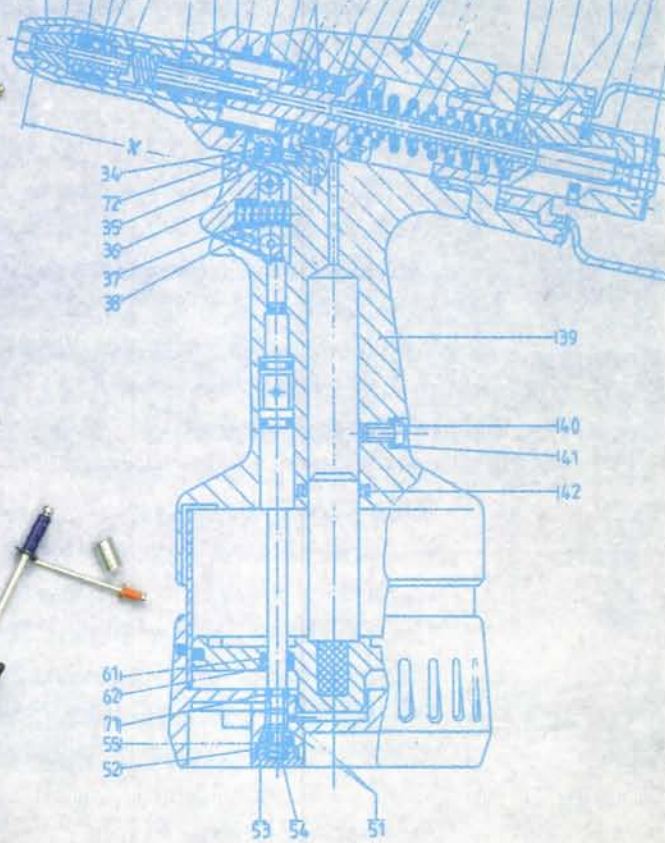


KLIK-FAST®



**RIVETS
THREADED
FASTENERS
& SETTING
TOOLS**

marson

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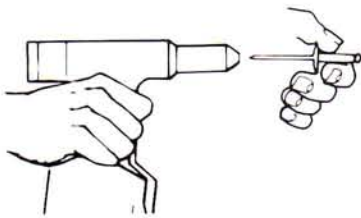
THE PREFERRED FASTENING SYSTEM



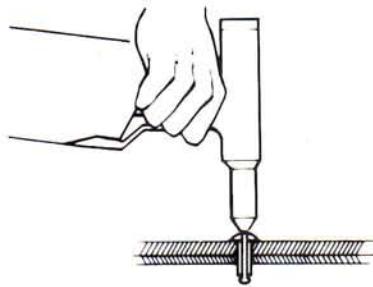
HERE'S WHY

- Low in-place cost because of the ease and speed of installation.
- No special skills required.
- For blind side applications, and where both sides of work are accessible.
- Vibration Resistant. Klik-Fast Rivets will not back out or loosen as can threaded fasteners.
- Tamper Resistant. Klik-Fast Rivets discourage unauthorized dismantling of signs, panels, assemblies, etc.
- Low Head Profile provides a snag-free smooth appearance.
- Will not mar painted or other finished surfaces.
- Provides secure fastening of thin and thick applications and hard and soft materials.
- Eliminates thread strip-out.
- Versatile. Klik-Fast Rivets available in a wide range of diameters, lengths, alloys, and head styles. Special sizes/styles available upon request.

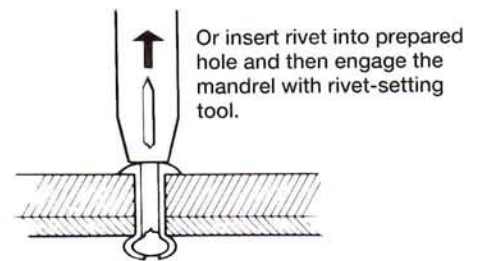
HERE'S HOW



1. Insert rivet mandrel in rivet setting tool.

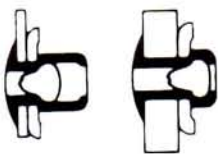


2. Using tool as a guide, insert rivet into prepared hole.



3. Squeeze trigger or handles to set rivet. Mandrel ejects after rivet is set.

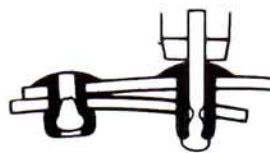
HERE'S WHERE



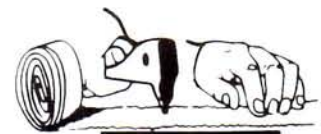
One Length Handles Both



Hollow Extrusions and Tubes



High Grip Strength
No Surface Distortion



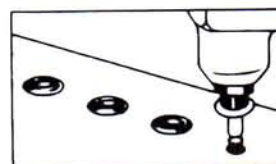
For Hard and Soft Materials



Vibration and Tamper Resistant



High Strength



No Marred Surfaces



Low-Profile Heads

marson KLIK-FAST HAND RIVET TOOLS

HP-2®/39000

Features to look for in a well designed, industrial quality Hand Riveter:

1. Precision die cast body of high strength aluminum alloy.
2. A steel insert into which the working nosepiece is screwed.
3. A fulcrum pin that cannot rotate.
4. Heat treated carbon steel upper handle.
5. Long life jaws.

HERE'S WHY

Even in high strength aluminum alloy, the threads into which the working nosepiece is screwed are not strong enough to resist the pulling force of repeated rivet setting, or the excessive torque often applied when tightening nosepieces. The HP-2 has a special steel insert which eliminates these problems common in many imitation tools.

A fulcrum pin that rotates during rivet setting will elongate the engaging holes in the aluminum body causing premature and expensive tool failure. Marson's HP-2 has a unique cold formed, heat treated steel fulcrum pin with a square shoulder which fits into a square hole in the aluminum body. THE FULCRUM PIN CANNOT ROTATE. The opposite end passes through a heat treated steel bushing that also fits into a square hole.

These engineered features plus long-life jaws and heat treated carbon steel upper handles combine to assure professional quality riveting tools that are often copied in appearance, but never equaled in durability and performance.



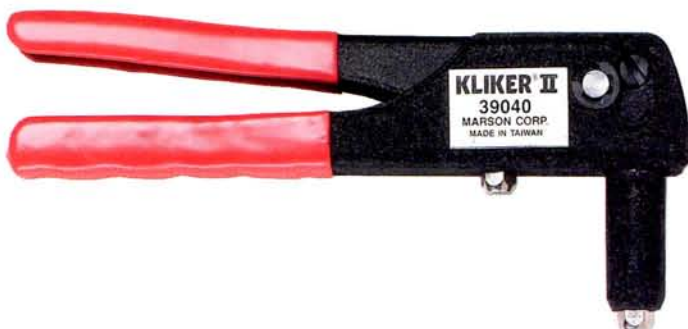
Includes nosepieces for setting $\frac{3}{32}$ ", $\frac{1}{8}$ ", $\frac{5}{32}$ " and $\frac{3}{16}$ " diameter rivets

200KIT/39001

Handsomely packaged in a durable case, the 200KIT contains the HP-2 rivet tool, 200 assorted Klik-Fast rivets in popular sizes. Weight: 4 lbs.



Kliker II/39040



The perfect medium duty tool. Sets all $\frac{1}{8}$ " to $\frac{5}{32}$ " steel, and $\frac{3}{16}$ " all aluminum Klik-Fast rivets. Rivets are automatically held in the Kliker II regardless of the angle of the tool. Packaged in a pouch with an assortment of Klik-Fast rivets and washers.

Packaged six per case. Weight: 1 lb.

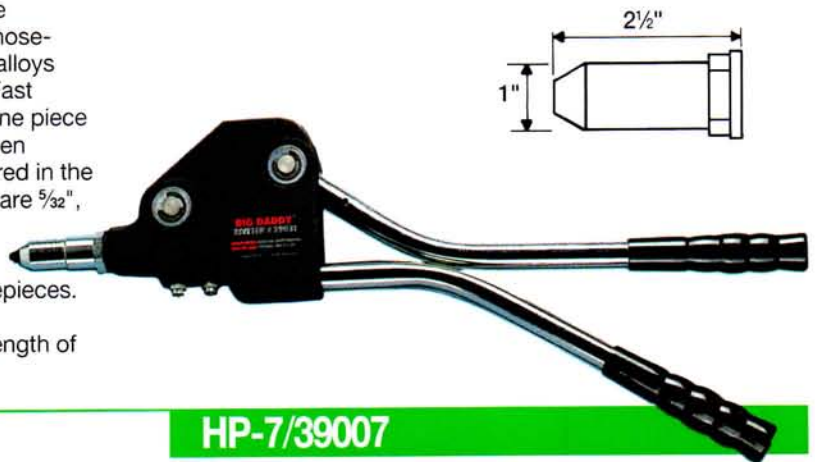
Big Daddy®/39031

Marson's Big Daddy™ has a steel insert cast into the aluminum body to provide stronger threads for the nosepieces listed. Reduction gear design, high strength alloys and long handles provides easy installation of Klik-Fast Rivets through the 1/4" diameter size in all alloys. A one piece collet case eliminates the need to adjust the tool when changing rivet diameters. Spare nosepieces are stored in the single unit body construction. Nosepieces included are 5/32", 3/16", and 1/4". The 1/8" is nosepiece available upon request. Weight: 3 3/4 lbs.

NOTE: See page 8 for all standard and special nosepieces.

NEW: Adaptor Kit #39009

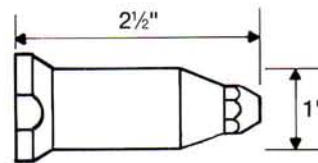
Big Daddy Head Extension Kit adds 2 1/2" in length of head.



HP-7/39007



The Marson HP-7 is designed for setting rivets where accessibility is a problem. Sets 5/32", 3/16", and 1/4" diameter Klik-Fast rivets in all alloys. Included are 3/16" and 1/4" nosepieces and servicing wrench. Weight: 4 1/2 lbs.

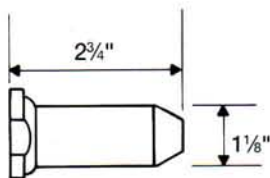
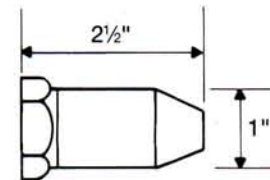


PHT-3/39016



This standard duty tool sets blind rivets from 1/8" diameter in all alloys, up to 3/16" all steel rivets. Standard 1/8" and 3/16" nosepieces, service wrenches, plastic bottle to catch ejected mandrels included. Adaptor Kit #95058 available for setting 3/32" rivets. Weight: 3 1/2 lbs.

NOTE: See page 8 for all standard and special nosepieces.



PHT-4/39017

This heavy duty tool sets Marson Klik-Fast rivets from 3/16" to 1/4" diameter in all alloys. Included are 3/16" and 1/4" nosepiece, service wrenches and plastic bottle to catch ejected mandrels. Weight: 5 1/2 lbs.

NOTE: See page 8 for all standard and special nosepieces.

MARSON BZ 10/BZ 10A**MARSON BZ 10 (95001)**

Air-Hydraulic Rivet Tool.

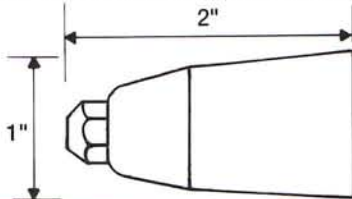
Manufactured from high impact-resistant materials. The BZ tool's comfortable grip and trigger allow the operator fatigue free operation for long production runs. Weighing only 2.5 lbs., this lightweight tool also allows for the air supply to be accessed from either side of tool for further operator ease and comfort.

MARSON BZ10A (95002)

With vacuum system.

With slight trigger pressure, the operator can hold rivet in nosepiece for placement directly into workpiece hole. Further pressure sets rivet, and again with another slight pressure actuates vacuum of mandrel into collection bottle.

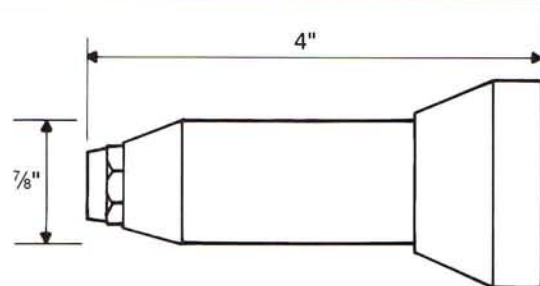
Long lasting, lightweight, comfortable operation allows these tools to be used by any operator for long production runs without fatigue. New, state-of-the-art manufacturing design gives reliable trouble-free operation. Sets Klik-Fast rivets from $\frac{1}{8}$ " through $\frac{5}{32}$ " aluminum and steel.



Weight: 2.5 lbs.

MARSON BZ 100/BZ 100A

Weight: 4.3 lbs.

**MARSON BZ 100 (95003)**

Air-Hydraulic Rivet Tool.

High impact-resistant materials, comfortable trigger and grip, and lightweight (4.3 lbs.) lessens operator fatigue and increases productivity. Air supply can be accessed from either side of tool base.

MARSON BZ 100A (95004)

With vacuum system.

The BZ 100A has all of the BZ 100 features and includes an adjustable air flow which allows for various size rivets to be held in the nosepiece by operator for one hand placement of rivet in workpiece. A vacuum system removes spent mandrels immediately after setting either into a collection bottle or by tube into a larger carrier. The vacuum system also allows collection of $\frac{3}{16}$ " diameter Monobolts® set with this unique high production tool. Sets all Klik-Fast rivets from $\frac{3}{32}$ " through $\frac{3}{16}$ " steel, and $\frac{5}{32}$ " stainless.

MARSON BZ 120A

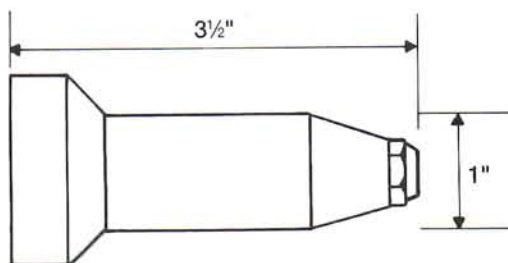
MARSON BZ 120A (95005)

Air-Hydraulic Rivet Tool.



Weight: 4.6 lbs.

Available only with vacuum system. This heavy duty production tool has adjustable air flow to hold rivet in nosepiece, allows air line access from either side of tool, and draws spent mandrels immediately into collection bottle or through collection tube. Lightweight (4.6 lbs.), and durable for heavy duty production use. This tool sets all Klik-Fast rivets from $\frac{3}{32}$ " diameter to $\frac{1}{4}$ " aluminum, steel and $\frac{3}{16}$ " stainless. The BZ 120A is also capable of setting $\frac{3}{16}$ " and $\frac{1}{4}$ " Monobolts.[®]



MARSON AIR-HYDRAULIC RIVET TOOL SPECIFICATIONS

TOOL	WEIGHT	WORK FORCE	AVG. AIR CONSUMPTION	STROKE
PHT-3 (39016)	3.3 lbs. 1.5 kg	85 P.S.I./6 bar 1,980 lbs./9,100 N	.0097 cu. ft./stroke	.437 inch 11 MM
PHT-4 (39017)	4.8 lbs. 2.1 kg	85 P.S.I./6 bar 3,120 lbs./14,300 N	.021 cu. ft./stroke	.625 inch 15.8 MM
BZ-10 (95001) BZ-10A (95002)	2.5 lbs. 1.157 kg	85 P.S.I./6 bar 1,200 lbs./5,500 N	.0054 cu. ft./stroke	.51 inch 13 MM
BZ-100 (95003) BZ-100A (95004)	4.3 lbs. 1.96 kg	85 P.S.I./6 bar 2,400 lbs./11,000 N	.0117 cu. ft./stroke	.67 inch 17 MM
BZ-120A (95005)	4.6 lbs. 2.1 kg	85 P.S.I./6 bar 3,750 lbs./17,000 N	.019 cu. ft./stroke	.73 inch 18.5 MM

KLIK-FAST® RIVETERS CAPACITY CHART																										
RIVETER MODEL	STEEL					ALL ALUMINUM					ALUMINUM/STEEL					STAINLESS				COPPER STEEL		MONOBOLTS®		"T" RIVETS		
	3/32	1/8	5/32	3/16	1/4	3/32	1/8	5/32	3/16	1/4	3/32	1/8	5/32	3/16	1/4	3/32	1/8	5/32	3/16	1/8	3/16	1/4	3/16	1/4		
KR-II/39040	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HP-2/39000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BIG DADDY/39031	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HP-7/39007	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PHT-3/39016	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PHT-4/39017	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BZ-10/95001	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BZ-10A/95002	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BZ-100/95003	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BZ-100A/95004	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BZ-120A/95005	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

HAND TOOLS — STANDARD NOSEPIECES									
TOOL MODEL	SIZES					MONOBOLT® SIZES		"T" RIVET SIZES	
	3/32"	1/8"	5/32"	3/16"	1/4"	3/16"	1/4"	3/16"	1/4"
HP-2 (39000)	39131	39128	39130	39129					
KR-II (39040)	39131	39128	39130	39129					
BIG DADDY (39031)		96024	96025	96026	96027	96031	96030	96029	96028
HP-7 (39007)			97033	97013	97014				

AIR/HYDRAULIC TOOLS — STANDARD NOSEPIECES									
TOOL MODEL	3/32"	1/8"	5/32"	3/16"	1/4"	3/16"	1/4"	3/16"	1/4"
PHT-3 (39016)	95058	97037	97033	97013				98124	
XLONG PHT-3 (39016)		97038	97039	97040					
PHT-4 (39017)				98018	98017	98120	98119	98122	98121
BZ 10 (95001)	95127	95133	95134						
BZ 10A (95002)	95127	95133	95134						
BZ 100 (95003)	95127	95133	95134	95135		95141		95144	
BZ 100A (95004)	95127	95133	95134	95135		95141		95144	
BZ 120A (95005)			95112	95113	95115	95142	95143	95145	95146

EXTRA LONG HAND TOOL NOSEPIECES				
TOOL MODEL	LENGTH			
HP-2 (39000)	7/16"	39110		
KR-II (39040)	7/16"	39110		
HP-7 (39007)	9/16"	97038	97039	97040



Standard Nosepiece

Extra Long Nosepiece

ROUND AND SQUARE BACK-UP WASHERS					
CODE NO.	BULK NO.	PACKAGED NO.	MATERIAL	HOLE SIZE	DIAMETER
SS-3	50653	40653	STEEL	3/32"	1/2" SQ
SS-4	50654	40654	STEEL	1/8"	1/2" SQ
SS-6	50656	40656	STEEL	3/16"	1/2" SQ
SS-8	50658	40658	STEEL	1/8"	3/8" RD
SS-10	50661	40661	STEEL	3/16"	1/2" RD
AS-8	50657	40657	ALUMINUM	1/8"	3/8" RD
AS-9	50659	40659	ALUMINUM	3/32"	7/16" RD
AS-10	50660	40660	ALUMINUM	3/16"	1/2" RD

Back-up washers are .056" thick. For use when fastening soft materials or to compensate for oversize holes where access to both sides of the work is possible.



Double Ended Drill No. 39100

Model D-120 Double Ended Drill — drills and countersinks in one operation. Double ended for extended life.

U.S. Patent No. 4 046 053. Monobolt is a Registered Trademark of the Avdel Group of Companies.

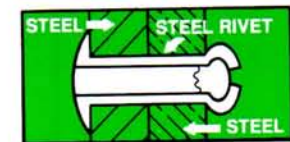
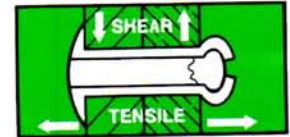
SELECT THE CORRECT KLIK-FAST RIVET



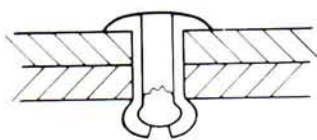
1. The shear and tensile strength of the rivet selected and the number of rivets used in the application should equal or exceed the joint strength requirements. Typical ultimate shear and tensile values of KLIK-FAST rivets are listed by rivet body diameter and by rivet body alloy on the specification pages starting on page 10.

2. Determine the total material thickness to be joined. Refer to the GRIP RANGE column on the specification page, and select the rivet that equals or exceeds the application thickness. Note the rivet barrel length, Column L, is not the grip range.

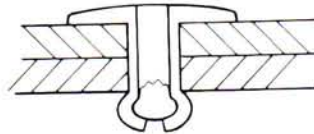
3. The rivet body alloy, in addition to being chosen for strength requirements, should also be selected for compatibility with the materials to be joined to avoid galvanic corrosion caused by coupling dissimilar metals. If dissimilar metals are widely separated on the galvanic chart, it is advisable to separate them with a dielectric material such as paint or other coating.



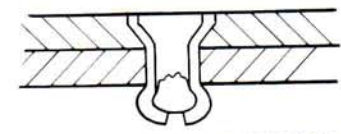
4. HEAD STYLES



BUTTONHEAD KLIK-FAST RIVETS are the most popular for industrial applications. The low profile head diameter is twice the rivet body diameter, providing adequate bearing for nearly all applications.

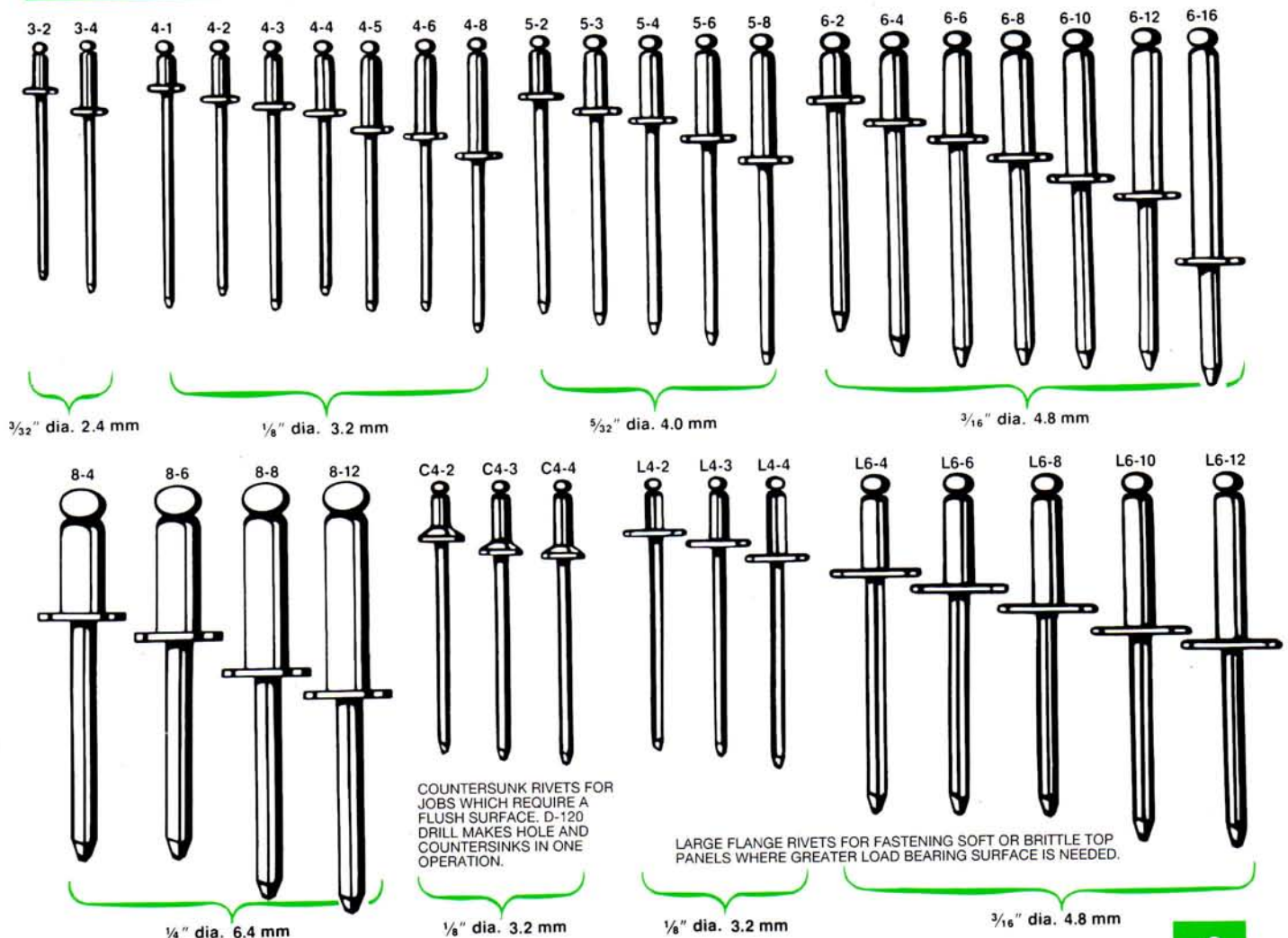


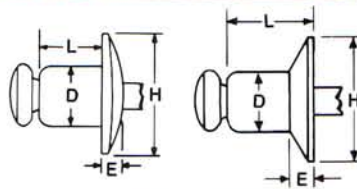
LARGE FLANGE KLIK-FAST RIVETS provide greater bearing surface for fastening soft and brittle facing materials such as plywood and plastics including neoprene, vinyl, etc.



120° COUNTERSUNK KLIK-FAST RIVETS are for application where a flush appearance is required.

ACTUAL SIZE RIVET CHART





KLIK-FAST RIVETS
BUTTONHEAD

ALUMINUM RIVET
COATED STEEL MANDREL
IFI GRADE 18

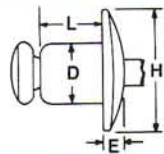
KLIK-FAST RIVET CODE NO.	D	DRILL NO. & HOLE SIZE (mm)	H HEAD DIA. NOM. INCH (mm)	E HEAD HEIGHT MAX. INCH (mm)	L RIVET LENGTH MAX.		GRIP RANGE		TYPICAL ULTIMATE STRENGTH (LBS.) (newtons)	
	RIVET DIA. NOM. INCH (mm)				INCH	(mm)	INCH	(mm)	SHEAR	TENSILE
AB3 - 2	3/32" (.094)	# 41 (.097 - .100)	.188	.032	.250	6.4	.032 - .125	0.8 - 3.2	70	80
AB3 - 4	2.4	2.5 (2.46 - 2.54)	4.78	0.81	.375	9.5	.126 - .250	3.3 - 6.4	310	360
AB4 - 1	1/8" (.125)	# 30 (.129 - .133)	.250	.040	.212	5.4	.032 - .062	0.8 - 1.6	120	150
AB4 - 2					.275	7.0	.063 - .125	1.7 - 3.2		
AB4 - 3					.337	8.6	.126 - .187	3.3 - 4.8		
AB4 - 4					.400	10.2	.188 - .250	4.9 - 6.4		
AB4 - 5					.462	11.7	.251 - .312	6.5 - 7.9		
AB4 - 6					.525	13.4	.313 - .375	8.0 - 9.5		
AB4 - 7					.587	15.0	.376 - .437	9.5 - 11.0		
AB4 - 8					.650	16.5	.438 - .500	11.0 - 12.7		
AB5 - 2	5/32" (.156)	# 20 (.160 - .164)	.312	.045	.300	7.6	.062 - .125	1.6 - 3.2	190	230
AB5 - 3					.362	9.2	.126 - .187	3.3 - 4.8		
AB5 - 4					.425	10.8	.188 - .250	4.9 - 6.4		
AB5 - 6					.550	14.0	.251 - .375	6.5 - 9.5		
AB5 - 8					.675	17.2	.376 - .500	9.6 - 12.7		
AB6 - 2	3/16" (.187)	# 11 (.192 - .196)	.375	.055	.325	8.3	.062 - .125	1.6 - 3.2	260	320
AB6 - 4					.450	11.5	.126 - .250	3.3 - 6.4		
AB6 - 6					.575	14.6	.251 - .375	6.5 - 9.5		
AB6 - 8					.700	17.8	.376 - .500	9.6 - 12.7		
AB6 - 10					.825	21.0	.501 - .625	12.8 - 15.9		
AB6 - 12					.950	24.2	.626 - .750	16.0 - 19.1		
AB6 - 14					1.075	27.4	.751 - .875	19.2 - 22.4		
AB6 - 16					1.200	30.5	.876 - 1.000	22.4 - 25.5		
AB8 - 4	1/4" (.250)	F (.257 - .261)	.500	.074	.500	12.7	.062 - .250	1.6 - 6.4	580	880
AB8 - 6					.625	15.9	.251 - .375	6.5 - 9.5		
AB8 - 8					.750	19.1	.376 - .500	9.6 - 12.7		
AB8 - 10					.875	22.3	.501 - .625	12.8 - 15.9		
AB8 - 12					1.000	25.4	.626 - .750	16.0 - 19.1		
LARGE FLANGE										
ABL4 - 2	1/8" (.125)	# 30 (.129 - .133)	.375	.045	.275	7.0	.032 - .125	0.8 - 3.2	120	150
ABL4 - 3					.337	8.6	.126 - .187	3.3 - 4.8		
ABL4 - 4					.400	10.2	.188 - .250	4.9 - 6.4		
ABL6 - 4	3/16" (.187)	# 11 (.192 - .196)	.625	.082	.450	11.5	.062 - .250	1.6 - 6.4	260	320
ABL6 - 6					.575	14.6	.251 - .375	6.5 - 9.5		
ABL6 - 8					.700	17.8	.376 - .500	9.6 - 12.7		
ABL6 - 10					.825	21.0	.501 - .625	12.8 - 15.9		
ABL6 - 12					.950	24.2	.626 - .750	16.0 - 19.1		
120° COUNTERSUNK										
AC4 - 2	1/8" (.125)	# 30 (.129 - .133)	.236	.045	.275	7.0	.062 - .125	1.6 - 3.2	120	150
AC4 - 3					.337	8.6	.126 - .187	3.3 - 4.8		
AC4 - 4					.400	10.2	.188 - .250	4.9 - 6.4		

#110 COPPER RIVET
COPPER PLATED STEEL MANDREL
IFI GRADE 20

BUTTONHEAD

CB4 - 2	1/8" (.125)	# 30 (.129 - .133)	.250	.040	.275	7.0	.063 - .125	1.7 - 3.2	215	300
CB4 - 4	3.2	3.3 (3.28 - 3.38)	6.35	1.02	.400	10.2	.188 - .250	4.9 - 6.4	950	1330

KLIK-FAST RIVETS conform to IFI-114 (inch) and IFI-505 (metric). Millimeters (mm) and newtons (N) are in blue.



KLIK-FAST RIVETS

BUTTONHEAD

STAINLESS STEEL RIVET

STAINLESS STEEL MANDREL

IFI GRADE 51

KLIK-FAST RIVET CODE NO.	D		H HEAD DIA. NOM. INCH (mm)	E HEAD HEIGHT MAX. INCH (mm)	L RIVET LENGTH MAX.		GRIP RANGE		TYPICAL ULTIMATE STRENGTH (LBS.) (newtons)	
	RIVET DIA. NOM. INCH (mm)	DRILL NO. & HOLE SIZE (mm)			INCH	(mm)	INCH	(mm)	SHEAR	TENSILE
SSB4 - 2S	1/8" (.125) 3.2	#30 (.129 - .133) 3.3 (3.28 - 3.38)	.250 6.35	.040 1.02	.275	7.0	.063 - .125	1.7 - 3.2	420 1870	530 2360
SSB4 - 3S					.337	8.6	.126 - .187	3.3 - 4.8		
SSB4 - 4S					.400	10.2	.188 - .250	4.9 - 6.4		
SSB4 - 6S					.525	13.4	.313 - .375	8.0 - 9.5		
SSB4 - 8S					.650	16.5	.376 - .500	9.6 - 12.7		
SSB5 - 2S	5/32" (.156) 4.0	#20 (.160 - .164) 4.1 (4.06 - 4.16)	.312 7.92	.045 1.14	.300	7.6	.062 - .125	1.6 - 3.2	650 2890	820 3650
SSB5 - 4S					.425	10.8	.126 - .250	4.9 - 6.4		
SSB5 - 6S					.550	14.0	.251 - .375	6.5 - 9.5		
SSB6 - 2S	3/16" (.187) 4.8	# 11 (.192 - .196) 4.9 (4.88 - 4.98)	.375 9.53	.055 1.40	.325	8.3	.062 - .125	1.6 - 3.2	950 4230	1200 5340
SSB6 - 4S					.450	11.5	.126 - .250	3.3 - 6.4		
SSB6 - 6S					.575	14.6	.251 - .375	6.5 - 9.5		
SSB6 - 8S					.700	17.8	.376 - .500	9.6 - 12.7		
SSB6 - 10S					.825	21.0	.501 - .625	12.8 - 15.9		
SSB6 - 12S					.950	24.2	.626 - .750	16.0 - 19.1		
LARGE FLANGE										
SSBL4 - 2S	1/8" (.125) 3.2	# 30 (.129 - .133) 3.3 (3.28 - 3.38)	.375 9.53	.045 1.14	.275	7.0	.032 - .125	0.8 - 3.2	420 1870	530 2360
SSBL4 - 3S					.337	8.6	.126 - .187	3.3 - 4.8		
SSBL4 - 4S					.400	10.2	.188 - .250	4.9 - 6.4		
SSBL6 - 4S	3/16" (.187) 4.8	# 11 (.192 - .196) 4.9 (4.88 - 4.98)	.625 15.88	.082 2.08	.450	11.5	.062 - .250	1.6 - 6.4	950 4230	1200 5340
SSBL6 - 6S					.575	14.6	.251 - .375	6.5 - 9.5		
SSBL6 - 8S					.700	17.8	.376 - .500	9.6 - 12.7		
SSBL6 - 10S					.825	21.0	.501 - .625	12.8 - 15.9		
SSBL6 - 12S					.950	24.2	.626 - .750	16.0 - 19.1		

STAINLESS STEEL RIVET COATED STEEL MANDREL

BUTTONHEAD

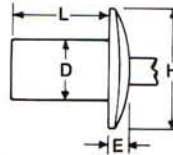
IFI GRADE 50

SSB4 - 2	1/8" (.125) 3.2	#30 (.129 - .133) 3.3 (3.28 - 3.38)	.250 6.35	.040 1.02	.275	7.0	.063 - .125	1.7 - 3.2	420 1870	530 2360
SSB4 - 3					.337	8.6	.126 - .187	3.3 - 4.8		
SSB4 - 4					.400	10.2	.188 - .250	4.9 - 6.4		
SSB4 - 6					.525	13.4	.313 - .375	8.0 - 9.5		
SSB4 - 8					.650	16.5	.376 - .500	9.6 - 12.7		
SSB5 - 2	5/32" (.156) 4.0	#20 (.160 - .164) 4.1 (4.06 - 4.16)	.312 7.92	.045 1.14	.300	7.6	.062 - .125	1.6 - 3.2	650 2890	820 3650
SSB5 - 4					.425	10.8	.126 - .250	4.9 - 6.4		
SSB5 - 6					.550	14.0	.251 - .375	6.5 - 9.5		
SSB6 - 2	3/16" (.187) 4.8	# 11 (.192 - .196) 4.9 (4.88 - 4.98)	.375 9.53	.055 1.40	.325	8.3	.062 - .125	1.6 - 3.2	950 4230	1200 5340
SSB6 - 4					.450	11.5	.126 - .250	3.3 - 6.4		
SSB6 - 6					.575	14.6	.251 - .375	6.5 - 9.5		
SSB6 - 8					.700	17.8	.376 - .500	9.6 - 12.7		
SSB6 - 10					.825	21.0	.501 - .625	12.8 - 15.9		
SSB6 - 12					.950	24.2	.626 - .750	16.0 - 19.1		
LARGE FLANGE										
SSBL4 - 2	1/8" (.125) 3.2	# 30 (.129 - .133) 3.3 (3.28 - 3.38)	.375 9.53	.045 1.14	.275	7.0	.032 - .125	0.8 - 3.2	420 1870	530 2360
SSBL4 - 3					.337	8.6	.126 - .187	3.3 - 4.8		
SSBL4 - 4					.400	10.2	.188 - .250	4.9 - 6.4		
SSBL6 - 4	3/16" (.187) 4.8	# 11 (.192 - .196) 4.9 (4.88 - 4.98)	.625 15.88	.082 2.08	.450	11.5	.062 - .250	1.6 - 6.4	950 4230	1200 5340
SSBL6 - 6					.575	14.6	.251 - .375	6.5 - 9.5		
SSBL6 - 8					.700	17.8	.376 - .500	9.6 - 12.7		
SSBL6 - 10					.825	21.0	.501 - .625	12.8 - 15.9		
SSBL6 - 12					.950	24.2	.626 - .750	16.0 - 19.1		

KLIK-FAST RIVETS conform to IFI-114 (inch) and IFI-505 (metric). Millimeters (mm) and newtons (N) are in blue.


KLIK-FAST RIVETS

CLOSED-END BUTTONHEAD - HOLLOW CORE



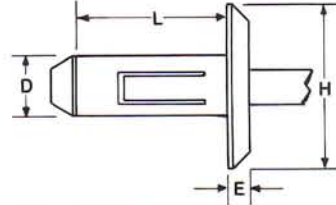
**ALUMINUM RIVET
COATED STEEL MANDREL**

IFI GRADE 19

KLIK-FAST RIVET CODE NO.	D	DRILL NO. AND HOLE SIZE	H	E	L	GRIP RANGE 	TYPICAL ULTIMATE STRENGTH (LBS.)	
	RIVET DIA. NOM. INCH		HEAD DIA. NOM. INCH	HEAD HEIGHT NOM. INCH	RIVET LENGTH		SHEAR	TENSILE
						MAX. INCH		
AB4 - 1CLD AB4 - 2CLD AB4 - 3CLD AB4 - 4CLD AB4 - 5CLD	1/8" (.125)	#30 (.129 - .133)	.236	.040	.256 .315 .374 .433 .492	.032 - .062 .063 - .125 .126 - .187 .188 - .250 .251 - .315	240	280
AB5 - 2CLD AB5 - 3CLD AB5 - 5CLD	5/32" (.156)	#20 (.160 - .164)	.312	.060	.315 .374 .492	.063 - .125 .126 - .187 .188 - .312	350	480
AB6 - 2CLD AB6 - 4CLD AB6 - 6CLD AB6 - 8CLD AB6 - 10CLD	3/16" (.187)	#11 (.192 - .196)	.375	.070	.315 .433 .551 .709 .827	.063 - .125 .126 - .250 .251 - .375 .376 - .500 .500 - .625	500	690
AB8 - 4CLD AB8 - 6CLD	1/4" (.250)	F (.257 - .261)	.500	.090	.492 .630	.062 - .250 .251 - .375	900	1100

- Closed-end hollow core rivets have 100% mandrel head retention.
- Closed-end hollow core rivets are moisture resistant.
- Closed-end hollow core rivets have increased shear and tensile strength over open-end rivets of similar sizes and materials.





KLIK-LOK™ PLASTIC RIVETS

KLIK-LOK RIVET CODE NO.	D		H HEAD DIA. NOM. INCH	E HEAD HEIGHT NOM. INCH	L RIVET LENGTH MAX. INCH	GRIP RANGE		TYPICAL ULTIMATE STRENGTH (LBS.)	
	RIVET DIA. NOM. INCH	HOLE SIZE INCH (MM)					INCH	SHEAR	TENSILE
58105	.195	.197(5)	.472	.130	.728	.059 - .177	68	120	
58106	.195	.197(5)	.472	.071	.787	.118 - .236	68	120	
58107	.195	.197(5)	.472	.071	.787	.118 - .177	68	120	
58108	.195	.197(5)	.472	.071	.984	.236 - .394	68	120	
58149	.246	.250 (6.3)	.669	.098	.709	.157 - .236	121	194	
58150	.246	.250 (6.3)	.669	.098	1.102	.157 - .394	121	194	
58151	.246	.250 (6.3)	.512	.098	1.102	.157 - .394	121	194	
58185	.258	.260 (6.6)	.512	.098	.787	.098 - .197	137	219	
58186	.258	.260 (6.6)	.709	.098	.787	.098 - .197	137	219	

Klik-Lok Plastic Rivets are made from precision-molded nylon. Besides being designed as original equipment for GM, Ford, Chrysler and replacement parts, plastic rivets have many uses,

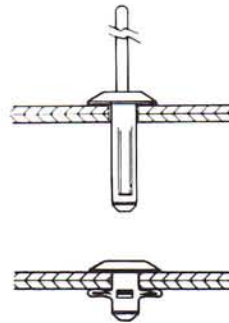
especially in non-conductive and non-corrosive environments. When set, the rivet forms three legs that compress against blind side of work.

Klik-Lok Plastic Rivet Setter/48000



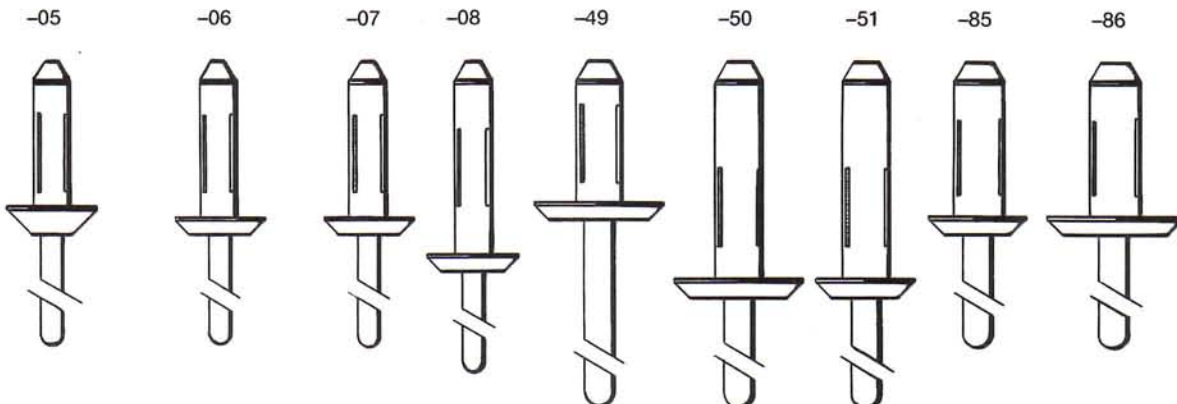
Delivers extra long pulling stroke needed to set plastic rivets. Steel construction and full-sized handles for smooth, easy operations. Packed in reusable pouch.

Klik-Lok Plastic Rivet Kit/48001



Includes Plastic Rivet Setter 48000 and package of each of the four most popular rivet sizes. A reclosable carton provides storage for rivets and tool.

ACTUAL SIZE RIVET GUIDE

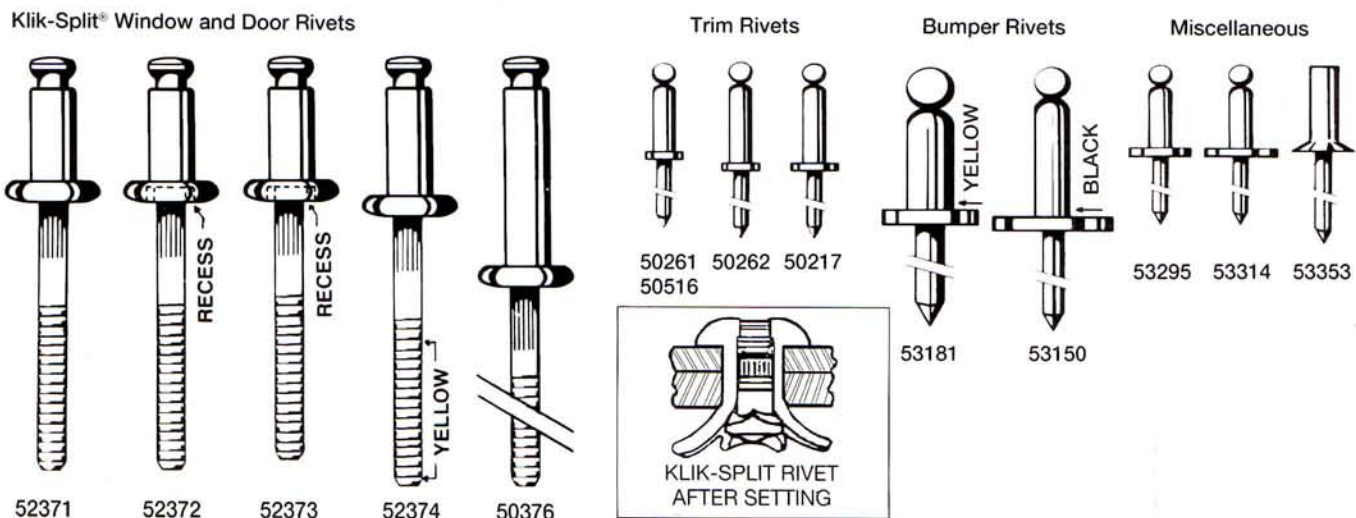


SPECIAL APPLICATION RIVETS

ALL RIVETS CONFORM TO IFI STANDARDS FOR STRENGTHS AND TOLERANCES

PART NUMBER	BULK QTY.	DESCRIPTION	GRIP RANGE	MATERIALS BODY/MANDREL	RIVET DIA. NOM.	FLANGE DIA. NOM.	HOLE DIAMETER RANGE	500 PK. NUMBER	APPLICATIONS
TRIM RIVETS									
50217	10M	Trim Channel Rivet	.188-.250	Alum/Alum	.125	.250	.129-.133	40217	(AB4-4A)
50261*	10M	Trim Moulding Rivet	.126-.187	Alum/Alum	.125	.208	.129-.133	40261	(ABN4-3A)
50262*	10M	Long Trim Moulding Rivet	.188-.250	Alum/Alum	.125	.208	.129-.133	40262	(ABN4-4A)
50516*	10M	Trim Moulding Rivet w/SS Body	.126-.187	SS/Steel	.125	.208	.129-.133	40516	(SSBN4-3)
*Use 39112 Trim Clip Rivet Nosepieces with HP-2 or Kliker Riveter to form trim clip studs with 50261; 50262; 50516 rivets.									
KLIK-SPLIT® WINDOW AND DOOR RIVETS									
REQUIRES NOSEPIECE #96028 WHEN USING THE MARSON BIG DADDY® (39031) HAND TOOL									
52371	2M	Window Regulator Rivet	.032-.140	Alum/Steel	.250	.500	.257-.261	NA	GM 9436175 Ford 385189 Chry 6031115
52372	2M	Outside Door Handle Rivet with recessed head	.090-.115	Alum/Steel	.250	.500	.257-.261	NA	Ford 388047-S100
52373	2M	Door Handle Rivet with recessed head and zinc coated mandrel	.110-.177	Alum/Steel	.250	.500	.257-.261	NA	GM 20713843
52374	2M	Window Regulator Rivet w/yellow zinc coated mandrel	.140-.187	Alum/Steel	.250	.500	.257-.261	NA	GM 9437486 Chry 6032926
52375	2M	Blk. Anodized Door Handle Rivet	.090-.115	Alum/Steel	.250	.500	.257-.261	NA	Ford 388047-S102
50376	2M	Glass Stop Rivet	.520-.620	Alum/Steel	.250	.500	.257-.261	NA	Ford 385323 Chry 6031091
BUMPER RIVETS									
53150	2.5M	Bumper Fascia Rivet large flange black	.250-.375	Steel/Steel	.187	.625	.192-.196	NA	GM 9439719
53181	2M	Bumper Fascia Rivet with	.125-.250	Steel/Steel	.250	.500	.257-.261	NA	Ford 372820-S36
MISCELLANEOUS SPECIAL APPLICATION RIVETS									
53292	10M	Rear Window Gasket Rivet	.125-.187	Alum/Steel	.125	.325	.129-.130	NA	GM 20325696
53314	10M	Multi-Purpose Rivet, large flange	.125-.187	Alum/Steel	.125	.375	.129-.130	NA	GM 9432552
53353	5M	Trunk Lock Swivel Emblem Rivet sealed end, countersunk head Requires Nosepiece #39144	.126-.187	Alum/Steel	.156	.312	.160-.164	NA	GM 9432137 Chry 6032138

ACTUAL SIZE RIVET GUIDE



KLIK THREAD SETTER™ SYSTEM

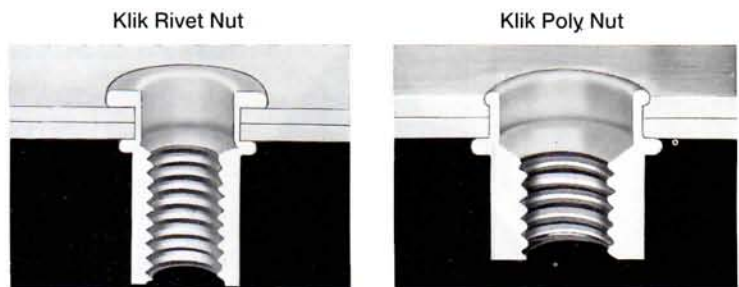
marson

Klik Rivet-Nuts™ and Klik Poly-Nuts™ are used in a wide range of applications where a threaded hole is required and both sides of panel cannot be reached.

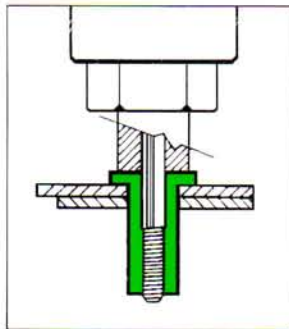
Klik Rivet-Nuts and Klik Poly-Nuts assure captive load bearing threads in materials too thin to independently provide efficient thread strength. Rivet-Nuts and Poly-Nuts are installed by one person from one side of the assembly using air or hand powered tools, quickly and easily.

Klik Rivet-Nuts with large diameter heads can be used in soft materials which inherently offer little, if any, thread strength.

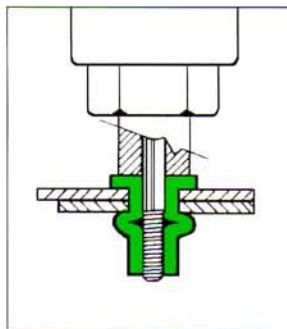
Klik Poly-Nuts provide a nearly flush installation along with an excellent fit to mating materials.



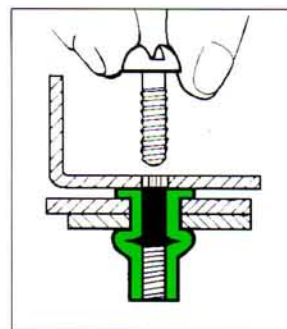
4 EASY STEPS FOR INSTALLATION



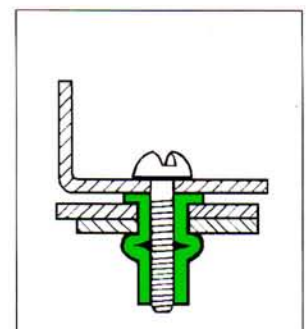
1. Drill hole to correct diameter, thread fastener onto tool mandrel and insert into hole.



2. Actuate tool to properly set fastener into material. (See detailed instructions below for proper tool operation.)



3. Complete your fastening operation with a bolt or screw with the proper thread.



4. The positive riveting action of both Klik Rivet-Nuts and Klik Poly-Nuts provide consistent firm fastening. Push-out and shake-loose are virtually eliminated.

HAND TOOL OPERATION TO SET KLIK RIVET-NUTS AND KLIK POLY-NUTS:

1. Determine thread size, material and type required. Use Klik Rivet-Nuts where a large head is required to cover an oversized hole or act as a spacer. Use Klik Poly-Nuts where a nearly flush-type head is required or extra grip is needed.
2. Drill proper size hole in work piece. Refer to information on fastener box or technical page in catalog for correct hole size.
3. Install proper size mandrel (male threads on both ends) and nosepiece. Refer to parts list for information on which mandrels require nosepieces.
4. Release the grips opening tool completely. Thread "head end" of Klik Rivet-Nut or Klik Poly-Nut onto mandrel. Thread on until mandrel end is flush with bottom of fastener.
5. Rotate adjusting knob counterclockwise until fastener head touches tool. Do not tighten. The blind Klik Rivet/Poly-Nut is now ready to set.
6. Insert Klik Rivet-Nut or Klik Poly-Nut in hole in work piece. Hold flush and square in contact with work piece.
7. Close handles to set. NOTE: Klik Rivet-Nuts and Klik Poly-Nuts work by forming a bulge on the other side. The handles will "give" then stop. When handles will not move further with hand force, the fastener is set.
8. Release handles and rotate adjusting knob counterclockwise to unscrew Thread Setter from Klik Poly-Nut or Klik Rivet-Nut.

THREAD OR ENGAGEMENT

The threaded mandrel should be flush with or extend just beyond the end of the fastener to assure 100% thread engagement. Less than total thread engagement can result in deformed, unusable threads or thread strip-out.

The head of the fastener must be snug against the nosepiece before actuating the tool.

Should it become necessary to remove the Klik Rivet-Nuts or Klik Poly-Nuts use the same size drill which made the original hole. Drill through the head then punch out the remains. The same size fastener can be used again.

NOTE: *IMPORTANT

When total material thicknesses approach the minimum or maximum of grip range, and when shear and/or tensile strengths are critical in design or application,

*PILOT TESTS are always recommended.



Thread Setter™ Tool

Model #34500 thread setter installs all sizes of Klik Poly-Nuts, Klik Rivet-Nuts up to 1/4" and 6MM steel. The forged, heat treated steel upper handle, the precision die cast body of high strength aluminum alloy and the patented fulcrum pin design combine to make the thread setter a rugged, durable tool. Select mandrels and nosepieces listed. Weight: 1 1/4 lbs.

THREAD SIZE	MANDREL NO.	NOSEPIECE NO.
6-32	39254	39261
8-32	39255	39262
10-24	39256	39263
10-32	39257	39263
1/4-20	39258	Not Needed
1/4-28	39271	Not Needed
4 MM	39266	39262
5 MM	39267	39263
6 MM	39268	Not Needed



Lever Tool

Model #39205 lever tool for installing Klik Rivet-Nuts and Klik Poly-Nuts in all sizes up to and including #10's and 5MM in aluminum or steel. Features a spiral ratchet mechanism for speed in setting either type fastener. The stroke is adjustable. Select mandrels and nosepieces listed. Weight: 2 1/4 lbs.

6-32	39406	39407
8-32	39408	39409
10-24	39410	39411
10-32	39412	39411
4 MM	39430	39409
5 MM	39431	39411



Heavy Duty Lever Tool

Model #39210 heavy duty level tool for installing 1/4", 5/16", 3/8", 6MM to 10MM Klik Rivet-Nuts. The spiral ratchet mechanism provides fast installation. The stroke is adjustable. Select mandrels and nosepieces listed. Weight: 4 1/4 lbs.

1/4-20	39405	39404
1/4-28	39435	39404
5/16-18	39403	39402
5/16-24	39436	39402
3/8-16	39400	39401
6 MM	39432	39404
8 MM	39433	39402
10 MM	39434	39401

Thread Setter™ Kit

Model #34501 thread setter kit contains the thread setter tool, mandrels and nosepieces for 6-32, 8-32, 10-24 sizes and mandrel for 1/4-20 size. Kit includes 100 assorted Klik Rivet-Nuts and Klik Poly-Nuts, instructions, all contained in a compartmented carrying case. Select additional sizes of mandrels and nosepieces listed above. Weight: 2 3/4 lbs.



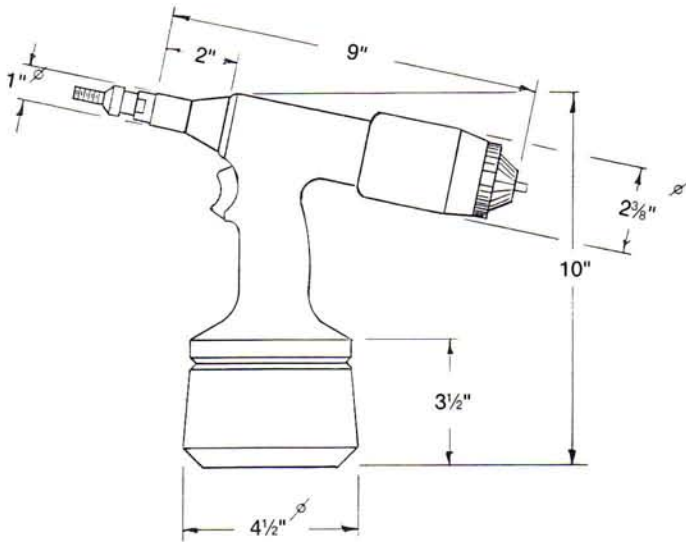
AIR/HYDRAULIC THREAD SETTER™ TOOL

Model #39220

New and improved, this light weight production tool has a wide setting capacity. Tool sets from #6 through 3/8-16" steel Rivnut® or equal, and 4 MM through 10 MM. Automatic threading of nut on first trigger pull, nut is set on next pull. Automatic reverse after set is ended by tapping trigger. Quick and simple thread length adjustment. Free-standing housing. Fast-can set up to 25 pcs. per minute. Weight: 4¼ lbs.



ENGINEERING DATA	
Operating Pressure:	85 psi
Weight:	4¼ lbs.
Height:	9.8"
Length of Pulling Head:	10 ⁵ / ₈ "
Working Stroke:	.216"
Tensile Force:	4,800 lbs.



® Rivnut is a registered trademark of the B.F. Goodrich Co.

THREAD SIZE	ADAPTOR NO.	MANDREL NO.
6-32	39230	39221
8-32	39231	39222
10-24	39232	39223
10-32	39233	39224
¼-20	39234	39225
¼-28	39235	39226
⅝-18	39236	39227
⅝	39237	39228
⅝-16	39238	39229
4 MM	39239	39244
5 MM	39240	39245
6 MM	39241	39246
8 MM	39242	39247
10 MM	39243	39248

PRODUCT STRENGTH

THREAD SIZE	TYPICAL SHEAR STRENGTH (lbs.)		TYPICAL TENSILE STRENGTH (lbs.)	
	ALUMINUM	STEEL	ALUMINUM	STEEL
6-32	215	365	225	525
8-32	280	525	285	575
10-24	300	650	415	815
10-32	300	650	415	815
¼-20	525	700	650	1250
⅝-18	640	900	905	1400
⅝-16	1000	1370	1300	1500

The above figures are averages only. Variations are to be expected in practice.

KLIK RIVET-NUTS THREAD SIZE

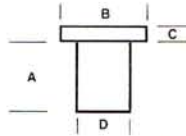
TYPICAL PUSH-OUT (LBS.)*

6-32	8-32	10-24	10-32	¼-20	¼-28	⅝-18	⅝-24	⅝-16	4MM	5MM	6MM	8MM	10MM
330	330	425	425	510	510	690	690	690	330	425	510	690	690


* Push out values are typical. Actual values will vary depending upon application.

KLIK POLY-NUTS THREAD SIZE

KLIK RIVET-NUT™




**STEEL ZINC PLATED
OR ALUMINUM**
CLASS 2B THREADS

THREAD SIZE	PART NO.		D NOM. DIA. +.000 -.004	DRILL NO. & HOLE SIZE	B HEAD DIA. ±.015	C HEAD HEIGHT NOM.	A BODY LENGTH ±.015	GRIP RANGE 
	STEEL ZINC PLATED	ALUM.						
6-32	57110	57210	.189	#12 .189/.193	.325	.032	.438	.010/.075
8-32	57120	57220	.221	#2 .221/.226	.357	.032	.500	.010/.075
8-32	57121	57221						
10-24	57130	57230	.250	1/4" .250/.254	.406	.038	.531	.010/.080
10-24	57131	57232						
10-32	57140	57240						
10-32	57142	57242						
1/4-20	57150	57250	.332	Q .332/.338	.475	.058	.625	.020/.080
1/4-20	57152	57252						
1/4-20	57154	57254						
5/16-18	57171	57271	.413	Z .413/.423	.665	.062	.750	.030/.125
5/16-18	57174	57274						
3/8-16	57181	57281	.490	12.5 MM .490/.500	.781	.088	.844	.030/.115
3/8-16	57184	57284						

KLIK POLY-NUT™



**LOW CARBON STEEL
ZINC PLATED**
CLASS 2B THREADS

THREAD SIZE	PART NO.	D DIA. MAX.	DRILL NO. & HOLE SIZE	B HEAD DIA. REF.	A BODY LENGTH MAX.	GRIP RANGE 
8-32	57425	.249	1/4" - .250/.254	.287	.410	.020/.080
10-24	57435	.280	9/32" .281/.285	.320	.465	.020/.130
10-32	57445					
1/4-20	57455	.374	3/8" .375/.379	.415	.610	.030/.165
1/4-28	57456					
5/16-18	57475	.499	1/2" .500/.504	.540	.720	.030/.165
5/16-24	57478					
3/8-16	57485	.499	1/2" - .500/.504	.540	.720	.030/.165
4 MM	57407	.249	1/4" - .250/.254	.287	.410	.020/.080
5 MM	57409	.280	9/32" - .281/.285	.320	.465	.020/.130
6 MM	57411	.374	3/8" - .375/.379	.415	.610	.030/.165
8 MM	57413	.499	1/2" - .500/.504	.540	.720	.030/.165
10 MM	57414	.499	1/2" - .500/.504	.540	.720	.030/.165

1. The shear and tensile strength of the rivet selected and the number of rivets used in the application should equal or exceed the joint strength requirements. Typical ultimate shear and tensile strengths are listed by diameter and alloy on pages 10 through 16 of this catalog. Testing is recommended before final selection and use in product.

2. The rivet body material should be compatible with the materials to be joined to resist galvanic corrosion which may result in reduction of joint strength. If dissimilar materials are widely separated on the galvanic chart, it is advisable to separate them with a dielectric material such as paint or other coating. Marson can paint colors to match, anodize or plate to your specifications as required.

3. After determination of strengths required by diameter and alloy, the total thickness of materials to be joined must be considered. The grip range for each rivet is listed on pages 10 through 16 of this catalog. Select the rivet grip range which includes the total thickness of materials to be joined. Please note that the rivet barrel length, Column L is not the grip range.

4. Recommended hole sizes listed for each rivet diameter on pages 10 through 16 should be followed closely. An undersize hole will not allow insertion of the rivet body, an oversize hole will reduce shear and tensile strengths and may cause improper rivet setting all of which promote joint failure.

5. The various head styles are offered to accommodate different assembly needs. The buttonhead Klik-Fast Rivet, the most popular, has a lower profile head which is twice the diameter of the rivet body. This provides adequate bearing for nearly all applications. The large flange Klik-Fast Rivet provides greater bearing surface for the fastening of soft or brittle facing materials.

The countersunk Klik-Fast Rivet is available for applications where a flush appearance is required.

6. Besides the sizes, alloys and head styles listed, the Marson Corporation manufactures a wide range of special rivets to accommodate a variety of customer needs for strength, head styles and grip ranges.

You are invited to send your application questions or problems to Marson Headquarters for evaluation, testing and recommendations.

- Samples are available upon request.
- Special packaging needs are quickly and easily met.

KLIK-FAST BLIND RIVET TOOLS

1. Marson offers a wide range of hand-actuated Klik-Fast tools, among which is the most widely recognized, copied and envied riveting tool manufactured — the HP-2.

2. Also offered are Air/Hydraulic Klik-Fast Blind Riveting Tools with a wide range of rivet setting capacity.

The PHT Series of popularly priced tool are ideal for a variety of production applications.

The BZ Series of high production tools have the following user-friendly features: nosepiece storage located on the tool, built in air pressure safety release valve, light weight and comfortable hand grip to minimize operator fatigue.

Also available for the BZ Series is a vacuum system which not only holds the rivet securely in the nosepiece, but also collects the spent mandrel for recyclable scrap.

3. Marson riveters carry a 90 day warranty.

SPECIALTY RIVETS

1. Closed-End Rivets

The Marson Closed-End Rivet provides a very high rate of radial expansion during setting, which is highly suitable for application where the prepared holes are elongated or oversize. Most important, the rivet wall is thicker than a standard blind rivet which results in higher tensile and shear strengths.

2. Plastic Rivets

- Designed for plastic or metal surfaces, chassis, or supporting structures.
- Eliminates the galvanic corrosion that occurs when dissimilar metals are in contact.
- Non-conductive materials make it ideal for any application where electrical impulses or currents are involved.
- The unique three leg design draws the panel together and securely fastens them at the same time.

3. Special Application Rivets

For over three decades, Marson Corporation has been a major manufacturer and trusted supplier of blind rivets to American and foreign industry. Marson's Special Application Rivets are designed for original equipment automotive applications. Today, these rivets are valued by repair shops, assemblers, fabricators, and other production facilities for their special features, and in-place economy.

KLIK-FAST THREAD SETTER SYSTEM

1. Steel rivets nuts available in flanged and poly series.

2. Aluminum rivet nuts in flanged series.

3. Hand-actuated and air hydraulic Thread Setter tools available to set industry standards.



DECIMAL EQUIVALENTS OF STANDARD SHEET ALUMINIUM & STEEL GAUGES		
NO. OF GAUGE	THICKNESS IN THOUSANDTHS	
	ALUMINIUM (B&S)	STEEL (U.S. STD.)
10	.1019	.1345
11	.0907	.1196
12	.0808	.1046
13	.0720	.0897
14	.0641	.0747
15	.0571	.0673
16	.0508	.0598
17	.0453	.0538
18	.0403	.0478
19	.0359	.0418
20	.0320	.0359
21	.0285	.0329
22	.0253	.0299
23	.0226	.0269
24	.0201	.0239
25	.0179	.0209
26	.0159	.0179
27	.0142	.0164
28	.0126	.0149
29	.0113	.0135
30	.0100	.0120

INCH-METRIC CONVERSION TABLE					
Inches		mm	Inches		mm
Frac.	Dec.		Frac.	Dec.	
1/64	0.015 625	0.3969	33/64	0.515 625	13.0969
1/32	0.031 250	0.7938	17/32	0.531 250	13.4938
3/64	0.046 875	1.1906	35/64	0.546 875	13.8906
1/16	0.062 500	1.5875	9/16	0.562 500	14.2875
5/64	0.078 125	1.9844	37/64	0.578 125	14.6844
3/32	0.093 750	2.3812	19/32	0.593 750	15.0812
7/64	0.109 375	2.7781	39/64	0.609 375	15.4781
1/8	0.125 000	3.1750	5/8	0.625 000	15.8750
9/64	0.140 625	3.5719	41/64	0.640 625	16.2719
5/32	0.156 250	3.9688	21/32	0.656 250	16.6688
11/64	0.171 875	4.3656	43/64	0.671 875	17.0656
3/16	0.187 500	4.7625	11/16	0.687 500	17.4625
13/64	0.203 125	5.1594	45/64	0.703 125	17.8594
7/32	0.218 750	5.5562	23/32	0.718 750	18.2562
15/64	0.234 375	5.9531	47/64	0.734 375	18.6531
1/4	0.250 000	6.3500	3/4	0.750 000	19.0500
17/64	0.265 625	6.7469	49/64	0.765 625	19.4469
9/32	0.281 250	7.1438	25/32	0.781 250	19.8437
19/64	0.296 875	7.5406	51/64	0.796 875	20.2406
5/16	0.312 500	7.9375	13/16	0.812 500	20.6375
21/64	0.328 125	8.3344	53/64	0.828 125	21.0344
11/32	0.343 750	8.7312	27/32	0.843 750	21.4312
23/64	0.359 375	9.1281	55/64	0.859 375	21.8281
3/8	0.375 000	9.5250	7/8	0.875 000	22.2250
25/64	0.390 625	9.9219	57/64	0.890 625	22.6219
13/32	0.406 250	10.3188	29/32	0.906 250	23.0188
27/64	0.421 875	10.7156	59/64	0.921 875	23.4156
7/16	0.437 500	11.1125	15/16	0.937 500	23.8125
29/64	0.453 125	11.5094	61/64	0.953 125	24.2094
15/32	0.468 750	11.9062	31/32	0.968 750	24.6062
31/64	0.484 375	12.3031	63/64	0.984 375	25.0031
1/2	0.500 000	12.7000	1	1.000 000	25.4000

KLIK-FAST®



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