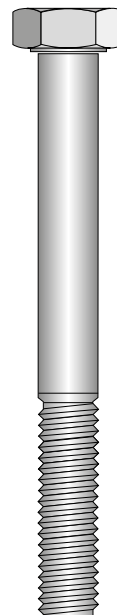
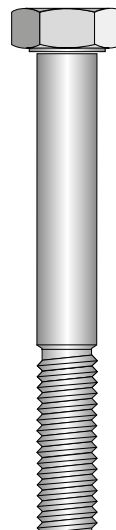


5/16" x 2.1/2"

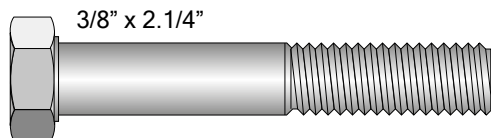
5/16" x 3"

5/16" x 4.1/2"

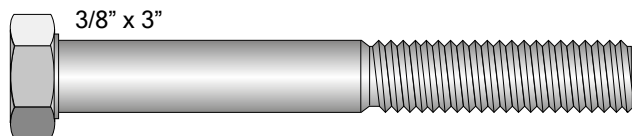
5/16" x 5"



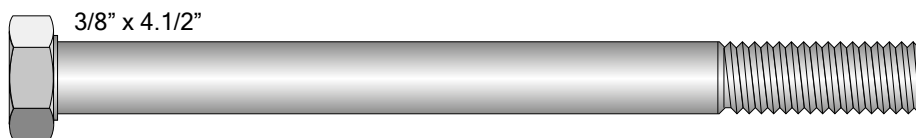
3/8" x 2.1/4"



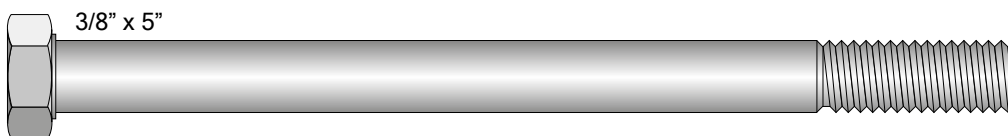
3/8" x 3"



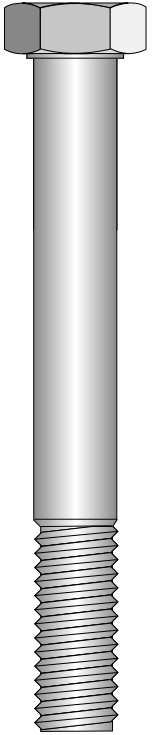
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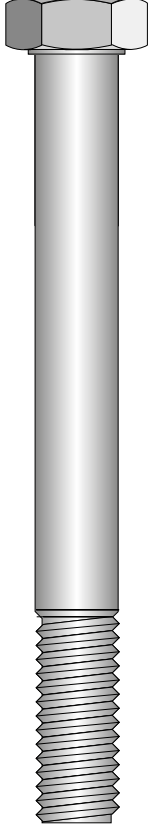
3/8" x 5"



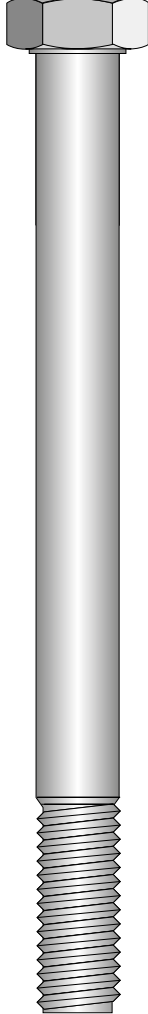
7/16" x 3.1/2"



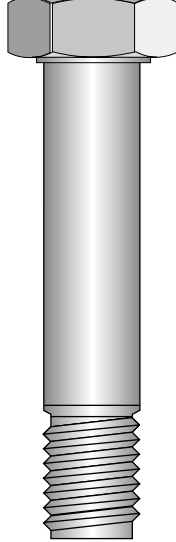
7/16" x 4"



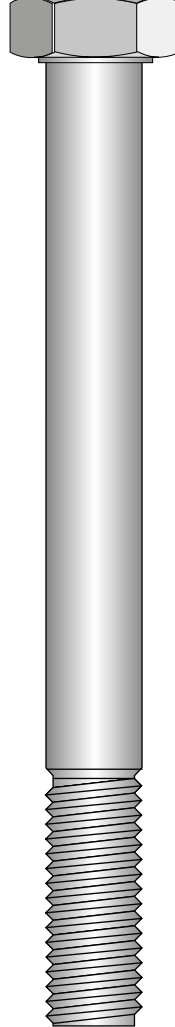
7/16" x 5"



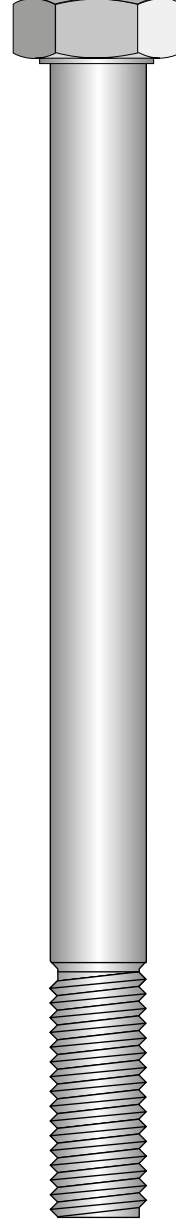
1/2" x 2.1/2"



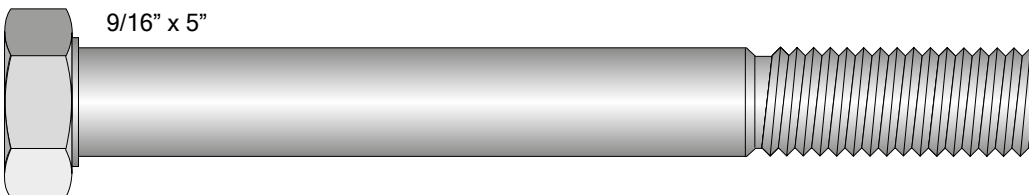
1/2" x 5"

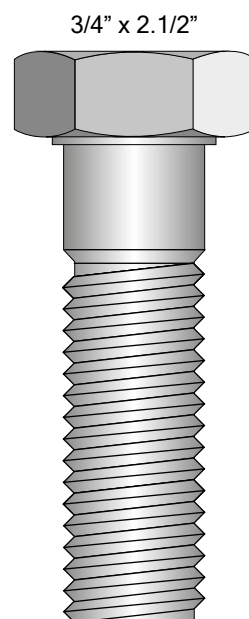
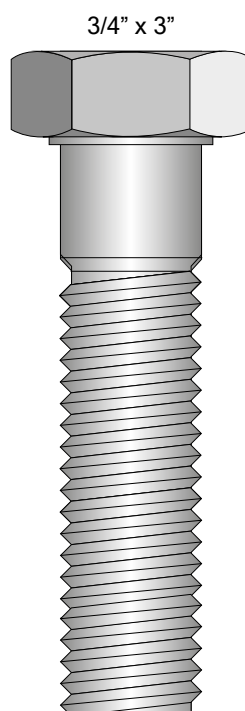
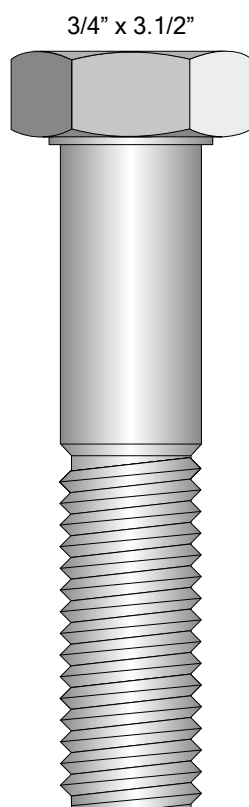
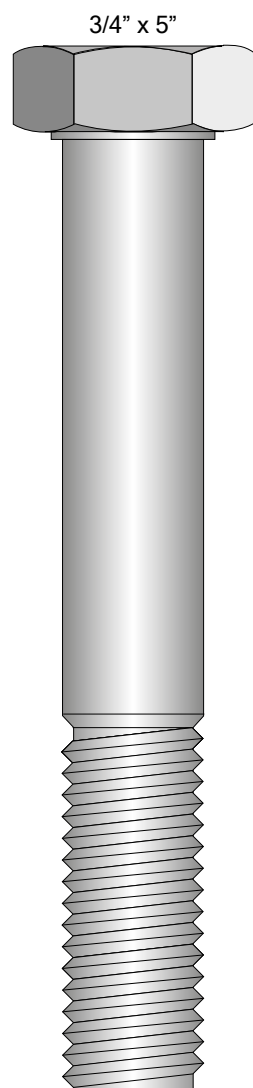
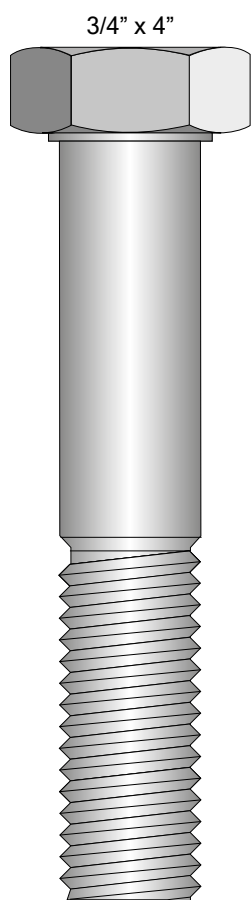
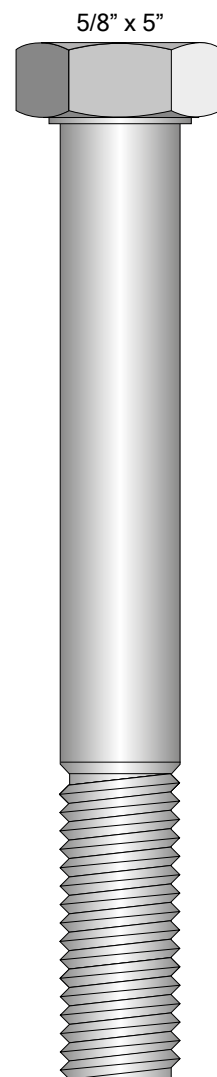
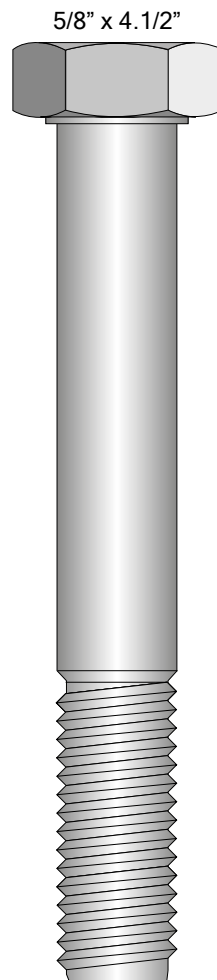
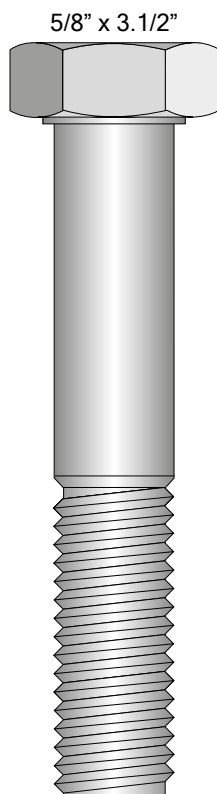
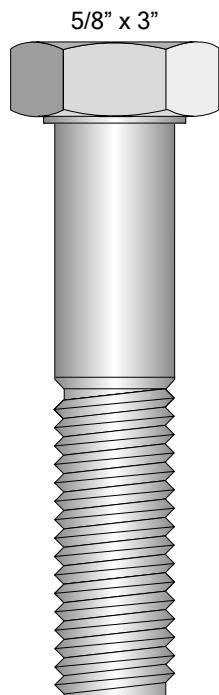
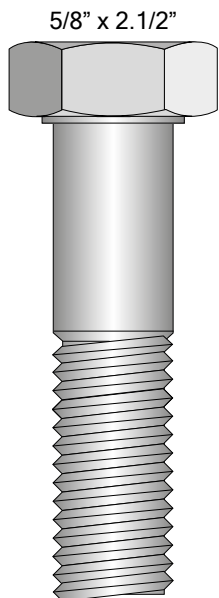


1/2" x 6"



9/16" x 5"



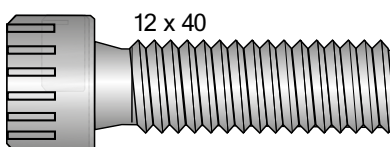
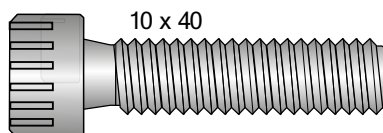
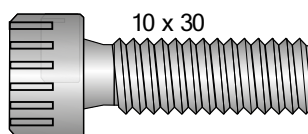
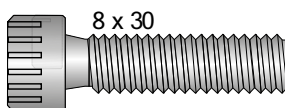
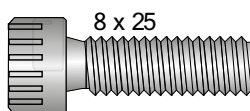
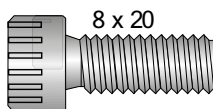
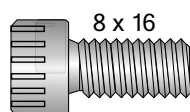
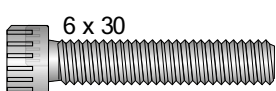
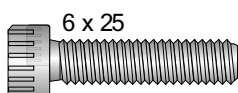
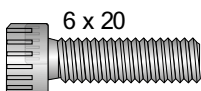
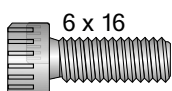
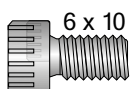
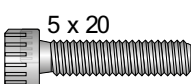
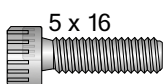
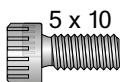
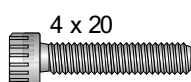
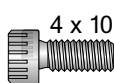
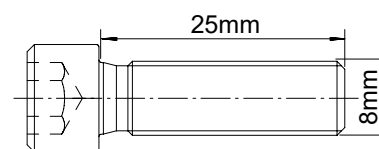


PARAFUSO CABEÇA CILÍNDRICA COM SEXTAVADO INTERNO 12.9



APLICAÇÕES

São fixadores utilizados pelas indústrias, em montagem de máquinas, equipamentos, dispositivos ou nas áreas de manutenção e ferramentaria na fixação de ferramentas de usinagem, estampo de corte, moldes de injeção de plásticos, etc.

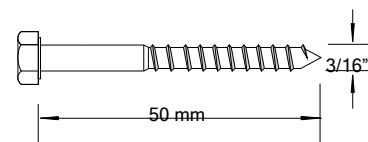


PARAFUSO SEXTAVADO ROSCA SOBERBA

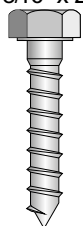


APLICAÇÕES

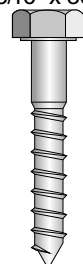
São utilizados na fixação de portais, cercas, portões, sendo que sua utilização principal é na madeira, porém atualmente é também utilizado em concreto com buchas de nylon, para fixação de suportes de televisão, etc.



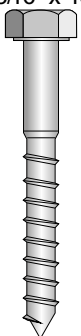
3/16" x 25



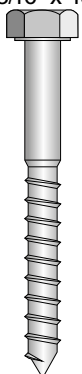
3/16" x 30



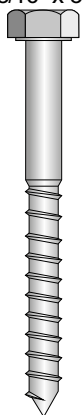
3/16" x 40



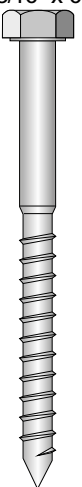
3/16" x 45



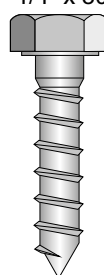
3/16" x 50



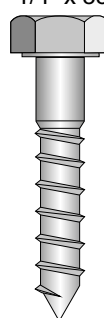
3/16" x 60



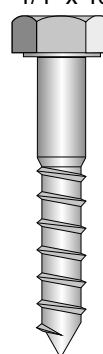
1/4" x 30



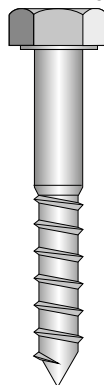
1/4" x 35



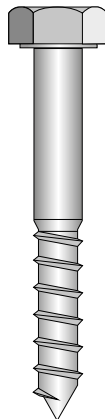
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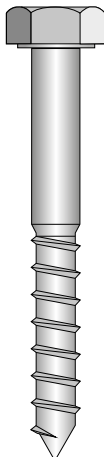
1/4" x 45



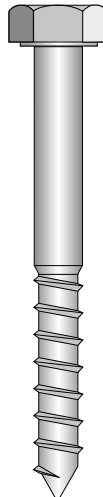
1/4" x 50



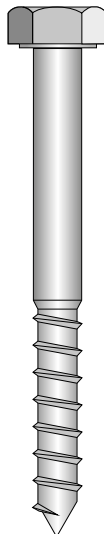
1/4" x 55



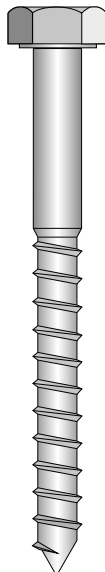
1/4" x 60



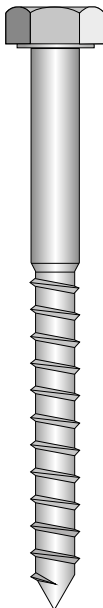
1/4" x 65



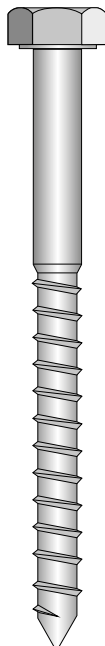
1/4" x 70



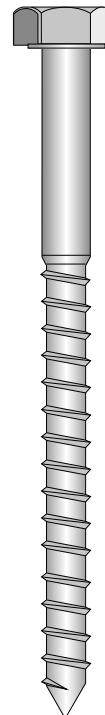
1/4" x 75



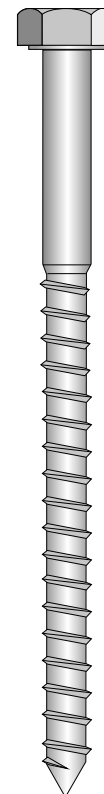
1/4" x 80



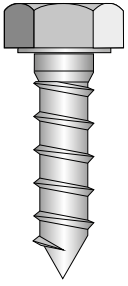
1/4" x 90



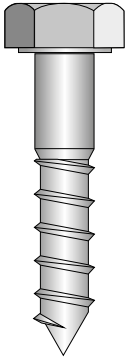
1/4" x 100



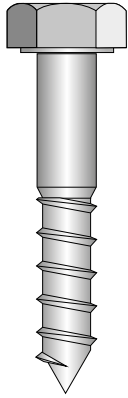
5/16" x 30



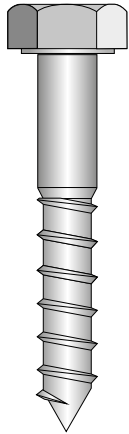
5/16" x 40



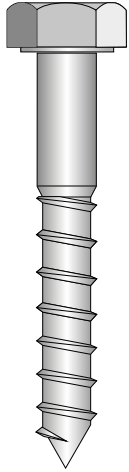
5/16" x 45



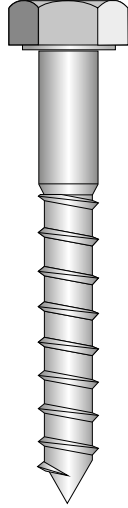
5/16" x 50



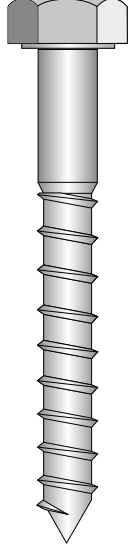
5/16" x 55



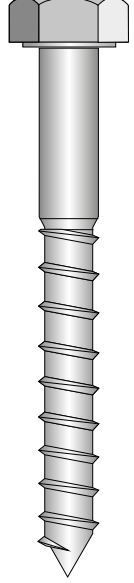
5/16" x 60



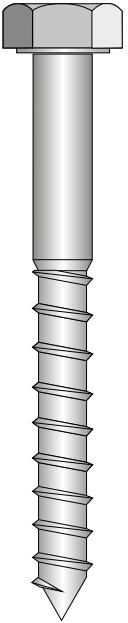
5/16" x 65



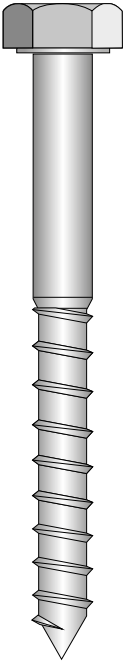
5/16" x 70



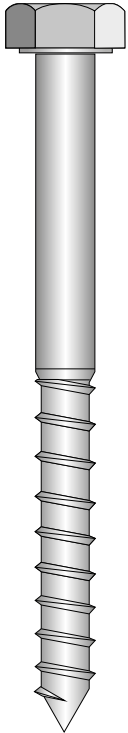
5/16" x 75



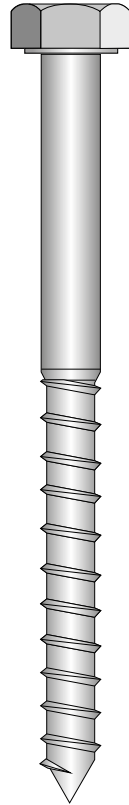
5/16" x 80



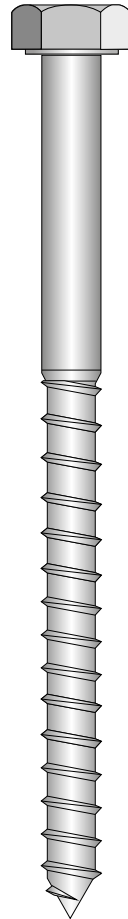
5/16" x 90



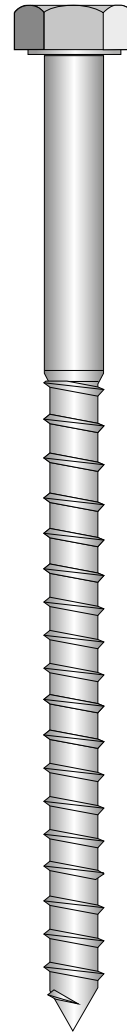
5/16" x 100



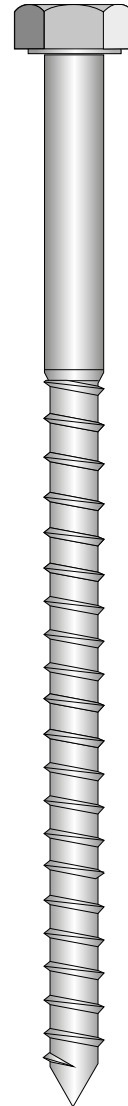
5/16" x 115



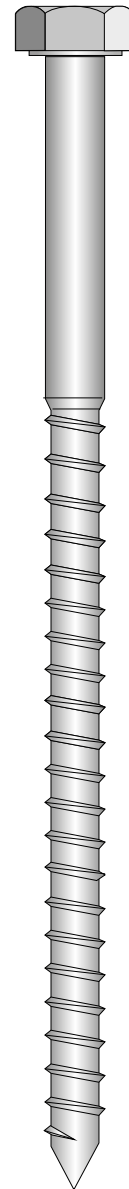
5/16" x 130

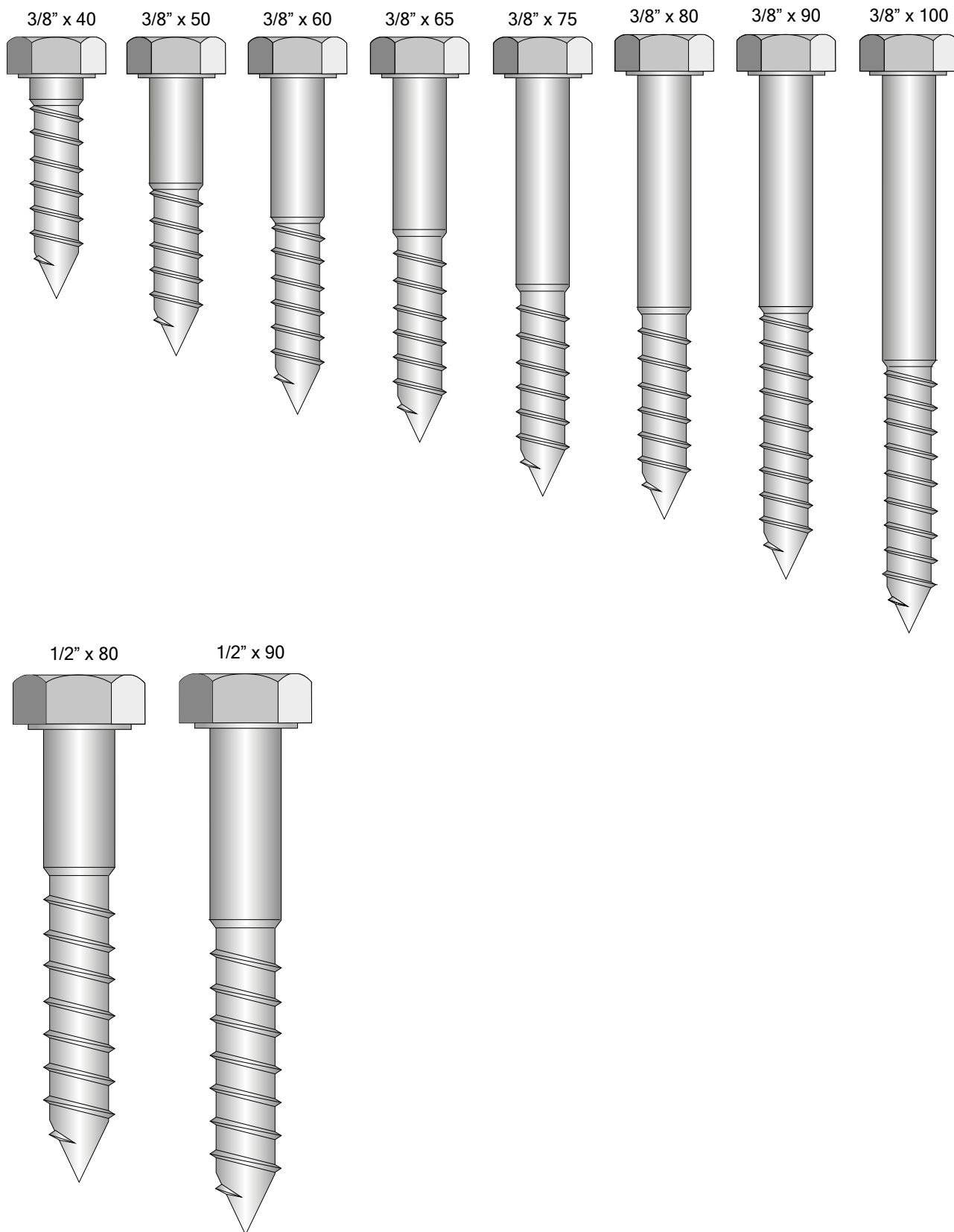


5/16" x 140



5/16" x 150



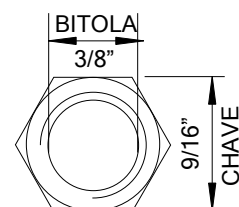
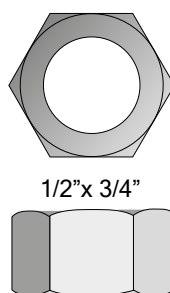
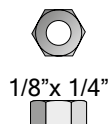


PORCA SEXTAVA BSW



APLICAÇÕES

Possuem diversas aplicações em conjunto com os parafusos franceses, sextavados, haste e barras roscadas, ou em qualquer outro tipo de fixador, desde que a rosca e a resistência sejam compatíveis.

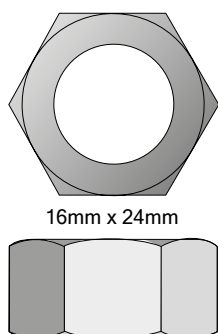
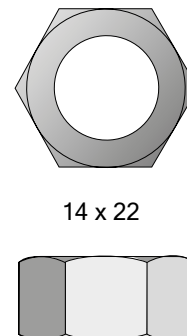
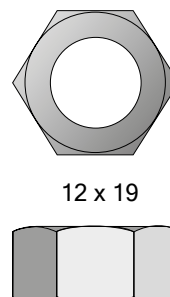
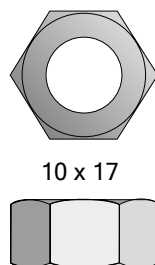
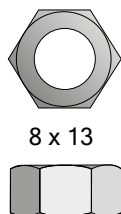
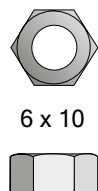
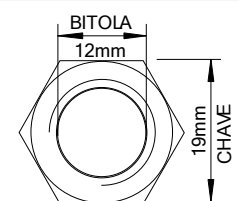


PORCA SEXTAVADA MÉTRICA MA



APLICAÇÕES

Possuem diversas aplicações em conjunto com os parafusos franceses, sextavados, haste e barras roscadas, ou em qualquer outro tipo de fixador, desde que a rosca e a resistência sejam compatíveis.

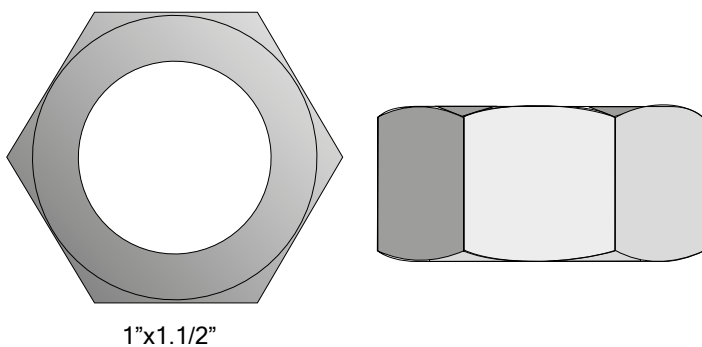
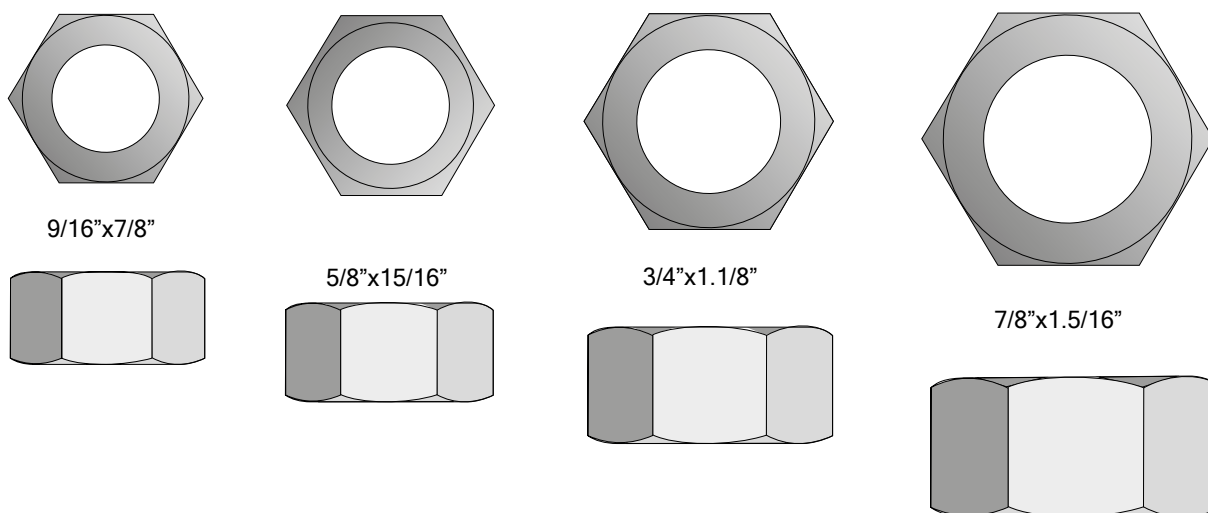
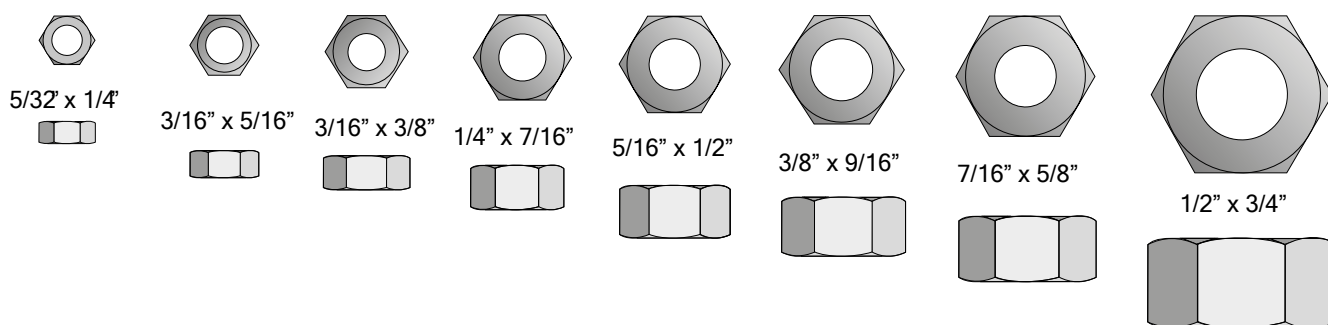
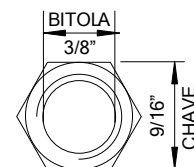


PORCA SEXTAVADA UNC



APLICAÇÕES

Possuem diversas aplicações em conjunto com os parafusos franceses, sextavados, haste e barras roscadas, ou em qualquer outro tipo de fixador, desde que a rosca e a resistência sejam compatíveis.

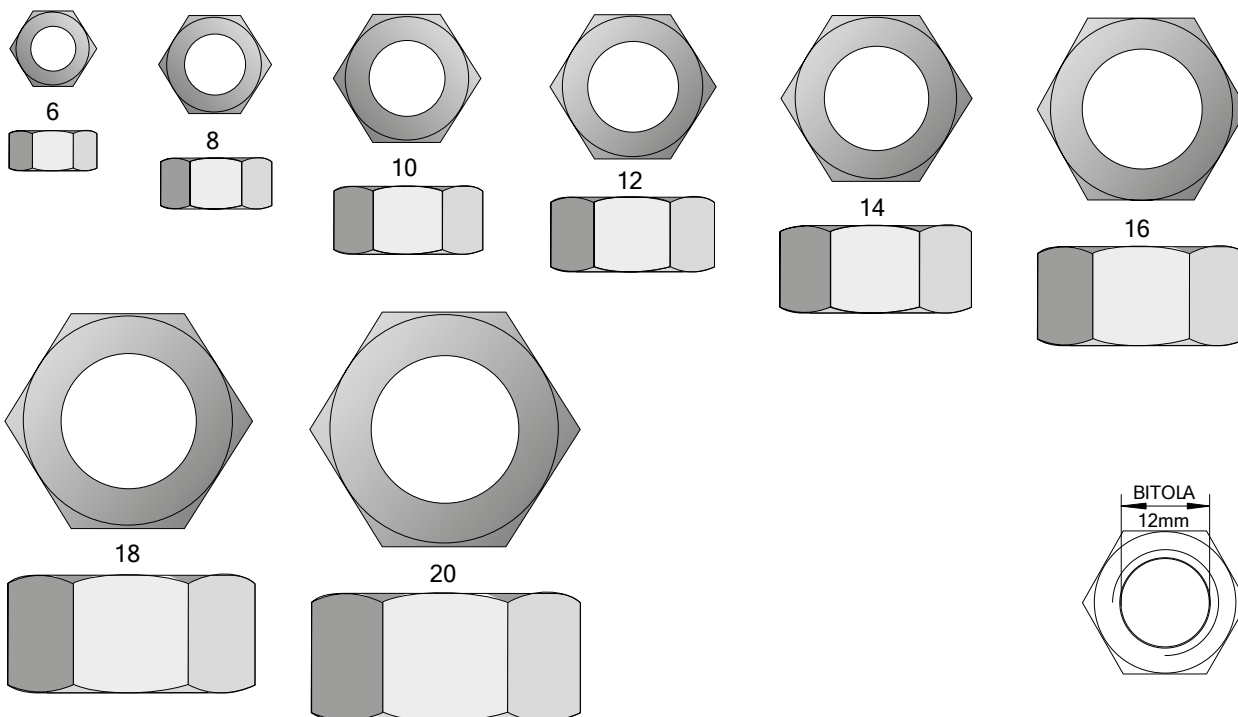


PORCA SEXTAVA C.8 - MA

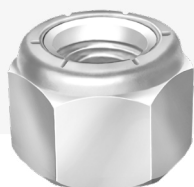


APLICAÇÕES

Possuem diversas aplicações em conjunto com os parafusos franceses, sextavados, haste e barras roscadas, ou em qualquer outro tipo de fixador.

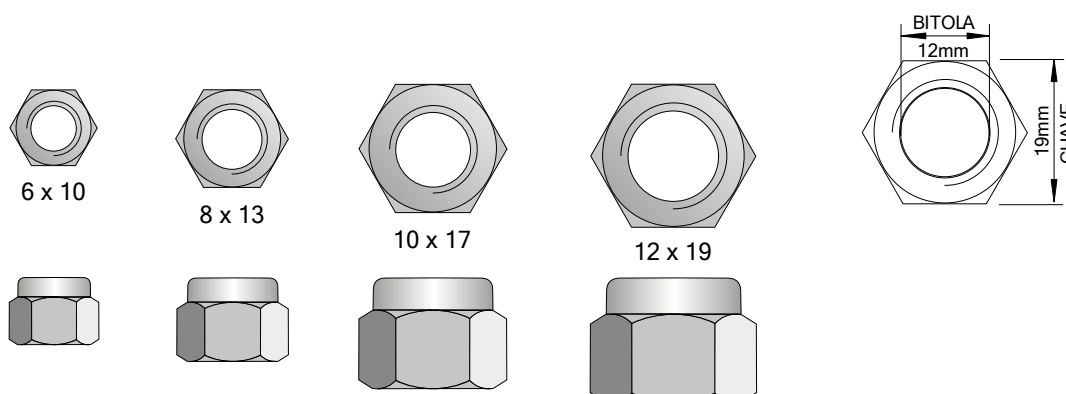


PORCA SEXTAVADA AUTO TRAVANTE MA C.8 -ALTA

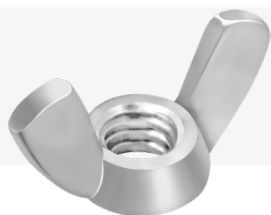


APLICAÇÕES

São utilizadas em montagens onde se exige segurança e confiabilidade, ou seja, em uniões roscadas sujeitas a interferências com vibrações, oscilações, etc.

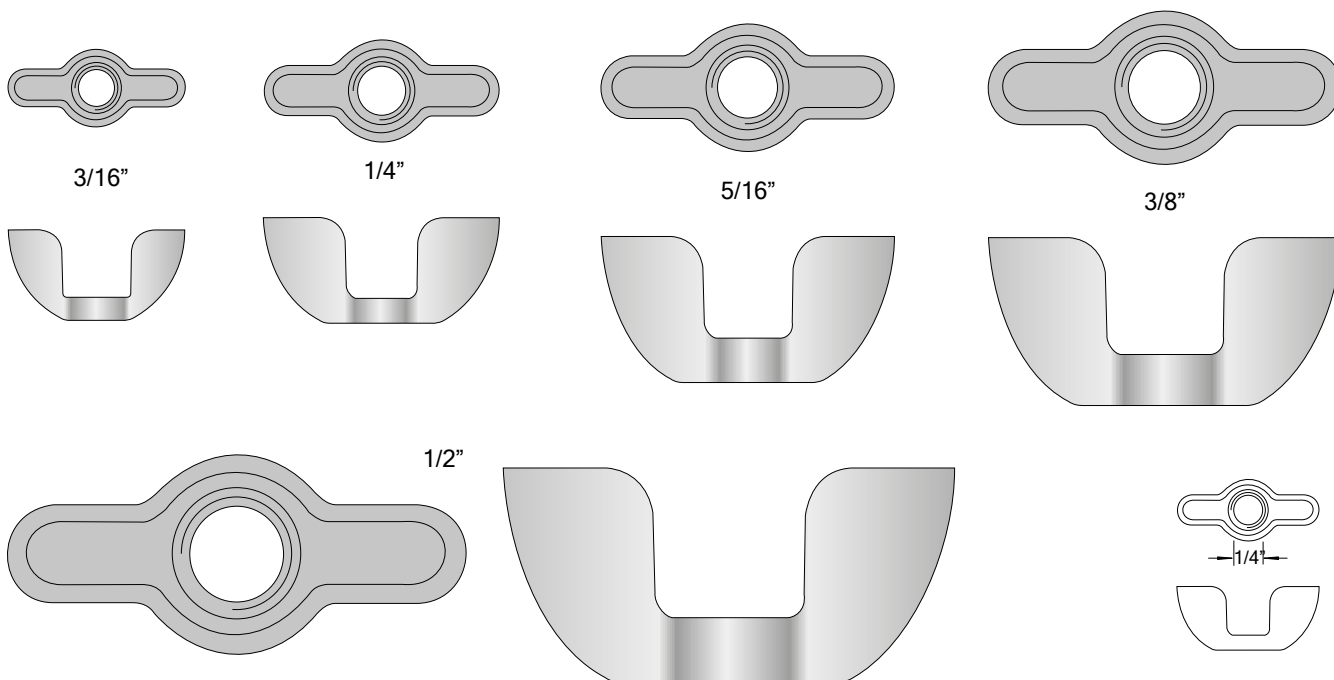


PORCA BORBOLETA UNC

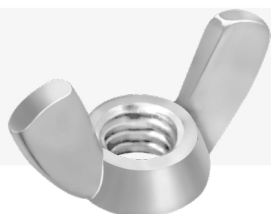


APLICAÇÕES

Utilizadas principalmente em montagens mecânicas onde não se exige grande aperto, já que o mesmo é feito manualmente. São muito usadas, portanto, em sistemas de regulagens, montagens e desmontagens frequentes e rápidas.

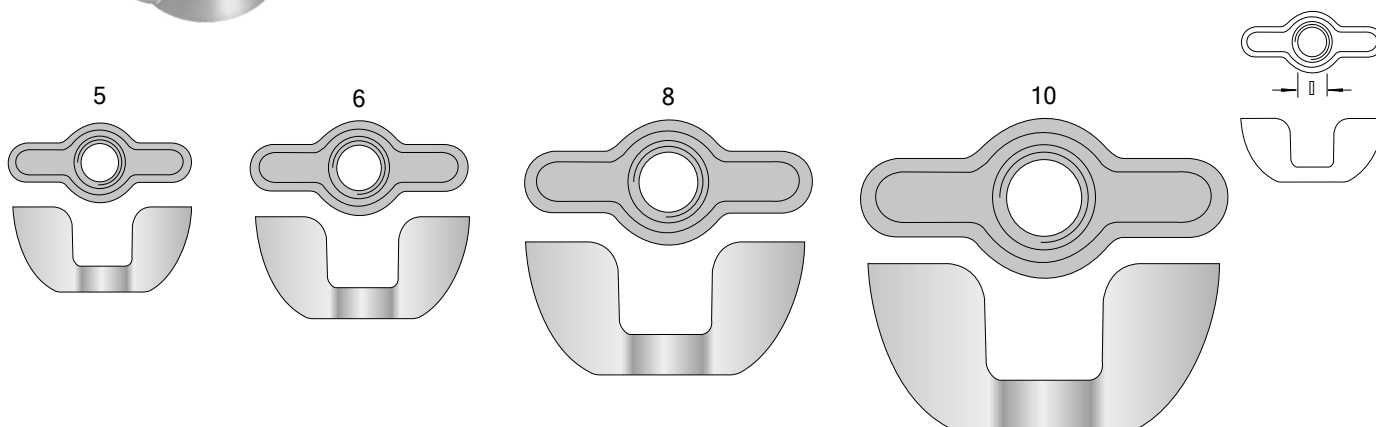


PORCA BORBOLETA MA



APLICAÇÕES

Utilizadas principalmente em montagens mecânicas onde não se exige grande aperto, já que o mesmo é feito manualmente. São muito usadas, portanto, em sistemas de regulagens, montagens e desmontagens frequentes e rápidas.

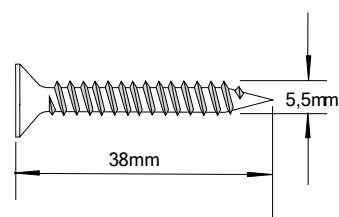


PARAFUSO AUTO ATARRAXANTE CABEÇA CHATA - FENDA PHILLIPS



APLICAÇÕES

Muito utilizados com buchas de nylon para fixação de acessórios e diversos objetos em paredes de alvenaria e concreto. Também utilizados em móveis tubulares e equipamentos fabricados com chapas metálicas finas.



2,2 x 6,5



2,2 x 9,5



2,2 x 13



2,9 x 9,5



2,9 x 13



2,9 x 16



2,9 x 19



3,5 x 13



3,5 x 16



3,5 x 19



3,5 x 22



3,5 x 25



3,9 x 13



3,9 x 16



3,9 x 19



3,9 x 22



3,9 x 25



3,9 x 32



4,2 x 16



4,2 x 19



4,2 x 22



4,2 x 25



4,2 x 32



4,2 x 38



4,8 x 22



4,8 x 25



4,8 x 32



4,8 x 38



4,8 x 45



4,8 x 50



5,5 x 32



5,5 x 38



5,5 x 50



6,3 x 45

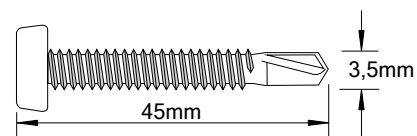
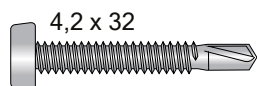
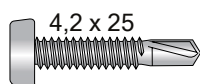
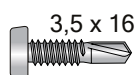
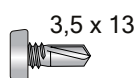


PARAFUSO AUTO ATARRAXANTE CABEÇA PANELA - PONTA BROCA - FENDA PHILLIPS



APLICAÇÕES

São utilizados em aplicações feitas em chapas metálicas, buscando a redução de operações pré-furo, pelo fato de possuírem ponta broca e, com isso, a capacidade de executar a fixação em uma única operação.

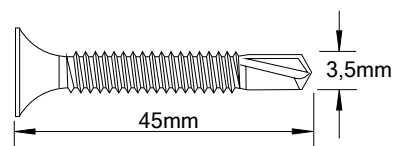
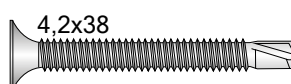
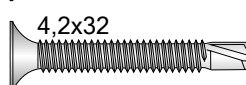
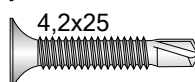
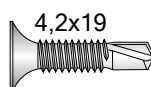
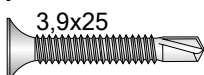
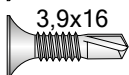
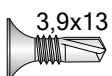
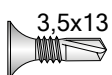


PARAFUSO AUTO ATARRAXANTE CABEÇA CHATA - PONTA BROCA - FENDA PHILLIPS



APLICAÇÕES

São utilizados em aplicações feitas em chapas metálicas, buscando a redução de operações pré-furo, pelo fato de possuírem ponta broca e, com isso, a capacidade de executar a fixação em uma única operação.



PARAFUSO MADEIRA CABEÇA CHATA FENDA COMBINADA



APLICAÇÕES

No ramo da construção civil são muito utilizados para a fixação de caixilhos de portas e esquadrias de janelas fabricadas em madeira, fixação de dobradiças e rodapés, etc. Podem também ser utilizados com buchas de nylon para fixação de objetos em paredes de concreto e alvenaria.

2,2 x 10



2,5 x 12



2,5 x 16



2,5 x 20



2,8 x 12



2,8 x 16



2,8 x 20



2,8 x 25



2,8 x 30



3,8 x 16



3,8 x 20



3,8 x 22



3,8 x 25



3,8 x 30



3,8 x 40



3,8 x 45



3,8 x 50



3,2 x 12



3,2 x 16



3,2 x 20



3,2 x 25



3,2 x 30



3,5 x 12



3,5 x 16



3,5 x 20



3,5 x 22



3,5 x 25



3,5 x 30



3,5 x 40



3,5 x 45



4,2 x 20



4,2 x 22



4,2 x 25



4,2 x 30



4,2 x 40



4,2 x 45



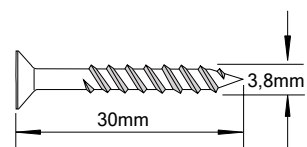
4,2 x 50

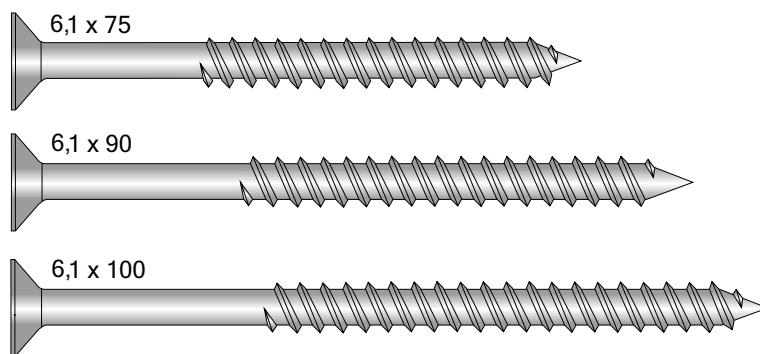
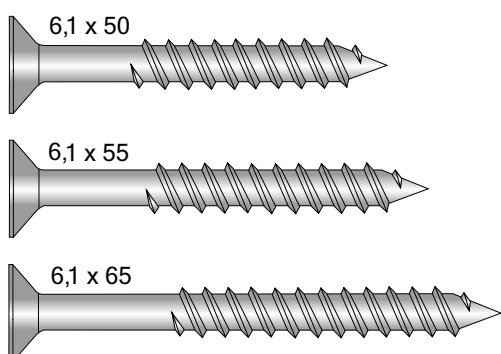
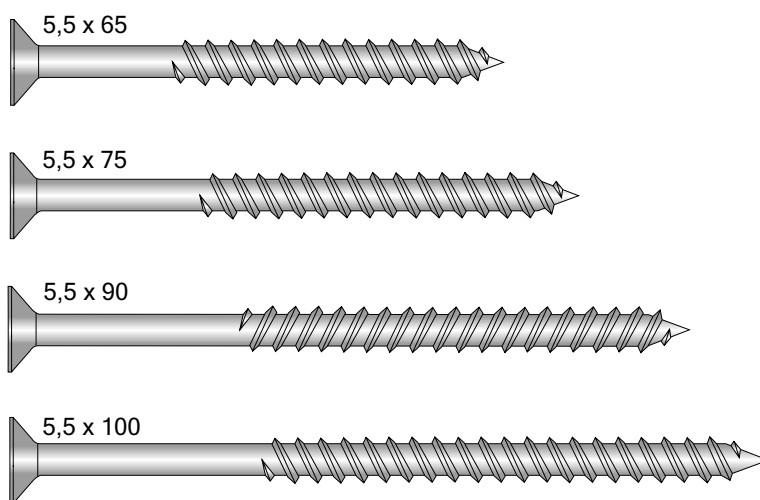
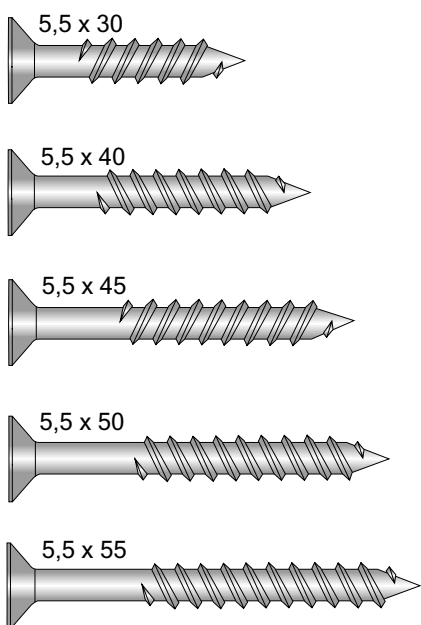
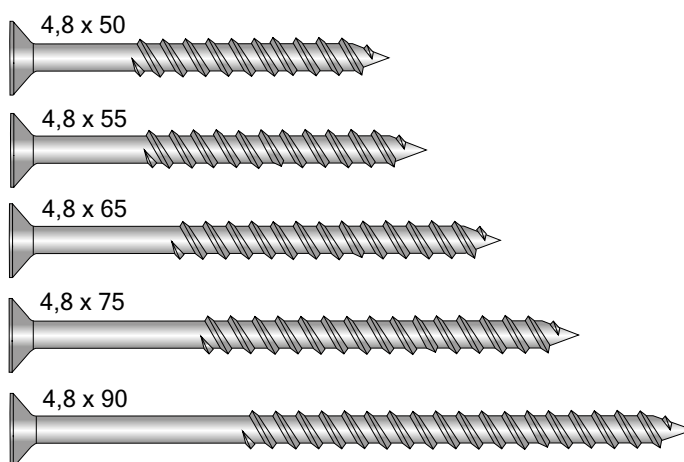
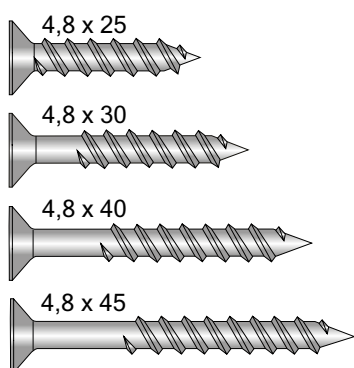
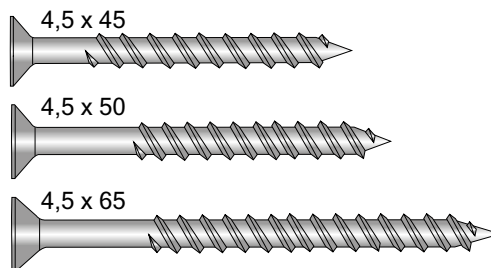
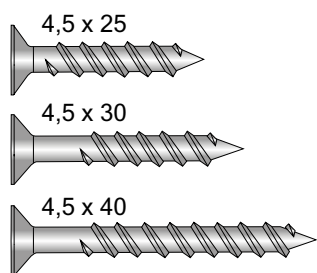


4,2 x 55



4,2 x 65



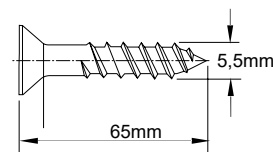


PARAFUSO MADEIRA CABEÇA CHATA - FENDA PHILLIPS



APLICAÇÕES

No ramo da construção civil são muito utilizados para a fixação 5,5mm de caixilhos de portas e esquadrias de janelas fabricadas em madeira, fixação de dobradiças e rodapés, etc. Podem também ser utilizados com buchas de nylon para fixação de objetos em paredes de concreto e alvenaria.



2,2 x 10



2,5 x 12



2,5 x 16



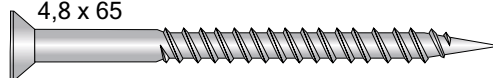
3,8 x 30



3,8 x 40



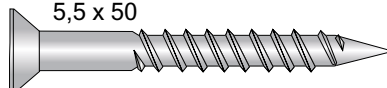
4,8 x 65



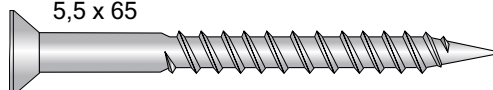
4,8 x 75



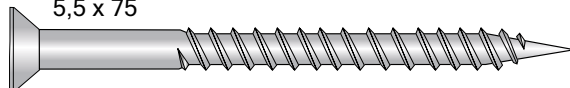
5,5 x 50



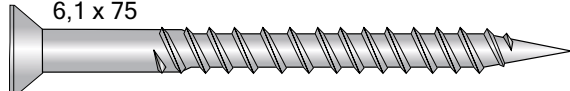
5,5 x 65



5,5 x 75



6,1 x 75

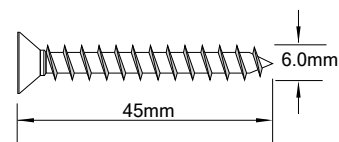
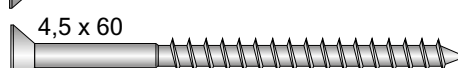
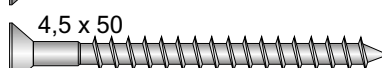
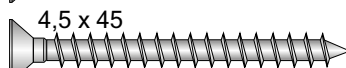
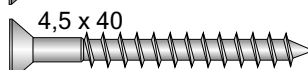
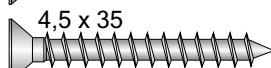
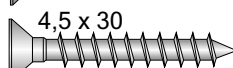
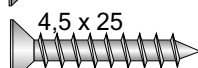
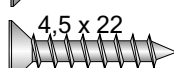
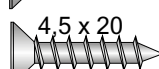
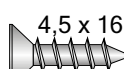
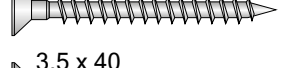
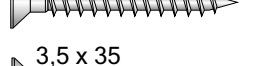
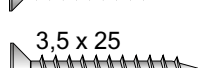
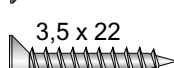
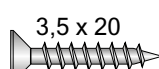
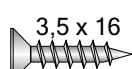
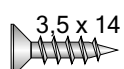
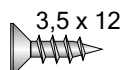
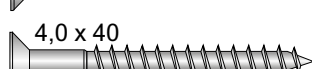
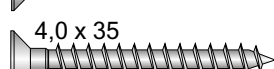
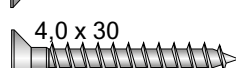
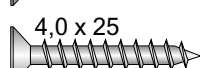
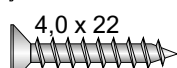
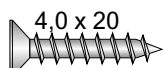
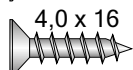
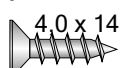
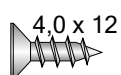
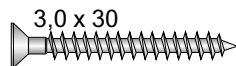
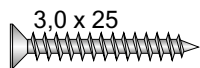
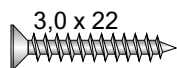
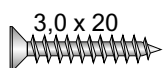
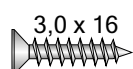
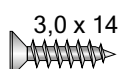
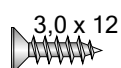
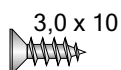


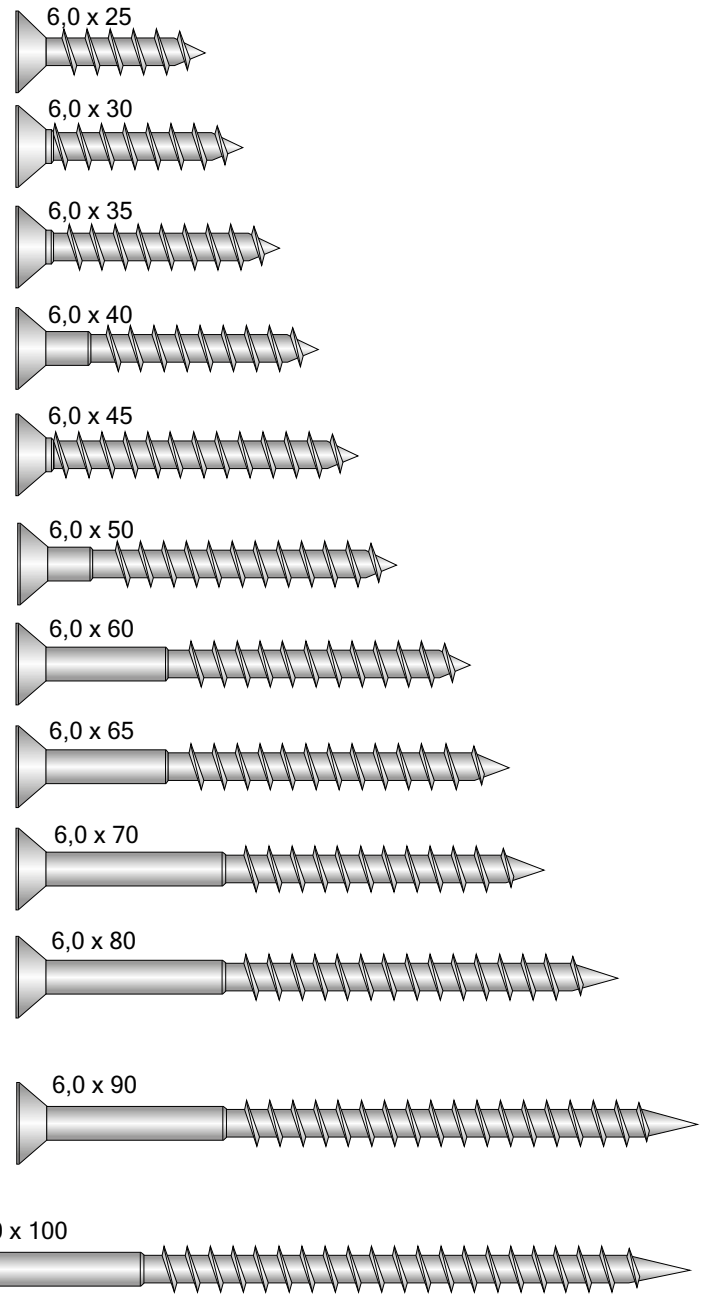
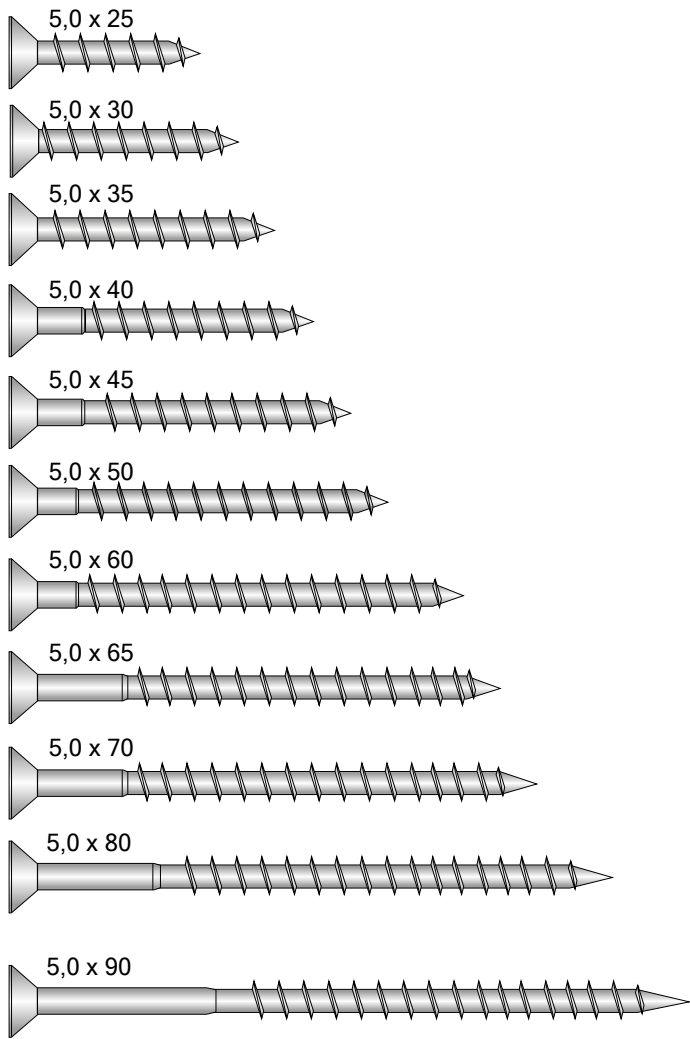
PARAFUSO CHIPBOARD CABEÇA CHATA FENDA PHILLIPS



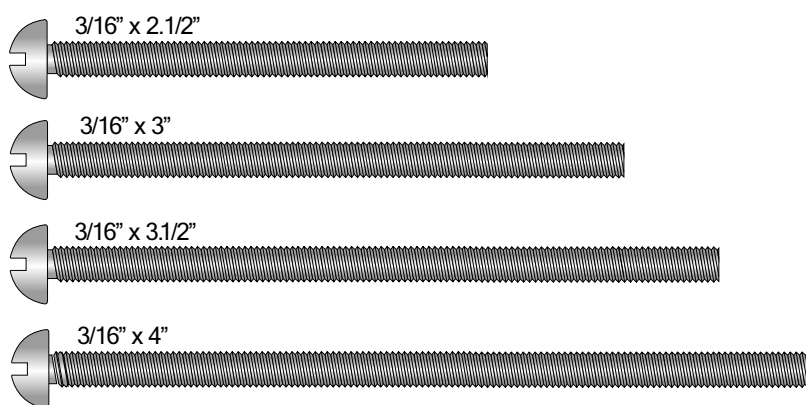
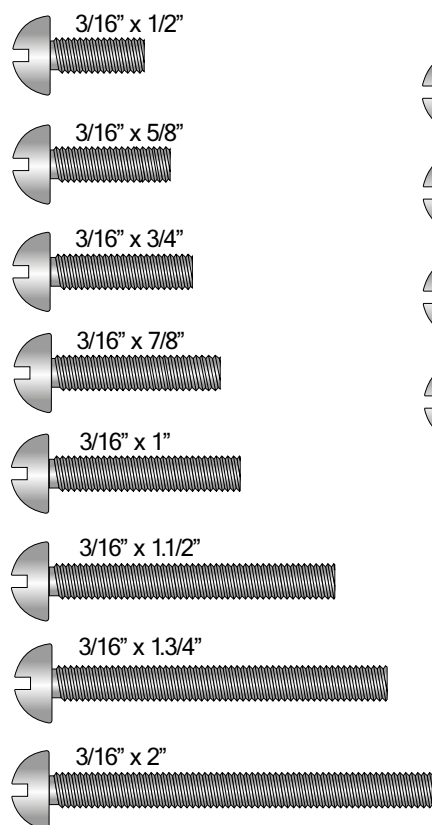
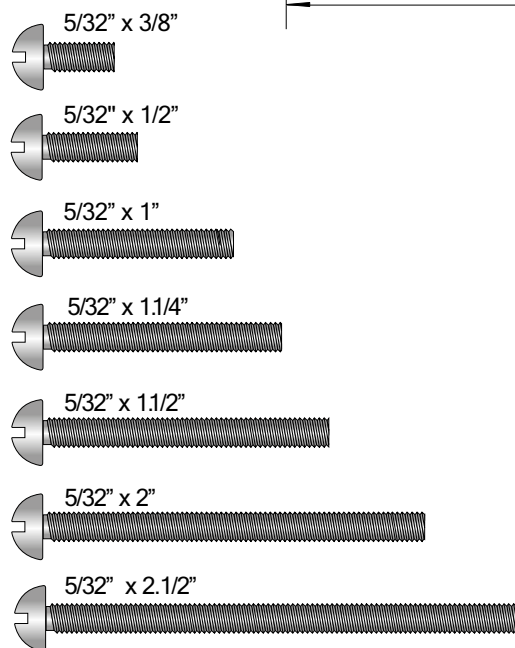
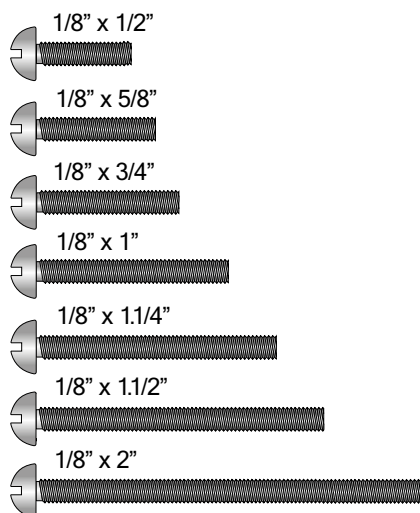
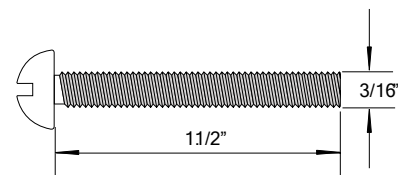
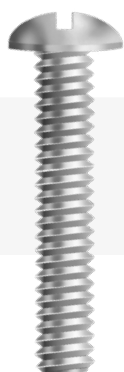
APLICAÇÕES

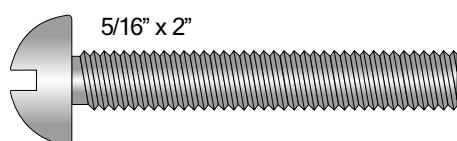
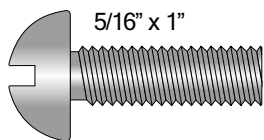
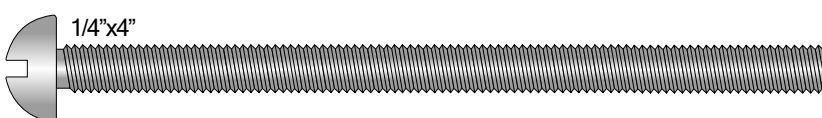
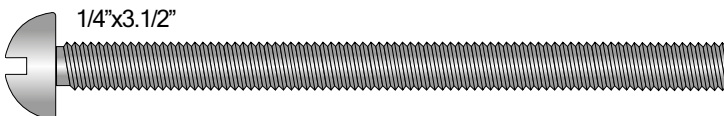
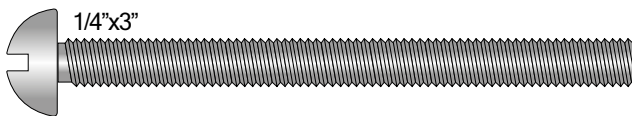
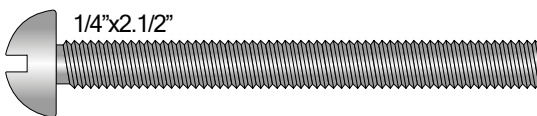
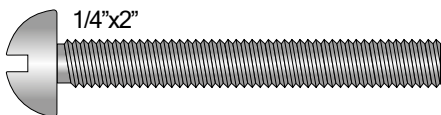
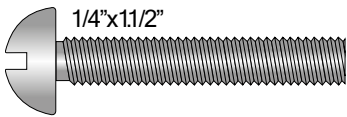
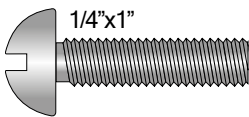
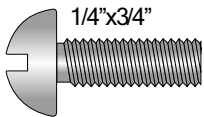
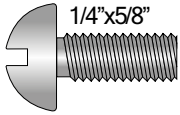
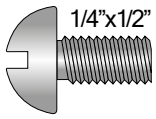
São fixadores desenvolvidos exclusivamente para a indústria moveleira, utilizados na fabricação de móveis em madeiras leves (pinus e aglomerados) e MDF.





PARAFUSO MÁQUINA CABEÇA REDONDA FENDA SIMPLES



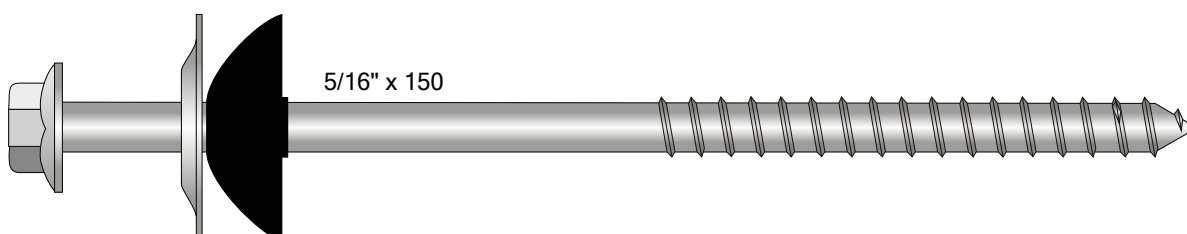
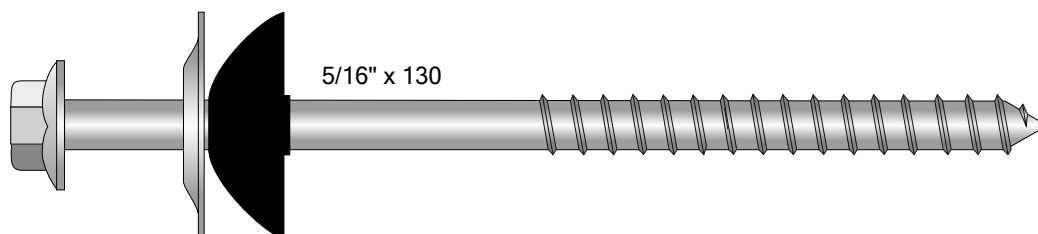
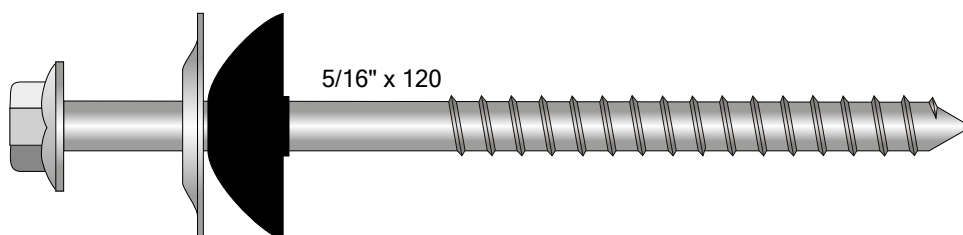
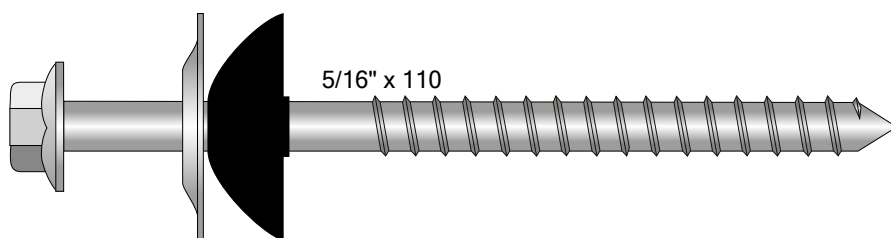
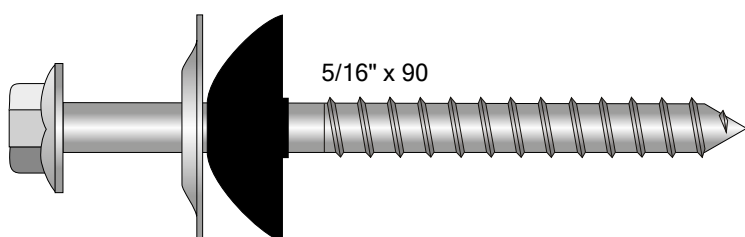
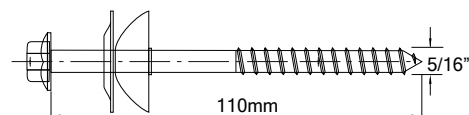


CONJUNTO PARAFUSO SEXTAVADO PARA TELHA DE FIBRO-CIMENTO



APLICAÇÕES

Utilizado exclusivamente na fixação de telhas, geralmente de fibro-cimento em caibros de madeira. Já vem acompanhado das arruelas de vedação de ferro e PVC.

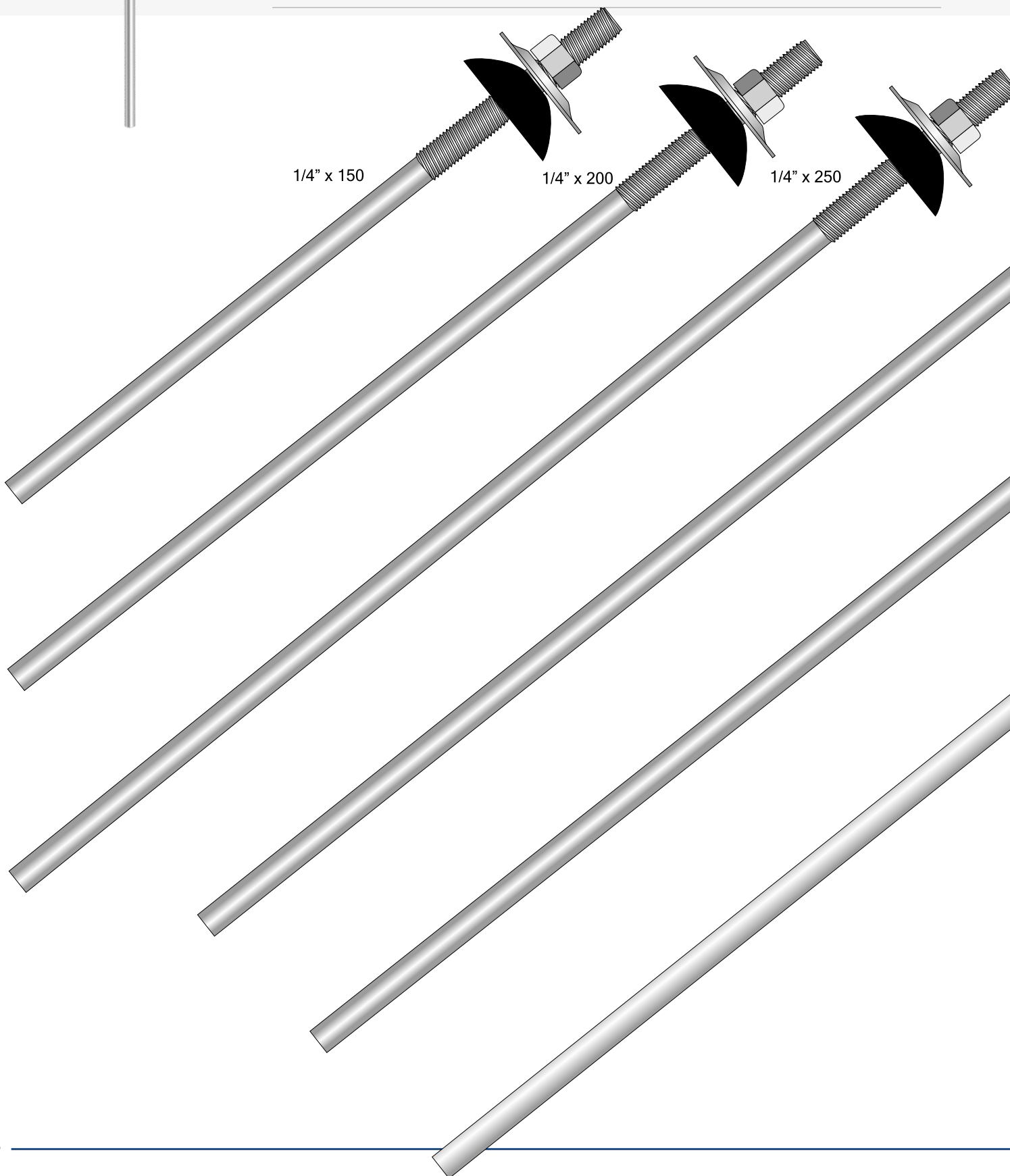


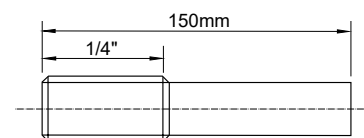
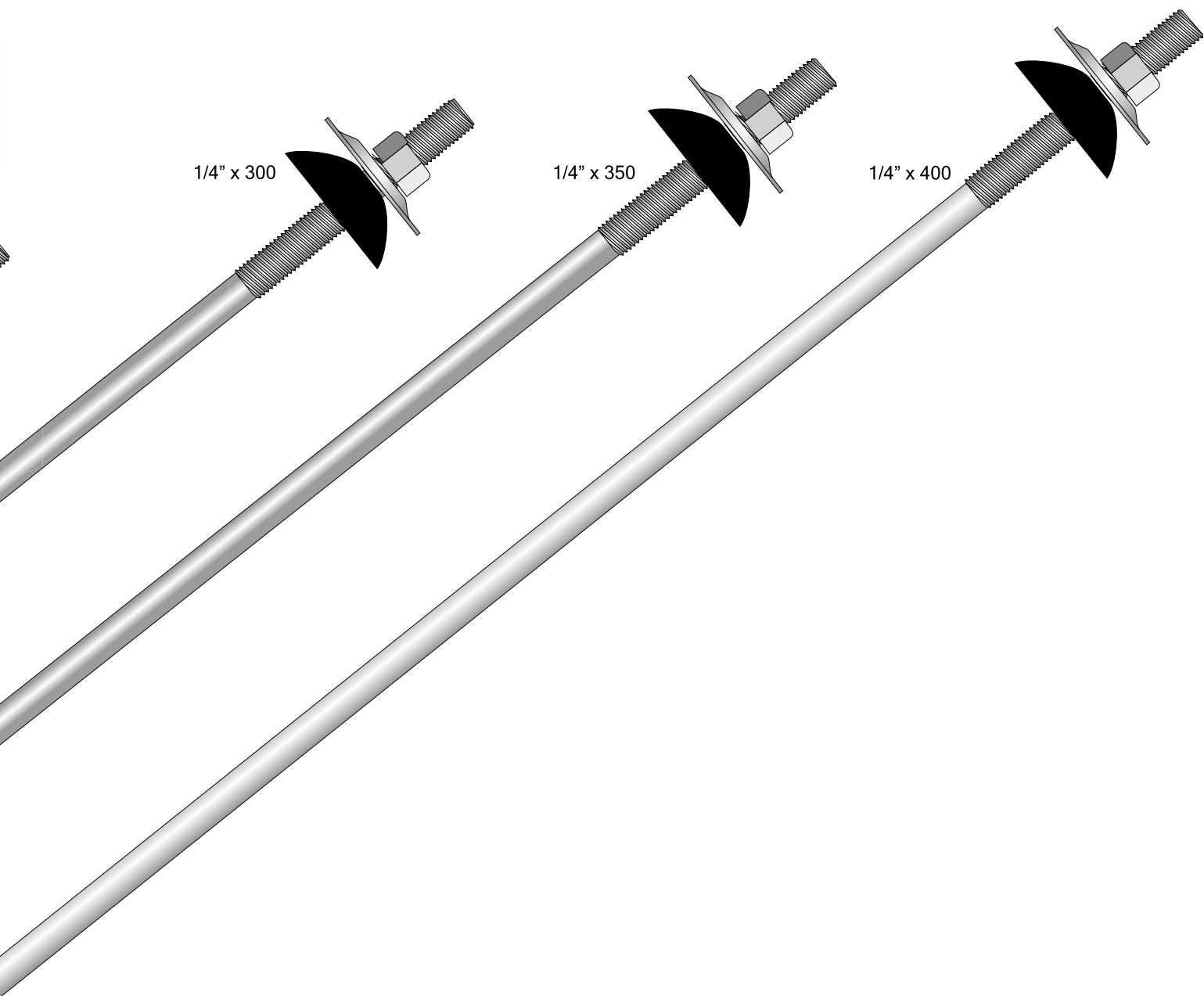
CONJUNTO HASTE PARA TELHA



APLICAÇÕES

Utilizadas exclusivamente em fixação de telhas, em estruturas metálicas. São dobradas em forma de gancho "J" (jota), posteriormente no momento da montagem, em comprimentos conforme a necessidade.





INFORMAÇÕES TÉCNICAS

Uso orientativo

Parafusos X Buchas de Nylon

Buchas Nº	Bitolas aplicáveis			Parafusos mais utilizados
	Auto-atarraxante	Madeira	Sextavado soberba	
4	2,2	2,2 a 2,8	–	2,8 x 25 - 2,8 x 30
5	2,9 a 3,5	2,2 a 3,8	–	2,8 x 30 - 3,2 x 40 - 3,5 x 45
6	3,5 a 4,8	3,5 a 4,8	–	3,5 x 40 - 3,8 x 45 - 4,2 x 50 - 4,5 x 50
7	4,2 a 5,5	4,2 a 5,5	–	4,2 x 40 - 4,5 x 45 - 4,8 x 50
8	4,8 a 5,5	4,5 a 6,1	3/16	4,5 x 50 - 4,8 x 65 - 5,5 x 65
10	6,3	6,1	1/4 a 5/16 (6,0 a 8,0)	5,5 x 65 - 6,1 x 75
12	–	–	5/16 a 3/8 (8,0 a 10,0)	Sext. Soberba 5/16 x 80
14	–	–	3/8 a 1/2 (10,0 a 12,0)	Sext. Soberba 3/8 x 100
16	–	–	1/2 (13,0)	Sext. Soberba 1/2 x 110
20	–	–	5/8 (16,0)	Sext. Soberba 5/8 x 130

OBS. 1) Na escolha do parafuso verificamos que para cada tamanho de bucha, existe uma faixa de diâmetros de parafusos que podem ser utilizados. Quando a aplicação exige maior resistência, utiliza-se o maior diâmetro do parafuso que a bucha admite. Para uma carga menor, pode-se utilizar o menor diâmetro.

2) Para uma fixação correta utilize sempre um parafuso de diâmetro dentro da faixa especificada na tabela acima. Quanto ao comprimento do parafuso, deve ser igual ao da bucha, acrescido do diâmetro do próprio parafuso e da espessura do objeto a ser fixado.

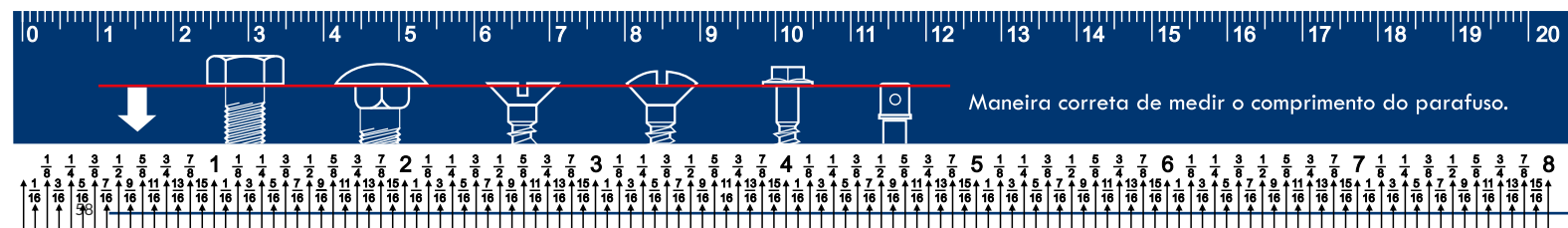
Conversão de Medidas

Polegada	mm	Polegada	mm	Polegada	mm	Polegada	mm
1/64	0,397	21/64	8,334	41/64	16,272	61/64	24,209
1/32	0,794	11/32	8,731	21/32	16,669	31/32	24,606
3/64	1,191	23/64	9,128	43/64	17,066	63/64	25,003
1/16	1,588	3/8	9,525	11/16	17,463	1	25,400
5/64	1,984	25/64	9,922	45/64	17,859	1.1/4	31,750
3/32	2,381	13/32	10,319	23/32	18,256	1.1/2	38,100
7/64	2,778	27/64	10,716	47/64	18,653	1.3/4	44,450
1/8	3,175	7/16	11,113	3/4	19,050	2	50,800
9/64	3,572	29/64	11,509	49/64	19,447	2.1/2	63,500
5/32	3,969	15/32	11,906	25/32	19,844	3	76,200
11/64	4,366	31/64	12,303	51/64	20,241	3.1/2	88,900
3/16	4,763	1/2	12,700	13/16	20,638	4	101,600
13/64	5,159	33/64	13,097	53/64	21,034	4.1/2	114,300
7/32	5,556	17/32	13,494	27/32	21,431	5	127,000
15/64	5,953	35/64	13,891	55/64	21,828	5.1/2	139,700
1/4	6,350	9/16	14,288	7/8	22,225	6	152,400
17/64	6,747	37/64	14,684	57/64	22,622	7	177,800
9/32	7,144	19/32	15,081	29/32	23,019	8	203,200
19/64	7,541	39/64	15,478	59/64	23,416	9	228,600
5/16	7,938	5/8	15,875	15/16	23,813	10	254,000

Tabela de Roscas

Medidas polegada	Fios por pol.		Diâmetro da broca
	UNC	UNF	
1/8	40	44	2,5
5/32	32	36	3,1
3/16	24	32	3,6
7/32	24	28	4,4
1/4	20	28	5,1
5/16	18	24	6,5
3/8	16	24	7,9
7/16	14	20	9,2
1/2	13	20	10,5
1/2 WW	12	–	10,5
9/16	12	18	12,0
5/8	11	18	13,4
3/4	10	16	16,4
7/8	9	14	19,25
1	8	12	22,0

Medidas mm	Passo		Diâmetro da Broca
	MA	MB	
M 3	0,50	0,35	2,5
M 4	0,70	0,50	3,3
M 5	0,80	0,50	4,2
M 6	1,00	0,75	5,0
M 8	1,25	1,00	6,8
M 10	1,50	1,00	8,5
M 12	1,75	1,50	10,2
M 14	2,00	1,50	12,0
M 16	2,00	1,50	14,0
M 18	2,50	1,50	15,5





CONHEÇA
A CISER

