



## Collar Removal Tools

Tools for the removal of threaded collars come in a variety of shapes and sizes to meet a wide range of needs. Some work best on aluminum collars, while others are better-suited for steel or titanium. Space constraints often require the use of special configurations. Omega offers a full range of tools for all approaches. Our competent staff is eager to answer questions and make recommendations for particular applications. We also welcome user comments, suggestions, and feedback about tools, their performance, suitability in various applications, and ways we might improve them.

REM Series

Savi-Socket

OMAR and OMSK Series

Six-Wing<sup>®</sup> Tool and Socket Series

Pliers

OM86

# REM Series

## REM 100 Series (PATENTED)

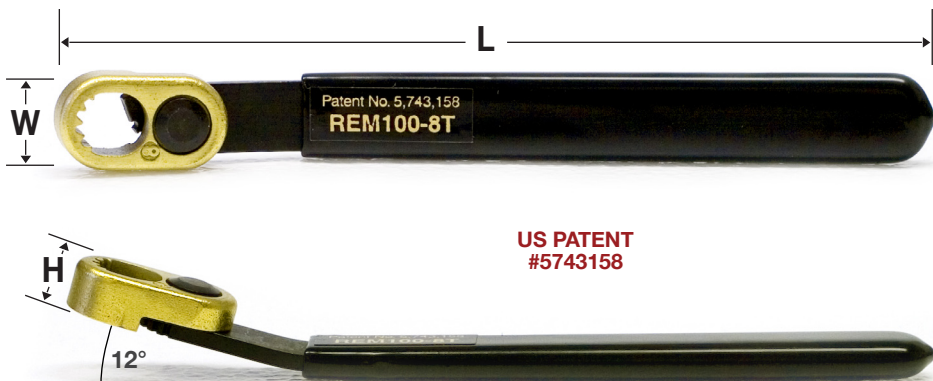
This patented hand tool slips easily over any threaded collar (Hi-Lok®, Hi-Lite®, and Eddie-Bolt®) and quickly unscrews without cutting or prying. Particularly useful for round or damaged collars, the REM Series prevents metal shavings, broken pieces, and damage to skins or to the adjacent structure.

Tools are available for collar dash sizes -5 thru -20 in a variety of configurations

- Affordable
- Versatile
- Durable
- Easy to use



REM100-8P, RE100-8T,  
REM100-8CF, REM102-10



US PATENT  
#5743158

### Reading Part Numbers

**REM 100-56E**

- Type
- E: Eddie Bolt
- S: Straight (Flat Handle)
- P: Open End
- CF: Crow Foot
- Dash Size

## Hi-Lok® and Hi-Lite® Collar Removal Tools

Fastener Data		Tool Dimensions			Part Number	
DASH SIZE	DIAMETER RANGE	WIDTH (W)	HEAD HEIGHT (H)	HANDLE LENGTH (L)	12° OFFSET HANDLE	STRAIGHT HANDLE
-5, -6	0.283 - 0.335	0.560	0.350	5.6	REM 100-56T	REM 100-56TS
-8	0.407 - 0.422	0.670	0.350	6	REM 100-8T	REM 100-8TS
-10	0.512 - 0.538	0.790	0.400	7	REM 100-10T	REM 100-10TS
-1012	0.512 - 0.538	0.790	0.400	7	REM 100-1012T	REM 100-1012TS
-12	0.614 - 0.649	0.900	0.500	8	REM 100-12T	REM 100-12TS
-14	0.707 - 0.775	1.165	0.625	10	REM 100-14T	REM 100-14TS
-16	0.809 - 0.880	1.260	0.625	11	REM 100-16T	REM 100-16TS
-18	0.861 - 0.935	1.365	0.725	12	REM 100-18T	REM 100-18TS
-20	0.985 - 1.005	1.435	0.725	13	REM 100-20T	REM 100-20TS

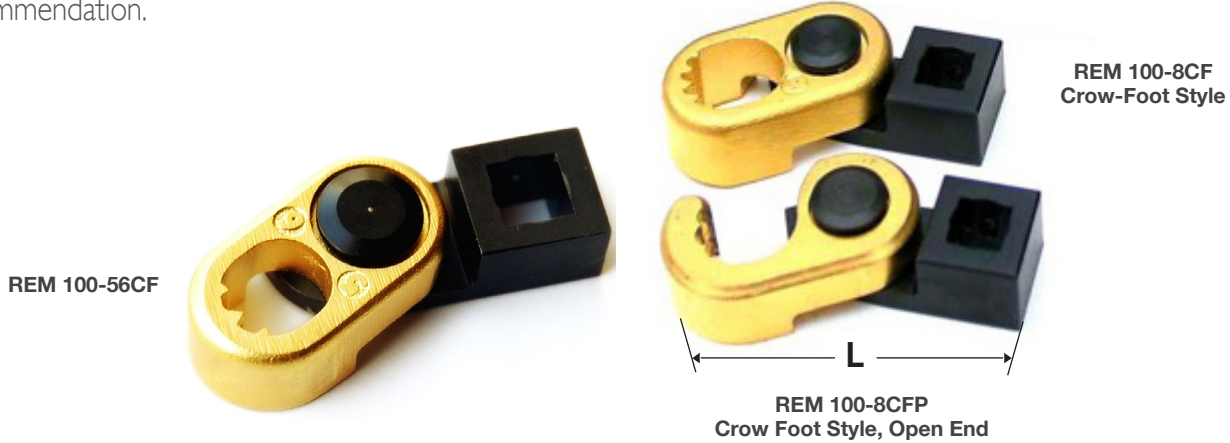
## Eddie-Bolt® Collar Removal Tools

Fastener Data		Tool Dimensions			Part Number	
DASH SIZE	NOMINAL DIAMETER	WIDTH (W)	HEAD HEIGHT (H)	HANDLE LENGTH (L)	12° OFFSET HANDLE	STRAIGHT HANDLE
-5	5/32	0.42	0.35	5.6	REM 100-56E	REM 100-56ES
-6	3/16	0.42	0.35	5.6	REM 100-56E	REM 100-56ES
-8	1/4	0.56	0.35	5.6	REM 100-8E	REM 100-8ES
-10	5/16	0.67	0.35	6	REM 100-10E	REM 100-10ES
-12	3/8	0.79	0.40	7	REM 100-12E	REM 100-12ES

\*Larger sizes to -24 available on request

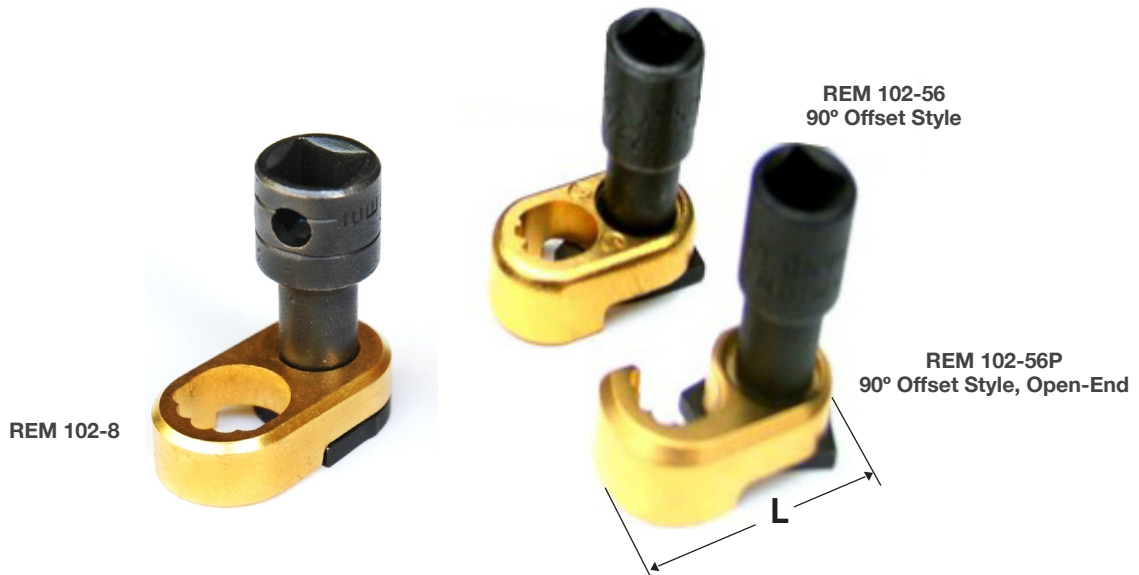
## Crow-Foot Series

When removing collars in limited access areas, these variations offer much needed versatility. The crow-foot version may be driven directly with a standard hand ratchet, or fitted to an extension for deeper access. If you face a particularly challenging application, our experienced staff would be pleased to work with you and make a tool recommendation.



## Crow-Foot Series

CROW FOOT	CROW FOOT OPEN END	SQUARE DRIVE	WIDTH (W)	HEIGHT (H)	LENGTH (L)
REM 100-56CF	REM100-56CFP	1/4"	0.56	0.35	1.19
REM100-8CF	REM100-8CFP	1/4"	0.67	0.35	2.25
REM100-10CF	REM100-10CFP	1/4"	0.79	0.40	2.52
REM100-12CF	REM100-12CFP	3/8"	0.90	0.50	2.83
REM100-14CF	n/a	3/8"	1.17	0.63	3.60
REM100-16CF	n/a	3/8"	1.26	0.63	4.25



## 90° Offset Style

90° OFFSET	CROW FOOT OPEN END	SQUARE DRIVE	WIDTH (W)	HEIGHT (H)	LENGTH (L)
REM 102-56	REM102-56P	1/4"	0.56	0.35	1.05
REM102-8	REM102-8P	1/4"	0.67	0.35	1.19
REM102-10	REM102-10P	1/4"	0.79	0.40	1.45
REM102-12	REM102-12P	3/8"	0.90	0.50	1.63
REM102-14	n/a	3/8"	1.17	0.63	2.10
REM102-16	n/a	3/8"	1.26	0.63	2.25

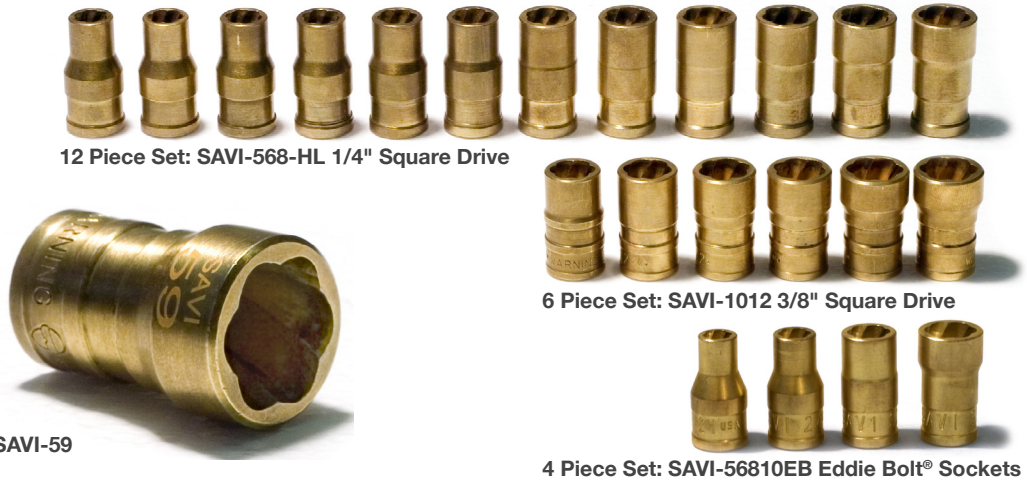
# Savi-Socket

Savi-Socket is the newest innovation for removing Hi-Lok®, Hi-Lite®, Eddie-Bolt®, and HUCK threaded collar systems. It is the first socket to utilize a conical/tapered shape with helical teeth to remove collars or bolts. This design firmly draws the socket onto the collar, gripping and removing it with minimal effort and wear on the tool, without jamming the collar into the socket. The socket cannot be used to install or tighten collars after the hex is broken off. Experienced users are capable of removing collars 5-8 times faster than with traditional systems.



Manufactured in the USA of high-strength tool steel, the socket is then heat-treated for optimum durability and finished with a highly visible corrosion-resistant coating. It is suited for use on aluminum, steel, titanium, and all coated collars. As an anti-FOD measure, it incorporates a set screw for positive retention.

## SAVI SOCKET



12 Piece Set: SAVI-568-HL 1/4" Square Drive

6 Piece Set: SAVI-1012 3/8" Square Drive

4 Piece Set: SAVI-56810EB Eddie Bolt® Sockets

SAVI-59

## Savi-Socket Collar Removal Tools

NOMINAL COLLAR SIZE	COLLAR "DASH" NUMBER	SQUARE DRIVE SIZE	TOP OF COLLAR DIA. (MM)*	TOP OF COLLAR DIA. (IN.)*	INDIVIDUAL SAVI-SOCKET PART NUMBER	AVAILABLE SETS			
						EDDIE-BOLT® SAVI-56810-EB (4-PIECE SET)	HI-LOK® SAVI-568-HL (12-PIECE SET)	HI-LITE® SAVI-568-RED (6-PIECE SET)	SAVI-1012 (6-PIECE SET)
5/32"EB	5 EB	1/4"	5.5	0.21	SAVI-21	21			
5/32, 3/16"EB	5 & 6 EB	1/4"	6.2	0.24	SAVI-24	24		24	
5/32"	5	1/4"	6.5	0.25	SAVI-25			25	
5/32 & 3/16	5, 6	1/4"	6.7	0.26	SAVI-26			26	
5/32 & 3/17	5, 6	1/4"	7.0	0.27	SAVI-27			27	
3/16"	6	1/4"	7.2	0.28	SAVI-28			28	
3/16"	6	1/4"	7.5	0.29	SAVI-29			29	
1/4", 1/4EB	8 & 8 EB	1/4"	8.2	0.32	SAVI-32	32		32	
1/4"	8	1/4"	8.5	0.33	SAVI-33			33	
1/4"	8	1/4"	8.7	0.34	SAVI-34			34	
1/4"	8	1/4"	9.0	0.35	SAVI-35			35	
1/4"	8	1/4"	9.2	0.36	SAVI-36			36	36
1/4"	8	1/4"	9.5	0.37	SAVI-37			37	37
5/16"EB	10 EB	1/4"	10.0	0.39	SAVI-39	39			
5/16"	10	3/8"	11.0	0.43	SAVI-43				43
5/16"	10	3/8"	11.5	0.45	SAVI-45				45
5/16"	10	3/8"	12.0	0.47	SAVI-47				
5/16"	10	3/8"	12.7	0.50	SAVI-50				50
3/8"	12	3/8"	13.0	0.51	SAVI-51				51
3/8"	12	3/8"	14.0	0.55	SAVI-55				55
3/8"	12	3/8"	14.3	0.56	SAVI-56				56
7/16"	14	3/8"	15.0	0.59	SAVI-59				
7/16"	14	3/8"	16.0	0.63	SAVI-63				
1/2"	16	1/2"	17.0	0.67	SAVI-67				
1/2"	16	1/2"	17.5	0.69	SAVI-69				

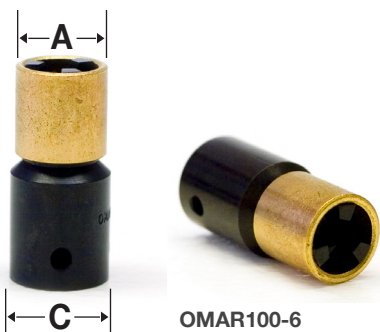
\*Collar opening diameter where socket just fits over the top of the collar

## OMAR Series

Our OMAR Series tools are ideal for removing damaged or rounded threaded collars.

The OMAR series is adaptable to power or hand tools, with a reverse function and a 3/8" drive, for removal of installed frangible Hi-Lok®/Hi-Lite® or similar collars. A hex key set screw is included as an anti-FOD measure. Best for aluminum collars.

- Powerful Application - Excellent Grip
- Tailored to Specific Sizes



OMAR100-6

## OMAR Series Collar Removal Tool

DASH SIZE	A DIAMETER (IN.)	C DIAMETER (IN.)	OMAR 100 Hi-Lok® PART NUMBER	OMAR 100 Hi-Lite® PART NUMBER
-5	5/8	11/16	OMAR 100-5	OMAR 102-5
-6	5/8	11/16	OMAR 100-6	OMAR 102-6
-8	13/16	3/4	OMAR 100-8	OMAR 102-8
-10	3/4*	3/4	OMAR 100-10	OMAR 102-10
-12	7/8**	7/8	OMAR 100-12	OMAR 102-12

\*Sleeveless  
\*\*Removes similar collar types

## OMSK Series (PATENTED)

The OMSK Series offers an efficient and convenient way to remove Hi-Lok® and Eddie-Bolt® collars. The patented 1/4" square drive collar removal sockets incorporate a tapered left-hand thread which, when screwed counter-clockwise onto the collar, breaks it loose, and unscrews the collar. This system is best suited to aluminum collars, but solutions for titanium and steel collars are available upon request.

- Strong Grip
- Tailored to Sizes



US PATENT  
#5737981

OMSK3581-5/16

OMSK3581-1/4

## OMSK Series Removal Sockets

DASH SIZE	COLLAR PIN DIA.	1/4" SQUARE DRIVE PART NUMBER	3/8" SQUARE DRIVE PART NUMBER
-5	5/32"	OMSK3581-5/32	
-6	3/16"	OMSK3581-3/16	
-8	1/4"	OMSK3581-1/4	
-10	5/16"	OMSK3581-5/16	OMSK3581A-5/16
-12	3/8"	OMSK3581-3/8	OMSK3581A-3/8
-14	7/16"	OMSK3581-7/16	OMSK3581A-7/16
-16	1/2"		OMSK3581-1/2

Replaces ATSK3581 Series sockets



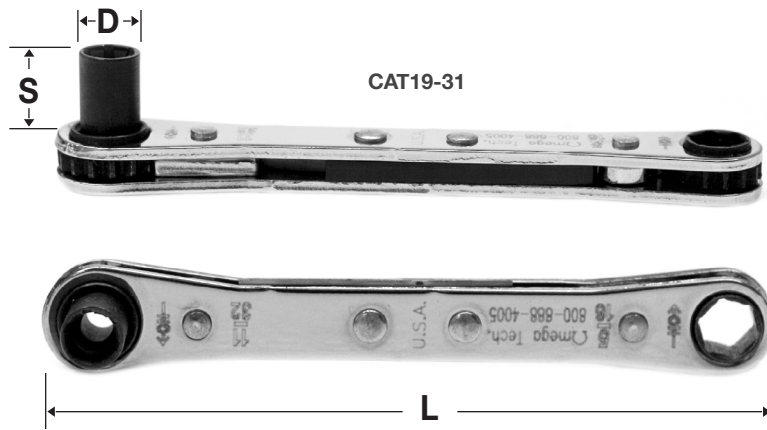
OMSK Series

# Six-Wing® Tool & Socket Series

## Six Wing® Tool

The Six-Wing® frangible collar is recognizable by the six-faceted, semi-spline arrangement of wings around the collar base. These collars are used in high strength applications, typically on fighter aircraft. Special tapered spline sockets were developed to remove these collars. When fitted into the flat box-ratchet handle, these sockets provide easy removal, while at the same time preventing re-installation or re-use of the removed collars. New collars must be used to insure proper torque.

Available as an individual socket or a complete ratchet tool assembly



### Six-Wing® Tool and Socket



	PIN DIAMETER	PIN SIZE (INCHES)	OVERALL LENGTH (L)	SOCKET HEIGHT (S)	SOCKET DIAMETER (D)	SOCKET PART NUMBER	COMPLETE TOOL PART NUMBER
STANDARD SOCKET	-5	5/32	4.25	0.50	0.43	CAT18-15	CAT19-15
	-6	3/16	4.25	0.50	0.43	CAT18-18	CAT19-19
	-8	1/4	4.25	0.60	0.54	CAT18-25	CAT19-25
	-10	5/16	5.50	0.70	0.67	CAT18-31	CAT19-31
	-12	3/8	5.50	0.72	0.77	CAT18-37	CAT19-37
	-14	7/16	5.50	0.80	0.92	CAT18-43	CAT19-43
EXTENDED SOCKET	-5	5/32	4.25	1.00	0.43	CAT18-15-1	CAT19-15-1
	-6	3/16	4.25	1.00	0.43	CAT18-18-1	CAT19-19-1
	-8	1/4	4.25	1.00	0.54	CAT18-25-1	CAT19-25-1
	-10	5/16	5.50	1.25	0.67	CAT18-31-1	CAT19-31-1
	-12	3/8	5.50	1.25	0.77	CAT18-37-1	CAT19-37-1
	-14	7/16	5.50	1.25	0.92	CAT18-43-1	CAT19-43-1

Other sizes available on request

## Northrop Six-Wing® Tool

The Northrop version of the Six-Wing® tool incorporates a hex side for collar installation, and a spline side for removal. This arrangement also prevents the re-use of removed collars.

### Northrop Six-Wing® Tool

DASH SIZE	COLLAR SIZE	PART NUMBER
-1	5/32	T201X37-1
-2	3/16	T201X37-2
-3	1/4	T201X37-3
-4	5/16	T201X37-4
-5	3/8	T201X37-5
-6	7/16	T201X37-6

Other sizes available on request



T201X37-2

Pliers may be used to remove collars in open access applications, but results are typically mixed. Omega offers the Zephyr style, which is best suited to small aluminum collars. It has been our experience that they do not work well with large collars, or steel/titanium collars where greater gripping force is required to achieve the required torque to break collars loose. The Savi-Socket fitted to a standard hand ratchet will usually offer far superior results.

## Hi-Lok® Pliers ZHP-100

This variation of the ATI® model is equipped with a hardened, diamond-jaw pattern that allows the pliers to grip aluminum collars from any direction.



ZHP100

## OM86 Series Hollow Cutter

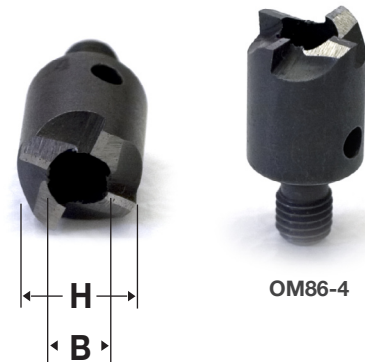
These tools are designed to cut away swaged or threaded collars from fasteners so the fastener pin can be easily removed. They are ideal for removing Hi-Shear® rivets.

The rotating cutter is applied to the collar until a sufficient amount of collar material has been removed. The pin is then easily removed with a punch. A microstop cage is typically used to prevent the cutter teeth from contacting and damaging the work surface.

### OM86 Series Hollow Cutter

DASH SIZE	BODY DIAMETER (B)	HOLE DIAMETER (H)	PART NUMBER	FASTENER SIZE
-1	0.365	0.1240	OM86-1	1/8
-2	0.365	0.1570	OM86-2	5/32
-3	0.438	0.1875	OM86-3	3/16
-4	0.500	0.2470	OM86-4	1/4
-5	0.562	0.3100	OM86-5	5/16

Larger sizes available on request



OM86-4

# Tooling excellence for tomorrow's technology

Founded in 1983, Omega Technologies, Inc. has become one of the world's leading sources of aircraft tools, continually working to increase the variety of tools available, while researching and developing ways to improve their strength, durability, and functionality. Omega manufactures its own proprietary line of tools, and also distributes for a host of other highly respected tool producers. Products include a complete line of fastener installation and removal tools, drills, countersinks, clamps, reamers, grinders, and more.

Quality at Omega shows in our knowledgeable staff, the conscientious and responsive job we do, and in the continually evolving line of products we offer. We thrive on innovation and welcome new solutions to problems. If you have an invention, please give us a call.



John Schooland  
Founder & President



31125 Via Colinas, Suite 905  
Westlake Village, CA 91362

[sales@omegatec.com](mailto:sales@omegatec.com)

**T** 800.888.4005

**T** 818.264.7970

**F** 818.264.1414

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[omegatec.com](http://omegatec.com)



[info@omegatec.com](mailto:info@omegatec.com)

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