

APEX® Guard™

Quality Anti-Mar Fastener Tools Begin With Quality Fastener Tools.

Apex **μ-Guard** provides a protective barrier between genuine Apex fastener tools and your finely finished workpiece. The free-spinning patent-pending design provides maximum protection for polished and highly sensitive surfaces.

Apex **μ-Guard** covering is made of a thermo plastic urethane (TPU elastomer) which cushions against costly incidental side impacts. It offers the lowest sustained coefficient of friction for maximum tool efficiency. It is also non-removable for tamper resistance.

With Apex **μ-Guard** you get the proven Apex fastener tool fit and performance plus the best protection available against marring and in-system damage. **μ-Guard** is your guard against the potential hazards caused by rotational friction.



If it doesn't say Apex on the outside, how can you be sure of what's on the inside?

"Cushioning" Effect Minimizes Side Impact Damage



Free-Spinning Design



Virtually Damage Free



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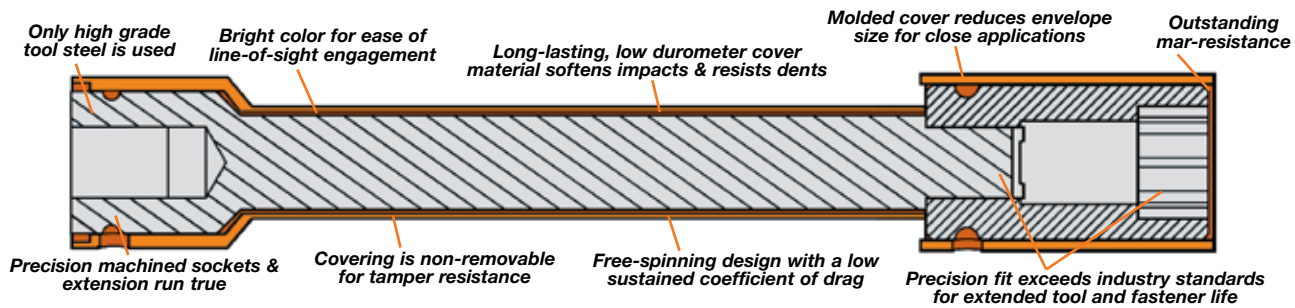
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Why Apex μ -Guard Anti-Mar Fastener Tools Are The Best Choice



Quality Apex Tools Under The Cover

- Apex fastener tools are made from only tool grade steel then heat treated using our proprietary process for the proper hardness based on the application. Not too brittle to break nor too soft to wear out after one shift.
- Each core tool is then machined for a precision fit that exceeds industry standards. Improper fit can lead to premature fastener and fastener tool failure.
- Apex fastener tools run true with minimal wobble for more efficient fastening cycles.

The Cover Story

- A low durometer cover material that resists dents during incidental side impacts. Only Apex μ -Guard absorbs side impacts and does not produce raised burrs when impacted.
- Cover is molded to the tool for reduced envelope dimensions yet still is able to exhibit “free-spinning” capability for improved ergonomics and safety. No other competitor has this capability. Some competitors even require their core tool be modified in order to assemble the cover resulting in weaker integrity and premature failure.
- Covering is non-removable to prevent unwanted tampering on the line.
- Low sustained coefficient of friction between the cover and the tool yields minimal loss of tool efficiency.
- Bright color of covering makes fastener contact visually easier shift after shift and station monitoring quick and easy.
- Part numbers are clearly marked for ease of identification.
- Only Apex has the manufacturing capability, inventory and global supply network to supply the global requirements of today’s marketplace.

μ-Guard Sockets

(Includes socket and cover)



Part Number	Socket	Drive End			Socket Length	Fastener End			Assembly Features*
		Size	Type	Sex		Size	Type	Sex	
UG-10MM21	10MM21	1/4	Square	F	standard	10 mm	Hex	F	FS
UG-M-10MM21	M-10MM21	1/4	Square	F	standard	10 mm	Hex	F	FS, M
UG-MB-10MM21	MB-10MM21	1/4	Square	F	standard	10 mm	Hex	F	FS, M, B
UG-10MM13	10MM13	3/8	Square	F	standard	10 mm	Hex	F	FS
UG-M-10MM13	M-10MM13	3/8	Square	F	standard	10 mm	Hex	F	FS, M
UG-10MM23	10MM23	3/8	Square	F	long	10 mm	Hex	F	FS
UG-M-10MM23	M-10MM23	3/8	Square	F	long	10 mm	Hex	F	FS, M
UG-MB-10MM23	MB-10MM23	3/8	Square	F	long	10 mm	Hex	F	FS, M, B
UG-13MM23	13MM23	3/8	Square	F	long	13 mm	Hex	F	FS
UG-M-13MM23	M-13MM23	3/8	Square	F	long	13 mm	Hex	F	FS, M
UG-MB-13MM23	MB-13MM23	3/8	Square	F	long	13 mm	Hex	F	FS, M, B
UG-13MM25	13MM25	1/2	Square	F	long	13 mm	Hex	F	FS
UG-SF-13MM25	SF-13MM25	1/2	Square	F	long	13 mm	Hex	F	FS, SF
UG-15MM25	15MM25	1/2	Square	F	long	15 mm	Hex	F	FS
UG-SF-15MM25	SF-15MM25	1/2	Square	F	long	15 mm	Hex	F	FS, SF
UG-18MM25	18MM25	1/2	Square	F	long	18 mm	Hex	F	FS
UG-SF-18MM25	SF-18MM25	1/2	Square	F	long	18 mm	Hex	F	FS, SF

If your tool is not shown in the table of representative products above, please contact your Apex representative.

μ-Guard Extensions

(Includes extension and cover)



Part Number	Extension	Drive End			Extension Length	Socket End			Assembly Features*
		Size	Type	Sex		Size	Type	Sex	
UG-EX-250-2	EX-250-2	1/4	Hex	M	2	1/4	Square	M	FS
UG-EX-250-4	EX-250-4	1/4	Hex	M	4	1/4	Square	M	FS
UG-EX-250-6	EX-250-6	1/4	Hex	M	6	1/4	Square	M	FS
UG-EX-370-2	EX-370-2	1/4	Hex	M	2	3/8	Square	M	FS
UG-EX-370-4	EX-370-4	1/4	Hex	M	4	3/8	Square	M	FS
UG-EX-370-6	EX-370-6	1/4	Hex	M	6	3/8	Square	M	FS
UG-EX-376-3	EX-376-3	3/8	Square	F	3	3/8	Square	M	FS
UG-EX-376-6	EX-376-6	3/8	Square	F	6	3/8	Square	M	FS
UG-EX-376-12	EX-376-12	3/8	Square	F	12	3/8	Square	M	FS
UG-EX-508-4	EX-508-4	1/2	Square	F	4	1/2	Square	M	FS
UG-EX-508-8	EX-508-8	1/2	Square	F	8	1/2	Square	M	FS
UG-EX-508-12	EX-508-12	1/2	Square	F	12	1/2	Square	M	FS

If your tool is not shown in the table of representative products above, please contact your Apex representative.

μ-Guard Bit Holders

(Includes bit holder and cover)



Part Number	Bit Holder	Drive End			Holder Length	Fastener End			Assembly Features*
		Size	Type	Sex		Size	Type	Sex	
UG-M-490	M-490	1/4	Hex	M	2 31/32	1/4	Hex	F	FS, M, ET
UG-M-490-4	M-490-4	1/4	Hex	M	4	1/4	Hex	F	FS, M, ET
UG-M-490-6	M-490-6	1/4	Hex	M	6	1/4	Hex	F	FS, M, ET
UG-825	825	1/4	Square	F	1	1/4	Hex	F	FS, ET
UG-M-825	M-825	1/4	Square	F	2 9/32	1/4	Hex	F	FS, M, ET
UG-838	838	3/8	Square	F	1 1/2	1/4	Hex	F	FS, ET
UG-M-838	M-838	3/8	Square	F	2 5/8	1/4	Hex	F	FS, M, ET
UG-835	835	3/8	Square	F	1 1/2	5/16	Hex	F	FS, ET
UG-M-835	M-835	3/8	Square	F	2 3/4	5/16	Hex	F	FS, M, ET
UG-855	855	1/2	Square	F	1 1/2	5/16	Hex	F	FS, ET
UG-M-855	M-855	1/2	Square	F	2 3/4	5/16	Hex	F	FS, M, ET
UG-M-858	M-858	1/2	Square	F	2 3/4	1/4	Hex	F	FS, M, ET

If your tool is not shown in the table of representative products above, please contact your Apex representative.

***Features Abbreviations**

FS Free Spinning
M Magnetic
ET Extended Tip

Tool is able to rotate independently of Cover
 Tool includes magnet to hold the position of the fastener during fastening operation
 Cover extends beyond end of Bit Holder to shield the majority of a standard Insert Bit.*

*Bit holder covers can be used with 1" or 1 1/4" long insert bits. Tip of cover can be modified by end user to suit application requirements or preference. Suggested methods of modifying covers include cutting to preferred length or heating up cover material and conforming to fastener head configuration.

Notes: Reported lengths are based on uncovered tool length only for reference. Cover may extend beyond end of tool by 2 mm unless otherwise noted.



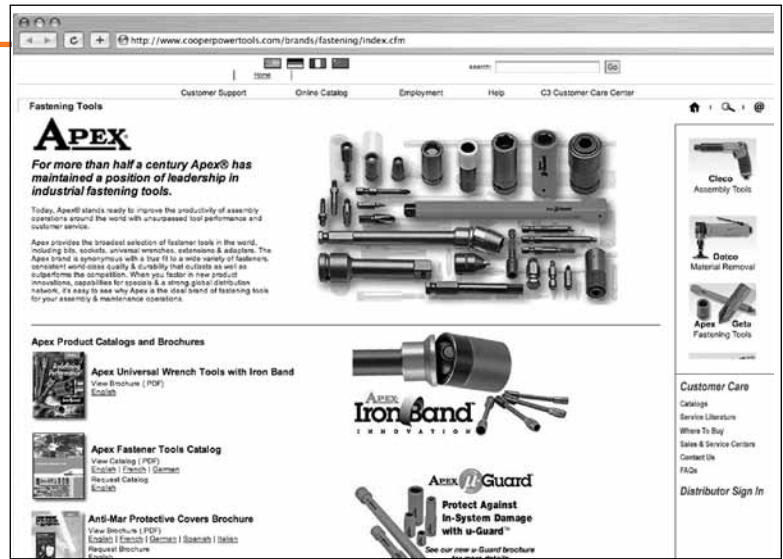
Don't see what you need?

This catalog contains 3,000+ of the most frequently requested bits, sockets and fastening accessories. Our entire active offering approaches 10,000 sellable part numbers. If the tool you need does not appear in this catalog, give us a call. The odds are, we may have what you need as a non-catalog item. If not, our experienced staff of tooling experts can design and manufacture "specials" to meet the needs of your specific applications.

This flexibility has helped make Apex the only manufacturer which is a market and technology leader in all of the following industrial product categories: Bits & Bit Holders, Impact Sockets, Extensions and Universal Wrenches.

Get a quote on-line fast!

You can even specify custom tooling on-line fast! Specification sheets for bits, sockets, extensions and



universal joints are available on-line. Just complete the appropriate easy to use form and submit your request. You'll receive a rapid response from one of our experienced staff of tooling experts.



Easy to complete forms are available on-line at our website www.apex-tools.com.

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Apex® Has A Wide Selection Of Custom Designed Anti-Mar Covers.



Over Half A Century Of Quality In Every Design

For many years Apex has been producing protective covers for our quality products. Each was custom designed by our staff of engineers to work in a specific application. Over time we have developed a vast library of designs that work not only for their original applications but may also be a solution for one of your applications.

Our covered product designs include sockets, sockets and extensions, bits and bit holders, nutsetters and many more.

Each design was developed with one or more of the following unique features and capabilities:

- Free-spinning covers which allow the tool to rotate independently of the cover for improved protection of sensitive surfaces.
- Spring-loaded covers which retract when engaging the fastener.
- Embedded magnets in covers increase holding force on fastener.
- Single-piece construction to reduce material interfaces.
- Press fit/non-free-spinning for reduced envelope size in tight clearance applications.



Apex recognizes the need in assembly operations for the protection of painted or finished surfaces. We can coat just about any Apex bit or socket with a protective nylon sleeve. Shown above are some recently manufactured solutions with a brief description of the application.

1. Pick-up Truck Tailgate to Bed
Torx® T-50 Bit with magnets within the sleeve to secure fastener. **WJ-1506-T50**

2. Sun Visor Installation
Phillips bit used with magnetic bit holder. Nylon sleeve reduces headliner and visor damage. **SD-5241-A**

3. Lug Nut Assembly
Magnetic 19MM socket has nylon coating to protect chrome plated and polished aluminum wheels. **HGSFNC-3028**

4. Antenna Driver
Four-prong antenna bezel nutdriver with nylon sleeve to reduce damage to painted surface. **BZCNC-30, -31**

5. Spare Tire Wing Nut Assembly
All nylon socket to install low torque wing nut. **WJ-1405**

6. Painted Door Assembly
Only the nutsetter spins within the nylon sleeve, eliminating any mark on surface around the fastener. Nylon sleeve also protects adjacent painted door surface. **MNC6N-08-10M-4**

APEX® Solutions

Does Apex offer sockets for the installation of grease fittings?

Specially designed Apex sockets are the easy way to install or remove grease fittings.

(See page 75)



What's the real advantage of using socket adapters?

Socket adapters are an easy and economical solution for applications that require several different nut sizes.

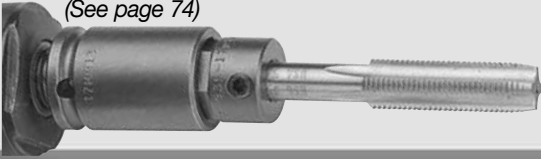
(See page 77)



Does Apex offer tap holding sockets?

Apex offers a wide variety of tap holding adapters. These adapters allow you to easily convert your power tool into a tap drill.

(See page 74)



What's the advantage of a male hex drive socket?

A male hex drive socket lets you quickly accommodate a different nut size without pulling the primary socket off the power tool.

(See page 77)



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Reversible Sockets for SAE Hex Head Sheet Metal Screws



Standard

Part Number	Hex Size	Overall Length	Outside Diameter	Roll Pin Part Number
SW-350	1/4	9/16	3/8	21-S-078-0375
SH-402	13/16	3/4	13/16	21-S-078-0750

Magnetic

Part Number	Hex Size	Overall Length	Outside Diameter	Spring Pin Part Number
MSW-350	1/4	31/32	3/8	21-S-078-0375
MSW-90	1/4	31/32	7/16	21-S-078-0437
MSW-90-B*	1/4	31/32	7/16	21-S-078-0437
MSW-984	5/16	31/32	9/16	21-S-078-0562
MSW-984-B*	5/16	31/32	9/16	21-S-078-0562
MSH-400	3/8	1 1/8	11/16	21-S-078-0687

*Tapered Ends

Shanks for Reversible Sockets



Part Number	Male Hex Power Drive	Male Hex Size	Overall Length	
SH-629	1/4	1/4	2	
SH-629-P	1/4	1/4	2	Pin Lock
SH-629-5	1/4	1/4	5	
SH-629-6	1/4	1/4	6	
SH-57	1/4	1/4	2	Full Length Hex
SH-57-3	1/4	1/4	3	Full Length Hex
SH-57-4	1/4	1/4	4	Full Length Hex
SH-57-6	1/4	1/4	6	Full Length Hex
SH-57-8	1/4	1/4	8	Full Length Hex
SH-59	1/4	5/16	2	
SH-59-3	1/4	5/16	3	
SH-59-4	1/4	5/16	4	
SH-59-6	1/4	5/16	6	
SH-412	1/4	3/8	2	
SH-414	1/4	1/2	2	
SH-404	7/16	3/8	2	

Valve Stem Drivers

1/4" Male Hex Drive

Part Number	Slot Size	Overall Length In.	Overall Length mm	Body Diameter In.	Body Diameter mm
SD-5197	0.09"	1.68	42.67	0.181	4.6
SD-5187	0.109"	2.5	63.50	0.176	4.5

Tap Holding Sockets

Male Hex Drive, SAE



(Tap not included)

Part Number	Tap Size	Male Hex	Socket Length In.	Socket Length mm	Socket Diameter In.	Socket Diameter mm
SJ-935-1/4	1/4	7/16	15/16	24	5/8	16
SJ-935-5/16	5/16	1/2	15/16	24	5/8	16
SJ-935-3/8 FS	3/8	9/16	1	25	21/32	17
SJ-935-7/16	7/16	5/8	1	25	3/4	19
SJ-935-1/2	1/2	3/4	1 1/4	32	7/8	22

Male Hex Drive, Metric



(Tap not included)

Part Number	Tap Size	Male Hex	Socket Length In.	Socket Length mm	Socket Diameter In.	Socket Diameter mm
SJ-935-10MMX6	M6	10	15/16	24	5/8	16
SJ-935-12MMX8	M8	12	15/16	24	5/8	16
SJ-935-14MMX10	M10	14	1	25	21/32	17
SJ-935-17MMX8	M8	17	1	25	13/16	21
SJ-935-17MMX12	M12	17	1	25	13/16	21

Female Sq. Dr., SAE



Part Number	Tap Size	Female Square	Socket Length In.	Socket Length mm	Socket Diameter In.	Socket Diameter mm
HC-100-10	#10	3/8	1 1/2	38	3/4	19
HC-100-1/4	1/4	3/8	1 1/2	38	3/4	19
HC-100-5/16	5/16	3/8	1 1/2	38	3/4	19
HC-100-3/8 FS	3/8	3/8	1 1/2	38	3/4	19
HC-100-7/16	7/16	3/8	1 1/2	38	3/4	19
HC-100-1/2	1/2	3/8	1 1/2	38	3/4	19
HC-100-5/8	5/8	3/8	1 3/4	46	1	25
HC-100-3/4	3/4	3/8	2	51	1	25
HE-100-1/4	1/4	1/2	1 1/2	38	7/8	22
HE-100-5/16	5/16	1/2	1 1/2	38	7/8	22
HE-100-3/8 FS	3/8	1/2	1 1/2	38	7/8	22
HE-100-7/16	7/16	1/2	1 1/2	38	7/8	22
HE-100-1/2	1/2	1/2	1 5/8	41	7/8	22
HE-100-5/8	5/8	1/2	1 3/4	46	1	25
HE-100-3/4	3/4	1/2	2	51	1	25

Ferry Cap® Sockets

3/8" Square Drive

Part Number	Head Size	Overall Length In.	Overall Length mm	Nose Diameter In.	Nose Diameter mm	Drive Diameter In.	Drive Diameter mm
FC-310	5/16"	1 1/4	31.75	15/32	11.9	5/8	15.9
FC-312	3/8"	1 1/4	31.75	9/16	4.3	3/4	19.0



Grease Fitting Sockets

For Angled Grease Fittings,
Deep and Shallow
Broach Depth



Part Number	Hex Size	Square Drive	Overall Length		Broach Depth		Magnet Depth		
			In.	mm	In.	mm	In.	mm	
ZN-112	-	3/8	1/4	1 1/4	32	9/16	14	-	-
ZN-312	MZN-312	3/8	3/8	1 1/2	38	9/16	14	7/32	6
ZN-512	-	3/8	1/2	1 1/2	32	9/16	14	-	-
ZN-114	-	7/16	1/4	1 1/4	32	7/16	11	-	-
ZN-314	MZN-314	7/16	3/8	1 1/2	38	7/16	11	7/16	11
ZN-514	MZN-514	7/16	1/2	1 1/2	38	7/16	11	7/16	11
ZE-112	-	3/8	1/4	1 1/4	32	1/8	3	-	-
ZE-314	-	7/16	3/8	1 1/2	38	3/16	5	-	-
ZE-514	-	7/16	1/2	1 1/2	38	3/16	5	-	-

For Straight Grease Fittings



Part Number	Hex Size	Square Drive	Overall Length		Broach Depth		Magnet Depth		
			In.	mm	In.	mm	In.	mm	
ZA-110	MZA-110	5/16	1/4	1	25	1/8	3	21/64	8
ZA-310	MZA-310	5/16	3/8	1 1/4	32	1/8	3	21/64	8
ZA-510	MZA-510	5/16	1/2	1 1/2	38	1/8	3	19/64	7
ZA-512	-	3/8	1/2	1 1/2	38	1/8	3	-	-
ZA-314	MZA-314	7/16	3/8	1 1/4	32	3/16	5	23/64	9
ZA-514	MZA-514	7/16	1/2	1 1/2	38	3/16	5	3/8	10

Drill Holders

1/4" Male Hex Drive



Part Number	Drill Size	Overall Length		Body Diameter	
		In.	mm	In.	mm
WJ-284-7/64	7/64	2 5/8	67	1/2	13
WJ-284-1/8	1/8	2 5/8	67	5/8	16
WJ-284-9/64	9/64	2 5/8	67	5/8	16
WJ-284-5/32	5/32	2 5/8	67	3/4	19
WJ-284-3/16	3/16	2 5/8	67	3/4	19
WJ-284-1/4	1/4	2 5/8	67	3/4	19
WJ-284-5/16	5/16	2 5/8	67	3/4	19
WJ-284-3/8	3/8	2 5/8	67	1	25

7/16" Male Hex Drive



Part Number	Drill Size	Overall Length		Body Diameter	
		In.	mm	In.	mm
WJ-265-13/64	13/64	2 3/8	60	3/4	19
WJ-265-3/16	3/16	2 3/8	60	3/4	19
WJ-265-1/4	1/4	2 3/8	60	3/4	19
WJ-265-7/16	7/16	2 3/8	60	1	25
WJ-265-3/8	3/8	2 3/8	60	1	25
WJ-265-17/32	17/32	2 3/8	60	1 1/8	29
WJ-265-1/2	1/2	2 3/8	60	1 1/8	29

#5 (1 5/8") Spline Drive



Extensions

Part Number	Overall Length		Description
	In.	mm	
EXL-15	15	381	Female spline to male spline

Adapters



Part Number	Description
EXL-1000	Female spline to 1" male square
EXL-1100	Female spline to 1 1/2" male square

Universal Wrenches



Part Number	Description
MFL-250	Female spline to male spline (heavy duty)
MFL-1000	Female spline to 1" male square

*Universal wrenches must not be used with impact drivers.
Maximum operating angle is 30°.-*

#5 (1 5/8") Spline Drive Budd Wheel Sockets



Combo. 13/16" Square 1 1/2" Hex

Part Number	Drive	Overall Length	
		In.	mm
HT-848	#5 Spline	4 1/4	108

Socket Retaining Rings

Plastic Ring With Steel Insert



Part Number	Drive	Inside Diameter	
		In.	mm
10005S	3/4" Square	1 1/4	31.8
10032S	3/4" Square	1 7/16	36.5
10034S	3/4" Square	1 5/8	41.3
10008S	1" Square	1 3/4	44.5
10010S	1" Square	2	50.8
10015S	1" Square	2 1/8	54.0
10016S	1" Square	2 1/4	57.2
10017S	1" Square	2 1/2	63.5
10019S	1" Square	2 5/8	66.7
10020S	1 1/2" Square	2 7/8	73.0
10025S	1 1/2" Square	3 3/8	85.7

Metal Ring



Part Number	Drive	Inside Diameter	
		In.	mm
MET-1301C	3/8" Square	.677	17.2
MET-1302C	3/8" Square	.771	19.6
MET-1401C	1/2" Square	.885	22.5
MET-1402C	1/2" Square	1.086	27.6
MET-1600C	3/4" Square	1.594	40.5
MET-1800C	1" Square	1.948	49.5

Adapters

#130-A Yankee Drive for Spiral Type Driver



Part Number	Male Square In.	Overall Length		Shank Diameter	
		In.	mm	In.	mm
YK-250	1/4	1 15/16	49	.277	7.0
YK-370	3/8	2 3/16	56	.277	7.0
YK-500	1/2	2 5/16	59	.277	7.0

#131-A Yankee Drive for Spiral Type Driver



Part Number	Male Square In.	Overall Length		Shank Diameter	
		In.	mm	In.	mm
YK-501	1/2	2 5/16	59	.310	8.0

#135-A Yankee Drive for Spiral Type Driver



Part Number	Male Square In.	Overall Length		Shank Diameter	
		In.	mm	In.	mm
YK-252	1/4	1 15/16	49	.215	5.5
YK-372	3/8	2 3/16	56	.215	5.5
YK-502	1/2	2 5/16	59	.215	5.5

Female Threaded Adapters



Part Number	Female Thread	Male Square In.	Type of Lock
TH-377	3/8"-24	3/8	Pin
TH-501	3/8"-24	1/2	Pin
TH-378	1/2"-20	3/8	Pin
TH-502	1/2"-20	1/2	Pin

Male Threaded Adapters



Part Number	Male Thread	Hex Drive
TN-24	3/8"-24	7/16
TM-20	1/2"-20	1/4
TN-20	1/2"-20	7/16

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