

Industrial Rivets

How To Select The Right Rivet

First determine the shear and tensile strengths required for the application and then select the best rivet to meet those requirements. Rivet style (structural or non-structural), rivet material, rivet diameter and fastener spacing all contribute to the holding ability of the fastener. Refer to the tables under "Typical Ultimate Strength" for shear and tensile strengths.

If possible, it is best to select a rivet made of a material compatible with the metals being joined. Also consider the environment in which the finished products will be subjected to, such as moisture, corrosive atmosphere or high temperatures, when choosing the proper rivet.

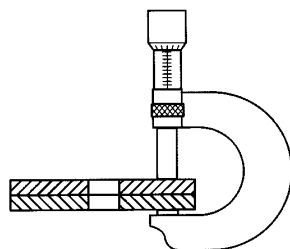
Celus rivets are available in five diameters: 3/32", 1/8", 5/32", 3/16" and 1/4". Refer to the tables to find the recommended hole size for each rivet. It is most important that the hole size be correct to assure proper rivet performance.

Measure the total thickness of the materials to be joined to determine the required grip of the rivet. Then turn to the tables to locate the grip ranges of each rivet. Be sure to choose a rivet with a sufficient grip range to allow proper formation of the secondary head at the back of the work.

Celus blind rivets are available in a variety of styles. For most applications, the dome head produces a nice, neat, low profile finished assembly. Large flange heads are recommended where soft or brittle materials are fastened to a rigid backing material. Where a flush surface is required, use Celus countersunk rivets. Closed-end rivets should be selected where a tight seal, preventing the passage of liquid around or through the set rivet is required. Many closed-end rivets have the added benefit of greater shear and tensile strengths and better mandrel retention than open-end blind rivets.

Quality: H = Hi-Shear Rivets
Rivet Material: A= Aluminum, C=Copper, S=Steel, SS=Stainless Steel
Mandrel Material: A=Aluminum, S=Steel, SS=Stainless Steel, B=Brass
Rivet Diameter: 32nds of an inch
Grip Range: 16ths of an inch
Head Style: D=Dome, C=Countersunk, LF=Large Flange, SH=Snaphead

How To Measure Work Thickness

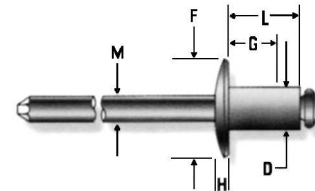


Domed Head Aluminum Rivet/Aluminum Mandrel Grade II IFI 114

EBN Part No.	(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia. Nom.	(F) Flange Dia. Nom.	(H) Head Height Max.	(L) Barrel Length Max.	(G) Grip Range	Typical Ultimate* Strength	
								Shear Lbs.	Tensile Lbs.
/GAMD32A	3/32	.097-.100	.057	.188	.032	.250	.020-.125	85	135
/GAMD34A	24	#41				.375	.126-.250		
/GAMD41A						.212	.020-.062		
/GAMD42A						.275	.063-.125		
/GAMD43A						.337	.126-.187		
/GAMD44A	1/8	.129-.133	.076	.250	.040	.400	.188-.250	155	235
/GAMD45A	3.2	#30				.462	.251-.312		
/GAMD46A						.525	.313-.375		
/GAMD48A						.650	.376-.500		
/GAMD410A						.775	.501-.625		
/GAMD52A						.300	.020-.125		
/GAMD53A						.362	.126-.187		
/GAMD54A	5/32	.160-.164	.095	.312	.050	.425	.188-.250	225	350
/GAMD56A	4.0	#20				.550	.251-.375		
/GAMD58A						.675	.376-.500		
/GAMD510A						.800	.501-.625		
/GAMD62A						.325	.020-.125		
/GAMD63A						.387	.126-.187		
/GAMD64A						.450	.188-.250		
/GAMD66A						.575	.251-.375		
/GAMD68A	3/16	.192-.196	.114	.375	.060	.700	.376-.500	315	500
/GAMD610A	4.8	#11				.825	.501-.625		
/GAMD612A						.950	.626-.750		
/GAMD614A						1.075	.751-.875		
/GAMD616A						1.200	.876-1.000		
/GAMD84A						.500	.020-.250		
/GAMD86A						.625	.251-.375		
/GAMD88A						.750	.376-.500		
/GAMD100A	1/4	.257-.261	.151	.500	.080	.875	.501-.625	600	750
/GAMD12A	6.4	F				1.000	.626-.750		
/GAMD14A						1.125	.751-.875		
/GAMD16A						1.250	.876-1.000		

Max. Barrel Length per IFI 114

* Values shown are a guide only and may vary depending upon the application.



Large Flange Aluminum Rivet/Aluminum Mandrel Grade II IFI 114

EBN Part No.	(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia. Nom.	(F) Flange Dia. Nom.	(H) Head Height Max.	(L) Barrel Length Max.	(G) Grip Range	Typical Ultimate* Strength	
								Shear Lbs.	Tensile Lbs.
/GAML42A	1/8	.129-.133	.076	.375	.065	.275	.020-.125	155	235
/GAML43A						.337	.126-.187		
/GAML44A	3.2	#30				.400	.188-.250		
/GAML46A						.525	.251-.375		
/GAML48A						.650	.376-.500		
/GAML54A	5/32	.160-.164	.095	.468	.075	.425	.020-.250	225	350
/GAML56A	4.0	#20				.550	.251-.375		
/GAML64A						.450	.020-.250		
/GAML66A						.575	.251-.375		
/GAML68A						.700	.376-.500		
/GAML610A	3/16	.192-.196	.114	.625	.092	.825	.501-.625	315	500
/GAML612A	4.8	#11				.950	.626-.750		
/GAML616A						1.200	.751-1.000		
/GAML618A						1.325	1.001-1.125		
/GAML620A						1.450	1.126-1.250		

Max. Barrel Length per IFI 114

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Industrial Rivets

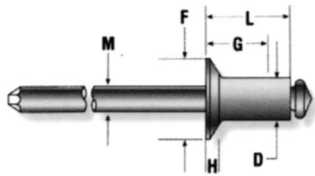
Countersunk

Aluminum Rivet/Aluminum Mandrel Grade II IFI 114

EBN Part No.	(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia. Nom.	(F) Flange Dia. Nom.	(H) Head Height Max.	(L) Barrel Length Max.	(G) Grip Range	Typical Ultimate* Strength	
								Shear Lbs.	Tensile Lbs.
/GAMC42A						.275	.020-.125		
/GAMC43A	1/8	.129-.133	.076	.220	.031	.337	.126-.187	155	235
/GAMC44A	3/2	#30				.400	.188-.250		
/GAMC63A	3/16	.192-.196	.114	.348	.050	.387	.020-.187	315	500
/GAMC64A	4.8	#11				.450	.188-.250		

Max. Barrel Length per IFI 114

* Values shown are a guide only and may vary depending upon the application.



Countersunk

Aluminum Rivet/Steel Mandrel Grade 18 IFI 114

EBN Part No.	(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia. Nom.	(F) Flange Dia. Nom.	(H) Head Height Max.	(L) Barrel Length Max.	(G) Grip Range	Typical Ultimate* Strength	
								Shear Lbs.	Tensile Lbs.
/GSMC42A						.275	.020-.125		
/GSMC43A	1/8	.129-.133	.076	.220	.031	.337	.126-.187	210	325
/GSMC44A	3.2	#30				.400	.188-.250		
/GSMC63A	3/16	.192-.196	.114	.348	.050	.387	.020-.187	445	720
/GSMC64A	4.8	#11				.450	.188-.250		

Max. Barrel Length per IFI 114

* Values shown are a guide only and may vary depending upon the application.

Countersunk Steel Rivet/Steel Mandrel Grade 30 IFI 114

EBN Part No.	(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia. Nom.	(F) Flange Dia. Nom.	(H) Head Height Max.	(L) Barrel Length Max.	(G) Grip Range	Typical Ultimate* Strength	
								Shear Lbs.	Tensile Lbs.
/GSMC42S						.275	.020-.125		
/GSMC43S	1/8	.129-.133	.076	.220	.031	.337	.126-.187	295	425
/GSMC44S	3.2	#30				.400	.188-.250		
/GSMC46S						.525	.251-.375		
/GSMC63S	3/16	.192-.196	.114	.348	.050	.387	.020-.187	590	815
/GSMC64S	4.8	#11				.450	.188-.250		

Max. Barrel Length per IFI 114

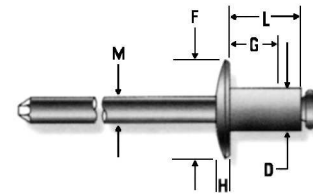
* Values shown are a guide only and may vary depending upon the application.

Large Flange Aluminum Rivet/Steel Mandrel Grade 18 IFI 114

EBN Part No.	(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia. Nom.	(F) Flange Dia. Nom.	(H) Head Height Max.	(L) Barrel Length Max.	(G) Grip Range	Typical Ultimate* Strength	
								Shear Lbs.	Tensile Lbs.
/GSML42A						.275	.020-.125		
/GSML43A	1/8	.129-.133	.076	.375	.065	.337	.126-.187	210	325
/GSML44A	3.2	#30				.400	.188-.250		
/GSML46A						.525	.251-.375		
/GSML54A	5/32	.160-.164	.095	.468	.075	.425	.020-.250	340	490
/GSML56A	4.0	#20				.550	.251-.375		
/GSML63A						.387	.126-.187		
/GSML64A						.450	.188-.250		
/GSML66A						.575	.251-.375		
/GSML68A						.700	.376-.500		
/GSML610A	3/16	.192-.196	.114	.625	.092	.825	.501-.625	445	720
/GSML612A	4.8	#11				.950	.626-.750		
/GSML616A						1.200	.751-1.000		
/GSML618A						1.325	.001-1.125		

Max. Barrel Length per IFI 114

* Values shown are a guide only and may vary depending upon the application.

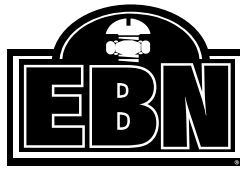


Domed Head Aluminum Rivet/Steel Mandrel Grade 18 IFI 114

EBN Part No.	(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia. Nom.	(F) Flange Dia. Nom.	(H) Head Height Max.	(L) Barrel Length Max.	(G) Grip Range	Typical Ultimate* Strength	
								Shear Lbs.	Tensile Lbs.
/GSMD32A	3/32	.097-.100	.057	.188	.032	.250	.020-.125	125	175
/GSMD34A	2.4	#41				.375	.126-.250		
/GSMD41A						.212	.020-.062		
/GSMD42A						.275	.063-.125		
/GSMD43A						.337	.126-.187		
/GSMD44A	1/8	.129-.133	.076	.250	.040	.400	.188-.250	210	325
/GSMD45A	3.2	#30				.462	.251-.312		
/GSMD46A						.525	.313-.375		
/GSMD48A						.650	.376-.500		
/GSMD410A						.775	.501-.625		
/GSMD52A						.300	.020-.125		
/GSMD53A						.362	.126-.187		
/GSMD54A	5/32	.160-.164	.095	.312	.050	.425	.188-.250	340	490
/GSMD56A	4.0	#20				.550	.251-.375		
/GSMD58A						.675	.376-.500		
/GSMD510A						.800	.501-.625		
/GSMD62A						.325	.020-.125		
/GSMD63A						.387	.126-.187		
/GSMD64A						.450	.188-.250		
/GSMD66A						.575	.251-.375		
/GSMD68A						.700	.376-.500		
/GSMD610A	3/16	.192-.196	.114	.375	.060	.825	.501-.625	445	720
/GSMD612A	4.8	#11				.950	.626-.750		
/GSMD614A						1.075	.751-.875		
/GSMD616A						1.200	.876-1.000		
/GSMD84A						.500	.020-.250		
/GSMD86A						.625	.251-.375		
/GSMD88A						.750	.376-.500		
/GSMD810A	1/4	.257-.261	.151	.500	.080	.875	.510-.625	890	1,200
/GSMD812A	6.4	F				1.000	.626-.750		
/GSMD814A						1.125	.751-.875		
/GSMD816A						1.250	.876-1.000		

Max. Barrel Length per IFI 114

* Values shown are a guide only and may vary depending upon the application.



Industrial Rivets
Domed Head
Steel Rivet/Steel Mandrel
Grade 30 IFI 114

EBN Part No.	(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia. Nom.	(F) Flange Dia. Nom.	(H) Head Height Max.	(L) Barrel Length Max.	(G) Grip Range	Typical Ultimate* Strength	
								Shear Lbs.	Tensile Lbs.
/GSMD32S /GSMD34S	3/32 2.4	.097-.100 #41	.057	.188	.032	.250 .375	.020-.125 .126-.250	150	205
/GSMD41S /GSMD42S /GSMD43S /GSMD44S /GSMD45S /GSMD46S /GSMD48S /GSMD410S /GSMD412S	1/8 3.2	.129-.133 #30	.076	.250	.040	.400 .462 .525 .650 .775 .900	.063-.125 .126-.187 .188-.250 .251-.312 .313-.375 .376-.500 .501-.625 .626-.750	295	425
/GSMD52S /GSMD53S /GSMD54S /GSMD56S /GSMD58S /GSMD510S	5/32 4.0	.160-.164 #20	.095	.312	.050	.300 .362 .425 .550 .675 .800	.020-.125 .126-.187 .188-.250 .251-.375 .376-.500 .501-.625	410	570
/GSMD62S /GSMD63S /GSMD64S /GSMD66S /GSMD68S /GSMD610S /GSMD612S /GSMD614S /GSMD616S	3/16 4.8	.192-.196 #11	.114	.375	.060	.325 .387 .450 .575 .700 .825 .950 1.075 1.200	.020-.125 .126-.187 .188-.250 .251-.375 .376-.500 .501-.625 .626-.750 .751-.875 .876-1.000	590	815
/GSMD84S /GSMD86S /GSMD88S /GSMD810S /GSMD812S /GSMD814S /GSMD816S	1/4 6.4	.257-.261 F	.151	.500	.080	.500 .625 .750 .875 1.000 1.125 1.250	.020-.250 .251-.375 .376-.500 .501-.625 .626-.750 .751-.875 .876-1.000	1,245	1,505

Max. Barrel Length per IFI 114

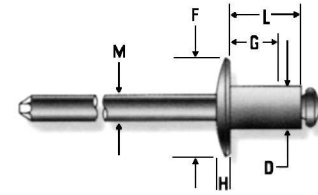
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Large Flange
Steel Rivet/Steel Mandrel
Grade 30 IFI 114

EBN Part No.	(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia. Nom.	(F) Flange Dia. Nom.	(H) Head Height Max.	(L) Barrel Length Max.	(G) Grip Range	Typical Ultimate* Strength	
								Shear Lbs.	Tensile Lbs.
/GSML42S /GSML43S /GSML44S /GSML46S /GSML48S	1/8 3.2	.129-.133 #30	.076	.375	.065	.275 .337 .400 .525 .650	.020-.125 .126-.187 .188-.250 .251-.375 .376-.500	295	425
/GSML53S /GSML54S /GSML56S	5/32 4.0	.160-.164 #20	.095	.468	.075	.362 .425 .550	.020-.187 .188-.250 .251-.375	410	570
/GSML64S /GSML66S /GSML68S /GSML610S /GSML612S /GSML616S	3/16 4.8	.192-.196 #11	.114	.625	.092	.450 .575 .700 .825 .950 1.200	.020-.250 .251-.375 .376-.500 .501-.625 .626-.750 .751-1.000	590	815
/GSML88S	1/4 6.4	.257-.261 F	.151	.740	.107	.750	.376-.500	1,245	1,505

Max. Barrel Length per IFI 114

* Values shown are a guide only and may vary depending upon the application.



Hi-Tensile Mandrel Rivets
Domed Head
Aluminum Rivet/Aluminum Mandrel
Grade II IFI 114

EBN Part No.	(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia. Nom.	(F) Flange Dia. Nom.	(H) Head Height Max.	(L) Barrel Length Max.	(G) Grip Range	Typical Ultimate* Strength	
								Shear Lbs.	Tensile Lbs.
/GAMD32AHT /GAMD34AHT	3/32 2.4	.097-.100 #41	.057	.188	.032	.250 .375	.020-.125 .126-.250	85	135
/GAMD41AHT /GAMD42AHT /GAMD43AHT /GAMD44AHT /GAMD45AHT /GAMD46AHT /GAMD48AHT /GAMD410AHT	1/8 3.2	.129-.133 #30	.076	.250	.040	.400 .462 .525 .650 .775 .900	.063-.125 .126-.187 .188-.250 .251-.312 .313-.375 .376-.500 .501-.625	155	235
/GAMD52AHT /GAMD53AHT /GAMD54AHT /GAMD56AHT /GAMD58AHT /GAMD510AHT	5/32 4.0	.160-.164 #20	.095	.312	.050	.300 .362 .425 .550 .675 .800	.020-.125 .126-.187 .188-.250 .251-.375 .376-.500 .501-.625	225	350
/GAMD62AHT /GAMD63AHT /GAMD64AHT /GAMD66AHT /GAMD68AHT /GAMD610AHT /GAMD612AHT /GAMD614AHT /GAMD616AHT	3/16 4.8	.192-.196 #11	.114	.375	.060	.325 .387 .450 .575 .700 .825 .950 1.075 1.200	.020-.125 .126-.187 .188-.250 .251-.375 .376-.500 .501-.625 .626-.750 .751-.875 .876-1.000	315	500
/GAMD84AHT /GAMD86AHT /GAMD88AHT /GAMD810AHT /GAMD812AHT /GAMD814AHT /GAMD816AHT	1/4 6.4	.257-.261 F	.151	.500	.080	.500 .625 .750 .875 1.000 1.125 1.250	.020-.250 .251-.375 .376-.500 .501-.625 .626-.750 .751-.875 .876-1.000	600	750

Max. Barrel Length per IFI 114

* Values shown are a guide only and may vary depending upon the application.

“You can have everything in life you want if you just help enough other people get what they want.”

—Zig Ziglar

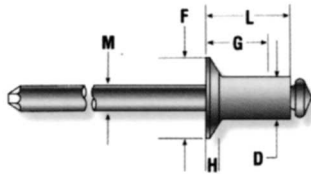


Hi-Tensile Mandrel Rivets (Cont.)
Large Flange
Aluminum Rivet/Aluminum Mandrel
Grade II IFI 114

EBN Part No.	(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia. Nom.	(F) Flange Dia. Nom.	(H) Head Height Max.	(L) Barrel Length Max.	(G) Grip Range	Typical Ultimate* Strength	
								Shear Lbs.	Tensile Lbs.
/GAML42AHT /GAML43AHT /GAML44AHT /GAML46AHT /GAML48AHT	1/8 3.2	.129-.133 #30	.076	.375	.065	.275 .337 .400 .525 .650	.020-.125 .126-.187 .188-.250 .251-.375 .376-.500	155	235
/GAML54AHT /GAML56AHT	5/32 4.0	.160-.164 #20	.095	.468	.075	.425 .550	.020-.250 .251-.375	225	350
/GAML64AHT /GAML66AHT /GAML68AHT /GAML610AHT /GAML612AHT /GAML616AHT /GAML618AHT	3/16 4.8	.192-.196 #11	.114	.625	.092	.450 .575 .700 .825 .950 1.200 1.325	.020-.250 .251-.375 .376-.500 .501-.625 .626-.750 .751-1.000 1.001-1.125	315	500

Max. Barrel Length per IFI 114

* Values shown are a guide only and may vary depending upon the application.

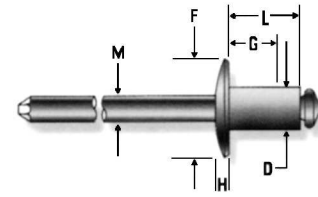


Countersunk
Aluminum Rivet/Aluminum Mandrel
Grade 11 IFI 114

EBN Part No.	(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia. Nom.	(F) Flange Dia. Nom.	(H) Head Height Max.	(L) Barrel Length Max.	(G) Grip Range	Typical Ultimate* Strength	
								Shear Lbs.	Tensile Lbs.
/GAMC42AHT /GAMC43AHT /GAMC44AHT	1/8 3.2	.129-.133 #30	.076	.220	.031	.275 .337 .400	.020-.125 .126-.187 .188-.250	155	235
/GAMC63AHT /GAMC64AHT	3/16 4.8	.192-.196 #11	.114	.348	.050	.387 .450	.020-.187 .188-.250	315	500

Max. Barrel Length per IFI 114

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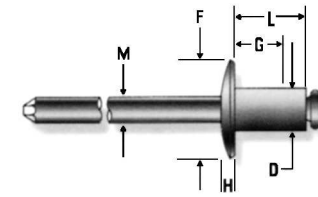


Hi-Shear Rivets
Domed Head
Stainless Rivet/Steel Mandrel
Grade 50 IFI 114

EBN Part No.	(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia. Nom.	(F) Flange Dia. Nom.	(H) Head Height Max.	(L) Barrel Length Max.	(G) Grip Range	Typical Ultimate* Strength	
								Shear Lbs.	Tensile Lbs.
/GSMD32SSHS /GSMD34SSHS /GSMD41SSHS /GSMD42SSHS /GSMD43SSHS /GSMD44SSHS /GSMD45SSHS /GSMD46SSHS /GSMD48SSHS /GSMD52SSHS /GSMD54SSHS /GSMD56SSHS /GSMD58SSHS /GSMD510SSHS	3/32 2.4	.097-.100 #41	.057	.188	.032	.250 .375 .212 .275 .337 .400 .462 .525 .650 .300	.020-.125 .126-.250 .020-.062 .063-.125 .126-.187 .188-.250 .251-.312 .313-.375 .376-.500 .020-.125	230	280
/GSMD62SSHS /GSMD63SSHS /GSMD64SSHS /GSMD66SSHS /GSMD68SSHS /GSMD610SSHS	3/16 4.8	.192-.196 #11	.114	.375	.060	.325 .387 .450 .575 .700	.020-.125 .126-.187 .188-.250 .251-.375 .376-.500	1,000	1,375
/GSMD84SSHS /GSMD86SSHS /GSMD88SSHS	1/4 6.4	.257-.261 F	.151	.500	.080	.500 .625 .750	.020-.250 .251-.375 .376-.500	1,700	2,100

Max. Barrel Length per IFI 114

* Values shown are a guide only and may vary depending upon the application.

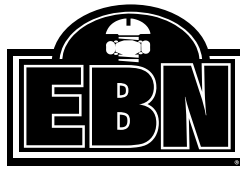


Large Flange
Stainless Rivet/Steel Mandrel
Grade 50 IFI 114

EBN Part No.	(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia. Nom.	(F) Flange Dia. Nom.	(H) Head Height Max.	(L) Barrel Length Max.	(G) Grip Range	Typical Ultimate* Strength	
								Shear Lbs.	Tensile Lbs.
/GSML42SSHS	1/8 3.2	.129-.133 #30	.076	.375	.065	.275	.020-.125	550	700
/GSML66SSHS /GSML68SSHS /GSML610SSHS /GSML612SSHS /GSML616SSHS	3/16 4.8	.192-.196 #11	.114	.625	.092	.575 .700 .825 .950 1.200	.250-.375 .376-.500 .376-.625 .626-.750 .751-1.000	1,000	1,375

Max. Barrel Length per IFI 114

* Values shown are a guide only and may vary depending upon the application.

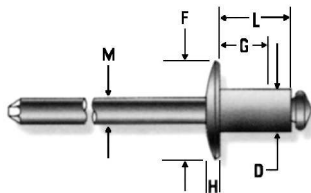


Hi-Shear Rivets
Domed Head
Stainless Rivet/Stainless Mandrel
Grade 51 IFI 114

EBN Part No.	(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia. Nom.	(F) Flange Dia. Nom.	(H) Head Height Max.	(L) Barrel Length Max.	(G) Grip Range	Typical Ultimate* Strength	
								Shear Lbs.	Tensile Lbs.
/GSSMD32SS	3/32	.096-.100	.057	.188	.032	.250	.020-.125	230	280
/GSSMD34SS	2.4	#41				.375	.126-.250		
/GSSMD41SS						.212	.020-.062		
/GSSMD42SS						.275	.063-.125		
/GSSMD43SS						.337	.126-.187		
/GSSMD44SS	1/8	.129-.133	.076	.250	.040	.400	.188-.250	550	700
/GSSMD45SS	3.2	#30				.462	.251-.312		
/GSSMD46SS						.525	.313-.375		
/GSSMD48SS						.650	.376-.500		
/GSSMD410SS						.775	.501-.625		
/GSSMD52SS						.300	.020-.125		
/GSSMD53SS						.362	.126-.187		
/GSSMD54SS	5/32	.160-.164	.095	.312	.050	.425	.188-.250	900	1,130
/GSSMD56SS	4.0	#20				.550	.251-.375		
/GSSMD58SS						.675	.376-.500		
/GSSMD510SS						.800	.501-.625		
/GSSMD62SS						.325	.020-.125		
/GSSMD63SS						.387	.126-.187		
/GSSMD64SS	3/16	.192-.196	.114	.375	.060	.450	.188-.250	1,000	1,375
/GSSMD66SS	4.8	#11				.575	.251-.375		
/GSSMD68SS						.700	.376-.500		
/GSSMD610SS						.825	.501-.625		
/GSSMD612SS						.950	.626-.750		
/GSSMD84SS						.500	.020-.250		
/GSSMD86SS	1/4	.257-.261	.151	.500	.080	.625	.251-.375	1,700	2,100
/GSSMD88SS	6.4	F				.750	.376-.500		

Max. Barrel Length per IFI 114

* Values shown are a guide only and may vary depending upon the application.



Large Flange
Stainless Rivet/Stainless Mandrel
Grade 51 IFI 114

EBN Part No.	(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia. Nom.	(F) Flange Dia. Nom.	(H) Head Height Max.	(L) Barrel Length Max.	(G) Grip Range	Typical Ultimate* Strength	
								Shear Lbs.	Tensile Lbs.
/GSSML42SSHS	1/8	.129-.133	.076	.375	.065	.275	.020-.125	550	700
/GSSML44SSHS	3.2	#30				.400	.126-.250		
/GSSML46SSHS						.525	.251-.375		
/GSSML66SSHS						.575	.250-.375		
/GSSML68SSHS						.700	.376-.500		
/GSSML610SSHS	3/16	.192-.196	.114	.625	.092	.825	.501-.625	1,000	1,375
/GSSML612SSHS	4.8	#11				.950	.626-.750		
/GSSML616SSHS						1.200	.751-1.000		

Max. Barrel Length per IFI 114

* Values shown are a guide only and may vary depending upon the application.

Countersunk
Stainless Rivet/Stainless Mandrel
Grade 51 IFI 114

EBN Part No.	(D) Rivet Size	Hole Size And Drill No.	(M) Mandrel Dia. Nom.	(F) Flange Dia. Nom.	(H) Head Height Max.	(L) Barrel Length Max.	(G) Grip Range	Typical Ultimate* Strength	
								Shear Lbs.	Tensile Lbs.
/GSSMC44SSHS	1/8	.129-.133	.076	.220	.031	.400	.092-.250	550	700
	3.2	#30							
/GSSMC64SSHS	3/16	.192-.196	.114	.348	.050	.450	.151-.250	1,000	1,375
/GSSMC66SSHS	4.8	#11				.575	.251-.375		
/GSSMC68SSHS						.700	.376-.500		

Max. Barrel Length per IFI 114

* Values shown are a guide only and may vary depending upon the application.

Other Rivets Available

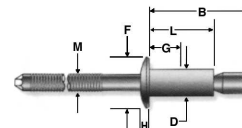
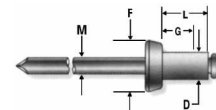


Special Products
Domed Head
Copper Rivet/Solid Brass Mandrel

Domed Head
Copper Rivet/Steel Mandrel



Quik-Snap
Nickel Plated Brass Head/Stainless Mandrel



Domed Head
Aluminum Rivet/Aluminum Mandrel
Steel Rivet/Steel Mandrel
Stainless Rivet/Stainless Mandrel
Steel Rivet/Steel Mandrel



CELUS®

CELUS FASTENERS MFG. INC.

Multi-Grip Rivets



Domed Head, Large Flange, Countersunk
Aluminum Rivet/Steel Mandrel

Closed-End Rivets

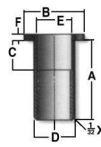


Domed Head
Stainless Rivet/Stainless Mandrel

Domed Head
Aluminum Rivet/Steel Mandrel

Painted Rivets CEL-NUTS

**Small Flange Aluminum Alloy
Blind Threaded Inserts**



EBN Part No.	Thread Size	Hole Size	Drill Size	(D) Dia. Max.	(A) Length Max.	(B) Flange Ref.	(G) Grip Range
/CA632-080-SF	6-32	.250-.254	1/4	.249	.410	.287	.020-.080
/CA832-080-SF	8-32	.250-.254	1/4	.249	.410	.287	.020-.080
/CA1024-130-SF	10-24	.281-.285	9/32	.280	.465	.320	.020-.130
/CA1032-130-SF	10-32	.281-.285	9/32	.280	.465	.320	.020-.130
/CA1420-165-SF	1/4-20	.375-.379	3/8	.374	.610	.415	.030-.165
/CA51618-200-SF	5/16-18	.500-.504	1/2	.499	.720	.540	.040-.200
/CA3816-200-SF	3/8-16	.500-.504	1/2	.499	.720	.540	.040-.200

Small Flange Zinc Plated Steel Blind Threaded Inserts

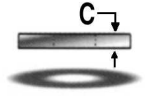
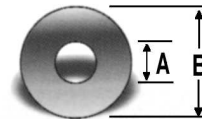
EBN Part No.	Thread Size	Hole Size	Drill Size	(D) Dia. Max.	(A) Length Max.	(B) Flange Ref.	(G) Grip Range
/CS632-080-SF	6-32	.250-.254	1/4	.249	.410	.287	.020-.080
/CS832-080-SF	8-32	.250-.254	1/4	.249	.410	.287	.020-.080
/CS1024-130-SF	10-24	.281-.285	9/32	.280	.465	.320	.020-.130
/CS1032-130-SF	10-32	.281-.285	9/32	.280	.465	.320	.020-.130
/CS1420-165-SF	1/4-20	.375-.379	3/8	.374	.610	.415	.030-.165
/CS51618-200-SF	5/16-18	.500-.504	1/2	.499	.720	.540	.040-.200
/CS3816-200-SF	3/8-16	.500-.504	1/2	.499	.720	.540	.040-.200

Large Flange Aluminum Alloy Blind Threaded Inserts

EBN Part No.	Thread Size	Hole Size	Drill Size	(D) Dia. Max.	(A) Length Max.	(B) Flange Ref.	(G) Grip Range
/CA1420-165-LF	1/4-20	.375-.379	3/8	.332	.702	.490	.080-.165

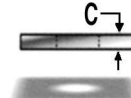
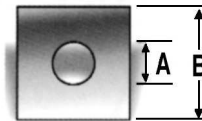
Additional CEL-NUT Sizes And Styles Available Upon Request.

Rivet Back-Up Plates Round



EBN Part No. Aluminum	EBN Part No. Steel	EBN Part No. Stainless	Rivet Size	(A) Inside Dia.	(B) Outside Dia.	(C) Thickness
/ABUP-4	/SBUP-4	/STBUP-4	1/8	1/8	3/8	1/16
/ABUP-5	/SBUP-5	N/A	5/32	5/32	7/16	1/16
/ABUP-6	/SBUP-6	/STBUP-6	3/16	3/16	1/2	1/16
/ABUP-8	/SBUP-8	N/A	1/4	1/4	5/8	1/16

Square



EBN Part No. Steel	Rivet Size	(A) Inside Dia.	(B) Outside Dia.	(C) Thickness
/SBUPS-3	3/32	3/32	1/2	1/16
/SBUPS-4	1/8	1/8	1/2	1/16
/SBUPS-5	5/32	5/32	1/2	1/16
/SBUPS-6	3/16	3/16	1/2	1/16



CELUS[®]

CELUS FASTENERS MFG. INC.

Hand Tools/Tool Kits

SN# CN/12

Commercial Handtool

This tool features rugged construction and a patented quick change mandrel design that does not require any tools to convert to a different size rivet nut. This tool can easily set aluminum and steel Cel-Nuts from 6-32 to 1/4-20 and comes equipped with 5 threaded mandrels and 4 nosepieces to set 6-32 up to 1/4-20.



SN# CN/28A

Heavy Duty Handtool

The powerful, heavy duty CN/28A is excellent for setting larger sizes of Cel-Nuts or for moderate volume applications and maintenance departments. Fully adjustable, the CN/28A is lightweight and designed to easily set 10-24/32 through 3/8-16 Cel-Nuts in all materials. The tool comes complete with a sturdy metal case and is equipped with 5 threaded mandrels and 4 nosepieces and wrenches.



SN# C/2B

The One Hander

A light weight, heavy duty capacity rivet tool designed and quality engineered to set all rivets 3/32" through 3/16" diameter in one easy stroke. The C/2 offers the exclusive Celus engineering feature that allows an exceptionally small hand span and a spring loaded handle that snaps back to the open position when the pressure is released. Equipped with special high strength jaws and four nosepieces, this tool is excellent for low volume, production jobs.



SN# C/1A

Commercial Tool

Medium duty manual rivet tool designed to set rivets 3/32" through 3/16" diameters in low production, commercial applications. The tool is equipped with 4 nosepieces.



SN# C/6

The Gripper

This heavy duty hand tool will set all rivet diameters through 3/16" and is an excellent value for production areas without readily available power sources. The tool is equipped with 3 nosepieces.



SN# C/9A

Heavy Duty Hand Riveter

This heavy duty hand riveter has special construction features that take the hard work out of setting large rivets by hand. The C/9A sets all rivets up to 1/4" diameter, and comes complete with 5 nosepieces. This tool is ideal for truck body shops, boat yards and construction sites.



SN# CN/12AK

Cel-Nut Kit

Featuring our CN/12 Hand Tool, this kit is equipped with all mandrels and nosepieces to set 6-32 through 1/4-20 Cel-Nuts. The kit contains an assortment of aluminum Cel-Nuts.



SN# CN/12SK

Cel-Nut Kit

This kit is the same as the CN/12AK except it contains a assortment of steel Cel-Nuts.

SN# C/1BK

Commercial Kit

Featuring our C/1B light duty tool, this handsomely packaged tool and rivet kit, meets the needs of most consumers as well as those light industrial requirements.



SN# C/2K

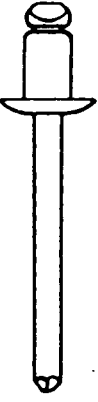
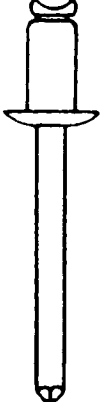
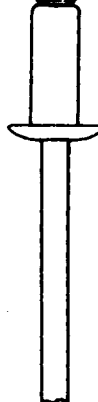
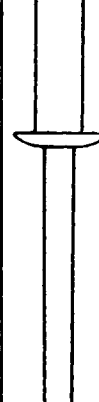
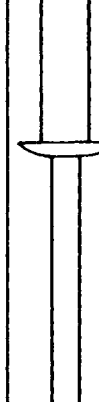



Industrial Kit

This kit features our most popular C/2A One-hander rivet tool and an assortment of popular sized rivets. Ideal for use by automotive and industrial user, alike, the C/2K is attractively packaged in a lightweight plastic case and is suitable for peg-board hanging.

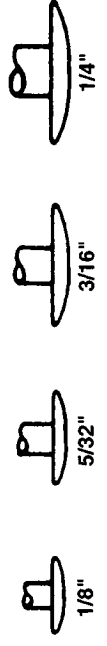















All rivet tools can be serviced by Celus Fasteners' expertly trained repair department. Replacement parts are available, and in stock, for every tool we sell.






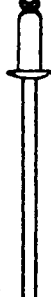







ACTUAL SIZE RIVET CHART

DIAM. and GRIP	GRIP RANGE	1/4" RIVET DIAMETER Use in .257 - .261 hole ("F" Drill)	DIAM. and GRIP	GRIP RANGE
	.063 .125		-82	
	.126 .250		-84	
	.251 .375		-86	
	.376 .500		-88	
	.501 .625		-810	
	.626 .750		-812	
	.751 .875		-814	
	.876 1.000		-816	

In addition to the regular dome heads shown here, many of these rivets are also available with countersunk heads for flush applications or with large heads for greater bearing surface on soft or brittle material. The rivet bodies remain the same diameter and lengths but the large heads are as follows.



DIAM. and GRIP	GRIP RANGE	5/32" RIVET DIAMETER Use in .160 - .164 hole (#20 Drill)	DIAM. and GRIP	GRIP RANGE
	.063 .125		-52	
	.126 .250		-54	
	.251 .375		-56	
	.376 .500		-58	
	.501 .625		-510	
DIAM. and GRIP	GRIP RANGE	3/16" RIVET DIAMETER Use in .192 - .196 hole (#11 Drill)	DIAM. and GRIP	GRIP RANGE
	.063 .125		-62	
	.126 .250		-64	
	.251 .375		-66	
	.376 .500		-68	
	.501 .625		-610	
	.626 .750		-612	
	.751 .875		-614	
	.876 1.000		-616	

DIAM. and GRIP	GRIP RANGE	3/32" RIVET DIAMETER Use in .097 - .100 hole (#41 Drill)	DIAM. and GRIP	GRIP RANGE
	.063 .125		-32	
	.126 .250		-34	
	.251 .375		-36	
DIAM. and GRIP	GRIP RANGE	1/8" RIVET DIAMETER Use in .129 - .133 hole (#30 Drill)	DIAM. and GRIP	GRIP RANGE
	Up to .062		-41	
	.063 .125		-42	
	.126 .187		-43	
	.188 .250		-44	
	.251 .312		-45	
	.313 .375		-46	
	.376 .437		-47	
	.438 .500		-48	
	.501 .562		-49	
	.563 .625		-410	