



PROTO[®]

SAFETY OBSESSED

**AVIATION HAND TOOL &
STORAGE SOLUTIONS**

**BUILDING AND MAINTAINING AIRCRAFT
IS A BIG JOB.**

WE MAKE THE TOOLS THAT HELP.



GOVERNMENT & MILITARY



ROTORCRAFT



COMMERCIAL



SPACECRAFT



TABLE OF CONTENTS

TOOL STORAGE	14-24
MODULAR SETS	25-36
MASTER SETS	37-54
DRIVE TOOLS	55-62
HAND SOCKETS	63-94
IMPACT SOCKETS	95-114
AIR TOOLS	115-118
WRENCHES	119-148
PRECISION TORQUE	149-154
SCREWDRIVERS & HEX KEYS	155-162
PLIERS & CLAMPING	163-168
STRIKING & PRYING	169-178
SPECIALITY	179-181
INDEX	182-212



WE FOCUS ON QUALITY. SO YOU CAN TOO.

If you build or maintain aircraft for a living, you know there is no time for delays. No room for shortcuts. No tolerance for FOD.

Demands are high, pressure is constant, and PROTO® has the tools you need to get the job done.

PROTO® tools are engineered and tested to stringent aerospace standards to help you stay productive and working safely.

PROTO® is safety obsessed. Aerospace specifications are set in place by engineers and technical experts to help promote safety, quality and effectiveness of products and services. PROTO® tools are engineered and tested to help ensure that they are manufactured to meet these strict standards. From hand sockets, torque and drive tools, PROTO® Industrial Tools meet the dimensional and plating requirements developed for the industrial user.



Proto® is a member of SAE International, a global association of more than 128,000 engineers and related technical experts in the aerospace, automotive and commercial vehicle industries.



*SAE International is a registered trademark of SAE International

TOOLS THAT ARE TESTED AND TESTED AGAIN...

To meet the specifications as strict as
those that send aircrafts for take-off.





**A LEADER IN GOVERNMENT
& MILITARY SINCE WWII**





HARDNESS & X-RAY TESTING

Tests overall thickness of chrome to ensure tools meet Aerospace specifications.

LIFE-CYCLE TESTING

Checks endurance of product under multiple types of stress.

COORDINATE MEASURING

Determines accuracy of tool manufacturing by precisely measuring aerospace-compliant products.

TORQUE TOLERANCE TESTING

Measures the amount of force a product can withstand.



**PRECISION
MANUFACTURING
AND QUALITY
INSPECTIONS**

PRECISION

PRECISION 90 DEGREE HEAD RATCHETS
AND TORQUE WRENCHES



Aerospace-compliant full polish,
double nickel-chrome plating helps
protect against corrosion.



PROTO®

ACCESSIBILITY

PRECISION AND ACCESSIBILITY
FOR PRODUCTIVITY AND TIME-SAVING

INTERMEDIATE SOCKETS

Intermediate sizes are engineered for tough-to-reach places when standard and deep lengths don't cut it.



Thinner outside diameters on sockets and wrenches help improve access to fasteners in confined areas, without sacrificing strength and durability.*

› 90 tooth count equals 4° arc swing



*Thinner/Slimmer than tools that meet ASME Specs

PROTO® Industrial Tools meet or exceed **ASME Standards**, which helps ensure quality and durability, giving users peace of mind.

ASME



AS

Over 1,460 PROTO® Mechanics Tools take performance and safety to the next level by meeting **AS Specifications**.

SAFETY OBSESSED >>>

TOTAL SAFETY SOLUTION

SAFETY PROGRAM OVERVIEW

Proto® Industrial Tools has developed a Safety Obsessed Training Program which includes an onsite seminar that presents the latest information on safe and responsible tool use for professionals who handle industrial tools. The program helps users identify when tools become worn or damaged and need to be replaced, as well as identifying specific tools and procedures that can improve site safety.

The Proto® Safety Obsessed Seminar can be expanded to include a Tool Safety Audit.



PROTO®

GLOBAL DISTRIBUTION >>>>>>>>>>

WE'RE EVERYWHERE YOU ARE

There's more than one way to buy your PROTO® Industrial Tools. In fact, with more than 5,700 distributor locations worldwide,

INCLUDING 5,500 IN NORTH AMERICA ALONE,
PROTO® hand tools and storage are available everywhere you are.

Visit ProtoIndustrial.com to quickly find the distributors near you.

PROTO®



OVER 200 LOCATIONS
OUTSIDE NORTH AMERICA



DRIVE TOOLS

DRIVE TOOLS

PRECISION 90 PEAR HEAD RATCHETS

- › 90 tooth count allows for 4 degree arc swing.
- › Double nickel chrome plated for enhanced corrosion protection.
- › Small, pear head design for access in tight, hard-to-reach work areas.
- › Full polish sockets meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.
- › Contoured, ergonomically designed handle for comfort.
- › Low profile reversing lever design for quick, one hand operation.
- › Knurled bands allow for increased grip and slip resistance.



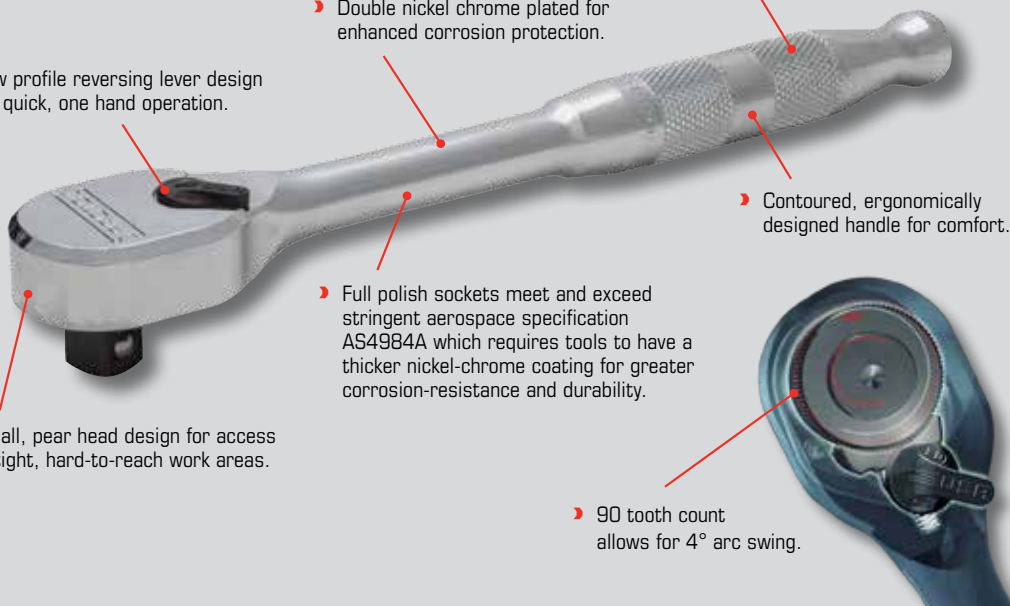
PRECISION 90 PEAR HEAD RATCHETS

Product #	Drive Size (in)	Length	Finish	Overall Length (in)	Weight (lbs)	Repair Kit Part #
J4749HTC*	1/4	Standard	Full Polish	5-7/32	0.25	J47HTCFRK
J4749HTCBL*	1/4	Standard	Black Oxide	5-7/32	0.25	J47HTCFRK
J4750HTC	1/4	Long	Full Polish	9	0.25	J47HTCFRK
J4750HTCF	1/4	Long - Flex Head	Full Polish	9	0.44	J47HTCFRK
J5249HTC*	3/8	Standard	Full Polish	7-11/16	0.69	J52HTCFRK
J5249HTCBL*	3/8	Standard	Black Oxide	7-11/16	0.69	J52HTCFRK
J5250HTC	3/8	Long	Full Polish	12-39/64	0.83	J52HTCFRK
J5250HTCBL	3/8	Long	Black Oxide	12-39/64	0.83	J52HTCFRK
J5249HTCF	3/8	Standard - Flex Head	Full Polish	7-11/16	0.74	J52HTCFRK
J5250HTCF	3/8	Long - Flex Head	Full Polish	12-11/16	0.88	J52HTCFRK
J5449HTC*	1/2	Standard	Full Polish	10-11/16	1.83	J54HTCFRK
J5449HTCBL*	1/2	Standard	Black Oxide	10-11/16	1.83	J54HTCFRK
J5450HTC	1/2	Long	Full Polish	17-11/16	2.52	J54HTCFRK
J5450HTCBL	1/2	Long	Black Oxide	17-11/16	2.52	J54HTCFRK
J5426HTC	1/2	Extra Long	Full Polish	25-11/16	3.28	J54HTCFRK
J5426HTCBL	1/2	Extra Long	Black Oxide	25-11/16	3.28	J54HTCFRK
J5450HTCF	1/2	Long - Flex Head	Full Polish	17-11/16	2.65	J54HTCFRK

*SAE AS4283C ASME B107.110-2012

PRECISION 90

- › Low profile reversing lever design for quick, one hand operation.
- › Double nickel chrome plated for enhanced corrosion protection.
- › Knurled bands allow for increased grip and slip resistance.
- › Contoured, ergonomically designed handle for comfort.
- › Full polish sockets meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.
- › 90 tooth count allows for 4° arc swing.
- › Small, pear head design for access in tight, hard-to-reach work areas.



PREMIUM PEAR HEAD RATCHETS



- › Small pear head design for access in tight, hard-to-reach work areas.
- › 45-tooth gear provides balance between 8° articulation angle and high torque carrying capacity.
- › Sealed design helps prevent debris from entering ratchet mechanism reducing wear. Also, helps to keep lubrication contained within the components. Patent pending design.
- › Low profile reversing lever design for quick, one-hand operation.
- › Contoured, ergonomically designed handle for comfort. Knurled bands allow for increased grip and slip resistance.
- › Double nickel chrome plated for enhanced corrosion protection or black oxide finish.
- › Field repairable.



Product #	Drive Size (in)	Finish	Style	Overall Length (in)	Weight (lbs)	Repair Kit Part #
J4749XL*	1/4	Full Polish	Pear Head	5-5/8	0.25	J4749XLRK
J4749XLBL*	1/4	Black Oxide	Pear Head	5-9/16	0.25	J4749XLRK
J4749XLQR*	1/4	Full Polish	Quick-Release	5-5/8	0.25	J4749XLQRRK
J4749XLQRBL*	1/4	Black Oxide	Quick-Release	5-5/8	0.25	J4749XLQRRK
J5249XL*	3/8	Full Polish	Pear Head	8-1/2	0.86	J5249XLRK
J5249XLBL*	3/8	Black Oxide	Pear Head	8-1/2	0.87	J5249XLRK
J5249XLQR*	3/8	Full Polish	Quick-Release	8-1/2	0.86	J5249XLQRRK
J5249XLQRBL*	3/8	Black Oxide	Quick-Release	8-1/2	0.86	J5249XLQRRK
J5449XL	1/2	Full Polish	Pear Head	10-1/2	1.72	J5449XLRK
J5449XLBL	1/2	Black Oxide	Pear Head	10-1/2	1.72	J5449XLRK
J5449XLQR	1/2	Full Polish	Quick-Release	10-1/2	1.72	J5449XLQRRK
J5449XLQRBL	1/2	Black Oxide	Quick-Release	10-1/2	1.72	J5449XLQRRK

SAE AS4283C ASME B107.110-2012

LONG HANDLE



Product #	Drive Size (in)	Finish	Style	Overall Length (in)	Weight (lbs)	Repair Kit Part #
J5250XL*	3/8	Full Polish	Pear Head	11	1.03	J5249XLRK
J5250XLBL*	3/8	Black Oxide	Pear Head	11	0.98	J5249XLRK
J5250XLQRBL*	3/8	Black Oxide	Quick-Release	11	1.03	J5249XLQRRK
J5450XL	1/2	Full Polish	Pear Head	15	2.18	J5449XLRK
J5450XLQR	1/2	Full Polish	Quick-Release	15	2.18	J5449XLQRRK
J5450XLBL	1/2	Black Oxide	Pear Head	15	2.18	J5449XLRK
J5450XLQRBL	1/2	Black Oxide	Quick-Release	15	2.18	J5449XLQRRK

SAE AS4283C ASME B107.110-2012

AEROSPACE PREMIUM PEAR HEAD RATCHETS



- › Vertical hole drilled in drive plug, designed for installation of frangible collars on threaded pins.
- › Robust 45-tooth gear pawl design provides 8° ratcheting angle while maximizing ultimate torque.
- › Thin head design for access into tight work areas.
- › Reversing lever designed for quick, one-hand operation.
- › Full polish nickel chrome plated.



Product #	Drive Size (in)	Finish	Style	Overall Length (in)	Weight (lbs)	Repair Kit Part #
J4749XLHS	1/4	Full Polish	Aerospace	5-45/64	0.25	J4749XLHSRK
J5249XLHS	3/8	Full Polish	Aerospace	8-1/2	0.86	J5249XLHSRK

SAE AS4283C ASME B107.110-2012

6 POINT
 8 POINT
 12 POINT
 SPLINE
 HEX
 FULL POLISH
 SATIN
 BLACK OXIDE
 INSULATED

PREMIUM PEAR HEAD RATCHETS

DRIVE TOOLS

CLASSIC PEAR HEAD RATCHETS



- ▶ Robust 24-tooth gear/floating pawl design provides 15° ratcheting angle while maximizing ultimate torque.
- ▶ Thin head design for access into tight work areas.
- ▶ Reversing lever designed for quick, one-hand operation.



Product #	Drive Size (in)	Finish	Style	Overall Length (in)	Weight (lbs)	Repair Kit Part #
J4749	1/4	Full Polish	Pear Head	5	0.26	J4749RK
J4749BL	1/4	Black Oxide	Pear Head	5	0.24	J4749RK
J5249	3/8	Full Polish	Pear Head	7	0.61	J5249RK
J5249BL	3/8	Black Oxide	Pear Head	7	0.62	J5249RK
J5449	1/2	Full Polish	Pear Head	10	1.57	J5449RK
J5449BL	1/2	Black Oxide	Pear Head	10	1.74	J5449RK
J5649	3/4	Satin	Pear Head	20	6.00	J5649RK
J5649BL	3/4	Black Oxide	Pear Head	20	6.00	J5649RK

ASME B107.110-2012

LONG HANDLE



Product #	Drive Size (in)	Finish	Style	Overall Length (in)	Weight (lbs)	Repair Kit Part #
J5250	3/8	Full Polish	Pear Head	11	0.89	J5249RK
J5250BL	3/8	Black Oxide	Pear Head	11	0.81	J5249RK
J5450	1/2	Full Polish	Pear Head	16	2.03	J5449RK
J5450BL	1/2	Black Oxide	Pear Head	16	2.03	J5449RK

ASME B107.110-2012

STUBBY



Product #	Drive Size (in)	Finish	Style	Overall Length (in)	Weight (lbs)	Repair Kit Part #
J5248S	3/8	Full Polish	Pear Head	5	0.28	J6064RK



ROUND HEAD RATCHETS

- ▶ Round head ratchet mechanism allows for a compact head.
- ▶ 72-tooth = 5° swing arc.
- ▶ Small head design and tight swing arc allow for fastener access in tight areas.
- ▶ Full polish shaft with knurled grip for strong slip-resistant grip.



Product #	Drive Size (in)	Finish	Style	Overall Length (in)	Weight (lbs)	Repair Kit Part #
J4752F	1/4	Full Polish	Round Head	4-1/2	0.26	J4752FRK
J4752FBL	1/4	Black Oxide	Round Head	4-1/2	0.24	J4752FRK
J5252F	3/8	Full Polish	Round Head	7-3/8	0.57	J5252FRK
J5252FBL	3/8	Black Oxide	Round Head	7-3/8	0.57	J5252FRK
J5452F	1/2	Full Polish	Round Head	9-3/8	1.12	J5452FRK
J5452FBL	1/2	Black Oxide	Round Head	9-3/8	1.12	J5452FRK


ASME B107.110-2012

CLASSIC PEAR HEAD & ROUND HEAD RATCHETS

SPINNER RATCHET

- › Made from alloy steel.
- › Heat-treated for strength and durability.
- › Fits on the drive end of the ratchet for quickly running down the fastener before final tightening with the ratchet.

Product #	Drive Size (in)	Finish	Overall Length (in)	Weight (lbs)
J5251	3/8	Full Polish	1-1/2	0.56


ASME B107.110-2012 



RATCHET ADAPTERS

- › Converts standard handles to ratcheting handles.

Product #	Drive Size (in)	Finish	Overall Length (in)	Weight (lbs)
J5247	3/8	Full Polish	2-1/16	0.34
J5447	1/2	Full Polish	2-21/32	0.86
J5647	3/4	Full Polish	3-3/4	2.38


ASME B107.110-2012 



SOCKET DRIVER

- › 1/4" square female drive in handle.

Product #	Drive Size (in)	Finish	Overall Length (in)	Weight (lbs)
J4769	1/4	Full Polish	6	0.22


ASME B107.110-2012 



FLEXIBLE DRIVERS

- › Flexible shaft for bending around obstructions in low torque applications.

Product #	Drive Size (in)	Overall Length (in)	Weight (lbs)
J4764	1/4	6-3/4	0.19
J5267	3/8	9	0.35





 6 POINT	 8 POINT	 12 POINT	 SPL SPLINE	 HEX HEX	 FULL POLISH	 SATIN	 BLACK OXIDE	 INSULATED
---	---	--	--	---	---	---	---	---

DRIVE TOOLS

HINGE HANDLES

- › Head flexes 90° from horizontal.
- › Made of heat-treated alloy steel.
- › Chrome plated and black oxide finish options.



Product #	Drive Size (in)	Finish	Overall Length (in)	Weight (lbs)
J4766	1/4	Full Polish	5-3/4	0.22
J5265	3/8	Full Polish	8-1/2	0.58
J5265BL	3/8	Black Oxide	8-1/2	0.58
J5266-10	3/8	Full Polish	10	0.65
J5266*	3/8	Full Polish	12	0.80
J5466*	1/2	Full Polish	10-7/8	1.14
J5467	1/2	Full Polish	15-3/4	1.52
J5468	1/2	Full Polish	18-5/8	1.69
J5468BL	1/2	Black Oxide	18-5/8	1.69
J5469	1/2	Full Polish	24	2.68
J5668	3/4	Full Polish	20	4.32
J5668BL	3/4	Black Oxide	20	4.41
J5868*	1	Full Polish	27	7.56

SAE AS4283C ASME B107.110-2012 

*Meets and exceeds ASME B107.110-2012 only

SPEED HANDLES

- › Made from alloy steel.
- › Heat-treated for strength and durability.



Product #	Drive Size (in)	Finish	Overall Length (in)	Weight (lbs)
J4780AG	1/4	Full Polish	15-1/2	0.52
J5280AG	3/8	Full Polish	17-1/2	0.86
J5480AG	1/2	Full Polish	18-5/16	1.55

ASME B107.110-2012

SLIDING T-HANDLES

- › Made from alloy steel.
- › Heat-treated for strength and durability.



Product #	Drive Size (in)	Finish	Overall Length (in)	Weight (lbs)
J4785	1/4	Full Polish	4-1/2	0.08
J5285	3/8	Full Polish	8	0.41
J5485	1/2	Full Polish	12-15/16	1.11
J5685	3/4	Full Polish	20	2.95
J5886	1	Full Polish	28-1/2	6.30

ASME B107.110-2012

STANDARD EXTENSIONS

- › Extensions help provide access to fasteners in areas that might otherwise be difficult to reach.



Product #	Drive Size (in)	Finish	Overall Length (in)	Weight (lbs)
J4759	1/4	Full Polish	2	0.05
J4759B	1/4	Black Oxide	2	0.05
J4760*	1/4	Full Polish	3	0.08
J4760-04	1/4	Full Polish	4	0.10
J4761	1/4	Full Polish	6	0.15
J4762*	1/4	Full Polish	10	0.24
J4761B	1/4	Black Oxide	6	0.15
J4763	1/4	Full Polish	14-3/32	0.30
J5259	3/8	Full Polish	1-3/4	0.11
J5259B	3/8	Black Oxide	1-3/4	0.11
J5260	3/8	Full Polish	3	0.16
J5260B	3/8	Black Oxide	3	0.16
J5260-06	3/8	Full Polish	6	0.31
J5260-06B	3/8	Black Oxide	6	0.30
J5261	3/8	Full Polish	8	0.40
J5262	3/8	Full Polish	12	0.61
J5262B	3/8	Black Oxide	12	0.62
J5263	3/8	Full Polish	17-3/16	0.94
J5460	1/2	Full Polish	2-1/2	0.24
J5460B	1/2	Black Oxide	2-1/2	0.24
J5461	1/2	Full Polish	5	0.44
J5461B	1/2	Black Oxide	5	0.44
J5463	1/2	Full Polish	10	0.89
J5463B	1/2	Black Oxide	10	0.89
J5464	1/2	Full Polish	20	1.87
J5465	1/2	Full Polish	36	3.41
J5660	3/4	Full Polish	4	0.88
J5661	3/4	Full Polish	8	1.80
J5663	3/4	Full Polish	16	2.36
J5861*	1	Full Polish	8	2.88
J5863*	1	Full Polish	17	4.87

SAE AS4283C ASME B107.110-2012 

*Meets and exceeds ASME B107.110-2012 only

HANDLES & EXTENSIONS

LOCKING EXTENSIONS

- › One piece extension design.
- › Provides positive socket retention.
- › Use where accidental socket disengagement may be a concern or safety hazard.

Product #	Drive Size (in)	Finish	Overall Length (in)	Weight (lbs)
J4759L	1/4	Full Polish	2	0.07
J4761L	1/4	Full Polish	6	0.15
J4762L	1/4	Full Polish	10	0.25
J4763L	1/4	Full Polish	14-3/32	0.33
J5260-03L	3/8	Full Polish	3	0.21
J5260-06L	3/8	Full Polish	6	0.37
J5261L	3/8	Full Polish	8	0.49
J5262L	3/8	Full Polish	12	0.71
J5460-03L	1/2	Full Polish	3	0.40
J5461L	1/2	Full Polish	5	0.55
J5463L	1/2	Full Polish	10	1.04

ASME B107.110-2012



WOBBLE EXTENSIONS

- › Provides up to 17° angle of operation.
- › Socket can be pushed past the detent ball for straight driving.

Product #	Drive Size (in)	Finish	Overall Length (in)	Weight (lbs)
J4759W	1/4	Full Polish	2	0.06
J4760W	1/4	Full Polish	3	0.07
J4764W	1/4	Full Polish	4	0.10
J4761W	1/4	Full Polish	6	0.14
J4762W	1/4	Full Polish	10	0.20
J5259W	3/8	Full Polish	1-3/4	0.11
J5260W	3/8	Full Polish	3	0.17
J5260-06W	3/8	Full Polish	6	0.29
J5261W	3/8	Full Polish	8	0.42
J5262W	3/8	Full Polish	12	0.65
J5263W	3/8	Full Polish	17-3/16	0.92
J5460W	1/2	Full Polish	2-1/2	0.24
J5461W	1/2	Full Polish	5	0.44
J5463W	1/2	Full Polish	10	0.89
J5464W	1/2	Full Polish	20	1.90




EXTENSIONS

FLEXIBLE EXTENSIONS

- › Flexible shaft extensions help reach around obstructions in low torque applications.

Product #	Drive Size (in)	Finish	Overall Length (in)	Weight (lbs)
J4765	1/4	Full Polish	6-1/4	0.11
J5268	3/8	Black Oxide	8	0.25

ASME B107.110-2012 



 6 POINT	 8 POINT	 12 POINT	 SPLINE	 HEX	 FULL POLISH	 SATIN	 BLACK OXIDE	 INSULATED
---	---	--	--	---	---	---	---	---

DRIVE TOOLS

6 PIECE ADAPTER SET

Product #: J52006

- › Set includes socket bar and socket clips.
- › A variety of adapters are offered to meet most industrial applications.



Contents	Description
J5255	Adapter, 3/8" F x 1/4" M
J5256	Adapter, 1/4" F x 3/8" M
J5253	Adapter, 3/8" F x 1/2" M
J7651	Adapter, Impact 1/2" F x 3/4" M
J7652	Adapter, Impact 1/2" F x 3/8" M
J7653	Adapter, Impact 3/4" F x 1/2" M
J2584	Socket, Bar 6-1/2"
J2590	Socket, Clip 1/4" DR
J2592	Socket, Clip 1/2" DR


Weight (lbs): 1.33

UNIVERSAL JOINTS

- › Full polish tools meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance.



Product #	Drive Size (in)	Finish	Overall Length (in)	Weight (lbs)
J4770A	1/4	Full Polish	1-11/32	0.04
J4770AB	1/4	Black Oxide	1-11/32	0.04
J5270A*	3/8	Full Polish	2	0.13
J5270AB*	3/8	Black Oxide	2	0.13
J5470A	1/2	Full Polish	2-3/4	0.30
J5470AB	1/2	Black Oxide	2-3/4	0.30
J5670*	3/4	Full Polish	4	1.03

*AS4283C ASME B107.110-2012 

ADAPTERS & UNIVERSAL JOINTS

DRIVE ADAPTERS

- › Full polish tools meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance.



Product #	Input Drive (in)	Output Drive (in)	Finish	Overall Length (in)	Weight (lbs)
J5255	3/8	1/4	Full Polish	1	0.05
J5256	1/4	3/8	Full Polish	1	0.04
J5256B	1/4	3/8	Black Oxide	1	0.04
J5253	3/8	1/2	Full Polish	1-7/16	0.11
J5253B	3/8	1/2	Black Oxide	1-7/16	0.11
J5254	1/2	3/8	Full Polish	1-3/8	0.13
J5653	1/2	3/4	Full Polish	1-11/16	0.24
J5653B	1/2	3/4	Black Oxide	1-11/16	0.24
J5453	3/4	1/2	Full Polish	1-7/8	0.39
J5853	3/4	1	Full Polish	2-1/2	0.82
J5854	1	3/4	Full Polish	2-7/8	1.27

ASME B107.110-2012 

HAND SOCKETS




HAND SOCKETS

1/4" DRIVE 25 PIECE COMBINATION SOCKET SETS

SET OPTIONS

Product #	Ratchet Choices	Weight (lbs)
J47118XL	J4749XL Ratchet, Prem. Pear Head 1/4" DR	3.99
J47118	J4749 Ratchet, Classic Pear Head 1/4" DR	4.12

Contents	Description
J4706T	Socket, 1/4" DR 3/16" 12 PT
J4707T	Socket, 1/4" DR 7/32" 12 PT
J4708T	Socket, 1/4" DR 1/4" 12 PT
J4709T	Socket, 1/4" DR 9/32" 12 PT
J4710T	Socket, 1/4" DR 5/16" 12 PT
J4711T	Socket, 1/4" DR 11/32" 12 PT
J4712T	Socket, 1/4" DR 3/8" 12 PT
J4714T	Socket, 1/4" DR 7/16" 12 PT
J4716T	Socket, 1/4" DR 1/2" 12 PT
J4718T	Socket, 1/4" DR 9/16" 12 PT
J4706LT	Socket, Deep 1/4" DR 3/16" 12 PT
J4707LT	Socket, Deep 1/4" DR 7/32" 12 PT
J4708LT	Socket, Deep 1/4" DR 1/4" 12 PT
J4709LT	Socket, Deep 1/4" DR 9/32" 12 PT
J4710LT	Socket, Deep 1/4" DR 5/16" 12 PT
J4711LT	Socket, Deep 1/4" DR 11/32" 12 PT
J4712LT	Socket, Deep 1/4" DR 3/8" 12 PT
J4714LT	Socket, Deep 1/4" DR 7/16" 12 PT
J4716LT	Socket, Deep 1/4" DR 1/2" 12 PT
J4718LT	Socket, Deep 1/4" DR 9/16" 12 PT
J4769	Socket Driver, 1/4" DR
J4759	Extension, 1/4" DR 2"
J4761	Extension, 1/4" DR 6"
J4770A	Universal Joint, 1/4" DR
JBM1002	Case, Blow Molded Red

ASME B107.110-2012 



J47118XL

12

INCH

1/4" DRIVE SOCKET SETS

1/4" DRIVE 11 PIECE METRIC SOCKET SETS - 12 POINT

Product #: **J47201**

12

MM



Contents	Description
J4705TM	Socket, 1/4" DR 5 mm 12 PT
J47055TM	Socket, 1/4" DR 5.5 mm 12 PT
J4706TM	Socket, 1/4" DR 6 mm 12 PT
J4707TM	Socket, 1/4" DR 7 mm 12 PT
J4708TM	Socket, 1/4" DR 8 mm 12 PT
J4709TM	Socket, 1/4" DR 9 mm 12 PT
J4710TM	Socket, 1/4" DR 10 mm 12 PT
J4711TM	Socket, 1/4" DR 11 mm 12 PT
J4712TM	Socket, 1/4" DR 12 mm 12 PT
J4713TM	Socket, 1/4" DR 13 mm 12 PT
J4714TM	Socket, 1/4" DR 14 mm 12 PT
J2590	Socket Clip, 1/4" DR
J2585	Socket Bar, 9"

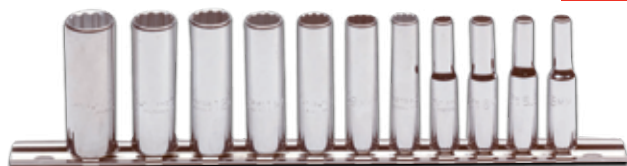
Weight (lbs): 1.03

ASME B107.110-2012 

Product #: **J47203**


12

MM



Contents	Description
J4705LTM	Socket, Deep 1/4" DR 5 mm 12 PT
J47055LTM	Socket, Deep 1/4" DR 5.5 mm 12 PT
J4706LTM	Socket, Deep 1/4" DR 6 mm 12 PT
J4707LTM	Socket, Deep 1/4" DR 7 mm 12 PT
J4708LTM	Socket, Deep 1/4" DR 8 mm 12 PT
J4709LTM	Socket, Deep 1/4" DR 9 mm 12 PT
J4710LTM	Socket, Deep 1/4" DR 10 mm 12 PT
J4711LTM	Socket, Deep 1/4" DR 11 mm 12 PT
J4712LTM	Socket, Deep 1/4" DR 12 mm 12 PT
J4713LTM	Socket, Deep 1/4" DR 13 mm 12 PT
J4714LTM	Socket, Deep 1/4" DR 14 mm 12 PT
J2590	Socket Clip, 1/4" DR
J2585	Socket Bar, 9"

Weight (lbs): 0.56

ASME B107.110-2012 

HAND SOCKETS

1/4" DRIVE 10 PIECE SOCKET SETS - 12 POINT

Product #: **J47104**

12

INCH



Contents	Description
J4706T	Socket, 1/4" DR 3/16" 12 PT
J4707T	Socket, 1/4" DR 7/32" 12 PT
J4708T	Socket, 1/4" DR 1/4" 12 PT
J4709T	Socket, 1/4" DR 9/32" 12 PT
J4710T	Socket, 1/4" DR 5/16" 12 PT
J4711T	Socket, 1/4" DR 11/32" 12 PT
J4712T	Socket, 1/4" DR 3/8" 12 PT
J4714T	Socket, 1/4" DR 7/16" 12 PT
J4716T	Socket, 1/4" DR 1/2" 12 PT
J4718T	Socket, 1/4" DR 9/16" 12 PT
J2584	Socket Bar, 6-1/4"
J2590	Socket Clip, 1/4" DR

Weight (lbs): 0.42

ASME B107.110-2012



Product #: **J47100**

12

INCH



Contents	Description
J4706LT	Socket, Deep 1/4" DR 3/16" 12 PT
J4707LT	Socket, Deep 1/4" DR 7/32" 12 PT
J4708LT	Socket, Deep 1/4" DR 1/4" 12 PT
J4709LT	Socket, Deep 1/4" DR 9/32" 12 PT
J4710LT	Socket, Deep 1/4" DR 5/16" 12 PT
J4711LT	Socket, Deep 1/4" DR 11/32" 12 PT
J4712LT	Socket, Deep 1/4" DR 3/8" 12 PT
J4714LT	Socket, Deep 1/4" DR 7/16" 12 PT
J4716LT	Socket, Deep 1/4" DR 1/2" 12 PT
J4718LT	Socket, Deep 1/4" DR 9/16" 12 PT
J2584	Socket Bar, 6-1/4"
J2590	Socket Clip, 1/4" DR

Weight (lbs): 0.79

ASME B107.110-2012



1/4" DRIVE 6 PIECE METRIC HEX BIT SET

Product #: **J4770-6**

HEX

MM



Contents	Description
J4770-2M	Socket, Hex Bit 1/4" DR 2 mm
J4770-2.5M	Socket, Hex Bit 1/4" DR 2.5 mm
J4770-3M	Socket, Hex Bit 1/4" DR 3 mm
J4770-4M	Socket, Hex Bit 1/4" DR 4 mm
J4770-5M	Socket, Hex Bit 1/4" DR 5 mm
J4770-6M	Socket, Hex Bit 1/4" DR 6 mm
J2590	Socket Clip, 1/4" DR
J2584	Socket Bar, 6-1/4"

Weight (lbs): 0.41



1/4" DRIVE 6 PIECE CROWFOOT WRENCH SET

Product #: **J4700CF**



Contents	Description	INCH
J4708CF	Wrench, Crowfoot Open End 1/4" DR 1/4"	
J4710CF	Wrench, Crowfoot Open End 1/4" DR 5/16"	
J4712CF	Wrench, Crowfoot Open End 1/4" DR 3/8"	
J4714CF	Wrench, Crowfoot Open End 1/4" DR 7/16"	
J4716CF	Wrench, Crowfoot Open End 1/4" DR 1/2"	
J4718CF	Wrench, Crowfoot Open End 1/4" DR 9/16"	

Weight (lbs): 0.41

ASME B107.100-2010



1/4" DRIVE SOCKET SETS, HEX BIT SETS & CROWFOOT WRENCH SET

6 6 POINT
8 8 POINT
12 12 POINT
SPL SPLINE
HEX HEX
FULL POLISH
SATIN
BLACK OXIDE
INSULATED

HAND SOCKETS

1/4" DRIVE SOCKETS

- Full polish sockets meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.
- PROTO® Sockets with TorquePlus™ are ideal for use on stubborn or damaged fasteners, and also on fasteners made from soft materials.



- Radius-corner socket design
- Engages flats for better grip
- Improves the ability to turn worn or rounded fasteners



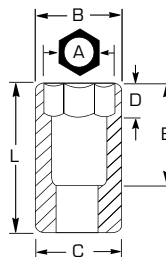
1/4" DRIVE SOCKETS

INCH	6	6	12	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
1/8	J4704	J4704B	-	-	1/4	5/32	15/32	11/32	7/8	0.02
5/32	J4705	J4705B	J4705T	J4705TB	17/64	31/64	11/64	11/32	7/8	0.03
3/16	J4706	J4706B	J4706T	J4706TB	5/16	31/64	13/64	11/32	7/8	0.03
7/32	J4707	J4707B	J4707T	J4707TB	11/32	31/64	13/64	11/32	7/8	0.02
1/4	J4708	J4708B*	J4708T	J4708TB	11/32	31/64	7/32	11/32	7/8	0.02
9/32	J4709	J4709B*	J4709T	J4709TB	27/64	31/64	1/4	11/32	7/8	0.02
5/16	J4710	J4710B	J4710T	J4710TB	31/64	31/64	19/64	9/16	7/8	0.03
11/32	J4711	J4711B*	J4711T	J4711TB	33/64	33/64	11/32	17/32	7/8	0.03
3/8	J4712	J4712B*	J4712T	J4712TB	9/16	11/32	17/32	17/32	7/8	0.03
7/16	J4714	J4714B*	J4714T	J4714TB	5/8	5/8	23/64	17/32	7/8	0.05
1/2	J4716	J4716B*	J4716T	J4716TB	11/16	11/16	23/64	17/32	7/8	0.06
9/16	J4718	J4718B	J4718T	J4718TB	47/64	47/64	23/64	9/16	7/8	0.07
5/8	J4720A	J4720AB	-	-	5/8	3/8	7/8	9/16	7/8	0.09

*SAE AS4984A ASME B107.110-2012

MM	6	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
4	J4704M	J4704TM	17/64	15/32	11/64	13/32	7/8	0.01
4.5	J47045M	J47045TM	5/16	15/32	11/64	13/32	7/8	0.01
5	J4705M	J4705TM	5/16	15/32	11/64	13/32	7/8	0.02
5.5	J47055M	J47055TM	21/64	15/32	11/64	13/32	7/8	0.02
6	J4706M	J4706TM	3/8	15/32	7/32	13/32	7/8	0.02
7	J4707M	J4707TM	27/64	15/32	1/4	15/32	7/8	0.02
8	J4708M	J4708TM	15/32	15/32	19/64	35/64	7/8	0.04
9	J4709M	J4709TM	33/64	33/64	23/64	35/64	7/8	0.03
10	J4710M	J4710TM	37/64	37/64	23/64	35/64	7/8	0.04
11	J4711M	J4711TM	5/8	5/8	23/64	35/64	7/8	0.05
12	J4712M	J4712TM	21/32	21/32	23/64	35/64	7/8	0.05
13	J4713M	J4713TM	11/16	11/16	23/64	35/64	7/8	0.05
14	J4714M	J4714TM	3/4	3/4	23/64	9/16	7/8	0.06
15	J4715M	J4715TM	51/64	51/64	23/64	9/16	7/8	0.08
16	J4716M	-	7/8	7/8	3/8	9/16	7/8	0.09

ASME B107.110-2012



HAND SOCKETS

1/4" DRIVE SOCKETS - 8 POINT

- Full polish sockets meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.
- PROTO® Sockets with TorquePlus™ are ideal for use on stubborn or damaged fasteners, and also on fasteners made from soft materials.



- Radius-corner socket design
- Engages flats for better grip
- Improves the ability to turn worn or rounded fasteners

INCH	8	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
1/4	J4708S	31/64	31/64	1/4	17/32	7/8	0.03
5/16	J4710S	9/16	9/16	1/4	17/32	7/8	0.05
3/8	J4712S	11/16	11/16	1/4	17/32	7/8	0.06

ASME B107.110-2012

1/4" DRIVE SOCKETS - SPLINE

- Proto® Spline tools are designed to service high tensile strength fasteners used widely on military and commercial aircraft and in heavy machinery applications where vibration is prevalent. They are also used in automotive and industrial areas where high performance torque needs to be achieved.
- Spline sockets help tighten high strength bolts to high torque loads. They help lower the force required to turn standard fasteners by allowing the torque load to be moved away from the corners to help prevent fastener rounding. They also turn fasteners with damaged corners.
- Spline helps reduce foreign object debris (FOD) by having a precise fit between the fastening tool and its fastener.



STANDARD

INCH	Spline Size	SPL	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
3/16	6	J4706SPL	5/16	7/16	3/16	9/16	59/64	0.02
7/32	7	J4707SPL	11/32	7/16	13/64	9/16	59/64	0.02
1/4	8	J4708SPL	3/8	7/16	1/4	9/16	59/64	0.02
9/32	9	J4709SPL	7/16	7/16	9/32	9/16	59/64	0.02
5/16	10	J4710SPL	29/64	29/64	5/16	9/16	59/64	0.03
3/8	12	J4712SPL	35/64	35/64	11/32	9/16	59/64	0.04
7/16	14	J4714SPL	5/8	5/8	27/64	11/16	1-1/32	0.05

DEEP

INCH	Spline Size	SPL	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
3/16	6	J4706DPL	5/16	7/16	3/16	1-21/32	2	0.03
7/32	7	J4707DPL	11/32	7/16	13/64	1-21/32	2	0.04
1/4	8	J4708DPL	3/8	7/16	1/4	1-21/32	2	0.04
9/32	9	J4709DPL	7/16	7/16	9/32	1-21/32	2	0.05
5/16	10	J4710DPL	29/64	29/64	5/16	1-21/32	2	0.06
3/8	12	J4712DPL	35/64	35/64	11/32	1-21/32	2	0.08
7/16	14	J4714DPL	5/8	5/8	27/64	1-21/32	2	0.09



1/4" DRIVE SOCKETS

HAND SOCKETS

1/4" DRIVE INTERMEDIATE SOCKETS - 12 POINT

- Full polish sockets meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.
- PROTO® Sockets with TorquePlus™ are ideal for use on stubborn or damaged fasteners, and also on fasteners made from soft materials.
- Intermediate depth gives additional reach without limiting accessibility in tighter spaces.
- The TorquePlus™ design is a high performance drive configuration which allows for quick and easy socket engagement to the fastener flats, not the corners.
- The TorquePlus™ configuration employs a radius-corner design, shifting contact area and stress away from the fastener corners and distributing contact stresses over a large area of the socket, minimizing slippage.
- The TorquePlus™ internal design minimizes fastener rounding, helps to extend fastener life, and allows the user to more easily turn worn, rounded, or rusted fasteners.



- Radius-corner socket design
- Engages flats for better grip
- Improves the ability to turn worn or rounded fasteners



1/4" DRIVE SOCKETS

INCH	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
3/16	J4706N	19/64	7/16	17/64	29/64	1-15/64	0.02
7/32	J4707N	21/64	7/16	9/32	29/64	1-15/64	0.02
1/4	J4708N	3/8	7/16	19/64	29/64	1-15/64	0.02
9/32	J4709N	27/64	27/64	5/16	29/64	1-15/64	0.02
5/16	J4710N	29/64	29/64	11/32	19/32	1-15/64	0.03
11/32	J4711N	31/64	31/64	3/8	19/32	1-15/64	0.03
3/8	J4712N	35/64	35/64	3/8	19/32	1-15/64	0.04
7/16	J4714N	5/8	5/8	3/4	7/8	1-15/64	0.04
1/2	J4716N	43/64	43/64	3/4	7/8	1-15/64	0.05
9/16	J4718N	47/64	47/64	3/4	7/8	1-15/64	0.06

SAE AS954G ASME B107.110-2012

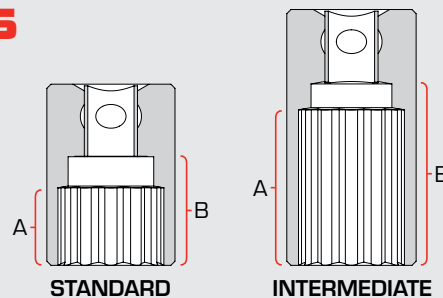
MM	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
5	J4705MN	5/16	15/32	1/4	25/64	1-17/64	0.03
5.5	J47055MN	11/32	15/32	17/64	25/64	1-17/64	0.03
6	J4706MN	25/64	15/32	9/32	13/32	1-17/64	0.03
7	J4707MN	27/64	15/32	21/64	7/16	1-17/64	0.04
8	J4708MN	15/32	15/32	23/64	17/32	1-17/64	0.04
9	J4709MN	17/32	17/32	13/32	17/32	1-17/64	0.06
10	J4710MN	37/64	37/64	27/64	9/16	1-17/64	0.06
11	J4711MN	5/8	5/8	15/32	19/32	1-17/64	0.07
12	J4712MN	43/64	43/64	33/64	41/64	1-17/64	0.08
13	J4713MN	23/32	23/32	17/32	43/64	1-17/64	0.08
14	J4714MN	3/4	3/4	9/16	23/32	1-17/64	0.09

SAE AS955 ASME B107.110-2012

INTERMEDIATE SOCKETS

PROTO® intermediate sockets feature increased Nut Depth and Bolt Clearance vs. standard length sockets. This gives PROTO® intermediate sockets versatility in tight spaces.

A - Nut Depth B - Bolt Clearance



HAND SOCKETS

1/4" DRIVE DEEP SOCKETS

- ▶ PROTO® Sockets with TorquePlus™ are ideal for use on stubborn or damaged fasteners, and also on fasteners made from soft materials.
- ▶ Full polish sockets meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.



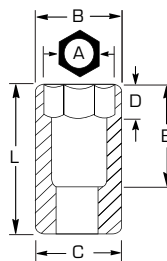
- ▶ Radius-corner socket design
- ▶ Engages flats for better grip
- ▶ Improves the ability to turn worn or rounded fasteners

INCH	6	6	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
3/16	J4706L	J4706LB	J4706LT*	5/16	29/64	9/32	1-21/32	2	0.05
7/32	J4707L	J4707LB	J4707LT*	11/32	15/32	3/8	1-21/32	2	0.05
1/4	J4708L	J4708LB	J4708LT*	25/64	15/32	3/8	1-1/2	2	0.05
9/32	J4709L	J4709LB	J4709LT*	7/16	15/32	3/8	1-1/2	2	0.05
5/16	J4710L	J4710LB	J4710LT*	15/32	15/32	3/8	1-1/2	2	0.06
11/32	J4711L	J4711LB	J4711LT*	1/2	1/2	5/8	1-1/2	2	0.06
3/8	J4712L	J4712LB	J4712LT*	9/16	9/16	5/8	1-27/64	2	0.08
7/16	J4714L	J4714LB	J4714LT*	37/64	39/64	5/8	1-27/64	2	0.09
1/2	J4716L	J4716LB	J4716LT*	11/16	11/16	5/8	1-27/64	2	0.13
9/16	J4718L	J4718LB	J4718LT*	3/4	3/4	5/8	1-27/64	2	0.14

*SAE AS954G ASME B107.110-2012

MM	6	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
4	J4704LM	-	9/32	29/64	13/64	55/64	1-63/64	0.04
5	J4705LM	J4705LTM	5/16	29/64	9/32	55/64	1-63/64	0.04
5.5	J47055LM	J47055LTM	11/32	29/64	9/32	55/64	1-63/64	0.04
6	J4706LM	J4706LTM	3/8	29/64	3/8	55/64	1-63/64	0.04
7	J4707LM	J4707LTM	27/64	29/64	3/8	55/64	1-63/64	0.04
8	J4708LM	J4708LTM	29/64	29/64	13/32	1-5/32	1-63/64	0.06
9	J4709LM	J4709LTM	1/2	1/2	39/64	1-5/32	1-63/64	0.06
10	J4710LM	J4710LTM	9/16	9/16	5/8	1-27/64	1-63/64	0.07
11	J4711LM	J4711LTM	39/64	39/64	5/8	1-27/64	1-63/64	0.09
12	J4712LM	J4712LTM	21/32	21/32	5/8	1-27/64	1-63/64	0.11
13	J4713LM	J4713LTM	11/16	11/16	5/8	1-27/64	1-63/64	0.15
14	J4714LM	J4714LTM	49/64	49/64	5/8	1-27/64	1-63/64	0.15
15	J4715LM	J4715LTM*	53/64	53/64	5/8	1-27/64	2	0.20

*SAE AS955 ASME B107.110-2012



6 6 POINT
8 8 POINT
12 12 POINT
SPL SPLINE
HEX HEX
FULL POLISH
SATIN
BLACK OXIDE
INSULATED

HAND SOCKETS

1/4" DRIVE UNIVERSAL SOCKETS

- ▶ PROTO® Sockets with TorquePlus™ are ideal for use on stubborn or damaged fasteners, and also on fasteners made from soft materials.
- ▶ Full polish sockets meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.



- ▶ Radius-corner socket design
- ▶ Engages flats for better grip
- ▶ Improves the ability to turn worn or rounded fasteners

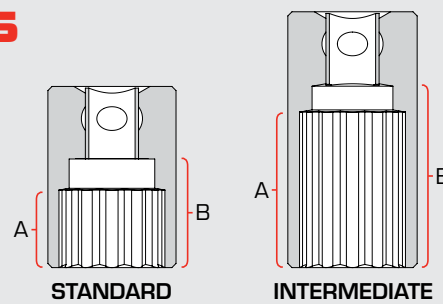
INCH	6	12	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
7/32	-	J4770TA	J4770TAB	11/32	1/2	9/32	3/8	1-1/4	0.05
1/4	J4771A	J4771TA°	J4771TAB°	3/8	1/2	9/32	3/8	1-1/4	0.05
9/32	-	J4777TA	J4777TAB	7/16	1/2	9/32	3/8	1-1/4	0.06
5/16	J4772A	J4772TA°	J4772TAB°	15/32	1/2	9/32	3/8	1-1/4	0.04
11/32	-	J4778TA	J4778TAB	1/2	1/2	9/32	3/8	1-1/4	0.05
3/8	J4773A	J4773TA°	J4773TAB°	9/16	1/2	9/32	3/8	1-1/4	0.04
7/16	J4774A	J4774TA°	J4774TAB°	5/8	1/2	9/32	3/8	1-1/4	0.05
1/2	-	J4775TA°	J4775TAB°	11/16	1/2	9/32	3/8	1-1/4	0.05
9/16	-	J4776TA	J4776TAB	3/4	1/2	23/64	29/64	1-21/64	0.07

*SAE AS955 ASME B107.110-2012

1/4" DRIVE SOCKETS

INTERMEDIATE SOCKETS

PROTO® intermediate sockets feature increased Nut Depth and Bolt Clearance vs. standard length sockets. This gives PROTO® intermediate sockets versatility in tight spaces.



HAND SOCKETS

1/4" DRIVE INTERMEDIATE UNIVERSAL SOCKETS

- › Full polish sockets meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.
- › 12-Point sockets are ideal for use on stubborn or damaged fasteners.
- › Intermediate lengths give additional reach without limiting accessibility in tight spaces.



- › Radius-corner socket design
- › Engages flats for better grip
- › Improves the ability to turn worn or rounded fasteners



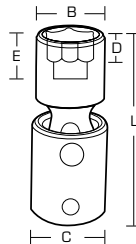
INCH	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
7/32	J4770AS	21/64	1/2	7/32	13/32	1-17/64	0.03
1/4	J4771AS	3/8	1/2	7/32	13/32	1-17/64	0.03
5/16	J4772AS	29/64	1/2	17/64	17/32	1-25/64	0.04
3/8	J4773AS	17/32	1/2	17/64	29/64	1-25/64	0.05
7/16	J4774AS	39/64	1/2	11/32	9/16	1-29/64	0.06
1/2	J4775AS	43/64	1/2	3/8	9/16	1-29/64	0.09
9/16	J4776AS	47/64	1/2	31/64	37/64	1-37/64	0.07
9/32	J4777AS	27/64	1/2	1/2	17/32	1-37/64	0.04
11/32	J4778AS	31/64	1/2	1/2	29/64	1-37/64	0.04

SAE AS954G ASME B107.100-2010



MM	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
5.5	J4805MAS	11/32	1/2	5/32	13/32	1-9/32	0.03
5	J4805MAS	5/16	1/2	11/64	13/32	1-9/32	0.03
6	J4806MAS	3/8	1/2	13/64	13/32	1-9/32	0.03
7	J4807MAS	27/64	1/2	7/32	33/64	1-3/8	0.04
8	J4808MAS	15/32	1/2	1/4	33/64	1-3/8	0.04
9	J4809MAS	33/64	1/2	17/64	33/64	1-3/8	0.05
10	J4810MAS	37/64	1/2	17/64	35/64	1-29/64	0.04
11	J4811MAS	43/64	1/2	11/32	39/64	1-29/64	0.06
12	J4812MAS	11/16	1/2	11/32	21/32	1-37/64	0.09
13	J4813MAS	45/64	1/2	11/32	11/16	1-37/64	0.09
14	J4814MAS	47/64	1/2	23/64	47/64	1-37/64	0.07

SAE AS955 ASME B107.110-2012



6 6 POINT
8 8 POINT
12 12 POINT
SPL SPLINE
HEX HEX
FULL POLISH
SATIN
BLACK OXIDE
INSULATED

HAND SOCKETS

1/4" DRIVE BIT SOCKETS

- › Bit holders have a hex opening to hold the bit, allowing the bit holder to take the full load of torque.

	Size	Product #	Tip Thickness (in)	Bit Length (in)	Overall Length (in)	Weight (lbs)
Slotted	1/4"	⊖ J4743	3/64	–	1-3/16	0.05
	3/16"	⊖ J4744	1/32	–	1-53/64	0.05
	1/4"	⊖ J4745	3/64	–	1-53/64	0.06
Phillips	#1	⊕ J4737	–	–	1-13/64	0.04
	#2	⊕ J4738	–	–	1-13/64	0.05
Torx®	T10	⊕ J4739-10W	–	5/8	1-1/2	0.06
	T15	⊕ J4739-15W	–	5/8	1-1/2	0.05
	T20	⊕ J4739-20W	–	5/8	1-1/2	0.05
	T25	⊕ J4739-25W	–	5/8	1-1/2	0.05
	T27	⊕ J4739-27W	–	5/8	1-1/2	0.06
	T30	⊕ J4739-30W	–	7/8	1-3/4	0.05



1/4" DRIVE HEX BIT SOCKETS

- › Bit holders have a hex opening to hold the bit allowing the bit holder to take the full load of torque.
- › Made of heat-treated alloy steel.
- › Polished chrome finish on socket.

INCH	HEX	Bit Length (in)	Overall Length (in)	Weight (lbs)
1/16	J47701/16	1	1-7/8	0.05
5/64	J47705/64	1	1-7/8	0.05
3/32	J47703/32	1	1-7/8	0.05
7/64	J47707/64	1	1-7/8	0.06
1/8	J47701/8	1	1-7/8	0.05
9/64	J47709/64	1	1-7/8	0.05
5/32	J47705/32	1	1-7/8	0.05
3/16	J47703/16	1	1-7/8	0.05
7/32	J47707/32	1	1-7/8	0.05
1/4	J47701/4	1	1-7/8	0.06
5/16	J47705/16	1	1-7/8	0.06



1/4" DRIVE BALL END HEX BIT SOCKETS

- › Full polish sockets meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.

INCH	HEX	Overall Length (in)	Weight (lbs)
1/4	J47701/4B	1-1/2	0.05
1/8	J47701/8B	1-1/2	0.05
3/16	J47703/16B	1-1/2	0.05
3/32	J47703/32B	1-1/2	0.05
5/32	J47705/32B	1-1/2	0.05
7/32	J47707/32B	1-1/2	0.05
7/64	J47707/64B	1-1/2	0.05
9/64	J47709/64B	1-1/2	0.05



Torx® is a trademark of Acument Intellectual Properties, LLC

HAND SOCKETS

1/4" DRIVE METRIC HEX BIT SOCKETS

- ▶ Bit holders have a hex opening to hold the bit, allowing the bit holder to take the full load of torque.

MM	HEX	Bit Length (in)	Overall Length (in)	Weight (lbs)	Repair Kit Part #
2	J4770-2M	1	1-7/8	0.04	-
2.5	J4770-2.5M	1	1-7/8	0.05	J4770-2.5MRKA
3	J4770-3M	1	1-7/8	0.05	J4770-3MRKA
4	J4770-4M	1	1-7/8	0.05	J4770-4MRKA
5	J4770-5M	1	1-7/8	0.05	-
6	J4770-6M	1	1-7/8	0.05	-



1/4" DRIVE CROWFOOT WRENCHES

- ▶ Crowfoot wrenches are used in hard to reach, restricted access situations where a standard wrench or ratchet cannot reach.
- ▶ Anti-Slip Design open end (ASD).
- ▶ The arched surfaces are designed to spread the contact forces over a greater area and they keep the loads off the corners of the fastener which helps prevent fastener rounding.
- ▶ Broad size range ensures the right tool for the application will be available.
- ▶ Typically used in lower torque applications.
- ▶ Full polish crowfoot wrenches meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.



INCH	Product #	Overall Length (in)	Weight (lbs)
1/4	J4708CF	15/16	0.02
5/16	J4710CF	1	0.03
3/8	J4712CF	1-1/16	0.03
7/16	J4714CF	1-5/32	0.04
1/2	J4716CF	1-3/16	0.05
9/16	J4718CF	1-9/32	0.05



MM	Product #	Overall Length (in)	Weight (lbs)
7	J4707MCF	15/16	0.02
8	J4708MCF	31/32	0.02
10	J4710MCF	1-1/16	0.03
11	J4711MCF	1-1/8	0.04
12	J4712MCF	1-5/32	0.04
13	J4713MCF	1-3/16	0.05
14	J4714MCF	1-1/4	0.05



1/4" DRIVE HEX BIT SOCKETS & CROWFOOT WRENCHES

6 POINT	8 POINT	12 POINT	SPLINE	HEX	FULL POLISH	SATIN	BLACK OXIDE	INSULATED
---------	---------	----------	--------	-----	-------------	-------	-------------	-----------


HAND SOCKETS

3/8" DRIVE 22 PIECE SOCKET SETS

SET OPTIONS

Product #	Ratchet Choices	Weight (lbs)
J52136XL	J5249XL Ratchet, Prem. Pear Head 3/8" DR	6.60
J52136	J5249 Ratchet, Classic Pear Head 3/8" DR	7.70

Contents	Description
J5212	Socket, 3/8" DR 3/8" 12 PT
J5214	Socket, 3/8" DR 7/16" 12 PT
J5216	Socket, 3/8" DR 1/2" 12 PT
J5218	Socket, 3/8" DR 9/16" 12 PT
J5220	Socket, 3/8" DR 5/8" 12 PT
J5222	Socket, 3/8" DR 11/16" 12 PT
J5224	Socket, 3/8" DR 3/4" 12 PT
J5226	Socket, 3/8" DR 13/16" 12 PT
J5228	Socket, 3/8" DR 7/8" 12 PT
J5012	Socket, Deep 3/8" DR 3/8" 12 PT
J5014	Socket, Deep 3/8" DR 7/16" 12 PT
J5016	Socket, Deep 3/8" DR 1/2" 12 PT
J5018	Socket, Deep 3/8" DR 9/16" 12 PT
J5020	Socket, Deep 3/8" DR 5/8" 12 PT
J5022	Socket, Deep 3/8" DR 11/16" 12 PT
J5024	Socket, Deep 3/8" DR 3/4" 12 PT
J5026	Socket, Deep 3/8" DR 13/16" 12 PT
J5028	Socket, Deep 3/8" DR 7/8" 12 PT
J5260	Extension, 3/8" DR 3"
J5260-06	Extension, 3/8" DR 6"
J5270A	Universal Joint, 3/8" DR
JBM1102	Case, Blow Molded Red

ASME B107.110-2012 



12

INCH

J52136

3/8" DRIVE SOCKET SETS

3/8" DRIVE 12 PIECE SOCKET SETS - 12 POINT

Product #: **J52216**


12

MM



Contents	Description
J5208M	Socket, 3/8" DR 8 mm 12 PT
J5209M	Socket, 3/8" DR 9 mm 12 PT
J5210M	Socket, 3/8" DR 10 mm 12 PT
J5211M	Socket, 3/8" DR 11 mm 12 PT
J5212M	Socket, 3/8" DR 12 mm 12 PT
J5213M	Socket, 3/8" DR 13 mm 12 PT
J5214M	Socket, 3/8" DR 14 mm 12 PT
J5215M	Socket, 3/8" DR 15 mm 12 PT
J5216M	Socket, 3/8" DR 16 mm 12 PT
J5217M	Socket, 3/8" DR 17 mm 12 PT
J5218M	Socket, 3/8" DR 18 mm 12 PT
J5219M	Socket, 3/8" DR 19 mm 12 PT
J2591	Socket Clip, 3/8" DR
J2586	Socket Bar, 13"

Weight (lbs): 1.32

ASME B107.110-2012 

Product #: **J52209**


12

MM



Contents	Description
J5008M	Socket, Deep 3/8" DR 8 mm 12 PT
J5009M	Socket, Deep 3/8" DR 9 mm 12 PT
J5010M	Socket, Deep 3/8" DR 10 mm 12 PT
J5011M	Socket, Deep 3/8" DR 11 mm 12 PT
J5012M	Socket, Deep 3/8" DR 12 mm 12 PT
J5013M	Socket, Deep 3/8" DR 13 mm 12 PT
J5014M	Socket, Deep 3/8" DR 14 mm 12 PT
J5015M	Socket, Deep 3/8" DR 15 mm 12 PT
J5016M	Socket, Deep 3/8" DR 16 mm 12 PT
J5017M	Socket, Deep 3/8" DR 17 mm 12 PT
J5018M	Socket, Deep 3/8" DR 18 mm 12 PT
J5019M	Socket, Deep 3/8" DR 19 mm 12 PT
J2591	Socket Clip, 3/8" DR
J2586	Socket Bar, 13"

Weight (lbs): 2.52

ASME B107.110-2012 

HAND SOCKETS

3/8" DRIVE 13 PIECE SOCKET SET - 12 POINT

Product #: **J52124**

12

INCH



Contents	Description
J5208	Socket, 3/8" DR 1/4" 12 PT
J5210	Socket, 3/8" DR 5/16" 12 PT
J5212	Socket, 3/8" DR 3/8" 12 PT
J5214	Socket, 3/8" DR 7/16" 12 PT
J5216	Socket, 3/8" DR 1/2" 12 PT
J5218	Socket, 3/8" DR 9/16" 12 PT
J5220	Socket, 3/8" DR 5/8" 12 PT
J5222	Socket, 3/8" DR 11/16" 12 PT
J5224	Socket, 3/8" DR 3/4" 12 PT
J5226	Socket, 3/8" DR 13/16" 12 PT
J5228	Socket, 3/8" DR 7/8" 12 PT
J5230	Socket, 3/8" DR 15/16" 12 PT
J5232	Socket, 3/8" DR 1" 12 PT
J2591	Socket Clip, 3/8" DR
J2586	Socket Bar, 13"

Weight (lbs): 1.96

ASME B107.110-2012



Product #: **J52112**

12

INCH



Contents	Description
J5008	Socket, Deep 3/8" DR 1/4" 12 PT
J5010	Socket, Deep 3/8" DR 5/16" 12 PT
J5012	Socket, Deep 3/8" DR 3/8" 12 PT
J5014	Socket, Deep 3/8" DR 7/16" 12 PT
J5016	Socket, Deep 3/8" DR 1/2" 12 PT
J5018	Socket, Deep 3/8" DR 9/16" 12 PT
J5020	Socket, Deep 3/8" DR 5/8" 12 PT
J5022	Socket, Deep 3/8" DR 11/16" 12 PT
J5024	Socket, Deep 3/8" DR 3/4" 12 PT
J5026	Socket, Deep 3/8" DR 13/16" 12 PT
J5028	Socket, Deep 3/8" DR 7/8" 12 PT
J5030	Socket, Deep 3/8" DR 15/16" 12 PT
J5032	Socket, Deep 3/8" DR 1" 12 PT
J2591	Socket Clip, 3/8" DR
J2586	Socket Bar, 13"

Weight (lbs): 3.64

ASME B107.110-2012



3/8" DRIVE 7 PIECE METRIC HEX BIT SET

Product #: **J4900-7C**

HEX

INCH



Contents	Description
J49901/8	Socket, Hex Bit 3/8" DR 1/8"
J49905/32	Socket, Hex Bit 3/8" DR 5/32"
J49903/16	Socket, Hex Bit 3/8" DR 3/16"
J49907/32	Socket, Hex Bit 3/8" DR 7/32"
J49901/4	Socket, Hex Bit 3/8" DR 1/4"
J49905/16	Socket, Hex Bit 3/8" DR 5/16"
J49903/8	Socket, Hex Bit 3/8" DR 3/8"
J2584	Socket, Bar 6-1/4"
J2591	Socket, Clip 3/8" DR

Weight (lbs): 0.99



Product #: **J4990-SMA**

HEX

MM



Contents	Description
J4990-4M	Socket, Hex Bit 3/8" DR 4 mm
J4990-5M	Socket, Hex Bit 3/8" DR 5 mm
J4990-6M	Socket, Hex Bit 3/8" DR 6 mm
J4990-7M	Socket, Hex Bit 3/8" DR 7 mm
J4990-8M	Socket, Hex Bit 3/8" DR 8 mm
J4990-9M	Socket, Hex Bit 3/8" DR 9 mm
J4990-10M	Socket, Hex Bit 3/8" DR 10 mm
J2584	Socket, Bar 6-1/4"
J2591	Socket, Clip 3/8" DR

Weight (lbs): 1.04



6 6 POINT 8 8 POINT 12 12 POINT SPL SPLINE HEX HEX FULL POLISH SATIN BLACK OXIDE INSULATED

3/8" DRIVE SOCKET SETS

HAND SOCKETS

3/8" DRIVE SOCKETS

- › Proto® Sockets are ideal for use on stubborn or damaged fasteners, and also on fasteners made from soft materials.
- › Full polish sockets meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.



- › Radius-corner socket design
- › Engages flats for better grip
- › Improves the ability to turn worn or rounded fasteners

3/8" DRIVE SOCKETS

INCH	6	12	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
3/16	J5206H	-	-	5/16	43/64	23/64	21/32	1-3/32	0.07
1/4	J5208H	J5208	J5208B	25/64	43/64	23/64	21/32	1-3/32	0.05
9/32	J5209H	J5209	-	27/64	43/64	21/32	21/32	1-3/32	0.05
5/16	J5210H	J5210	J5210B	15/32	43/64	23/64	21/32	1-3/32	0.05
11/32	J5211H	J5211	J5211B	1/2	43/64	23/64	21/32	1-3/32	0.05
3/8	J5212H	J5212	J5212B	35/64	43/64	23/64	21/32	1-3/32	0.06
7/16	J5214H	J5214	J5214B	41/64	43/64	23/64	21/32	1-3/32	0.06
1/2	J5216H	J5216	J5216B	47/64	47/64	23/64	21/64	1-1/8	0.08
17/32	-	J5217	-	49/64	49/64	23/64	11/16	1-1/8	0.08
9/16	J5218H	J5218	J5218B	13/16	13/16	1/2	11/16	1-1/8	0.09
19/32	-	J5219	-	33/64	27/32	1/2	11/16	1-1/8	0.09
5/8	J5220H	J5220	J5220B	7/8	7/8	33/64	11/16	1-1/8	0.10
11/16	J5222H	J5222	J5222B	61/64	61/64	17/32	11/16	1-1/8	0.13
3/4	J5224H	J5224	J5224B	1-1/32	1-1/32	39/64	3/4	1-3/16	0.15
25/32	-	J5225	-	1-1/16	1-1/16	39/64	3/4	1-3/16	0.16
13/16	J5226H	J5226	J5226B	1-3/32	1-3/32	39/64	3/4	1-3/16	0.17
7/8	J5228H	J5228	J5228B	1-3/16	1-3/16	41/64	7/8	1-5/16	0.24
15/16	J5230H	J5230	J5230B	1-1/4	1-1/4	49/64	7/8	1-5/16	0.25
1	J5232H	J5232	J5232B	1-5/16	1-5/16	13/16	59/64	1-3/8	0.27

ASME B107.110-2012

MM	6	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
5.5	J5205MH	-	23/64	43/64	1/4	21/32	1-3/32	0.04
6	J5206MH	J5206M	25/64	43/64	1/4	45/64	1-3/32	0.05
7	J5207MH	J5207M	27/64	43/64	1/4	45/64	1-3/32	0.05
8	J5208MH	J5208M	15/32	43/64	1/4	45/64	1-3/32	0.06
9	J5209MH	J5209M	33/64	43/64	9/32	45/64	1-3/32	0.05
10	J5210MH	J5210M	19/32	43/64	5/16	45/64	1-3/32	0.06
11	J5211MH	J5211M	41/64	43/64	21/64	45/64	1-3/32	0.07
12	J5212MH	J5212M	45/64	45/64	9/32	1/2	1-1/8	0.05
13	J5213MH	J5213M	47/64	47/64	9/32	1/2	1-1/8	0.07
14	J5214MH	J5214M	25/32	25/32	15/32	7/16	1-1/8	0.08
15	J5215MH	J5215M	27/32	27/32	17/32	7/16	1-1/8	0.10
16	J5216MH	J5216M	55/64	55/64	17/32	7/16	1-1/8	0.10
17	J5217MH	J5217M	15/16	15/16	17/32	7/16	1-1/8	0.12
18	J5218MH	J5218M	61/64	61/64	17/32	1/2	1-3/16	0.12
19	J5219MH	J5219M	1	1	17/32	1/2	1-3/16	0.14
20	J5220MH	J5220M	1-3/32	1-3/32	5/8	1/2	1-3/16	0.17
21	J5221MH	J5221M	1-3/32	1-3/32	9/16	41/64	1-9/32	0.18
22	J5222MH	J5222M	1-11/64	1-11/64	43/64	5/8	1-5/16	0.22
23	J5223MH	J5223M	1-3/16	1-3/16	47/64	5/8	1-5/16	0.21
24	J5224MH	J5224M	1-1/4	1-1/4	49/64	37/64	1-5/16	0.23
25	J5225MH	J5225M	1-21/64	1-21/64	49/64	5/8	1-3/8	0.29
26	J5226MH	J5226M	1-21/64	1-21/64	49/64	59/64	1-3/8	0.26

ASME B107.110-2012


HAND SOCKETS

3/8" DRIVE SOCKETS - SPLINE

- Full polish sockets meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.




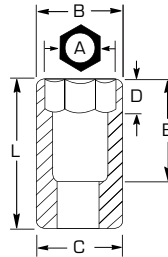
STANDARD

INCH	Spline Size		Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
3/8	12	J5212SPL	9/16	21/32	3/8	11/16	1	0.06
7/16	14	J5214SPL	5/8	11/16	7/16	3/4	1-1/16	0.06
1/2	16	J5216SPL	3/4	23/32	7/16	3/4	1-1/16	0.07
9/16	18	J5218SPL	13/16	13/16	15/32	3/4	1-1/16	0.01
5/8	20	J5220SPL	7/8	7/8	17/32	7/8	1-3/16	0.13



DEEP

INCH	Spline Size		Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
3/8	12	J5012DPL	9/16	21/32	3/8	1-5/8	2-1/8	0.08
7/16	14	J5014DPL	5/8	11/16	7/16	1-5/8	2-1/8	0.10
1/2	16	J5016DPL	3/4	23/32	7/16	1-5/8	2-1/8	0.12
9/16	18	J5018DPL	13/16	13/16	15/32	1-7/8	2-3/8	0.19
5/8	20	J5020DPL	7/8	7/8	17/32	1-7/8	2-3/8	0.22

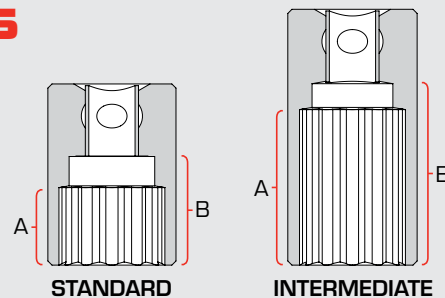


3/8" DRIVE SOCKETS

INTERMEDIATE SOCKETS

PROTO® intermediate sockets feature increased Nut Depth and Bolt Clearance vs. standard length sockets. This gives PROTO® intermediate sockets versatility in tight spaces.

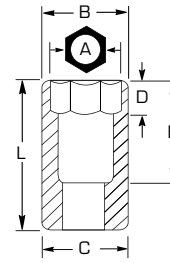
A - Nut Depth B - Bolt Clearance



HAND SOCKETS

3/8" DRIVE INTERMEDIATE SOCKETS - 12 POINT

- ▶ Full polish sockets meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.
- ▶ 12-Point sockets are ideal for use on stubborn or damaged fasteners.
- ▶ Intermediate lengths give additional reach without limiting accessibility in tight spaces.



3/8" DRIVE SOCKETS

INCH	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
1/4	J5208N	25/64	11/16	5/16	11/16	1-15/64	0.05
9/32	J5209N	27/64	11/16	5/16	11/16	1-15/64	0.06
5/16	J5210N	29/64	11/16	11/32	11/16	1-15/64	0.06
11/32	J5211N	31/64	11/16	3/8	11/16	1-15/64	0.06
3/8	J5212N	35/64	11/16	3/8	11/16	1-15/64	0.06
7/16	J5214N	21/32	11/16	7/16	11/16	1-15/64	0.08
1/2	J5216N	23/32	23/32	1/2	11/16	1-15/64	0.09
9/16	J5218N	51/64	51/64	9/16	7/8	1-47/64	0.13
5/8	J5220N	7/8	7/8	5/8	1	1-47/64	0.14
11/16	J5222N	61/64	61/64	11/16	1	1-47/64	0.17
3/4	J5224N	1-1/64	1-1/64	11/16	1	1-47/64	0.20
13/16	J5226N	1-1/8	1-1/8	3/4	1	1-47/64	0.24
7/8	J5228N	1-3/16	1-25/32	25/32	1-5/32	1-47/64	0.28
15/16	J5230N	1-15/64	1-15/64	1-5/32	1-3/16	1-47/64	0.28
1	J5232N	1-19/64	1-19/64	1-3/16	1-15/64	1-47/64	0.29

SAE AS954G ASME B107.110-2012

MM	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
6	J5206MN	25/64	43/64	21/64	13/32	1-17/64	0.06
7	J5207MN	7/16	43/64	21/64	7/16	1-17/64	0.06
8	J5208MN	15/32	43/64	21/64	15/32	1-17/64	0.07
9	J5209MN	33/64	43/64	3/8	33/64	1-17/64	0.06
10	J5210MN	19/32	43/64	27/64	9/16	1-33/64	0.09
11	J5211MN	21/32	43/64	15/32	19/32	1-33/64	0.09
12	J5212MN	45/64	45/64	33/64	41/64	1-33/64	0.10
13	J5213MN	47/64	47/64	17/32	43/64	1-25/32	0.14
14	J5214MN	25/32	25/32	37/64	23/32	1-25/32	0.16
15	J5215MN	27/32	27/32	39/64	3/4	1-25/32	0.17
16	J5216MN	9/16	9/16	41/64	51/64	1-25/32	0.19
17	J5217MN	15/16	15/16	21/32	53/64	1-25/32	0.22
18	J5218MN	61/64	61/64	45/64	7/8	1-25/32	0.22
19	J5219MN	1-1/32	1-1/32	47/64	29/32	1-25/32	0.24
20	J5220MN	1.085	1.085	0.776	1.009	1-25/32	0.28
21	J5221MN	1.085	1.085	0.815	1.029	1-25/32	0.26
22	J5222MN	1.175	1.175	0.835	1.127	1-25/32	0.31
23	J5223MN	1-3/16	1-3/16	7/8	1-9/64	1-25/32	0.28
24	J5224MN	1-1/4	1-1/4	29/32	1-3/16	1-25/32	0.32
25	J5225MN	1-19/64	1-19/64	61/64	1-7/32	1-25/32	0.32

SAE AS955 ASME B107.110-2012

HAND SOCKETS

3/8" DRIVE DEEP SOCKETS

- ▶ Proto® Sockets are ideal for use on stubborn or damaged fasteners, and also on fasteners made from soft materials.
- ▶ Full polish sockets meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.



- ▶ Radius-corner socket design
- ▶ Engages flats for better grip
- ▶ Improves the ability to turn worn or rounded fasteners

INCH	6	12	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
1/4	J5008H	J5008°	-	13/32	21/32	5/16	1-11/16	2-1/8	0.10
5/16	J5010H	J5010°	-	15/32	21/32	13/32	1-11/16	2-1/8	0.10
11/32	J5011H	J5011°	-	1/2	21/32	25/64	1-11/16	2-1/8	0.09
3/8	J5012H	J5012°	J5012B°	35/64	21/32	13/32	1-11/16	2-1/8	0.10
7/16	J5014H	J5014°	J5014B°	21/32	21/32	7/16	1-11/16	2-1/8	0.12
1/2	J5016H	J5016°	J5016B°	23/32	23/32	33/64	1-11/16	2-1/8	0.14
9/16	J5018H	J5018°	J5018B°	51/64	51/64	19/32	1-11/16	2-1/8	0.18
5/8	J5020H	J5020°	J5020B°	7/8	7/8	43/64	2-5/16	2-3/4	0.24
11/16	J5022H	J5022°	J5022B°	15/16	15/16	43/64	2-5/16	2-3/4	0.30
3/4	J5024H	J5024°	J5024B°	1-1/64	1-1/64	43/64	2-5/16	2-3/4	0.33
13/16	J5026H	J5026°	J5026B°	1-5/64	1-5/64	43/64	2-5/16	2-3/4	0.36
7/8	J5028H	J5028°	J5028B°	1-15/64	1-15/64	1-3/16	2-5/16	2-3/4	0.43
15/16	J5030H	J5030°	J5030B°	1-15/64	1-15/64	1-3/16	2-5/16	2-3/4	0.46
1	J5032H	J5032°	J5032B°	1-5/16	1-5/16	1-3/16	2-5/16	2-3/4	0.54

*SAE AS954G ASME B107.110-2012

MM	6	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
6	J5006MH	J5006M°	25/64	21/32	5/16	1-11/16	2-1/8	0.10
7	J5007MH	J5007M°	27/64	21/32	5/16	1-11/16	2-1/8	0.09
8	J5008MH	J5008M°	15/32	21/32	5/16	1-15/16	2-1/8	0.10
9	J5009MH	J5009M°	33/64	21/32	25/64	1-11/16	2-1/8	0.10
10	J5010MH	J5010M°	37/64	21/32	25/64	1-11/16	2-1/8	0.11
11	J5011MH	J5011M°	21/32	21/32	7/16	1-11/16	2-1/8	0.12
12	J5012MH	J5012M°	45/64	45/64	33/64	1-1/2	2-1/8	0.14
13	J5013MH	J5013M°	23/32	23/32	33/64	1-1/2	2-1/8	0.15
14	J5014MH	J5014M°	25/32	25/32	19/32	1-1/2	2-1/8	0.16
15	J5015MH	J5015M°	55/64	55/64	21/32	2-5/16	2-3/4	0.24
16	J5016MH	J5016M°	55/64	55/64	21/32	2-5/16	2-3/4	0.24
17	J5017MH	J5017M°	15/16	15/16	21/32	2-5/16	2-3/4	0.28
18	J5018MH	J5018M°	15/16	15/16	21/32	2-5/16	2-3/4	0.28
19	J5019MH	J5019M°	1-1/64	1-1/64	11/16	2-5/16	2-3/4	0.33
20	J5020MH	J5020M°	1-5/64	1-5/64	11/16	2-5/16	2-3/4	0.35
21	J5021MH	J5021M°	1-5/64	1-5/64	11/16	2-5/16	2-3/4	0.35
22	J5022MH	J5022M°	1-11/64	1-11/64	11/16	2-5/16	2-3/4	0.46
23	J5023MH	J5023M°	1-15/64	1-15/64	1-3/16	2-5/16	2-3/4	0.55
24	J5024MH	-	1-9/32	1-9/32	1-3/16	2-5/16	2-3/4	0.56
25	J5025MH	-	1-9/32	1-9/32	1-3/16	2-5/16	2-3/4	0.56
26	J5026MH	J5026M°	1-9/32	1-9/32	1-3/16	2-5/16	2-3/4	0.65

*SAE AS955 ASME B107.110-2012



HAND SOCKETS

3/8" DRIVE UNIVERSAL SOCKETS

- ▶ PROTO® Sockets with TorquePlus™ are ideal for use on stubborn or damaged fasteners, and also on fasteners made from soft materials.
- ▶ Full polish sockets meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.



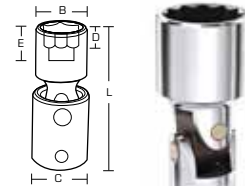
- ▶ Radius-corner socket design
- ▶ Engages flats for better grip
- ▶ Improves the ability to turn worn or rounded fasteners

INCH	6	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
5/16	J5272HA	J5272A	15/32	3/4	9/32	9/32	1-3/4	0.12
3/8	J5273HA	J5273A	35/64	3/4	9/32	9/32	1-3/4	0.12
7/16	J5274HA	J5274A	41/64	3/4	5/16	5/16	1-25/32	0.12
1/2	J5275HA	J5275A	23/32	3/4	5/16	5/16	1-25/32	0.12
9/16	J5276HA	J5276A	25/32	3/4	3/8	3/8	1-7/8	0.13
5/8	J5277HA	J5277A	7/8	3/4	3/8	3/8	1-7/8	0.14
11/16	J5278HA	J5278A	31/32	3/4	13/32	15/32	1-31/32	0.15
3/4	J5279HA	J5279A	1	3/4	13/32	15/32	2	0.16
13/16	-	J5280A	1-3/32	25/32	13/32	9/16	1-7/8	0.27
7/8	-	J5281A	1-3/16	25/32	17/32	5/8	1-61/64	0.31
15/16	-	J5282A	1-1/4	25/32	17/32	5/8	1-61/64	0.35
1	-	J5283A	1-11/32	25/32	9/16	45/64	2	0.39

ASME B107.110-2012

3/8" DRIVE INTERMEDIATE UNIVERSAL SOCKETS

- ▶ Full polish sockets meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.



INCH	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
5/16	J5272AS	15/32	3/4	1/4	1/4	1-47/64	0.08
3/8	J5273AS	35/64	3/4	17/64	7/16	2	0.08
7/16	J5274AS	21/32	3/4	11/32	3/8	2-1/8	0.09
1/2	J5275AS	47/64	3/4	35/64	35/64	2-3/16	0.09
9/16	J5276AS	13/16	3/4	9/16	9/16	2-1/4	0.10
5/8	J5277AS	7/8	3/4	9/16	9/16	2-1/4	0.10
11/16	J5278AS	5/8	3/4	45/64	23/32	2-1/4	0.12
3/4	J5279AS	11/16	3/4	19/32	13/16	2-5/16	0.13
13/16	J5280AS	1-1/8	3/4	21/32	21/32	2-1/4	0.14
7/8	J5281AS	1-3/16	3/4	45/64	45/64	2-1/4	0.15
15/16	J5282AS	1-1/4	3/4	23/32	23/32	2-1/4	0.17
1	J5283AS	1-5/16	3/4	47/64	47/64	2-1/4	0.18

SAE AS954G ASME B107.110-2012

MM	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
10	J5273MAS	35/64	3/4	9/32	1/2	1-29/32	0.09
11	J5274MAS	39/64	3/4	11/32	1/2	1-29/32	0.09
12	J5275MAS	21/32	3/4	35/64	9/16	2-7/64	0.09
13	J5276MAS	23/32	3/4	35/64	9/16	2-7/64	0.10
14	J5277MAS	3/4	3/4	35/64	37/64	2-7/64	0.65
15	J5278MAS	13/16	3/4	19/32	5/8	2-3/16	0.12
16	J5279MAS	7/8	3/4	19/32	11/16	2-3/16	0.13
17	J5280MAS	61/64	3/4	43/64	47/64	2-19/64	0.14
18	J5281MAS	61/64	3/4	43/64	25/32	2-19/64	0.15
19	J5282MAS	1-1/32	3/4	43/64	53/64	2-19/64	0.17

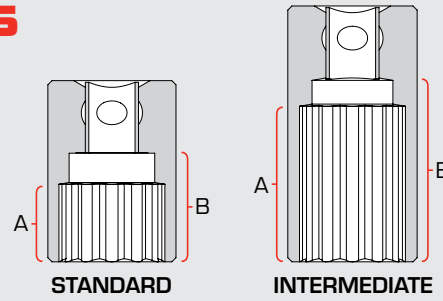
SAE AS955 ASME B107.110-2012

3/8" DRIVE SOCKETS

Torx® is a trademark of Acument Intellectual Properties, LLC

INTERMEDIATE SOCKETS

PROTO® intermediate sockets feature increased Nut Depth and Bolt Clearance vs. standard length sockets. This gives PROTO® intermediate sockets versatility in tight spaces.



A - Nut Depth B - Bolt Clearance

3/8" DRIVE SPARK PLUG SOCKETS - 6 POINT

- ▶ Chrome finish.
- ▶ With rubber insert.
- ▶ Full polish sockets meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.

INCH	6	Nut End Outside Diameter (in)	Overall Length (in)	Weight (lbs)
5/8	J5020-50	3/16	2-1/2	0.21
13/16	J5026HPA	19/64	2-3/4	0.35

ASME B107.110-2012



3/8" DRIVE BIT SOCKETS

	Size	Product #	Tip Width (in)	Bit Length (in)	Overall Length (in)	Weight (lbs)
Slotted	1/4"	⊖ J5246	1/32	-	1-13/16	0.01
	5/16"	⊖ J5240A*	3/64	-	3	0.13
Phillips	#2	⊕ J5241	-	-	1-31/32	0.11
	#3	⊕ J5242	-	-	1-31/32	0.12
	#4	⊕ J5243	-	-	1-31/32	0.12
	Torx®	T10	⊕ J5239-10W	-	5/8	1-23/32
	T15	⊕ J5239-15W	-	5/8	1-23/32	0.10
	T20	⊕ J5239-20W	-	5/8	1-23/32	0.10
	T25	⊕ J5239-25W	-	5/8	1-23/32	0.10
	T27	⊕ J5239-27W	-	5/8	1-23/32	0.10
	T30	⊕ J5239-30W	-	7/8	1-23/32	0.12
	T40	⊕ J5239-40W	-	7/8	1-23/32	0.11
	T45	⊕ J5239-45W	-	7/8	1-23/32	0.12
	T50	⊕ J5239-50W	-	7/8	1-23/32	0.12
	T55	⊕ J5239-55W	-	7/8	1-23/32	0.13

*One-piece design



3/8" DRIVE SOCKETS & BIT SOCKETS

6 POINT	8 POINT	12 POINT	SPL SPLINE	HEX HEX	FULL POLISH	SATIN	BLACK OXIDE	INSULATED
---------	---------	----------	------------	---------	-------------	-------	-------------	-----------

HAND SOCKETS

3/8" DRIVE HEX BIT SOCKETS

3/8" DRIVE HEX BIT SOCKETS

	INCH	HEX	Bit Length (in)	Overall Length (in)	Weight (lbs)
STANDARD	1/8	J49901/8	1-5/8	2-23/32	0.12
	9/64	J49909/64	1-5/8	2-23/32	0.10
	5/32	J49905/32	1-5/8	2-23/32	0.12
	3/16	J49903/16	1-5/8	2-23/32	0.12
	7/32	J49907/32	1-5/8	2-23/32	0.12
	1/4	J49901/4	1-5/8	2-23/32	0.12
	5/16	J49905/16	1-5/8	2-23/32	0.13
	3/8	J49903/8	1-5/8	2-23/32	0.15
SHORT	1/8	J49901/8ST	3/4	1-13/16	0.10
	5/32	J49905/32ST	3/4	1-13/16	0.11
	3/16	J49903/16ST	3/4	1-13/16	0.10
	7/32	J49907/32ST	3/4	1-13/16	0.10
	1/4	J49901/4ST	3/4	1-13/16	0.11
	5/16	J49905/16ST	3/4	1-13/16	0.11
	3/8	J49903/8ST	3/4	1-13/16	0.12
	EXTRA LONG	1/8	J49901/8XL	5	6-3/32
5/32		J49905/32XL	5	6-3/32	0.12
3/16		J49903/16XL	5	6-3/32	0.12
7/32		J49907/32XL	5	6-3/32	0.13
1/4		J49901/4XL	5	6-3/32	0.17
5/16		J49905/16XL	5	6-3/32	0.21
3/8		J49903/8XL	5	6-3/32	0.26
EXTRA LONG BALL END		1/8	J4904BD	5	6-3/32
	5/32	J4905BD	5	6-3/32	0.17
	3/16	J4906BD	5	6-3/32	0.17
	7/32	J4907BD	5	6-3/32	0.16
	1/4	J4908BD	5	6-3/32	0.17
	5/16	J4910BD	5	6-3/32	0.22
	3/8	J4912BD	5	6-3/32	0.28



	MM	HEX	Bit Length (in)	Overall Length (in)	Weight (lbs)
STANDARD	4	J4990-4M	1-5/8	2-23/32	0.12
	5	J4990-5M	1-5/8	2-23/32	0.12
	6	J4990-6M	1-5/8	2-23/32	0.12
	7	J4990-7M	1-5/8	2-23/32	0.12
	8	J4990-8M	1-5/8	2-23/32	0.13
	9	J4990-9M	1-5/8	2-23/32	0.15
	10	J4990-10M	1-5/8	2-23/32	0.16
	SHORT	4	J4990-4MST	11/16	1-25/32
5		J4990-5MST	11/16	1-25/32	0.10
6		J4990-6MST	11/16	1-25/32	0.10
7		J4990-7MST	11/16	1-25/32	0.11
8		J4990-8MST	11/16	1-25/32	0.10
9		J4990-9MST	11/16	1-25/32	0.11
10		J4990-10MST	11/16	1-25/32	0.12
EXTRA LONG		4	J4990-4MXL	5	6-3/32
	5	J4990-5MXL	5	6-3/32	0.17
	6	J4990-6MXL	5	6-3/32	0.17
	7	J4990-7MXL	5	6-3/32	0.17
	8	J4990-8MXL	5	6-3/32	0.21
	10	J4990-10MXL	5	6-3/32	0.28



- ▶ Made using a heat-treated alloy for wear resistance, which helps minimize distortion for a long life.
- ▶ Hex opening holds the bit, allowing the bit holder to take the torque load.



HAND SOCKETS

3/8" DRIVE CROWFOOT WRENCHES

- › Crowfoot wrenches are used in hard to reach, restricted access situations where a standard wrench or ratchet cannot reach.
- › Anti-Slip Design open end (ASD).
- › The arched surfaces are designed to spread the contact forces over a greater area and they keep the loads off the corners of the fastener which helps prevent fastener rounding.
- › Broad size range ensures the right tool for the application will be available.
- › Typically used in lower torque applications.
- › Full polish crowfoot wrenches meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.
- › Locking hole on 3/8" drive crowfoot wrenches available on fractional openings 1" and larger.












INCH	Product #	Overall Length (in)	Weight (lbs)
3/8	J4912CF	1-13/64	0.06
7/16	J4914CF	1-3/16	0.06
1/2	J4916CF	1-5/16	0.07
9/16	J4918CF	1-9/32	0.07
5/8	J4920CF	1-1/2	0.09
11/16	J4922CF	1-31/64	0.09
3/4	J4924CF	1-41/64	0.11
13/16	J4926CF	1-5/8	0.11
7/8	J4928CF	1-19/32	0.12
15/16	J4930CF	1-5/8	0.13
1	J4932CF	1-49/64	0.13
1-1/16	J4934CF	2-3/16	0.24
1-1/8	J4936CF	2-7/32	0.24
1-3/16	J4938CF	2-9/32	0.24
1-1/4	J4940CF	2-5/32	0.21
1-5/16	J4942CF	2-1/2	0.25
1-3/8	J4944CF	2-1/2	0.29
1-7/16	J4946CF	2-5/8	0.29
1-1/2	J4948CF	2-11/16	0.33
1-9/16	J4950CF	2-3/4	0.34
1-5/8	J4952CF	2-13/16	0.38
1-11/16	J4954CF	2-15/16	0.36
1-3/4	J4956CF	2-15/16	0.39
1-13/16	J4958CF	3-1/16	0.40
1-7/8	J4960CF	3-1/8	0.45
1-15/16	J4962CF	3-1/4	0.49
2	J4964CF	3-3/8	0.73
2-1/16	J4966CF	3-7/16	0.71
2-1/8	J4968CF	3-7/16	0.74
2-3/16	J4970CF	3-5/8	0.78
2-1/4	J4972CF	3-11/16	0.89
2-5/16	J4974CF	3-3/4	0.90
2-3/8	J4976CF	3-15/16	1.01
2-7/16	J4978CF	4-1/4	1.03
2-1/2	J4980CF	4-1/4	1.10
2-9/16	J4982CF	4-5/16	1.11
2-5/8	J4984CF	4-1/2	1.27
2-11/16	J4986CF	4-9/16	1.34
2-3/4	J4988CF	4-11/16	1.37
2-13/16	J4990CF	4-13/16	1.38
2-7/8	J4992CF	4-15/16	1.52
2-15/16	J4994CF	4-15/16	1.58
3	J4996CF	5	1.55

MM	Product #	Overall Length (in)	Weight (lbs)
9	J4909MCF	1-5/8	0.05
10	J4910MCF	1-11/32	0.05
11	J4911MCF	1-3/8	0.07
12	J4912MCF	1-15/32	0.07
13	J4913MCF	1-1/2	0.06
14	J4914MCF	1-1/2	0.07
15	J4915MCF	1-5/8	0.10
16	J4916MCF	1-21/32	0.09
17	J4917MCF	1-23/32	0.10
18	J4918MCF	1-15/16	0.13
19	J4919MCF	1-15/16	0.13
20	J4920MCF	2-1/16	0.13
21	J4921MCF	2-3/32	0.14
22	J4922MCF	2-7/32	0.15
23	J4923MCF	2-11/32	0.19
24	J4924MCF	2-13/32	0.19

SAE AS4984A ASME B107.100-2010 

3/8" CROWFOOT WRENCHES

 6 POINT  8 POINT  12 POINT  SPLINE  HEX  FULL POLISH  SATIN  BLACK OXIDE  INSULATED


HAND SOCKETS

3/8" DRIVE FLARE NUT CROWFOOT WRENCHES - 6 POINT

- › Flare Nut Crowfoot wrenches are used in hard to reach or restricted access situations where a standard flare nut wrench cannot reach.
- › The flare nut slot opening is used to slide over hydraulic lines or other hoses which allows for easy access to hex connectors at ends.
- › Typically used in low torque applications.
- › Full polish crowfoot wrenches meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.
- › Locking hole feature helps keep the crowfoot engaged on the extension during use, helping to reduce downtime and improve working efficiency.
- › Use with locking extensions to reach into small spaces where the fastener is out of sight.



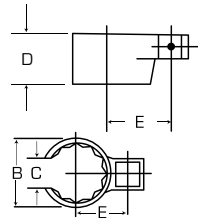
INCH	Product #	Overall Length (in)	Weight (lbs)
3/8	J4912HFL	1-13/16	0.07
7/16	J4914HFL	1-1/2	0.08
1/2	J4916HFL	1-5/8	0.10
9/16	J4918HFL	1-5/8	0.11
5/8	J4920HFL	1-3/4	0.13
11/16	J4922HFL	1-13/16	0.13
3/4	J4924HFL	1-15/16	0.16
13/16	J4926HFL	2	0.18

ASME B107.110-2010 


3/8" CROWFOOT WRENCHES

3/8" DRIVE FLARE NUT CROWFOOT WRENCHES - 12 POINT

- › Designed for speed and safety.
- › Special heat-treated alloy steel helps increase strength and durability.
- › 12 point box end allows for fine indexing, helping to improve speed and access. Fits 6 and 12 point fasteners.
- › Full polish crowfoot wrenches meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.
- › Locking hole helps hold crowfoot in place during use.
- › Use with a locking extension to help prevent tool loss in awkward locations.



INCH	Product #	Head Outside Diameter (in) (B)	Head Opening (in) (C)	Head Thickness (in) (D)	Offset Height (in) (E)	Weight (lbs)
5/8	J4920FL	63/64	15/32	11/16	3/4	0.09
11/16	J4922FL	13/16	1/2	11/16	13/16	0.10
3/4	J4924FL	1-11/64	17/32	23/32	27/32	0.12
13/16	J4926FL	29/32	19/32	23/32	29/32	0.12
7/8	J4928FL	1	21/32	3/4	1	0.16
15/16	J4930FL	31/32	11/16	3/4	31/32	0.17
1	J4932FL	1-1/2	23/32	25/32	1-1/32	0.18
1-1/16	J4934FL	1-37/64	25/32	25/32	1-1/16	0.20

ASME B107.110-2010 

HAND SOCKETS

1/2" DRIVE SOCKETS

- ▶ PROTO® Sockets with TorquePlus™ are ideal for use on stubborn or damaged fasteners, and also on fasteners made from soft materials.
- ▶ Full polish sockets meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.



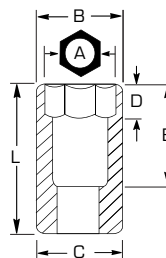
- ▶ Radius-corner socket design
- ▶ Engages flats for better grip
- ▶ Improves the ability to turn worn or rounded fasteners



INCH	6	12	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
1/4	J5408H	J5408T	-	1/4	23/32	23/64	23/32	1-34/64	0.11
5/16	J5410H**	J5410**	-	17/32	55/64	23/64	23/32	1-34/64	0.11
3/8	J5412H	J5412	J5412B°	9/16	55/64	23/64	7/8	1-31/64	0.11
7/16	J5414H	J5414	J5414B°	43/64	55/64	23/64	7/8	1-31/64	0.11
1/2	J5416H	J5416	J5416B°	47/64	55/64	23/64	7/8	1-31/64	0.11
17/32	-	J5417	-	7/8	55/64	23/64	23/32	1-31/64	0.12
9/16	J5418H	J5418	J5418B°	13/16	55/64	23/64	51/64	1-1/2	0.13
19/32	J5419H**	J5419**	-	7/8	55/64	9/16	21/32	1-1/2	0.13
5/8	J5420H	J5420	J5420B°	7/8	7/8	9/16	21/32	1-1/2	0.14
21/32	J5421H**	J5421**	-	61/64	61/64	9/16	21/32	1-1/2	0.15
11/16	J5422H	J5422	J5422B°	61/64	61/64	9/16	21/32	1-1/2	0.15
3/4	J5424H	J5424	J5424B°	1-1/32	1-1/64	11/16	21/32	1-1/2	0.15
25/32	J5425H**	J5425**	-	1-1/16	1-5/64	11/16	21/32	1-1/2	0.20
13/16	J5426H	J5426	J5426B°	1-3/32	1-5/64	11/16	21/32	1-1/2	0.23
7/8	J5428H	J5428	J5428B°	1-11/64	1-3/16	11/16	45/64	1-9/16	0.26
29/32	-	J5429	-	1-3/16	1-3/16	13/16	45/64	1-9/16	0.30
15/16	J5430H	J5430	J5430B°	1-1/4	1-1/4	13/16	45/64	1-9/16	0.33
31/32	J5431H	J5431	-	1-9/32	1-9/32	13/16	45/64	1-9/16	0.35
1	J5432H	J5432	J5432B°	1-21/64	1-5/16	27/32	45/64	1-9/16	0.38
1-1/16	J5434H	J5434	J5434B°	1-13/32	1-25/64	13/16	25/32	1-5/8	0.42
1-1/8	J5436H	J5436	J5436B°	1-31/64	1-31/64	15/16	29/32	1-3/4	0.47
1-3/16	J5438H	J5438	J5438B°	1-9/16	1-17/32	59/64	29/32	1-3/4	0.59
1-1/4	J5440H	J5440	J5440B°	1-39/64	1-37/64	1	7/8	1-3/4	0.66
1-5/16	J5442H	J5442	J5442B°	1-21/32	1-41/64	27/32	1-19/64	1-55/64	0.69
1-3/8	J5444H	J5444	J5444B°	1-25/32	1-5/8	25/32	1-19/64	2	0.79
1-7/16	J5446H	J5446	J5446B°	1-59/64	1-5/8	27/32	1-19/64	2-1/8	0.98
1-1/2	J5448H	J5448	J5448B°	1-63/64	1-5/8	27/32	1-19/64	2-1/4	1.12
1-9/16	J5450H	-	-	2-1/32	1-5/8	1	1-9/32	2-1/4	1.12

*SAE AS4984A ASME B107.110-2012

**Meets and exceeds ASME B107.110-2012 only



6 POINT	8 POINT	12 POINT	SPL SPLINE	HEX HEX	FULL POLISH	SATIN	BLACK OXIDE	INSULATED
---------	---------	----------	------------	---------	-------------	-------	-------------	-----------

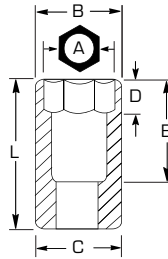
HAND SOCKETS

1/2" DRIVE SOCKETS (CONT'D)

1/2" DRIVE SOCKETS

MM	6	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
8	J5408MH	J5408M	35/64	55/64	23/64	25/32	1-19/64	0.11
9	J5409MH	J5409M	19/32	55/64	23/64	25/32	1-31/64	0.11
10	J5410MH	J5410M	39/64	55/64	23/64	55/64	1-31/64	0.11
11	J5411MH	J5411M	45/64	55/64	23/64	55/64	1-31/64	0.11
12	J5412MH	J5412M	47/64	55/64	23/64	55/64	1-31/64	0.11
13	J5413MH	J5413M	3/4	55/64	23/64	55/64	1-31/64	0.12
14	J5414MH	J5414M	13/16	55/64	23/64	7/8	1-1/2	0.13
15	J5415MH	J5415M	55/64	55/64	37/64	7/8	1-1/2	0.13
16	J5416MH	J5416M	7/8	7/8	37/64	7/8	1-1/2	0.13
17	J5417MH	J5417M	61/64	61/64	37/64	7/8	1-1/2	0.14
18	J5418MH	J5418M	61/64	61/64	37/64	7/8	1-1/2	0.17
19	J5419MH	J5419M	1-1/32	1-1/32	11/16	27/32	1-1/2	0.19
20	J5420MH	J5420M	1-3/32	1-3/32	11/16	27/32	1-1/2	0.22
21	J5421MH	J5421M	1-3/32	1-3/32	11/16	27/32	1-1/2	0.24
22	J5422MH	J5422M	1-11/64	1-11/64	11/16	27/32	1-17/32	0.26
23	J5423MH	J5423M	1-13/64	1-13/64	25/32	59/64	1-17/32	0.27
24	J5424MH	J5424M	1-1/4	1-1/4	53/64	59/64	1-17/32	0.28
25	J5425MH	J5425M	1-9/32	1-9/32	53/64	59/64	1-17/32	0.30
26	J5426MH	J5426M*	1-21/64	1-21/64	55/64	63/64	1-39/64	0.33
27	J5427MH	J5427M	1-13/32	1-13/32	15/16	1-3/64	1-43/64	0.39
28	J5428MH	J5428M*	1-31/64	1-31/64	63/64	1-5/32	1-25/32	0.48
29	J5429MH	J5429M*	1-31/64	1-31/64	63/64	1-5/32	1-25/32	0.62
30	J5430MH	J5430M	1-9/16	1-17/32	63/64	1-5/32	1-25/32	0.63
31	J5431MH	J5431M*	1-39/64	1-39/64	1-1/16	1-5/32	1-25/32	0.63
32	J5432MH	J5432M	1-39/64	1-39/64	1-1/8	1-7/32	1-27/32	0.63
34	J5434MH	J5434M	1-49/64	1-49/64	1	1-35/64	1-27/32	0.63
36	J5436MH	J5436M	1-31/32	1-31/32	1-3/8	1-39/64	2-15/64	1.04
38	-	J5438M	2-1/32	2-1/32	1-3/8	1-39/64	2-1/4	1.04

*SAE AS955 ASME B107.110-2012 




HAND SOCKETS


1/2" DRIVE SOCKETS - SPLINE



STANDARD

INCH	Spline Size		Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
1/2	16	J5416SPL	7/8	7/8	31/64	13/16	1-7/16	0.11
9/16	18	J5418SPL	7/8	7/8	31/64	13/16	1-7/16	0.11
5/8	20	J5420SPL	7/8	7/8	17/32	1-1/16	1-9/16	0.14
11/16	22	J5422SPL	61/64	61/64	17/32	1-1/16	1-9/16	0.17
3/4	24	J5424SPL	1-3/64	1-3/64	17/32	1-1/16	1-9/16	0.20
13/16	26	J5426SPL	1-1/8	1-1/8	17/32	1-1/16	1-9/16	0.23
7/8	28	J5428SPL	1-3/16	1-3/16	17/32	1-1/16	1-9/16	0.24
15/16	30	J5430SPL	1-5/16	1-5/16	17/32	1-1/16	1-9/16	0.30

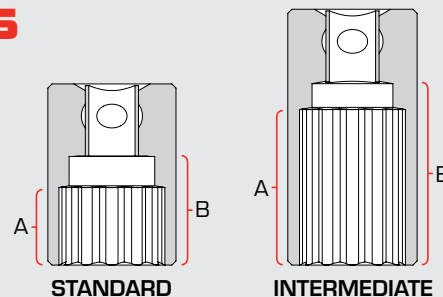
DEEP

INCH	Spline Size		Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
9/16	18	J5318DPL	7/8	7/8	31/64	2-7/8	3-3/8	0.28
5/8	20	J5320DPL	7/8	7/8	33/64	2-7/8	3-3/8	0.32
11/16	22	J5322DPL	61/64	61/64	17/32	2-7/8	3-3/8	0.29
3/4	24	J5324DPL	1-3/64	1-3/64	17/32	2-7/8	3-3/8	0.33
13/16	26	J5326DPL	1-1/8	1-1/8	17/32	2-7/8	3-3/8	0.37
7/8	28	J5328DPL	1-3/16	1-3/16	17/32	2-7/8	3-3/8	0.41
15/16	30	J5330DPL	1-5/16	1-5/16	17/32	2-7/8	3-3/8	0.48

INTERMEDIATE SOCKETS

PROTO® intermediate sockets feature increased Nut Depth and Bolt Clearance vs. standard length sockets. This gives PROTO® intermediate sockets versatility in tight spaces.

A - Nut Depth B - Bolt Clearance



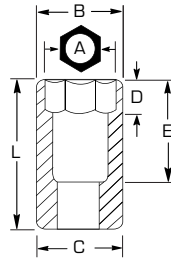
HAND SOCKETS

1/2" DRIVE INTERMEDIATE SOCKETS - 12 POINT

- Full polish sockets meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.
- 12-Point sockets are ideal for use on stubborn or damaged fasteners.
- Intermediate lengths give additional reach without limiting accessibility in tight spaces.



- Radius-corner socket design
- Engages flats for better grip
- Improves the ability to turn worn or rounded fasteners



1/2" DRIVE SOCKETS

INCH	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
3/8	J5412N	9/16	55/64	3/8	11/16	1-17/32	0.09
7/16	J5414N	43/64	55/64	7/16	11/16	1-17/32	0.11
1/2	J5416N	43/64	55/64	7/16	11/16	1-17/32	0.11
9/16	J5418N	13/16	55/64	5/8	11/16	1-5/8	0.12
5/8	J5420N	55/64	55/64	5/8	25/32	1-45/64	0.12
11/16	J5422N	61/64	61/64	13/16	27/32	1-47/64	0.13
3/4	J5424N	1-1/64	1-1/64	15/16	1	1-3/4	0.14
13/16	J5426N	1-3/32	1-3/32	31/32	1-1/32	1-3/4	0.21
7/8	J5428N	1-3/16	1-3/16	1	1-9/64	1-13/16	0.26
15/16	J5430N	1-1/4	1-1/4	1	1-3/16	1-7/8	0.27
1	J5432N	1-21/64	1-21/64	1-1/16	1-15/64	1-59/64	0.29
1-1/16	J5434N	1-7/16	1-7/16	1-1/8	1-7/32	1-61/64	0.46
1-1/8	J5436N	1-1/2	1-1/2	1-1/8	1-9/32	1-63/64	0.47
1-3/16	J5438N	1-1/2	1-1/2	1-1/8	1-19/64	2	0.50
1-1/4	J5440N	1-1/4	1-1/4	1	1-3/16	1-7/8	0.27
1-5/16	J5442N	1-41/64	1-41/64	29/32	1-23/64	2-3/64	0.56

SAE AS954G ASME B107.110-2012

MM	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
10	J5410MN	9/16	55/64	3/8	11/16	1-17/32	0.09
11	J5411MN	43/64	55/64	7/16	11/16	1-17/32	0.11
12	J5412MN	43/64	55/64	7/16	11/16	1-17/32	0.11
13	J5413MN	13/16	55/64	5/8	11/16	1-5/8	0.12
14	J5414MN	13/16	55/64	5/8	11/16	1-5/8	0.12
15	J5415MN	13/16	55/64	5/8	11/16	1-5/8	0.12
16	J5416MN	55/64	55/64	5/8	25/32	1-45/64	0.12
17	J5417MN	61/64	61/64	13/16	27/32	1-47/64	0.13
18	J5418MN	61/64	61/64	13/16	27/32	1-47/64	0.13
19	J5419MN	1-1/64	1-1/64	15/16	1	1-3/4	0.14
20	J5420MN	1-3/32	1-3/32	31/32	1-1/32	1-3/4	0.21
21	J5421MN	1-3/32	1-3/32	11/16	27/32	1-13/32	0.21
22	J5422MN	1-11/64	1-11/64	11/16	57/64	1-35/64	0.26
23	J5423MN	1-3/16	1-3/16	1	1-9/64	1-13/16	0.26
24	J5424MN	1-1/4	1-1/4	1	1-3/16	1-7/8	0.27
25	J5425MN	1-21/64	1-21/64	1-1/16	1-15/64	1-59/64	0.29
27	J5427MN	1-7/16	1-7/16	1-1/8	1-7/32	1-61/64	0.46
30	J5430MN	1-1/2	1-1/2	1-1/8	1-19/64	2	0.50
32	J5432MN	1-9/16	1-9/16	1-1/8	1-5/16	1-1/64	0.48

SAE AS955 ASME B107.110-2012

HAND SOCKETS

1/2" DRIVE DEEP SOCKETS



- ▶ Radius-corner socket design
- ▶ Engages flats for better grip
- ▶ Improves the ability to turn worn or rounded fasteners

INCH	6	12	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
3/8	J5312H	J5312°	-	9/16	7/8	1/4	2-39/64	3-1/4	0.28
7/16	J5314H	J5314°	-	9/16	7/8	23/64	2-39/64	3-1/4	0.28
1/2	J5316H	J5316°	J5316B°	47/64	55/64	25/32	2-39/64	3-1/4	0.29
9/16	J5318H	J5318°	J5318B°	13/16	27/32	15/16	2-39/64	3-1/4	0.29
5/8	J5320H	J5320°	J5320B°	7/8	7/8	1-7/32	2-39/64	3-1/4	0.30
11/16	J5322H	J5322°	J5322B°	31/32	31/32	1-7/32	2-39/64	3-1/4	0.42
3/4	J5324H	J5324°	J5324B°	1-3/64	1-3/64	1-7/32	2-39/64	3-1/4	0.42
13/16	J5326H	J5326°	J5326B°	1-3/32	1-3/32	1-7/32	2-39/64	3-1/4	0.52
7/8	J5328H	J5328°	J5328B°	1-11/64	1-11/64	1-7/32	2-39/64	3-1/4	0.58
15/16	J5330H	J5330°	J5330B°	1-1/4	1-1/4	1-7/32	2-39/64	3-1/4	0.67
1	J5332H	J5332°	J5332B°	1-21/64	1-21/64	1-7/32	2-29/64	3-1/4	0.67
1-1/16	J5334H	J5334°	J5334B°	1-13/32	1-13/32	1-9/32	2-29/64	3-1/4	0.75
1-1/8	J5336H	J5336°	J5336B°	1-1/2	1-1/2	1-5/32	2-29/64	3-1/4	0.83
1-3/16	J5338H	J5338°	-	1-35/64	1-35/64	1-7/64	2-1/4	3-1/4	0.83
1-1/4	J5340H	J5340°	J5340B°	1-9/16	1-9/16	1-13/32	2-29/64	3-1/4	1.06
1-5/16	J5342H	J5342°	-	1-7/8	1-5/8	27/32	2-1/4	3-1/2	1.06
1-3/8	J5344H	J5344°	-	1-7/8	1-5/8	61/64	2-1/4	3-1/2	1.23
1-7/16	J5346H	J5346°	-	2-1/16	1-5/8	61/64	2-1/4	3-1/2	1.27
1-1/2	J5348H	J5348°	-	2-1/16	1-5/8	1	2-1/4	3-1/2	1.58

*SAE AS954G ASME B107.110-2012

MM	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
10	J5310M	39/64	55/64	19/32	2-3/32	3-1/4	0.25
11	J5311M	45/64	55/64	5/8	2-3/32	3-1/4	0.25
12	J5312M	47/64	55/64	43/64	2-3/32	3-1/4	0.26
13	J5313M	3/4	55/64	43/64	2-3/32	3-1/4	0.26
14	J5314M	27/32	27/32	15/16	2-3/32	3-1/4	0.30
15	J5315M	55/64	55/64	1-1/16	2-3/32	3-1/4	0.32
16	J5316M	55/64	55/64	1-3/16	2-3/32	3-1/4	0.32
17	J5317M	61/64	61/64	1-3/16	2-3/32	3-1/4	0.33
18	J5318M	63/64	63/64	1-3/16	2-3/32	3-1/4	0.33
19	J5319M	1-3/64	1-3/64	1-3/16	2-3/32	3-1/4	0.37
20	J5320M	1-3/32	1-3/32	1-3/16	2-3/32	3-1/4	0.46
21	J5321M	1-3/32	1-3/32	1-3/16	2-3/32	3-1/4	0.51
22	J5322M	1-11/64	1-11/64	1-3/16	2-3/32	3-1/4	0.51
23	J5323M	1-13/64	1-13/64	1-3/16	2-3/32	3-1/4	0.51
24	J5324M	1-1/4	1-1/4	1-3/16	2-3/32	3-1/4	0.51
25	J5325M	1-5/16	1-5/16	1-3/16	2-3/32	3-1/4	0.62
26	J5326M	1-21/64	1-21/64	1-3/16	2-3/32	3-1/4	0.63
27	J5327M	1-1/64	1-1/64	1-7/64	2-3/32	3-1/4	0.65
28	J5328M	1-3/32	1-31/64	1-7/64	2-3/32	3-1/4	0.68
29	J5329M	1-31/64	1-31/64	1-7/64	2-3/32	3-1/4	0.68
30	J5330M	1-9/16	1-9/16	1-7/64	2-5/8	3-1/4	0.70
31	J5331M	1-39/64	1-39/64	1-7/64	2-5/8	3-1/4	0.73
32	J5332M	1-39/64	1-39/64	1-7/64	2-5/8	3-1/4	0.73
36	J5336M	1-31/32	1-31/32	1-7/64	2-5/8	3-1/4	0.99

SAE AS955 ASME B107.110-2012


6 6 POINT
8 8 POINT
12 12 POINT
SPL SPLINE
HEX HEX
FULL POLISH
SATIN
BLACK OXIDE
INSULATED

HAND SOCKETS

1/2" DRIVE SPARK PLUG SOCKETS - 6 POINT

- › With rubber insert.
- › Proto® 6 Point Sockets are ideal for use on stubborn or damaged fasteners, and also on fasteners made from soft materials.

INCH	6	Overall Length (in)	Weight (lbs)
5/8	J5320-50	2-1/2	0.23
13/16	J5326HPA	2-47/64	0.35

ASME B107.110-2012 




- › Radius-corner socket design
- › Engages flats for better grip
- › Improves the ability to turn worn or rounded fasteners

1/2" DRIVE SCREWDRIVER BIT SOCKETS

- › Made of heat-treated alloy steel.
- › Ball detent.

	Size	Product #	Tip Width (in)	Overall Length (in)	Weight (lbs)
Slotted	7/16"	⊖ J5407A	1/16	3-5/32	0.2
	1/2"	⊖ J5408A	5/64	3-5/32	0.22
	5/8"	⊖ J5409A	3/32	3-5/32	0.27
Phillips	#2	⊕ J5402	2-5/32	2-5/32	0.19
	#3	⊕ J5403	2-5/32	2-5/32	0.18
	#4	⊕ J5404	2-5/32	2-5/32	0.19






1/2" DRIVE HEX BIT SOCKETS


- › Bit holders have a hex opening to hold the bit allowing the bit holder to take the full load of torque.
- › Made of heat-treated alloy steel.
- › Polished chrome finish.



	INCH	HEX	Bit Length (in)	Overall Length (in)	Weight (lbs)
STANDARD	1/4	J54411/4°	1-3/4	3-1/4	0.19
	5/16	J54415/16°	1-3/4	3-1/4	0.22
	3/8	J54413/8°	1-3/4	3-1/4	0.25
	7/16	J54417/16°	1-3/4	3-1/4	0.28
	1/2	J54411/2°	1-7/8	3-5/8	0.46
	9/16	J54419/16°	1-7/8	3-5/8	0.50
	5/8	J54415/8°	2	4	0.85
	3/4	J54413/4°	2	4	0.92
EXTRA LONG	1/4	J54411/4XL	3-1/8	4-5/8	0.20
	5/16	J54415/16XL	4-1/8	5-5/8	0.29
	3/8	J54413/8XL	4-1/8	5-5/8	0.42
	1/2	J54411/2XL	5-3/8	7-1/8	0.60
	9/16	J54419/16XL	5-3/8	7-1/8	0.77
	5/8	J54415/8XL	5-3/16	7-3/16	0.86

	MM	HEX	Bit Length (in)	Overall Length (in)	Weight (lbs)
STANDARD	6	J5441-6M°	1-3/4	3-1/4	0.20
	8	J5441-8M°	1-3/4	3-1/4	0.22
	10	J5441-10M°	1-3/4	3-1/4	0.26
	12	J5441-12M°	1-3/4	3-1/4	0.29
	13	J5441-13M°	1-7/8	3-41/64	0.46
	14	J5441-14M°	1-7/8	3-41/64	0.50
	15	J5441-15M°	1-7/8	3-41/64	0.50
	17	J5441-17M°	2	4	0.87
	18	J5441-18M°	2	4	0.90
	19	J5441-19M°	2	4	0.94
EXTRA LONG	12	J5441-12MXL	5-5/8	7-1/8	0.50
	14	J5441-14MXL	5-3/8	7-1/8	0.75
	17	J5441-17MXL	5-1/8	7-1/8	1.20


*SAE AS4984A 

*SAE AS4984A 

1/2" DRIVE SOCKETS & BIT SOCKETS

1/2" DRIVE CROWFOOT WRENCHES

INCH	Product #	Overall Length (in)	Weight (lbs)
15/16	J5330CF	2-13/16	0.47
1	J5332CF	2-13/16	0.46
1-1/16	J5334CF	2-7/8	0.51
1-1/8	J5336CF	3	0.54
1-3/16	J5338CF	3	0.58
1-1/4	J5340CF	3-5/16	0.66
1-5/16	J5342CF	3-5/16	0.66
1-3/8	J5344CF	3-3/8	0.72
1-7/16	J5346CF	3-3/8	0.75
1-1/2	J5348CF	3-7/16	0.77
1-9/16	J5350CF	3-1/2	0.80
1-5/8	J5352CF	3-1/2	0.83
1-11/16	J5354CF	3-13/16	0.95
1-3/4	J5356CF	3-13/16	0.98
1-13/16	J5358CF	3-7/8	1.01
1-7/8	J5360CF	3-7/8	1.05
2	J5364CF	3-15/16	1.10
2-1/8	J5368CF	4-1/16	1.09
2-1/4	J5372CF	4-3/8	1.27
2-3/8	J5376CF	4-7/16	1.29
2-7/16	J5378CF	4-7/16	1.28
2-1/2	J5380CF	4-1/2	1.25

ASME B107.100-2010 


- › Crowfoot wrenches are used in hard to reach, restricted access situations where a standard wrench or ratchet cannot reach.
- › Anti-Slip Design open end (ASD).
- › The arched surfaces are designed to spread the contact forces over a greater area and they keep the loads off the corners of the fastener which helps prevent fastener rounding.
- › Broad size range ensures the right tool for the application will be available.
- › Typically used in lower torque applications.
- › Full polish crowfoot wrenches meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.
- › Locking hole feature helps keep the crowfoot wrench engaged on the extension during use reducing downtime due to detachment of crowfoot in awkward spaces.
- › Use with locking extensions to reach into spaces too small for a mechanic's arm or where the fastener is out of site.



1/2" DRIVE CROWFOOT WRENCHES

1/2" DRIVE FLARE NUT CROWFOOT WRENCHES - 12 POINT

INCH	Product #	Overall Length (in)	Weight (lbs)
1-1/8	J5336FL	2-13/16	0.19
1-3/16	J5338FL	2-7/8	0.19
1-1/4	J5340FL	3	0.19
1-5/16	J5342FL	3-1/16	0.19
1-3/8	J5344FL	3-5/16	0.25
1-7/16	J5346FL	3-3/8	0.25
1-1/2	J5348FL	3-7/16	0.25
1-9/16	J5350FL	3-9/16	0.31
1-5/8	J5352FL	3-3/4	0.31
1-11/16	J5354FL	3-13/16	0.31
1-3/4	J5356FL	3-7/8	0.38
1-13/16	J5358FL	4	0.38
1-7/8	J5360FL	4-1/4	0.45
1-15/16	J5362FL	4-5/16	0.50
2	J5364FL	4-7/16	0.50

ASME B107.100-2010 

- › Designed for speed and safety.
- › Special heat-treated alloy steel helps increase strength and durability.
- › 12 point Box end allows for fine indexing, helping to improve speed and access. Fits 4, 6 and 12 point fasteners.
- › Full polish crowfoot wrenches meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.



HAND SOCKETS

3/4" DRIVE SOCKETS - 12 POINT

- ▶ Proto® 12 Point Sockets are ideal for use on stubborn or damaged fasteners, and also on fasteners made from soft materials.
- ▶ Ball detent design.
- ▶ Made of heat-treated alloy steel.
- ▶ Side locking hole.



- ▶ Radius-corner socket design
- ▶ Engages flats for better grip
- ▶ Improves the ability to turn worn or rounded fasteners

3/4" DRIVE SOCKETS

INCH	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
3/4	J5524	1-5/16	1-5/16	19/32	1-1/16	2	0.35
13/16	J5526	1-5/16	1-5/16	21/32	1-1/16	2	0.36
7/8	J5528	1-5/16	1-5/16	45/64	1-1/16	2	0.46
15/16	J5530	1-7/16	1-7/16	3/4	1-1/16	2	0.51
1	J5532	1-1/2	1-1/2	3/4	1-1/16	2	0.56
1-1/16	J5534	1-37/64	1-37/64	3/4	1-1/16	2	0.61
1-1/8	J5536	1-37/64	1-15/32	25/32	1	2-7/32	0.72
1-3/16	J5538	1-37/64	1-15/32	25/32	1	2-7/32	0.61
1-1/4	J5540*	1-13/16	1-19/32	13/16	1-5/32	2-15/64	0.87
1-5/16	J5542*	1-7/8	1-19/32	27/32	1-5/32	2-9/32	0.89
1-3/8	J5544*	1-7/8	1-5/8	29/32	1-5/32	2-9/32	0.84
1-7/16	J5546*	2-3/64	1-5/8	61/64	1-1/4	2-13/32	1.07
1-1/2	J5548*	2-3/64	1-5/8	1	1-1/4	2-13/32	0.94
1-9/16	J5550*	2-3/16	1-23/32	1-3/64	1-15/16	2-5/8	0.97
1-5/8	J5552*	2-15/64	1-3/4	1-7/64	1-15/16	2-5/8	1.03
1-11/16	J5554*	2-3/8	1-3/4	1-5/32	1-15/32	2-3/4	1.14
1-3/4	J5556*	2-3/8	1-3/4	1-13/64	1-15/32	2-3/4	1.30
1-13/16	J5558	2-9/16	1-3/4	1-1/4	1-39/64	2-29/32	1.41
1-7/8	J5560	2-9/16	1-3/4	1-19/64	1-39/64	2-31/32	1.55
2	J5564	2-47/64	2	1-3/4	1-3/4	3-7/64	1.59
2-1/16	J5566	2-49/64	2-1/32	1-3/4	1-3/4	3-5/32	1.60
2-1/8	J5568	2-61/64	2-3/32	1-13/16	1-13/16	3-9/32	1.64
2-3/16	J5570	2-61/64	2-3/32	1-13/16	2-5/32	3-9/32	1.90
2-1/4	J5572	3-17/64	2-3/32	1-61/64	2-3/16	3-13/32	1.91
2-3/8	J5576	3-17/64	2-29/64	2-1/8	2-3/16	3-43/64	2.28

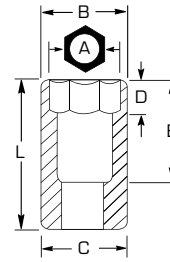
*SAE AS954G ASME B107.110-2012

MM	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
19	J5519M	1-1/8	1-19/64	9/16	1-5/16	2	0.36
20	J5520M	1-3/16	1-19/64	9/16	1-5/16	2	0.37
21	J5521M	1-17/64	1-19/64	9/16	1-5/16	2	0.40
22	J5522M	1-5/16	1-19/64	9/16	1-5/16	2	0.41
23	J5523M	1-13/32	1-13/32	9/16	1-5/16	2	0.52
24	J5524M	1-7/16	1-7/16	9/16	1-5/16	2	0.41
25	J5525M	1-31/64	1-31/64	5/8	1-5/16	2	0.60
26	J5526M	1-1/2	1-1/2	5/8	1-5/16	2	0.59
27	J5527M	1-35/64	1-35/64	11/16	1-5/16	2	0.62
28	J5528M	1-19/32	1-31/64	3/4	1-5/16	2-7/32	0.64
29	J5529M	1-19/32	1-31/64	49/64	1-5/16	2-7/32	0.65
30	J5530M	1-19/32	1-31/64	49/64	1-5/16	2-7/32	0.63
31	J5531M	1-47/64	1-47/64	13/16	1-5/16	2-7/32	0.72
32	J5532M*	1-25/32	1-31/64	13/16	1-5/16	2-7/32	0.78
35	J5535M*	1-55/64	1-19/32	1-5/32	1-5/16	2-9/32	0.87
36	J5536M*	2-3/64	1-19/32	1-15/64	1-5/16	2-13/32	1.09
38	J5538M*	2-3/64	1-19/32	1-15/64	1-5/16	2-13/32	1.04
41	J5541M*	2-15/64	1-23/32	1-9/32	1-5/16	2-39/64	1.06
42	J5542M*	2-23/64	1-23/32	1-15/32	1-5/16	2-23/32	1.06
46	J5546M*	2-37/64	1-25/32	1-39/64	1-5/16	2-31/32	1.45
50	J5550M*	2-49/64	2-1/32	1-47/64	1-5/16	3-5/32	2.39
54	J5554M*	2-15/16	2-3/32	1-3/8	1-5/16	3-9/32	1.97
55	J5555M*	2-15/16	2-3/32	1-13/16	1-5/16	3-9/32	2.64
58	J5558M*	3-9/64	2-3/32	1-61/64	1-5/16	3-13/32	2.99
60	J5560M*	3-17/64	2-17/32	2-1/8	1-5/16	3-21/32	2.27

*SAE AS955 ASME B107.110-2012

HAND SOCKETS

3/4" DRIVE SOCKETS - SPLINE



INCH	Spline Size	SPL	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
3/4	24	J5524SPL	1-3/64	1-3/8	5/8	9/16	1-5/8	0.30
13/16	26	J5526SPL	1-3/16	1-3/8	5/8	9/16	1-5/8	0.36
7/8	28	J5528SPL	1-5/16	1-3/8	3/4	11/16	1-11/16	0.33
15/16	30	J5530SPL	1-3/8	1-3/8	3/4	3/4	1-7/8	0.36
1	32	J5532SPL	1-7/16	1-7/16	13/16	1-1/8	1-15/16	0.45
1-1/16	34	J5534SPL	1-1/2	1-1/2	7/8	1-3/32	1-31/32	0.53



3/4" DRIVE INTERMEDIATE SOCKETS - 12 POINT

- Full polish sockets meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance and durability.
- 12-Point sockets are ideal for use on stubborn or damaged fasteners.
- Intermediate lengths give additional reach without limiting accessibility in tight spaces.



INCH	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
3/4	J5524N	1-1/8	1-19/64	55/64	31/32	2-9/32	0.43
13/16	J5526N	1-7/32	1-19/64	55/64	1-1/32	2-9/32	0.44
7/8	J5528N	1-19/64	1-19/64	55/64	1-1/8	2-9/32	0.45
15/16	J5530N	1-13/32	1-13/32	55/64	1-11/64	2-9/32	0.56
1	J5532N	1-1/2	1-1/2	55/64	1-15/64	2-9/32	0.66
1-1/16	J5534N	1-9/16	1-9/16	1-1/32	1-1/4	2-9/32	0.69
1-1/8	J5536N	1-1/2	1-11/16	1-1/32	1-9/32	2-21/64	0.67
1-3/16	J5538N	1-1/2	1-11/16	1-1/32	1-19/64	2-21/64	0.63

SAE AS954G ASME B107.110-2012

MM	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
19	J5519MN	1-1/4	1-9/32	55/64	31/32	2-5/16	0.40
20	J5520MN*	1-7/8	1-19/64	55/64	1	2-5/16	0.43
21	J5521MN	1-1/4	1-9/32	55/64	1-1/32	2-5/16	0.45
22	J5522MN	1-19/64	1-19/64	55/64	1-1/8	2-5/16	0.47
23	J5523MN	1-13/32	1-13/32	7/8	1-9/64	2-5/16	0.60
24	J5524MN	1-7/16	1-7/16	29/32	1-3/16	2-5/16	0.61
25	J5525MN	1-31/64	1-31/64	61/64	1-7/32	2-5/16	0.64
27	J5527MN	1-35/64	1-35/64	1	1-7/32	2-5/16	0.70
30	J5530MN	1-19/32	1-1/2	1-7/64	1-15/64	2-21/64	0.62

SAE AS955 *ASME B107.110-2012



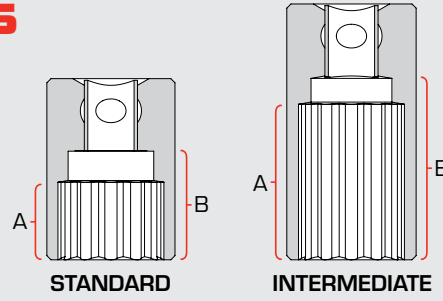
3/4" DRIVE SOCKETS

HAND SOCKETS

INTERMEDIATE SOCKETS

PROTO® intermediate sockets feature increased Nut Depth and Bolt Clearance vs. standard length sockets. This gives PROTO® intermediate sockets versatility in tight spaces.

A - Nut Depth B - Bolt Clearance



3/4" DRIVE SOCKETS

3/4" DRIVE DEEP SOCKETS - 6 POINT

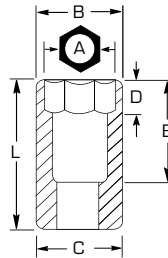
- ▶ Proto® 6 Point Sockets are ideal for use on stubborn or damaged fasteners, and also on fasteners made from soft materials.
- ▶ Made from alloy steel.
- ▶ Heat-treated for strength and durability.
- ▶ Hand use only.
- ▶ Ball detent design.



- ▶ Radius-corner socket design
- ▶ Engages flats for better grip
- ▶ Improves the ability to turn worn or rounded fasteners

INCH	6	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
7/8	J5528HL	1-3/8	1-3/8	9/16	2-9/16	3-1/2	0.91
15/16	J5530HL	1-7/16	1-7/16	9/16	2-9/16	3-1/2	0.80
1	J5532HL	1-1/2	1-1/2	5/8	2-9/16	3-1/2	1.11
1-1/16	J5534HL	1-9/16	1-7/16	11/16	2-9/16	3-1/2	0.97
1-1/8	J5536HL	1-19/32	1-1/2	25/32	2-3/8	3-1/2	1.12
1-1/4	J5540HL	1-13/16	1-21/32	13/16	2-11/32	3-1/2	1.28
1-5/16	J5542HL	1-55/64	1-21/32	27/32	2-19/64	3-1/2	1.32
1-3/8	J5544HL	1-55/64	1-21/32	29/32	2-9/32	3-1/2	1.64
1-7/16	J5546HL	2-1/16	1-21/32	61/64	2-1/4	3-1/2	1.65
1-1/2	J5548HL	2-1/16	1-1/32	1	2-1/4	3-1/2	1.65
1-5/8	J5552HL	2-1/4	1-3/4	1-7/64	2-13/64	3-1/2	1.52

ASME B107.110-2012



A close-up photograph of an impact socket being used on a bolt. The socket is grey and has the word "TITANIUM" embossed on it. The bolt is being tightened on a metal surface. In the background, there is a complex mechanical assembly with various parts, including a yellow component and a blue component. A red banner with white text is overlaid at the top of the image.

IMPACT SOCKETS

TORQUEPLUS™ FOR IMPACT SOCKETS

TORQUEPLUS™ is a fresh look at an old problem in sockets: worn, stripped, and stubborn nuts and bolts. Conventional sockets contact the fasteners near the points of both the fastener and the socket, where they are the weakest. Excessive force on this combination of fastener and socket can cause fastener rounding or cut through the socket wall. The TorquePlus™ design enables sockets to grip the fastener flats, away from the points. Allows up to 15% more torque to be applied safely to the fastener. Reduces the risk of fastener rounding. Improves the ability to turn worn or rounded fasteners.

Rounded Corners.

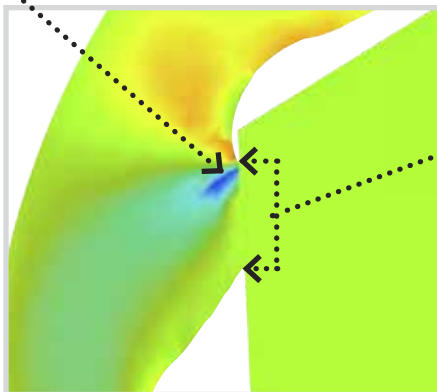


Nearly All Sizes.

Every Proto® socket, except the smallest or largest, have the TorquePlus™ feature.



Blue indicates Stress Point.



Point of Contact.

Stress point has moved away from the tip. Wall of the socket meets with the flat of the fastener for a much wider area of contact.

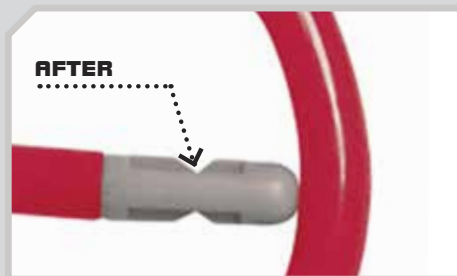


PROTO®

IMPACT SOCKET SAFETY

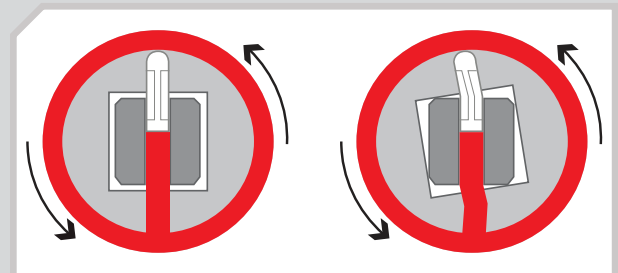
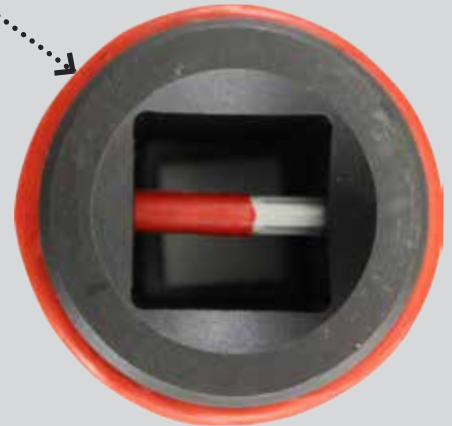


Straight Pin with Smooth Sides.



Bent Pin with Notched Sides.

.....
This is your sign of safety.



RETAINING SAFETY

Properly used, retaining rings hold sockets firmly in place on drive anvils.

- ▶ Always use retaining rings with pneumatic drive anvils and sockets.
- ▶ Install rings correctly to ensure all rotational force stays between the anvil and socket as rings are only intended to support the weight of the socket.
- ▶ Consider using crush gauge rings for added safety.
- ▶ Be sure to inspect both drive anvil and socket carefully before using.

HOW THE CRUSH GAUGE IMPROVES SAFETY

Cracked or worn sockets pose a safety hazard. Our Crush Gauge Ring can indicate wear before there's a catastrophic failure. When a socket is cracked or excessively worn or when an anvil is worn, the drive tool and socket don't rotate tightly together. That action crimps the pin or "crush gauge" on the retaining ring. If that happens, you know to inspect and replace the socket or drive anvil.

RETAINING RINGS

When used correctly, retaining rings improve both the safety and performance of pneumatic impact drivers. Proto® offers three styles.



▶ **Crush Gauge Rings** work like one-piece rings, but they are specially designed to indicate damage or wear on sockets and drive anvils. Fast and reliable, they add an element of safety to your work.

.....
▶ **One-Piece Rings** eliminate having to handle two small parts. They work in much the same way, but the pin is integrated into the ring and installs quickly.



▶ **Traditional Rings** are made in two pieces that include a steel pin and O-ring. To install, slip the pin through the socket and drive anvil and slip the O-ring into the socket groove.

IMPACT SOCKETS

1/4" DRIVE IMPACT SOCKETS - 6 POINT

- ▶ Proto® 6 Point Impact Sockets are ideal for use on stubborn or damaged fasteners, and also on fasteners made from soft materials.
- ▶ Socket size stamped on tool for easy identification.
- ▶ Side locking hole.



- ▶ Radius-corner socket design
- ▶ Engages flats for better grip
- ▶ Improves the ability to turn worn or rounded fasteners

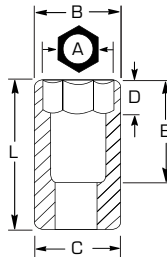
1/4" DRIVE IMPACT SOCKETS

INCH	6	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
3/16	J6906H	5/16	1/2	11/64	1/2	7/8	0.04
7/32	J6907H	11/32	1/2	13/64	1/2	7/8	0.03
1/4	J6908H	25/64	1/2	7/32	1/2	7/8	0.03
9/32	J6909H	7/16	1/2	15/64	1/2	7/8	0.03
5/16	J6910H	1/2	1/2	15/64	1/2	7/8	0.03
11/32	J6911H	33/64	33/64	17/64	1/2	7/8	0.04
3/8	J6912H	9/16	9/16	17/64	1/2	7/8	0.04
7/16	J6914H	21/32	21/32	5/16	1/2	7/8	0.05
1/2	J6916H	45/64	11/16	3/8	1/2	7/8	0.05
9/16	J6918H	51/64	51/64	3/8	1/2	7/8	0.08
5/8	J6920H	7/8	7/8	3/8	1/2	7/8	0.09

ASME B107.110-2012

MM	6	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
4	J6904M	17/64	1/2	5/32	1/2	7/8	0.03
5	J6905M	5/16	1/2	3/16	1/2	7/8	0.04
5.5	J69055M	11/32	1/2	3/16	1/2	7/8	0.04
6	J6906M	25/64	1/2	7/32	1/2	7/8	0.03
7	J6907M	7/16	1/2	7/32	1/2	7/8	0.03
8	J6908M	1/2	1/2	7/32	1/2	7/8	0.04
9	J6909M	33/64	33/64	1/4	1/2	7/8	0.04
10	J6910M	9/16	9/16	1/4	1/2	7/8	0.04
11	J6911M	21/32	21/32	9/32	1/2	7/8	0.05
12	J6912M	11/16	11/16	19/64	1/2	7/8	0.06
13	J6913M	23/32	23/32	5/16	1/2	7/8	0.07
14	J6914M	51/64	51/64	3/8	1/2	7/8	0.08
15	J6915M	53/64	53/64	3/8	1/2	7/8	0.08

ASME B107.110-2012



IMPACT SOCKETS

1/4" DRIVE DEEP IMPACT SOCKETS - 6 POINT

- › Proto® 6 Point Impact Sockets are ideal for use on stubborn or damaged fasteners, and also on fasteners made from soft materials.
- › Socket size stamped on tool for easy identification.
- › Side locking hole.



- › Radius-corner socket design
- › Engages flats for better grip
- › Improves the ability to turn worn or rounded fasteners

INCH	6	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
3/16	J6506H	5/16	1/2	1/4	1-5/8	2	0.08
7/32	J6507H	23/64	1/2	7/64	1-5/8	2	0.08
1/4	J6508H	25/64	1/2	9/32	1-5/8	2	0.08
9/32	J6509H	7/16	1/2	19/64	1-5/8	2	0.08
5/16	J6510H	1/2	1/2	5/16	1-5/8	2	0.07
11/32	J6511H	33/64	33/64	11/32	1-5/8	2	0.07
3/8	J6512H	9/16	9/16	3/8	1-5/8	2	0.09
7/16	J6514H	21/32	21/32	3/8	1-5/8	2	0.12
1/2	J6516H	11/16	11/16	7/16	1-5/8	2	0.12
9/16	J6518H	51/64	51/64	7/16	1-5/8	2	0.15
5/8	J6520H	7/8	7/8	7/16	1-5/8	2	0.12

ASME B107.110-2012

MM	6	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
5	J6505MH	5/16	1/2	1/4	1-5/8	2	0.08
5.5	J6505MH	23/64	1/2	17/64	1-5/8	2	0.09
6	J6506MH	25/64	1/2	9/32	1-5/8	2	0.08
7	J6507MH	7/16	1/2	19/64	1-5/8	2	0.08
8	J6508MH	1/2	1/2	5/16	1-5/8	2	0.07
9	J6509MH	33/64	33/64	5/16	1-5/8	2	0.07
10	J6510MH	9/16	9/16	3/8	1-5/8	2	0.08
11	J6511MH	21/32	21/32	3/8	1-5/8	2	0.11
12	J6512MH	11/16	11/16	13/32	1-5/8	2	0.13
13	J6513MH	23/32	23/32	7/16	1-5/8	2	0.14
14	J6514MH	51/64	51/64	7/16	1-5/8	2	0.18
15	J6515MH	53/64	53/64	7/16	1-5/8	2	0.18

ASME B107.110-2012

1/4" DRIVE IMPACT SOCKETS

6 POINT	8 POINT	12 POINT	SPLINE	HEX	FULL POLISH	SATIN	BLACK OXIDE	INSULATED
---------	---------	----------	--------	-----	-------------	-------	-------------	-----------


IMPACT SOCKETS

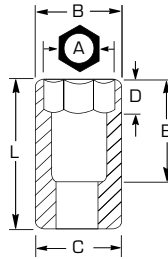
1/4" DRIVE HIGH STRENGTH MAGNETIC POWER SOCKETS - 6 POINT

- ▶ ProtoGrip™ Magnetic Sockets use high strength magnets made from a rare earth magnet alloy/nylon blend.
- ▶ ProtoGrip™ Magnetic Sockets require no bushings to hold the magnet in place. Allows room for more magnet material, helping increase total magnetic strength.
- ▶ Designed to easily pick up heavy fasteners and hold them tightly during use.
- ▶ Strong magnetic hold helps increase efficiency when installing fasteners in awkward or hard-to-reach locations.
- ▶ Size stamped on tool for easy identification.



INCH	6	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Overall Length (in) (L)	Weight (lbs)
3/16	J6906PF	5/16	1/2	5/32	7/8	0.03
1/4	J6908PF	25/64	1/2	11/64	7/8	0.03
5/16	J6910PF	1/2	1/2	13/64	15/16	0.04
11/32	J6911PF	33/64	33/64	7/32	15/16	0.04
3/8	J6912PF	9/16	9/16	15/64	15/16	0.05
7/16	J6914PF	21/32	21/32	1/4	1	0.07
1/2	J6916PF	11/16	11/16	1/4	1	0.08

ASME B107.110-2012 



1/4" DRIVE IMPACT UNIVERSAL JOINT

- ▶ Tight tolerances for snug fit on fastener.
- ▶ Used wherever powered drive tools are used to install or remove fasteners.
- ▶ Designed to withstand the high torque and force associated with impact tools in repetitive application.
- ▶ Features two through holes and a groove to accept a Proto® Retaining Ring or pin and O-ring to help secure the socket to the drive tool anvil.
- ▶ Position at appropriate angle to turn fasteners where obstructions prevent a straight application.
- ▶ Ball and spring design which allows for a 30° working angle.
- ▶ Smooth 360° rotation.



INCH	Product #	Drive End Outside Diameter (in)	Overall Length (in)	Weight (lbs)
1/4	J66170P	5/8	1-3/8	0.27



1/4" DRIVE IMPACT SOCKETS & UNIVERSAL JOINT

IMPACT SOCKETS

3/8" DRIVE IMPACT SOCKETS - 6 POINT

- ▶ Proto® 6 Point Impact Sockets are ideal for use on stubborn or damaged fasteners, and also on fasteners made from soft materials.
- ▶ Size stamped on tool for easy identification.
- ▶ Side locking hole.



- ▶ Radius-corner socket design
- ▶ Engages flats for better grip
- ▶ Improves the ability to turn worn or rounded fasteners



INCH	6	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
1/4	J7208H	7/16	11/16	9/32	19/32	1-3/32	0.07
9/32	J7209H	31/64	11/16	5/16	19/32	1-3/32	0.07
5/16	J7210H	1/2	11/16	5/16	19/32	1-3/32	0.07
11/32	J7211H	35/64	11/16	3/8	19/32	1-3/32	0.07
3/8	J7212H	19/32	11/16	3/8	19/32	1-3/32	0.07
7/16	J7214H	11/16	11/16	3/8	19/32	1-3/32	0.06
1/2	J7216H	3/4	3/4	3/8	19/32	1-3/32	0.08
9/16	J7218H	13/16	13/16	9/16	19/32	1-3/32	0.11
5/8	J7220H	29/32	29/32	9/16	19/32	1-3/32	0.12
11/16	J7222H	1	1	9/16	19/32	1-3/32	0.15
3/4	J7224H	1-1/16	1-1/16	17/32	19/32	1-3/32	0.16
13/16	J7226H	1-3/16	1-13/64	11/16	23/32	1-7/32	0.24
7/8	J7228H	1-9/32	1-9/32	11/16	23/32	1-7/32	0.26
15/16	J7230H	1-23/64	1-23/64	51/64	27/32	1-11/32	0.35
1	J7232H	1-1/2	1-1/2	51/64	27/32	1-11/32	0.42

ASME B107.110-2012



MM	6	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
6	J7206M	27/64	11/16	7/32	27/64	59/64	0.06
7	J7207M	31/64	11/16	15/64	27/64	59/64	0.06
8	J7208M	33/64	11/16	5/16	17/32	1-1/32	0.06
9	J7209M	37/64	11/16	11/32	17/32	1-1/32	0.06
10	J7210M	11/16	11/16	3/8	17/32	1-1/32	0.06
11	J7211M	11/16	11/16	13/32	17/32	1-1/32	0.06
12	J7212M	23/32	23/32	7/16	17/32	1-1/32	0.07
13	J7213M	3/4	3/4	7/16	17/32	1-3/32	0.08
14	J7214M	13/16	13/16	9/16	19/32	1-3/32	0.09
15	J7215M	55/64	55/64	9/16	19/32	1-3/32	0.10
16	J7216M	29/32	29/32	9/16	19/32	1-3/32	0.12
17	J7217M	1	1	9/16	19/32	1-3/32	0.15
18	J7218M	1-1/32	1-1/32	9/16	19/32	1-3/32	0.16
19	J7219M	1-1/16	1-1/16	17/32	19/32	1-3/32	0.15
20	J7220M	1-7/64	1-7/64	17/32	19/32	1-3/32	0.18
21	J7221M	1-5/32	1-5/32	17/32	19/32	1-3/32	0.19
22	J7222M	1-13/64	1-13/64	17/32	19/32	1-3/32	0.20
23	J7223M	1-1/4	1-1/4	17/32	19/32	1-3/32	0.26
24	J7224M	1-19/64	1-19/64	17/32	19/32	1-3/32	0.27

ASME B107.110-2012



6 POINT	8 POINT	12 POINT	SPL SPLINE	HEX HEX	FULL POLISH	SATIN	BLACK OXIDE	INSULATED
---------	---------	----------	------------	---------	-------------	-------	-------------	-----------

IMPACT SOCKETS

3/8" DRIVE DEEP IMPACT SOCKETS - 6 POINT

- ▶ Proto® 6 Point Impact Sockets are ideal for use on stubborn or damaged fasteners, and also on fasteners made from soft materials.
- ▶ Socket size stamped on tool for easy identification.
- ▶ Side locking hole.



- ▶ Radius-corner socket design
- ▶ Engages flats for better grip
- ▶ Improves the ability to turn worn or rounded fasteners

3/8" DRIVE IMPACT SOCKETS

INCH	6	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
1/4	J7708H	7/16	11/16	9/32	2-1/4	2-3/4	0.21
9/32	J7709H	31/64	11/16	5/16	2-1/4	2-3/4	0.18
5/16	J7710H	33/64	11/16	21/64	2-1/4	2-3/4	0.20
11/32	J7711H	35/64	11/16	11/32	2-1/4	2-3/4	0.19
3/8	J7712H	19/32	11/16	3/8	2-1/4	2-3/4	0.19
7/16	J7714H	11/16	11/16	27/64	2-1/4	2-3/4	0.17
1/2	J7716H	3/4	3/4	15/32	2-1/4	2-3/4	0.21
9/16	J7718H	13/16	13/16	11/16	2-1/4	2-3/4	0.22
5/8	J7720H	29/32	29/32	11/16	2-1/4	2-3/4	0.29
11/16	J7722H	1	1	11/16	2-1/4	2-3/4	0.34
3/4	J7724H	1-1/16	1-1/16	43/64	2-1/4	2-3/4	0.38
13/16	J7726H	1-13/64	1-13/64	13/16	2-1/8	2-3/4	0.53
7/8	J7728H	1-9/32	1-9/32	13/16	2-1/8	2-3/4	0.59
15/16	J7730H	1-23/64	1-23/64	13/16	2-1/8	2-3/4	0.66
1	J7732H	1-1/2	1-1/2	13/16	2-1/8	2-3/4	0.85

ASME B107.110-2012

MM	6	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
6	J7006M	27/64	11/16	9/32	2-1/4	2-3/4	0.19
7	J7007M	31/64	11/16	5/16	2-1/4	2-3/4	0.20
8	J7008M	33/64	11/16	5/16	2-1/4	2-3/4	0.19
9	J7009M	37/64	11/16	3/8	2-1/4	2-3/4	0.20
10	J7010M	5/8	11/16	3/8	2-1/4	2-3/4	0.19
11	J7011M	11/16	11/16	13/32	2-1/4	2-3/4	0.18
12	J7012M	3/4	3/4	7/16	2-1/4	2-3/4	0.20
13	J7013M	3/4	3/4	15/32	2-1/4	2-3/4	0.22
14	J7014M	13/16	13/16	1/2	2-1/4	2-3/4	0.22
15	J7015M	55/64	55/64	11/16	2-1/4	2-3/4	0.25
16	J7016M	29/32	29/32	11/16	2-1/4	2-3/4	0.29
17	J7017M	1	1	11/16	2-1/4	2-3/4	0.37
18	J7018M	1-1/32	1-1/32	11/16	2-1/4	2-3/4	0.38
19	J7019M	1-1/16	1-1/16	11/16	2-1/4	2-3/4	0.38
20	J7020M	1-7/64	1-7/64	25/32	2-1/4	2-3/4	0.42
21	J7021M	1-5/32	1-5/32	25/32	2-1/4	2-3/4	0.46
22	J7022M	1-13/64	1-13/64	51/64	2-1/4	2-3/4	0.49
23	J7023M	1-1/4	1-1/4	51/64	2-1/4	2-3/4	0.53
24	J7024M	1-19/64	1-19/64	59/64	2-1/4	2-3/4	0.58

ASME B107.110-2012

IMPACT SOCKETS

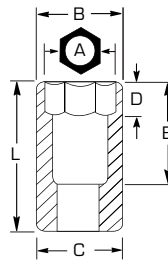
3/8" DRIVE HIGH STRENGTH MAGNETIC POWER SOCKETS - 6 POINT

- › ProtoGrip™ Magnetic Sockets use high strength magnets made from a rare earth magnet alloy/nylon blend.
- › ProtoGrip™ Magnetic Sockets require no bushings to hold the magnet in place. This allows room for more magnet material, helping increase total magnetic strength.
- › Designed to easily pick up heavy fasteners and hold them tightly during use.
- › Strong magnetic hold helps increase efficiency when installing fasteners in awkward or hard-to-reach locations.
- › Impact sockets with high impact strength are used in automated and hand impact socket applications.
- › Socket size stamped on tool for easy identification.
- › Side locking hole.



INCH	6	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Overall Length (in) (L)	Weight (lbs)
5/16	J7210PF	1/2	11/16	3/16	1-3/32	0.08
3/8	J7212PF	39/64	11/16	15/64	1-3/32	0.09
7/16	J7214PF	11/16	11/16	1/4	1-3/16	0.08
1/2	J7216PF	3/4	3/4	9/32	1-3/16	0.10
9/16	J7218PF	13/16	13/16	21/64	1-3/16	0.11

ASME B107.110-2012



3/8" DRIVE IMPACT HEX BIT SOCKETS

- › Proto® Hex Bit Impact Sockets can be used on stubborn fasteners.
- › Tight tolerances for snug fit on fastener.
- › Hex bit impact sockets are used wherever powered drive tools are used to install or remove fasteners.
- › Hex bit impact sockets are designed to withstand the high torque and force associated with impact tools in repetitive application.
- › Side locking hole.



INCH	HEX	Bit Length (in)	Overall Length (in)	Weight (lbs)
1/8	J72901/8	1-5/8	2-23/32	0.07
5/32	J72905/32	1-5/8	2-23/32	0.08
3/16	J72903/16	1-5/8	2-23/32	0.08
7/32	J72907/32	1-5/8	2-23/32	0.09
1/4	J72901/4	1-5/8	2-23/32	0.10
5/16	J72905/16	1-5/8	2-23/32	0.13
3/8	J72903/8	1-5/8	2-23/32	0.14

MM	HEX	Bit Length (in)	Overall Length (in)	Weight (lbs)
4	J7290-4M	1-5/8	2-23/32	0.07
5	J7290-5M	1-5/8	2-23/32	0.08
6	J7290-6M	1-5/8	2-23/32	0.09
8	J7290-8M	1-5/8	2-23/32	0.12
10	J7290-10M	1-5/8	2-23/32	0.14

6 POINT
 8 POINT
 12 POINT
 SPL SPLINE
 HEX
 FULL POLISH
 SATIN
 BLACK OXIDE
 INSULATED


IMPACT SOCKETS

3/8" DRIVE IMPACT UNIVERSAL JOINT

- › Tight tolerances for snug fit on fastener.
- › Used wherever powered drive tools are used to install or remove fasteners.
- › Designed to withstand the high torque and force associated with impact tools in repetitive application.
- › Features two through holes and a groove to accept a Proto® Retaining Ring or pin and O-ring to help secure the socket to the drive tool anvil.
- › Position at appropriate angle to turn fasteners where obstructions prevent a straight application.
- › Ball and spring design which allows for a 30° working angle.
- › Smooth 360° rotation.



INCH	Product #	Drive End Outside Diameter (in)	Overall Length (in)	Weight (lbs)
3/8	J77270P	15/16	2-1/32	0.21


ASME B107.110-2012 

3/8" DRIVE IMPACT ADAPTERS

- › Use adapters to help increase or decrease drive end size.
- › Do not use hand adapters with power tools.
- › Do not over torque small sockets when using them with adapters on large drive tools.
- › Size stamped on tool for easy identification.
- › Side locking hole.



INCH	Size (in)	Overall Length (in)	Weight (lbs)
J7653	3/4" F x 1/2" M	2-1/16	0.48
J7650	3/8" F x 1/2" M	1-5/16	0.13
J7651	1/2" F x 3/8" M	1-7/16	0.12


ASME B107.110-2012 

3/8" DRIVE IMPACT EXTENSIONS

- › Use extensions to gain access to fasteners in locations that would otherwise be difficult to reach.
- › Male square is oriented in line with female squares for use with fixed head torque wrenches.
- › Full chamfer at drive opening (when applicable) for easy engagement with drive tools.
- › Drive end chamfer and four detents help provide quick positive engagement with drive tool on any of the socket drive walls.
- › Size stamped on tool for easy identification.
- › Side locking hole.



Product #	Overall Length (in)	Weight (lbs)
J7175P	3	0.16
J7176P	6	0.32
J7178P	12	0.64

ASME B107.110-2012 

3/8" DRIVE IMPACT UNIVERSAL JOINT, ADAPTERS & EXTENSIONS

IMPACT SOCKETS

3/8" DRIVE IMPACT LOCKING EXTENSIONS

- ▶ Black oxide finish.
- ▶ Easy operating spring loaded locking mechanism.

Product #	Overall Length (in)	Weight (lbs)
J7203L	3	0.25
J7206L	6	0.41
J7212L	12	0.75



3/8" DRIVE HAND IMPACT DRIVER

- ▶ Designed to loosen hard to turn bolts and screws.
- ▶ Heavy-Duty spring for added torque.

Product #	Overall Length (in)	Weight (lbs)
J7099	5-1/2	1.68



3/8" DRIVE RETAINING RINGS

- ▶ Proto® 3/8" Drive Retaining Rings have a one-piece, without a crush gauge.



Product #	Description	For Groove Dia. (in)	Diameter (in)	Height (in)	Weight (lbs)
JRR37560	Retaining Ring, 3/8" DR 600 GRV	19/32	11/16	1/16	0.01
JRR37567	Retaining Ring, 3/8" DR 670 GRV	43/64	3/4	1/16	0.01
JRR37575	Retaining Ring, 3/8" DR 750 GRV	3/4	13/16	1/16	0.01
JRR37582	Retaining Ring, 3/8" DR 820 GRV	13/64	7/8	1/16	0.01
JRR37595	Retaining Ring, 3/8" DR 950 GRV	61/64	1	1/16	0.01
JRR37511	Retaining Ring, 3/8" DR 1100 GRV	1-3/32	1-3/16	1/16	0.01
JRR37512	Retaining Ring, 3/8" DR 1200 GRV	1-3/16	1-1/4	1/16	0.01

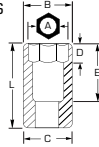
3/8" DRIVE IMPACT EXTENSIONS, HAND IMPACT DRIVER & RETAINING RINGS



IMPACT SOCKETS

1/2" DRIVE IMPACT SOCKETS

- Proto® 6 Point Impact Sockets are ideal for use on stubborn or damaged fasteners, and also on fasteners made from soft materials.



- Radius-corner socket design
- Engages flats for better grip
- Improves the ability to turn worn or rounded fasteners

1/2" DRIVE IMPACT SOCKETS

INCH	6	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
3/8	J7412H	J7412	41/64	15/16	11/32	27/32	1-1/2	0.17
7/16	J7414H	J7414	23/32	15/16	13/32	27/32	1-1/2	0.18
1/2	J7416H	J7416	51/64	15/16	13/32	27/32	1-1/2	0.18
9/16	J7418H	J7418	7/8	15/16	7/16	27/32	1-1/2	0.18
5/8	J7420H	J7420	1	1	1/2	27/32	1-1/2	0.20
11/16	J7422H	J7422	1-1/32	1-1/32	1/2	27/32	1-1/2	0.22
3/4	J7424H	J7424	1-7/64	1-7/64	51/64	27/32	1-1/2	0.24
13/16	J7426H	J7426	1-13/64	1-13/64	11/16	31/32	1-5/8	0.31
7/8	J7428H	J7428	1-17/64	1-9/32	43/64	31/32	1-5/8	0.34
15/16	J7430H	J7430	1-23/64	1-23/64	51/64	1-3/32	1-3/4	0.44
1	J7432H	J7432	1-1/2	1-1/2	25/32	1-3/32	1-3/4	0.55
1-1/16	J7434H	J7434	1-33/64	1-33/64	25/32	1-3/32	1-3/4	0.53
1-1/8	J7436H	J7436	1-19/32	1-19/32	25/32	1-1/32	2	0.65
1-3/16	J7438H	J7438	1-19/32	1-19/32	3/4	1-1/64	2	0.85
1-1/4	J7440H	J7440	1-3/4	1-3/4	3/4	1-3/4	2	0.78
1-5/16	J7442H	J7442	1-3/4	1-3/4	13/16	63/64	2	0.73
1-3/8	J7444H	J7444	1-51/64	1-5/8	15/16	1-3/32	2-1/8	0.72
1-7/16	J7446H	J7446	1-59/64	1-5/8	1	1-37/64	2-15/64	0.87
1-1/2	J7448H	J7448	2	1-5/8	1	1-37/64	2-15/64	1.03
1-9/16	J7450H	-	2-1/32	1-5/8	1	1-1/2	2-1/4	1.16

SAE AS4984A ASME B107.110-2012

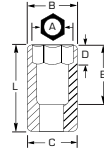
MM	6	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
8	J7408M°	-	37/64	15/16	9/32	27/32	1-1/2	0.18
9	J7409M°	-	41/64	15/16	3/8	27/32	1-1/2	0.18
10	J7410M°	J7410MT	43/64	15/16	3/8	27/32	1-1/2	0.18
11	J7411M°	J7411MT	23/32	15/16	3/8	27/32	1-1/2	0.18
12	J7412M°	J7412MT	51/64	15/16	13/32	27/32	1-1/2	0.17
13	J7413M°	J7413MT	51/64	15/16	7/16	27/32	1-1/2	0.16
14	J7414M°	J7414MT	7/8	15/16	15/32	27/32	1-1/2	0.18
15	J7415M°	J7415MT	15/16	15/16	1/2	27/32	1-1/2	0.18
16	J7416M°	J7416MT	1	1	17/32	27/32	1-1/2	0.20
17	J7417M°	J7417MT	1-1/32	1-1/32	9/16	27/32	1-1/2	0.22
18	J7418M°	J7418MT	1-1/8	1-1/8	51/64	27/32	1-1/2	0.27
19	J7419M°	J7419MT	1-7/64	1-7/64	47/64	27/32	1-1/2	0.25
20	J7420M°	J7420MT	1-5/32	1-5/32	11/16	31/32	1-5/8	0.30
21	J7421M°	J7421MT	1-13/64	1-13/64	43/64	31/32	1-5/8	0.30
22	J7422M°	J7422MT	1-9/32	1-9/32	43/64	31/32	1-5/8	0.36
23	J7423M°	J7423MT	1-3/8	1-3/8	43/64	31/32	1-5/8	0.39
24	J7424M°	J7424MT	1-23/64	1-23/64	43/64	31/32	1-5/8	0.43
25	J7425M°	-	1-3/8	1-3/8	51/64	1-3/32	1-3/4	0.48
26	J7426M°	-	1-1/2	1-1/2	1-1/32	1-11/32	2	0.54
27	J7427M°	-	1-1/2	1-1/2	1-1/32	1-11/32	2	0.62
28	J7428M°	-	1-5/8	1-5/8	1-1/32	1-11/32	2	0.72
29	J7429M°	-	1-5/8	1-5/8	1-1/64	1-11/32	2	0.67
30	J7430M°	J7430MT	1-33/64	1-33/64	25/32	1-3/32	2	0.82
31	J7431M°	-	1-33/64	1-33/64	51/64	1-3/32	2	0.83
32	J7432M°	J7432MT	1-33/64	1-33/64	51/64	1-3/32	2	0.75
33	J7433M°	-	1-27/32	1-27/32	1-1/64	1-9/32	2	0.95
34	J7434M°	-	1-29/32	1-29/32	1-1/64	1-9/32	2	1.00
36	J7436M°	-	2-1/64	2-1/64	1-3/16	1-11/32	2	0.89
38	J7438M°	-	2-5/32	2-5/32	1-3/16	1-11/32	2-3/8	0.96
41	J7441M°	-	2-19/64	2-19/64	1-21/64	1-17/32	2-3/8	1.20
46	J7446M°	-	2-3/8	2-3/8	63/64	1-17/32	2-7/16	1.24

*SAE AS4984A ASME B107.110-2012

IMPACT SOCKETS

1/2" DRIVE DEEP IMPACT SOCKETS

- ▶ Proto® 6 Point Impact Sockets are ideal for use on stubborn or damaged fasteners, and also on fasteners made from soft materials.
- ▶ Socket size stamped on tool for easy identification.
- ▶ Side locking hole.



- ▶ Radius-corner socket design
- ▶ Engages flats for better grip
- ▶ Improves the ability to turn worn or rounded fasteners

INCH	6	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
3/8	J7312H	J7312	19/32	15/16	15/16	2-5/8	3-1/4	0.42
7/16	J7314H	J7314	23/32	15/16	11/32	1-5/8	3-1/4	0.44
1/2	J7316H*	J7316	1-25/32	15/16	7/16	1-5/8	3-1/4	0.43
9/16	J7318H	J7318	7/8	15/16	1/2	1-5/8	3-1/4	0.41
5/8	J7320H	J7320	1	1	9/16	1-5/8	3-1/4	0.44
11/16	J7322H*	J7322	1-1/32	1-1/32	5/8	2-5/8	3-1/4	0.47
3/4	J7324H	J7324	1-7/64	1-1/8	1-5/32	2-5/8	3-1/4	0.53
13/16	J7326H*	J7326	1-3/16	1-3/16	1-5/32	2-5/8	3-1/4	0.62
7/8	J7328H	J7328	1-19/64	1-9/32	1-13/32	2-7/8	3-1/2	0.78
15/16	J7330H*	J7330	1-3/8	1-3/8	1-13/32	2-7/8	3-1/2	0.86
1	J7332H*	J7332	1-1/2	1-1/2	1-13/32	2-7/8	3-1/2	1.02
1-1/16	J7334H*	J7334	1-1/2	1-33/64	1-17/32	2-7/8	3-1/2	1.11
1-1/8	J7336H	J7336	1-5/8	1-5/8	1-13/32	2-7/8	3-1/2	1.20
1-3/16	J7338H	J7338	1-13/16	1-21/32	1-1/64	2-7/8	3-1/2	1.47
1-1/4	J7340H*	J7340	1-13/16	1-21/32	1-1/64	2-7/8	3-1/2	1.39
1-5/16	J7342H	J7342	1-7/8	1-21/32	1-1/16	2-7/8	3-1/2	1.41
1-3/8	J7344H	J7344	1-7/8	1-21/32	1-7/64	2-7/8	3-1/2	1.31
1-7/16	J7346H*	J7346	2-1/16	1-21/32	1-5/32	2-7/8	3-1/2	1.67
1-1/2	J7348H	J7348	2-1/16	1-21/32	1-13/64	2-7/8	3-1/2	1.50
1-9/16	J7350H	-	2	1-5/8	1-1/4	1-1/4	3-1/2	1.80

*SAE AS4984A ASME B107.110-2012

MM	6	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)
8	J7308M	37/64	7/8	5/16	2-19/32	3-1/4	0.37
9	J7309M	19/32	7/8	3/8	2-19/32	3-1/4	0.36
10	J7310M	41/64	15/16	7/16	2-19/32	3-1/4	0.43
11	J7311M	45/64	15/16	7/16	2-19/32	3-1/4	0.43
12	J7312M*	47/64	15/16	1/2	2-19/32	3-1/4	0.43
13	J7313M*	25/32	15/16	1/2	2-19/32	3-1/4	0.42
14	J7314M*	55/64	15/16	1/2	2-19/32	3-1/4	0.40
15	J7315M*	15/16	1	37/64	2-19/32	3-1/4	0.40
16	J7316M*	1	1-1/32	19/32	2-19/32	3-1/4	0.46
17	J7317M*	1-1/32	1-1/16	5/8	2-19/32	3-1/4	0.45
18	J7318M*	1-1/16	1-1/16	43/64	2-19/32	3-1/4	0.49
19	J7319M*	1-7/64	1-7/64	1-5/32	2-19/32	3-1/4	0.52
20	J7320M	1-5/32	1-5/32	1-5/32	2-19/32	3-1/4	0.55
21	J7321M*	1-13/64	1-13/64	1-13/32	2-19/32	3-1/4	0.66
22	J7322M*	1-9/32	1-9/32	1-13/32	2-27/32	3-1/2	0.75
23	J7323M	1-19/64	1-19/64	1-13/32	2-27/32	3-1/2	0.75
24	J7324M*	1-23/64	1-23/64	1-13/32	2-27/32	3-1/2	0.81
25	J7325M*	1-7/16	1-7/16	1-13/32	2-27/32	3-1/2	0.92
26	J7326M	1-1/2	1-1/2	1-13/32	2-27/32	3-1/2	1.03
27	J7327M	1-9/16	1-9/16	1-13/32	2-27/32	3-1/2	1.14
28	J7328M	1-5/8	1-5/8	1-13/32	2-27/32	3-1/2	1.20
29	J7329M	1-5/8	1-5/8	1-33/64	2-27/32	3-1/2	1.16
30	J7330M	1-11/16	1-11/16	1-13/32	2-27/32	3-1/2	1.53
32	J7332M	1-25/32	1-25/32	1-13/64	2-27/32	3-1/2	1.32
33	J7333M	1-55/64	1-55/64	1-25/64	2-27/32	3-1/2	1.48
34	J7334M	1-15/16	1-15/16	1-25/64	2-27/32	3-1/2	1.50
35	J7335M	2-1/16	2-1/16	1-25/64	2-27/32	3-1/2	1.61
36	J7336M	2-1/16	2-1/16	1-25/64	2-27/32	3-1/2	1.63

*SAE AS4984A ASME B107.110-2012




1/2" DRIVE IMPACT SOCKETS

IMPACT SOCKETS

1/2" DRIVE IMPACT UNIVERSAL JOINT

- › Tight tolerances for snug fit on fastener.
- › Used wherever powered drive tools are used to install or remove fasteners.
- › Designed to withstand the high torque and force associated with impact tools in repetitive application.
- › Position at appropriate angle to turn fasteners where obstructions prevent a straight application.
- › Ball and spring design which allows for a 30° working angle.
- › Smooth 360° rotation.

Product #	Overall Length (in)	Weight (lbs)
J74470P	2-19/32	0.57


ASME B107.110-2012 



1/2" DRIVE IMPACT HEX BIT SOCKETS

- › Proto® Hex Bit Impact Sockets can be used on stubborn fasteners.
- › Tight tolerances for snug fit on fastener.
- › Hex bit impact sockets are used wherever powered drive tools are used to install or remove fasteners.
- › Hex bit impact sockets are designed to withstand the high torque and force associated with impact tools in repetitive application.
- › Side locking hole.

INCH	HEX	Bit Length (in)	Overall Length (in)	Weight (lbs)
1/4	J74411/4	1-3/4	3-1/4	0.18
5/16	J74415/16	1-3/4	3-1/4	0.22
3/8	J74413/8	1-3/4	3-1/4	0.24
7/16	J74417/16	1-3/4	3-1/4	0.27
1/2	J74411/2	1-7/8	3-5/8	0.47
9/16	J74419/16	1-7/8	3-5/8	0.49
5/8	J74415/8	2	4	0.84






1/2" DRIVE ADAPTERS

- › Use adapters to help increase or decrease drive end size.
- › Do not use hand adapters with power tools.
- › Do not over torque small sockets when using them with adapters on large drive tools.
- › Size stamped on tool for easy identification.
- › Side locking hole.

Product #	INCH	Overall Length (in)	Weight (lbs)
J7650	3/8" F x 1/2" M	1-5/16	0.13
J7651	1/2" F x 3/8" M	1-7/16	0.12
J7652	1/2" F x 3/4" M	1-29/32	0.35
J7653	3/4" F x 1/2" M	2-1/16	0.48
J7655	5/8" F x 1/2" M	1-53/64	0.34

ASME B107.110-2012 




1/2" DRIVE IMPACT UNIVERSAL JOINT,
HEX BIT SOCKETS & ADAPTERS

1/2" DRIVE IMPACT EXTENSIONS

- › Use extensions to gain access to fasteners in locations that would otherwise be difficult to reach.
- › Male square is oriented in-line with female squares for use with fixed head torque wrenches.
- › Full chamfer at drive opening (when applicable) for easy engagement with drive tools.
- › Drive end chamfer and four detents help provide quick positive engagement with drive tool on any of the socket drive walls.
- › Size stamped on tool for easy identification.
- › Side locking hole.



Product #	Overall Length (in)	Weight (lbs)
J7180P	2	0.19
J7182P	3	0.30
J7181P	5	0.47
J7184P	9	0.89
J7183-00	10	0.89

ASME B107.110-2012 

1/2" DRIVE LOCKING EXTENSIONS

- › Solid one-piece design helps prevent the locking components from becoming loose or disengaged.
- › Patented locking feature locks sockets to the extension with exceptional force.
- › Knurled shank provides a slip-resistant grip when hand-turning the extension.

Product #	Overall Length (in)	Weight (lbs)
J7503	3	0.34
J7505	5	0.57
J7510	10	1.04











1/2" DRIVE RETAINING RINGS

- › Retaining Rings are used to help secure sockets onto drive tools.
- › They are not intended to bear any load.
- › The rotational forces are between the drive tool and the socket.
- › One-piece construction, no loose parts.



Product #	Description	For Groove Dia. (in)	Diameter (in)	Height (in)	Weight (lbs)
JRR50080	Retaining Ring, 1/2" DR 800 GRV	51/64	15/16	1/8	0.01
JRR50087	Retaining Ring, 1/2" DR 870 GRV	7/8	1	1/8	0.01
JRR50095	Retaining Ring, 1/2" DR 950 GRV	61/64	1-1/16	1/8	0.01
JRR50105	Retaining Ring, 1/2" DR 1050 GRV	1-1/16	1-3/16	1/8	0.01
JRR50115	Retaining Ring, 1/2" DR 1150 GRV	1-5/32	1-1/4	1/8	0.01
JRR50130	Retaining Ring, 1/2" DR 1300 GRV	1-5/16	1-7/16	1/8	0.01
JRR50145	Retaining Ring, 1/2" DR 1450 GRV	1-7/16	1-9/16	1/8	0.01
JRR50160	Retaining Ring, 1/2" DR 1600 GRV	1-19/32	1-3/4	1/8	0.01



 6 POINT
  8 POINT
  12 POINT
  SPL SPLINE
  HEX HEX
  FULL POLISH
  SATIN
  BLACK OXIDE
  INSULATED

IMPACT SOCKETS

3/4" DRIVE IMPACT SOCKETS

- › Proto® 6 Point Impact Sockets are ideal for use on stubborn or damaged fasteners, and also on fasteners made from soft materials.
- › Stamped size for easy reference.
- › Side locking hole.

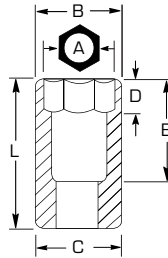


- › Radius-corner socket design
- › Engages flats for better grip
- › Improves the ability to turn worn or rounded fasteners

3/4" DRIVE IMPACT SOCKETS

INCH	6	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)	Crush Retaining Ring	O-Ring	Retaining Pin
9/16	J07509	J07509T	1	1-5/8	23/64	15/16	1-7/8	0.72	JRR07523	J07500R	J07500P
5/8	J07510	J07510T	1-3/32	1-5/8	25/64	15/16	1-7/8	0.69	JRR07523	J07500R	J07500P
11/16	J07511	J07511T	1-5/32	1-5/8	7/16	1	1-15/16	0.72	JRR07523	J07500R	J07500P
3/4	J07512	J07512T	1-15/64	1-5/8	15/32	1	1-15/16	0.70	JRR07523	J07500R	J07500P
13/16	J07513	J07513T	1-5/16	1-5/8	1/2	1	1-15/16	0.67	JRR07523	J07500R	J07500P
7/8	J07514	J07514T	1-1/2	1-5/8	35/64	1-1/16	2	0.73	JRR07523	J07500R	J07500P
15/16	J07515	J07515T	1-5/8	1-5/8	37/64	1-1/16	2	0.78	JRR07523	J07500R	J07500P
1	J07516	J07516T	1-5/8	1-5/8	5/8	1-1/8	2-1/16	0.73	JRR07523	J07500R	J07500P
1-1/16	J07517	J07517T	1-5/8	1-5/8	21/32	1-1/8	2-1/16	0.81	JRR07523	J07500R	J07500P
1-1/8	J07518	J07518T	1-3/4	1-3/4	45/64	1-1/4	2-3/16	0.91	JRR07526	J07500R	J07500P
1-3/16	J07519	J07519T	1-7/8	1-3/4	47/64	1-1/4	2-3/16	1.02	JRR07526	J07500R	J07500P
1-1/4	J07520	J07520T	2	1-3/4	3/4	1-1/4	2-3/16	1.10	JRR07526	J07500R	J07500P
1-5/16	J07521	J07521T	2-1/8	1-3/4	27/32	1-1/4	2-3/16	1.19	JRR07526	J07500R	J07500P
1-3/8	J07522	J07522T	2-1/8	1-3/4	13/16	1-3/16	2-1/4	1.18	JRR07526	J07500R	J07500P
1-7/16	J07523	J07523T	2-1/4	1-3/4	7/8	1-3/8	2-5/16	1.29	JRR07526	J07500R	J07500P
1-1/2	J07524	J07524T	2-3/8	1-3/4	1	1-7/16	2-3/8	1.43	JRR07526	J07500R	J07500P
1-9/16	J07525	J07525T	2-3/8	1-3/4	1	1-1/2	2-7/16	1.57	JRR07526	J07500R	J07500P
1-5/8	J07526	J07526T	2-3/8	1-3/4	1	1-1/2	2-7/16	1.60	JRR07526	J07500R	J07500P
1-11/16	J07527	J07527T	2-39/64	1-3/4	1-1/8	1-11/16	2-5/8	1.78	JRR07526	J07500R	J07500P
1-3/4	J07528	J07528T	2-39/64	1-3/4	1-1/8	1-11/16	2-5/8	1.83	JRR07526	J07500R	J07500P
1-13/16	J07529	J07529T	2-3/4	1-3/4	1-1/8	1-11/16	2-5/8	1.92	JRR07526	J07500R	J07500P
1-7/8	J07530	J07530T	2-3/4	1-3/4	1-1/4	1-7/8	2-13/16	2.19	JRR07526	J07500R	J07500P
1-15/16	J07531	J07531T	2-7/8	1-3/4	1-1/4	1-7/8	2-13/16	2.28	JRR07526	J07500R	J07500P
2	J07532	J07532T	3	1-3/4	1-1/4	1-7/8	2-13/16	2.30	JRR07526	J07500R	J07500P
2-1/16	J07533	J07533T	3	1-3/4	1-3/8	2-5/32	3-3/32	2.66	JRR07526	J07500R	J07500P
2-1/8	J07534	J07534T	3-1/8	1-3/4	1-3/8	2-5/32	3-3/32	2.79	JRR07526	J07500R	J07500P
2-3/16	J07535	J07535T	3-1/4	1-3/4	1-3/8	2-3/16	3-1/8	3.25	JRR07526	J07500R	J07500P
2-1/4	J07536	J07536T	3-5/16	1-3/4	1-1/2	2-5/16	3-1/4	3.17	JRR07526	J07500R	J07500P
2-5/16	J07537	-	3-9/32	1-3/4	1-1/2	1-15/16	3-5/16	3.21	JRR07526	J07500R	J07500P
2-3/8	J07538	J07538T	3-1/2	1-3/4	1-1/2	2-7/16	3-3/8	3.45	JRR07526	J07500R	J07500P

ASME B107.110-2012



IMPACT SOCKETS

3/4" DRIVE IMPACT SOCKETS (CONT'D)



- ▶ Radius-corner socket design
- ▶ Engages flats for better grip
- ▶ Improves the ability to turn worn or rounded fasteners



MM	6	12	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Clearence Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)	Crush Retaining Ring	O-Ring	Retaining Pin
17	J07517M	J07517MT	1-5/32	1-5/8	27/64	63/64	1-59/64	0.68	JRR07523	J07500R	J07500P
19	J07519M	J07519MT	1-13/64	1-5/8	15/32	63/64	1-59/64	0.70	JRR07523	J07500R	J07500P
20	J07520M	J07520MT	1-19/64	1-5/8	9/16	63/64	1-59/64	0.70	JRR07523	J07500R	J07500P
21	J07521M	J07521MT	1-23/64	1-5/8	5/8	59/64	1-59/64	0.70	JRR07523	J07500R	J07500P
22	J07522M	J07522MT	1-27/64	1-5/8	11/16	1-1/16	2	0.79	JRR07523	J07500R	J07500P
23	J07523M	J07523MT	1-5/8	1-5/8	11/16	1-1/16	2	0.80	JRR07523	J07500R	J07500P
24	J07524M	J07524MT	1-5/8	1-5/8	19/32	1-1/16	2	0.73	JRR07523	J07500R	J07500P
25	J07525M	J07525MT	1-5/8	1-5/8	11/16	1-1/16	2	0.76	JRR07523	J07500R	J07500P
26	J07526M	J07526MT	1-5/8	1-5/8	3/4	1-1/8	2-1/16	0.77	JRR07523	J07500R	J07500P
27	J07527M	J07527MT	1-5/8	1-5/8	13/16	1-1/8	2-1/16	0.74	JRR07523	J07500R	J07500P
28	J07528M	J07528MT	1-5/8	1-5/8	45/64	1-1/8	2-1/16	0.72	JRR07523	J07500R	J07500P
29	J07529M	J07529MT	45.4	1-5/8	19.7	1-1/8	2-3/16	1.01	JRR07523	J07500R	J07500P
30	J07530M	J07530MT	1-7/8	1-3/4	59/64	1-7/32	2-3/16	1.01	JRR07526	J07500R	J07500P
31	J07531M	J07531MT	1-7/8	1-3/4	7/8	1-1/8	2-3/16	0.99	JRR07526	J07500R	J07500P
32	J07532M	J07532MT	2	1-3/4	7/8	1-9/64	2-3/16	1.13	JRR07526	J07500R	J07500P
33	J07533M	J07533MT	2	1-3/4	7/8	1-3/16	2-3/16	1.08	JRR07526	J07500R	J07500P
34	J07534M	J07534MT	2-1/8	1-3/4	15/16	1-3/16	2-1/4	1.18	JRR07526	J07500R	J07500P
35	J07535M	J07535MT	2-1/8	1-3/4	15/16	1-5/16	2-1/4	1.18	JRR07526	J07500R	J07500P
36	J07536M	J07536MT	2-1/4	1-3/4	15/16	1-9/32	2-5/16	1.32	JRR07526	J07500R	J07500P
38	J07538M	J07538MT	2-3/8	1-3/4	1	1-21/64	2-3/8	1.56	JRR07526	J07500R	J07500P
40	J07540M	J07540MT	2-1/2	1-3/4	1-1/32	1-17/64	2-1/2	1.64	JRR07526	J07500R	J07500P
41	J07541M	J07541MT	2-1/2	1-3/4	1-1/16	1-31/64	2-5/8	1.76	JRR07526	J07500R	J07500P
42	J07542M	J07542MT	2-1/2	1-3/4	1-1/8	1-45/64	2-3/4	1.87	JRR07526	J07500R	J07500P
43	J07543M	J07543MT	2-9/16	1-3/4	1-1/8	1-45/64	2-3/4	1.93	JRR07526	J07500R	J07500P
46	J07546M	J07546MT	2-3/4	1-3/4	1-1/4	1-45/64	2-7/8	2.10	JRR07526	J07500R	J07500P
50	J07550M	J07550MT	2-15/16	1-3/4	1-1/4	1-49/64	3-1/8	2.44	JRR07526	J07500R	J07500P

ASME B107.110-2012

3/4" DRIVE IMPACT SOCKETS



IMPACT SOCKETS

3/4" DRIVE DEEP IMPACT SOCKETS

- ▶ Proto® 6 Point Impact Sockets are ideal for use on stubborn or damaged fasteners, and also on fasteners made from soft materials.
- ▶ Stamped size for easy reference.
- ▶ Side locking hole.



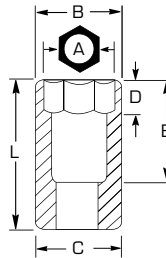
- ▶ Radius-corner socket design
- ▶ Engages flats for better grip
- ▶ Improves the ability to turn worn or rounded fasteners



3/4" DRIVE IMPACT SOCKETS

INCH	6	Nut End Outside Diameter (in) (B)	Drive End Outside Diameter (in) (C)	Nut Depth (in) (D)	Bolt Clearance Depth (in) (E)	Overall Length (in) (L)	Weight (lbs)	Crush Retaining Ring	O-Ring	Retaining Pin
9/16	J07509L	1	1-5/8	15/32	2-5/16	3-1/4	1.34	JRR07523	J07500R	J07500P
5/8	J07510L	1-3/32	1-5/8	33/64	2-5/16	3-1/4	1.28	JRR07523	J07500R	J07500P
11/16	J07511L	1-5/32	1-5/8	9/16	2-5/16	3-1/4	1.34	JRR07523	J07500R	J07500P
3/4	J07512L	1-1/4	1-5/8	39/64	2-5/16	3-1/4	1.35	JRR07523	J07500R	J07500P
13/16	J07513L	1-5/16	1-5/8	43/64	2-5/16	3-1/4	1.18	JRR07523	J07500R	J07500P
7/8	J07514L	1-1/2	1-5/8	23/32	2-5/16	3-1/4	1.23	JRR07523	J07500R	J07500P
15/16	J07515L	1-5/8	1-5/8	25/32	2-5/16	3-1/4	1.20	JRR07523	J07500R	J07500P
1	J07516L	1-5/8	1-5/8	53/64	2-5/16	3-1/4	1.11	JRR07523	J07500R	J07500P
1-1/16	J07517L	1-5/8	1-5/8	7/8	2-5/16	3-1/4	1.20	JRR07523	J07500R	J07500P
1-1/8	J07518L	1-3/4	1-3/4	59/64	2-5/16	3-1/4	1.29	JRR07526	J07500R	J07500P
1-3/16	J07519L	1-7/8	1-3/4	31/32	2-5/16	3-1/4	1.54	JRR07526	J07500R	J07500P
1-1/4	J07520L	2	1-3/4	1	2-5/16	3-1/4	1.89	JRR07526	J07500R	J07500P
1-5/16	J07521L	2-1/8	1-3/4	1	2-5/16	3-1/4	1.88	JRR07526	J07500R	J07500P
1-3/8	J07522L	2-1/8	1-3/4	1	2-5/16	3-1/4	1.79	JRR07526	J07500R	J07500P
1-7/16	J07523L	2-1/4	1-3/4	1-1/16	2-7/16	3-1/2	2.00	JRR07526	J07500R	J07500P
1-1/2	J07524L	2-3/8	1-3/4	1-1/16	2-7/16	3-1/2	2.25	JRR07526	J07500R	J07500P
1-9/16	J07525L	2-3/8	1-3/4	1	2-3/8	3-13/16	2.43	JRR07526	J07500R	J07500P
1-5/8	J07526L	2-3/8	1-3/4	2-1/4	2-5/8	3-13/16	2.57	JRR07526	J07500R	J07500P
1-11/16	J07527L	2-39/64	1-3/4	2-1/4	2-5/8	3-7/8	2.69	JRR07526	J07500R	J07500P
1-3/4	J07528L	2-39/64	1-3/4	2-1/4	2-5/8	3-7/8	2.84	JRR07526	J07500R	J07500P
1-13/16	J07529L	2-3/4	1-3/4	2-1/4	2-5/8	3-7/8	3.09	JRR07526	J07500R	J07500P
1-7/8	J07530L	2-3/4	1-3/4	2-3/8	3-3/4	4-1/16	3.19	JRR07526	J07500R	J07500P
2	J07532L	3	1-3/4	1-1/2	2-3/4	4-1/16	3.45	JRR07526	J07500R	J07500P

ASME B107.110-2012




3/4" DRIVE IMPACT EXTENSIONS

- › Use extensions to gain access to fasteners in locations that would otherwise be difficult to reach.
- › Male square is oriented in-line with female squares for use with fixed head torque wrenches.
- › Full chamfer at drive opening (when applicable) for easy engagement with drive tools.
- › Drive end chamfer and four detents help provide quick positive engagement with drive tool on any of the socket drive walls.
- › Features two thru holes and a groove to accept a PROTO® retaining ring or pin or o-ring to help secure extension to the drive tool anvil.



Product #	Overall Length (in)	Weight (lbs)
J07565	5	1.48
J07567	7	1.97
J07568	10	2.73
J07569	13	3.12

ASME B107.110-2012 

3/4" DRIVE IMPACT UNIVERSAL JOINT

- › Tight tolerances for snug fit on fastener.
- › Used wherever powered drive tools are used to install or remove fasteners.
- › Designed to withstand the high torque and force associated with impact tools in repetitive application.
- › Features two through holes and a groove to accept a Proto® Retaining Ring or pin and O-ring to help secure the socket to the drive tool anvil.
- › Position at appropriate angle to turn fasteners where obstructions prevent a straight application.
- › Ball and spring design which allows for a 30° working angle.
- › Smooth 360° rotation.



Product #	Overall Length (in)	Weight (lbs)
J07570A	3-1/2	1.40




3/4" DRIVE ADAPTERS

- › Use adapters to help increase or decrease drive end size.
- › Do not use hand adapters with power tools.
- › Do not over torque small sockets when using them with adapters on large drive tools.
- › Made of forged steel.
- › Size stamped on tool for easy identification.



Product #	INCH	Overall Length (in)	Weight (lbs)
J07655	3/4" F x 1" M	2-1/2	0.89
J07656	1" F x 3/4" M	2-7/8	1.42
J7656	5/8" F x 3/4" M	1-31/32	0.40

ASME B107.110-2012 

3/4" DRIVE IMPACT EXTENSIONS, UNIVERSAL JOINTS & ADAPTERS




IMPACT SOCKETS

3/4" DRIVE IMPACT SOCKET O-RING

- › Black oxide finish.
- › For use with all 3/4" drive impact sockets and attachments.


Product #	Weight (lbs)
J07500R	0.01




3/4" DRIVE IMPACT SOCKET RETAINING PIN

- › Black oxide finish.
- › For use with all 3/4" drive impact sockets and attachments.

Product #	Weight (lbs)
J07500P	0.01




3/4" DRIVE RETAINING RINGS

- › Retaining rings are used to help secure sockets onto drive tools.
- › They are not intended to bear any load.
- › The rotational forces are between the drive tool and the socket.
- › The resin crush gauge on the pin helps indicate when a socket is excessively worn and should be replaced.
- › Drive tool and socket should line up when in use and should not pinch the crush gauge.
- › Cracked sockets and/or worn drive tools cause each other to turn excessively in relation to each other. This action pinches the small fin or the crush gauge on these retaining rings. If the crush gauge is pinched, it is an indication that the socket and or the drive tool need to be replaced.
- › One-piece construction, no loose parts. Pin is made of resin which allows the material to compress without breaking.
- › Part numbers are embossed on the rings near the point at which the pin and ring meet.



Product #	For Groove Dia. (in)	Diameter (in)	Height (in)	Weight (lbs)
JRR07520	1-1/4	1-7/16	3/16	0.01
JRR07523	1-7/16	1-5/8	3/16	0.01
JRR07526	1-5/8	1-13/16	3/16	0.01
JRR07528	1-3/4	1-15/16	3/16	0.01
JRR07532	1-15/16	2-3/16	3/16	0.01
JRR07534	2-1/8	2-5/16	3/16	0.01
JRR07536	2-1/4	2-7/16	3/16	0.01



WRENCHES



WRENCHES

FULL POLISH REVERSIBLE RATCHETING COMBINATION WRENCHES - SPLINE

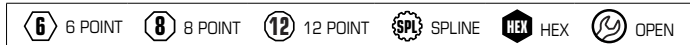
- › Anti-Slip Design (ASD) open end.
- › 15° angled offset box end helps keep shank clear of obstructions.
- › Offset open end offers 10-12° turning angle
- › Smooth transition from head to shank.
- › Industrial strength I-Beam shank provides broad bearing surface helping improve comfort and helping reduce hand fatigue.
- › Protected switch lever helps prevent accidental reversal.
- › Compact ratcheting head improves access.
- › 72 teeth provide 5° ratcheting.



REVERSIBLE RATCHETING WRENCHES

INCH	SPL	Throat Depth 1 (in)	Outside Head Width 1 (in)	Head Thickness 1 (in)	Outside Head Width 2 (in)	Head Thickness 2 (in)	Overall Length (in)	Weight (lbs)
1/4	JSCV08A	5/16	35/64	5/32	35/64	1/4	4-59/64	0.05
9/32	JSCV09A	5/16	39/64	11/64	43/64	1/4	5-5/32	0.07
5/16	JSCV10A	25/64	11/16	11/64	43/64	1/4	5-27/64	0.08
11/32	JSCV11A	13/32	25/32	9/32	3/4	17/64	5-43/64	0.10
3/8	JSCV12A	29/64	27/32	13/64	25/32	9/32	5-29/32	0.12
7/16	JSCV14A	1/2	15/16	5/16	55/64	19/64	6-29/32	0.16
1/2	JSCV16A	39/64	1-5/64	1/4	1	11/32	7-29/32	0.24
9/16	JSCV18A	11/16	1-13/64	3/8	1-5/64	23/64	8-49/64	0.30
5/8	JSCV20A	3/4	1-21/64	13/32	1-3/16	25/64	9-33/64	0.40
11/16	JSCV22A	53/64	1-7/16	5/16	1-1/4	13/32	10-17/64	0.49
3/4	JSCV24A	29/32	1-37/64	11/32	1-21/64	7/16	11-3/64	0.60
13/16	JSCV26A	31/32	1-23/32	17/32	1-37/64	33/64	11-13/16	0.80
7/8	JSCV28A	1-3/64	1-7/8	17/32	1-37/64	33/64	12-35/64	0.86
15/16	JSCV30A	1-1/8	1-31/32	19/32	1-53/64	37/64	13-5/16	1.09
1	JSCV32A	1-13/64	2-3/32	19/32	1-53/64	37/64	14-1/16	1.17
1-1/16	JSCV34A	1-9/32	2-7/32	5/8	2-3/64	39/64	14-15/16	1.44
1-1/8	JSCV36A	1-23/64	2-11/32	11/16	2-9/32	43/64	15-7/8	1.85
1-1/4	JSCV40A	1-1/2	2-19/32	35/64	2-15/32	11/16	16-59/64	2.29

ASME B107.100-2010 



WRENCHES

Versatile ratcheting spline drive is reversible.



Manufactured in Dallas.



Patented I-Beam removes weight and adds strength.



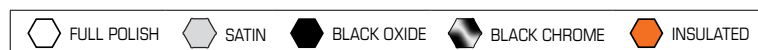
Open end is offset 13° more swing in tight places.



MM	SPL	Throat Depth 1 (in)	Outside Head Width 1 (in)	Head Thickness 1 (in)	Outside Head Width 2 (in)	Head Thickness 2 (in)	Overall Length (in)	Weight (lbs)
6	JSCVM06A	5/16	35/64	5/32	35/64	1/4	4-59/64	0.05
7	JSCVM07A	5/16	39/64	11/64	43/64	1/4	5-5/32	0.07
8	JSCVM08A	25/64	11/16	11/64	43/64	1/4	5-27/64	0.08
9	JSCVM09A	13/32	25/32	9/32	3/4	17/64	5-43/64	0.10
10	JSCVM10A	29/64	27/32	13/64	25/32	9/32	5-29/32	0.12
11	JSCVM11A	1/2	15/16	5/16	55/64	19/64	6-29/32	0.16
12	JSCVM12A	35/64	1-1/64	11/32	29/32	21/64	7-23/32	0.20
13	JSCVM13A	39/64	1-5/64	1/4	1	11/32	7-29/32	0.24
14	JSCVM14A	11/16	1-13/64	3/8	1-5/64	23/64	8-49/64	0.30
15	JSCVM15A	23/32	1-17/64	9/32	1-7/65	3/8	9-9/64	0.34
16	JSCVM16A	3/4	1-21/64	13/32	1-3/16	25/64	9-33/64	0.40
17	JSCVM17A	53/64	1-7/16	5/16	1-1/4	13/32	10-17/64	0.49
18	JSCVM18A	55/64	1-33/64	7/16	1-9/32	27/64	10-11/16	0.55
19	JSCVM19A	29/32	1-37/64	11/32	1-21/64	7/16	11-3/64	0.60
21	JSCVM21A	31/32	1-23/32	17/32	1-37/64	33/64	11-13/16	0.80
22	JSCVM22A	1-3/64	1-7/8	17/32	1-53/64	33/64	12-35/64	0.86
24	JSCVM24A	1-1/8	1-31/32	19/32	1-53/64	37/64	13-5/16	1.09
27	JSCVM27A	1-9/32	2-7/32	5/8	2-3/64	39/64	14-15/16	1.44
30	JSCVM30A	1-23/64	2-11/32	11/16	2-9/32	43/64	15-7/8	1.85
32	JSCVM32A	1-1/2	2-19/32	35/64	2-15/32	11/16	16-59/64	2.29

ASME B107.100-2010 


REVERSIBLE RATCHETING WRENCHES



WRENCHES

18 PIECE FULL POLISH REVERSIBLE RATCHETING COMBINATION WRENCH SET - SPLINE

Product #: **JSCV-18SA**

 SPL	INCH	Point Size	Overall Length (in)
JSCV08A	1/4	Spline	4-59/64
JSCV09A	9/32	Spline	5-5/32
JSCV10A	5/16	Spline	5-27/64
JSCV11A	11/32	Spline	5-43/64
JSCV12A	3/8	Spline	5-29/32
JSCV14A	7/16	Spline	6-29/32
JSCV16A	1/2	Spline	7-29/32
JSCV18A	9/16	Spline	8-49/64
JSCV20A	5/8	Spline	9-33/64
JSCV22A	11/16	Spline	10-17/64
JSCV24A	3/4	Spline	11-3/64
JSCV26A	13/16	Spline	11-13/16
JSCV28A	7/8	Spline	12-35/64
JSCV30A	15/16	Spline	13-5/16
JSCV32A	1	Spline	14-1/16
JSCV34A	1-1/16	Spline	14-15/16
JSCV36A	1-1/8	Spline	15-7/8
JSCV40A	1-1/4	Spline	16-59/64
J25TR57C	Tool Roll		

Weight (lbs): 13.51

ASME B107.100-2010 


- › Full polish finish resists chipping and rust.
- › Box end is countersunk for easy application to the fastener.
- › Spline design was created for use with specialty spline bolts which are used when weight and size of bolt heads must be minimized.
- › The high contact surface area which is away from fastener points enables turning of highly rounded fasteners.



REVERSIBLE RATCHETING WRENCH SETS

11 PIECE FULL POLISH REVERSIBLE RATCHETING COMBINATION WRENCH SET - SPLINE

Product #: **JSCV-11SA**

 SPL	INCH	Point Size	Overall Length (in)
JSCV08A	1/4	Spline	4-59/64
JSCV09A	9/32	Spline	5-5/32
JSCV10A	5/16	Spline	5-27/64
JSCV11A	11/32	Spline	5-43/64
JSCV12A	3/8	Spline	5-29/32
JSCV14A	7/16	Spline	6-29/32
JSCV16A	1/2	Spline	7-29/32
JSCV18A	9/16	Spline	8-49/64
JSCV20A	5/8	Spline	9-33/64
JSCV22A	11/16	Spline	10-17/64
JSCV24A	3/4	Spline	11-3/64
J25TR58C	Tool Roll		


Weight (lbs): 3.07

ASME B107.100-2010 



20 PIECE FULL POLISH METRIC REVERSIBLE RATCHETING COMBINATION WRENCH SET - SPLINE

Product #: **JSCVM-20SA**

Contents		Point Size	Overall Length (in)
JSCVM06A	6	Spline	4-59/64
JSCVM07A	7	Spline	5-5/32
JSCVM08A	8	Spline	5-27/64
JSCVM09A	9	Spline	5-43/64
JSCVM10A	10	Spline	5-29/32
JSCVM11A	11	Spline	6-29/32
JSCVM12A	12	Spline	7-23/32
JSCVM13A	13	Spline	7-29/32
JSCVM14A	14	Spline	8-49/64
JSCVM15A	15	Spline	9-9/64
JSCVM16A	16	Spline	9-33/64
JSCVM17A	17	Spline	10-17/64
JSCVM18A	18	Spline	10-11/16
JSCVM19A	19	Spline	11-3/64
JSCVM21A	21	Spline	11-13/16
JSCVM22A	22	Spline	12-35/64
JSCVM24A	24	Spline	13-5/16
JSCVM27A	27	Spline	14-15/16
JSCVM30A	30	Spline	15-7/8
JSCVM32A	32	Spline	16-59/64
J25TR59C	Tool Roll		


Weight (lbs): 13.74

ASME B107.100-2010 




14 PIECE FULL POLISH METRIC REVERSIBLE RATCHETING COMBINATION WRENCH SET - SPLINE

Product #: **JSCVM-14SA**

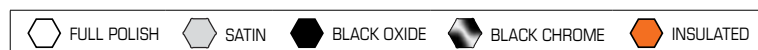
Contents		Point Size	Overall Length (in)
JSCVM06A	6	Spline	4-59/64
JSCVM07A	7	Spline	5-5/32
JSCVM08A	8	Spline	5-27/64
JSCVM09A	9	Spline	5-43/64
JSCVM10A	10	Spline	5-29/32
JSCVM11A	11	Spline	6-29/32
JSCVM12A	12	Spline	7-23/32
JSCVM13A	13	Spline	7-29/32
JSCVM14A	14	Spline	8-49/64
JSCVM15A	15	Spline	9-9/64
JSCVM16A	16	Spline	9-33/64
JSCVM17A	17	Spline	10-17/64
JSCVM18A	18	Spline	10-11/16
JSCVM19A	19	Spline	11-3/64
J25TR60	Tool Roll		

Weight (lbs): 4.48

ASME B107.100-2010 



REVERSIBLE RATCHETING WRENCH SETS



WRENCHES

REVERSIBLE RATCHETING COMBINATION WRENCHES

- › Spline wrenches can be used on 6, 12 point, spline and Torx® fasteners.
- › The chrome-vanadium switch lever allows for easy changes in turning direction which helps improve speed.
- › 15° angled offset box end helps keep shank clear of obstructions.
- › Anti-Slip Design (ASD) open end.
- › Black chrome finish is corrosion-resistant and visually distinctive.
- › Full polish finish allows for easy cleanup.
- › Box end is countersunk for easy application to the fastener.



REVERSIBLE RATCHETING WRENCHES

INCH	SPL	12	Outside Head Width 1 (in)	Head Thickness 1 (in)	Outside Head Width 2 (in)	Head Thickness 2 (in)	Overall Length (in)	Weight (lbs)
7/32	JSCV07	JSCV07T	9/16	1/8	35/64	1/8	5	0.06
1/4	JSCV08	JSCV08T	9/16	1/8	35/64	1/8	5	0.06
9/32	JSCV09	JSCV09T	11/16	1/8	21/32	1/8	5-1/2	0.07
5/16	JSCV10	JSCV10T	11/16	1/8	21/32	1/8	5-1/2	0.07
11/32	SCV11	JSCV11T	3/4	1/8	23/32	1/8	5-15/16	0.09
3/8	JSCV12	JSCV12T	13/16	1/8	25/32	1/8	6-1/4	0.11
7/16	JSCV14	JSCV14T	15/16	1/8	55/64	1/8	6-1/2	0.14
1/2	JSCV16	JSCV16T	1-1/16	3/16	31/32	3/16	7	0.20
9/16	JSCV18	JSCV18T	1-1/8	3/16	1-1/16	3/16	7-1/2	0.22
5/8	JSCV20	JSCV20T	1-5/16	3/16	1-3/16	3/16	8-3/16	0.33
11/16	JSCV22	JSCV22T	1-3/8	3/16	1-1/4	3/16	8-7/8	0.37
3/4	JSCV24	JSCV24T	1-9/16	1/4	1-21/64	1/4	9-3/4	0.48
13/16	JSCV26	JSCV26T	1-13/16	1/4	1-37/64	1/4	11-7/16	0.77
7/8	JSCV28	JSCV28T	1-13/16	1/4	1-37/64	1/4	11-7/16	0.73
15/16	JSCV30	JSCV30T	2-1/16	1/4	1-13/16	1/4	12-3/4	1.02
1	JSCV32	JSCV32T	2-1/16	1/4	1-13/16	1/4	12-3/4	1.00
1-1/16	JSCV34	JSCV34T	2-1/4	5/16	2-1/16	5/16	14-1/8	1.45
1-1/8	JSCV36	JSCV36T	2-5/16	5/16	2-19/64	5/16	15-7/8	1.96
1-1/4	JSCV40	JSCV40T	2-1/2	5/16	2-29/64	5/16	16-3/4	2.30
1-1/2	JSCV48	JSCV48T	2-13/16	3/8	2-39/64	3/8	19-5/16	3.09


ASME B107.100-2010

Torx® is a trademark of Acument Intellectual Properties, LLC



WRENCHES

REVERSIBLE RATCHETING COMBINATION WRENCHES (CONT'D)

MM		12	Outside Head Width 1 (in)	Head Thickness 1 (in)	Outside Head Width 2 (in)	Head Thickness 2 (in)	Overall Length (in)	Weight (lbs)
6	JSCVM06	JSCVM06T	9/16	1/8	35/64	1/8	5	0.06
7	JSCVM07	JSCVM07T	11/16	1/8	21/32	1/8	5-1/2	0.07
8	JSCVM08	JSCVM08T	11/16	1/8	21/32	1/8	5-1/2	0.07
9	JSCVM09	JSCVM09T	3/4	1/8	23/32	1/8	5-15/16	0.09
10	JSCVM10	JSCVM10T	13/16	1/8	25/32	1/8	6-1/4	0.11
11	JSCVM11	JSCVM11T	15/16	1/8	55/64	1/8	6-9/16	0.14
12	JSCVM12	JSCVM12T	1	3/16	57/64	3/16	6-3/4	0.17
13	JSCVM13	JSCVM13T	1-11/16	3/16	31/32	3/16	7	0.20
14	JSCVM14	JSCVM14T	1-1/8	3/16	1-1/16	3/16	7-1/2	0.24
15	JSCVM15	JSCVM15T	1-1/4	3/16	1-7/64	3/16	7-7/8	0.28
16	JSCVM16	JSCVM16T	1-5/16	3/16	1-3/16	3/16	8-3/16	0.33
17	JSCVM17	JSCVM17T	1-3/8	3/16	1-1/4	3/16	8-7/8	0.39
18	JSCVM18	JSCVM18T	1-1/2	3/16	1-9/32	3/16	9-5/16	0.43
19	JSCVM19	JSCVM19T	1-9/16	1/4	1-21/64	1/4	9-3/4	0.50
21	JSCVM21	JSCVM21T	1-13/16	1/4	1-37/64	1/4	11-7/16	0.76
22	JSCVM22	JSCVM22T	1-13/16	1/4	1-37/64	1/4	11-7/16	0.76
24	JSCVM24	JSCVM24T	2-1/16	1/4	1-13/16	1/4	12-3/4	1.06
27	JSCVM27	JSCVM27T	2-1/4	5/16	2-1/16	5/16	14-1/8	1.42
30	JSCVM30	JSCVM30T	2-5/16	5/16	2-19/64	5/16	15-7/8	1.89
32	JSCVM32	JSCVM32T	2-1/2	5/16	2-29/64	5/16	16-3/4	2.32
34	JSCVM34	JSCVM34T	2-1/2	3/8	2-29/64	3/8	18-1/8	2.65
36	JSCVM36	JSCVM36T	2-13/16	3/8	2-39/64	3/8	19-5/16	3.09

ASME B107.100-2010

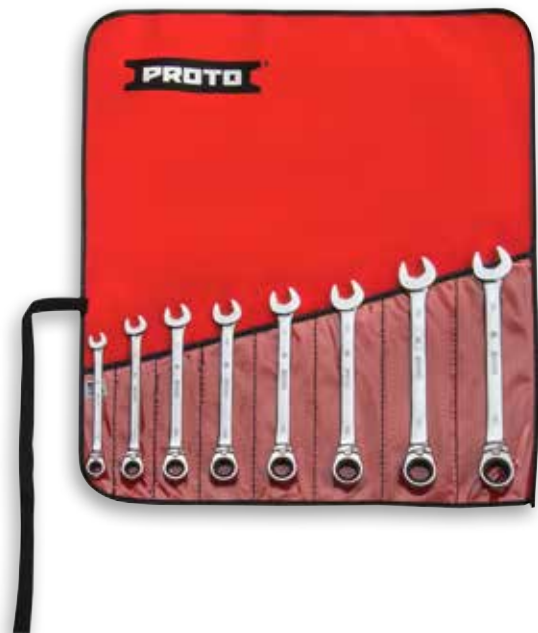
8 PIECE FULL POLISH REVERSIBLE RATCHETING WRENCH SET - 12 POINT

Product #: JSCVMT-8S






12	MM	Point Size	Overall Length (in)
JSCVM08T	8	12	5-1/2
JSCVM10T	10	12	6-1/4
JSCVM12T	12	12	6-3/4
JSCVM13T	13	12	7
JSCVM14T	14	12	7-1/2
JSCVM15T	15	12	7-7/8
JSCVM17T	17	12	8-7/8
JSCVM18T	18	12	9-5/16
J25TR61C	Tool Roll		

Weight (lbs): 2.15

ASME B107.100-2010 



REVERSIBLE RATCHETING WRENCH SETS

 FULL POLISH	 SATIN	 BLACK OXIDE	 BLACK CHROME	 INSULATED
---	---	---	--	---

WRENCHES

20 PIECE REVERSIBLE RATCHETING COMBINATION WRENCH SETS



9 PIECE REVERSIBLE RATCHETING COMBINATION WRENCH SETS



REVERSIBLE RATCHETING WRENCH SETS

12	SPL		
JSCVT-20S	JSCV-20S	INCH	Overall Length (in)
JSCV07T	JSCV07	7/32	5
JSCV08T	JSCV08	1/4	5
JSCV09T	JSCV09	9/32	5-1/2
JSCV10T	JSCV10	5/16	5-1/2
JSCV11T	JSCV11	11/32	5-15/16
JSCV12T	JSCV12	3/8	6-1/4
JSCV14T	JSCV14	7/16	6-1/2
JSCV16T	JSCV16	1/2	7
JSCV18T	JSCV18	9/16	7-1/2
JSCV20T	JSCV20	5/8	8-3/16
JSCV22T	JSCV22	11/16	8-7/8
JSCV24T	JSCV24	3/4	9-3/4
JSCV26T	JSCV26	13/16	11-7/16
JSCV28T	JSCV28	7/8	11-7/16
JSCV30T	JSCV30	15/16	12-3/4
JSCV32T	JSCV32	1	12-3/4
JSCV34T	JSCV34	1-1/16	14-1/8
JSCV36T	JSCV36	1-1/8	15-7/8
JSCV40T	JSCV40	1-1/4	16-3/4
JSCV48T	JSCV48	1-1/2	19-5/16
J25TR78C	JSCV20SP	Tool Roll	







Weight (lbs): 16.20

ASME B107.100-2010 

12	SPL		
JSCVT-9S	JSCV-9S	INCH	Overall Length (in)
JSCV09T	JSCV09	9/32	5-1/2
JSCV10T	JSCV10	5/16	5-1/2
JSCV12T	JSCV12	3/8	6-1/4
JSCV14T	JSCV14	7/16	6-1/2
JSCV16T	JSCV16	1/2	7
JSCV18T	JSCV18	9/16	7-1/2
JSCV20T	JSCV20	5/8	8-3/16
JSCV22T	JSCV22	11/16	8-7/8
JSCV24T	JSCV24	3/4	9-3/4
JSCV9SP	JSCV9SP	Tool Roll	

Weight (lbs): 1.90

ASME B107.100-2010 

 6 POINT
  8 POINT
  12 POINT
  SPL SPLINE
  HEX
  OPEN

22 PIECE REVERSIBLE RATCHETING COMBINATION WRENCH SETS



13 PIECE REVERSIBLE RATCHETING COMBINATION WRENCH SETS



12

JSCVMT-22S

SPL

JSCVM-22S

MM

Overall
Length (in)

JSCVM06T	JSCVM06	6	5
JSCVM07T	JSCVM07	7	5-1/2
JSCVM08T	JSCVM08	8	5-1/2
JSCVM09T	JSCVM09	9	5-15/16
JSCVM10T	JSCVM10	10	6-1/4
JSCVM11T	JSCVM11	11	6-9/16
JSCVM12T	JSCVM12	12	6-3/4
JSCVM13T	JSCVM13	13	7
JSCVM14T	JSCVM14	14	7-1/2
JSCVM15T	JSCVM15	15	7-7/8
JSCVM16T	JSCVM16	16	8-3/16
JSCVM17T	JSCVM17	17	8-7/8
JSCVM18T	JSCVM18	18	9-5/16
JSCVM19T	JSCVM19	19	9-3/4
JSCVM21T	JSCVM21	21	11-7/16
JSCVM22T	JSCVM22	22	11-7/16
JSCVM24T	JSCVM24	24	12-3/4
JSCVM27T	JSCVM27	27	14-1/8
JSCVM30T	JSCVM30	30	15-7/8
JSCVM32T	JSCVM32	32	16-3/4
JSCVM34T	JSCVM34	34	18-1/8
JSCVM36T	JSCVM36	36	19-5/16
J25TR80C	JSCVM22SP	Tool Roll	

Weight (lbs): 17.10

ASME B107.100-2010



FULL POLISH



SATIN



BLACK OXIDE



BLACK CHROME



INSULATED

12

JSCVMT-13S

SPL

JSCVM-13S

MM

Overall
Length (in)

JSCVM07T	JSCVM07	7	5-1/2
JSCVM08T	JSCVM08	8	5-1/2
JSCVM09T	JSCVM09	9	5-15/16
JSCVM10T	JSCVM10	10	6-1/4
JSCVM11T	JSCVM11	11	6-9/16
JSCVM12T	JSCVM12	12	6-3/4
JSCVM13T	JSCVM13	13	7
JSCVM14T	JSCVM14	14	7-1/2
JSCVM15T	JSCVM15	15	7-7/8
JSCVM16T	JSCVM16	16	8-3/16
JSCVM17T	JSCVM17	17	8-7/8
JSCVM18T	JSCVM18	18	9-5/16
JSCVM19T	JSCVM19	19	9-3/4
J25TR81C	JSCVM13SP	Tool Roll	

Weight (lbs): 3.02

ASME B107.100-2010



REVERSIBLE RATCHETING WRENCH SETS



WARNING: WORK SAFELY WITH TOOLS. WEAR SAFETY GOGGLES.

+1.800.800.TOOL · Fax: +1.800.828.7809 · www.protoindustrial.com



WRENCHES

COMBINATION WRENCHES

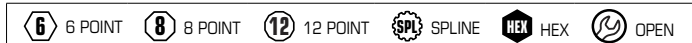


- › Satin and Black Oxide finish meets ASME B107.100-2010 only.
- › Anti-Slip Design (ASD) open end.
- › Fractional sizes 11/32" and smaller and sizes 1-5/16" and larger do not have the ASD feature.
- › Box ends incorporate the TorquePlus™ system.
- › Box end is countersunk for easy application to the fastener.

COMBINATION WRENCHES

INCH	6	6	12	12	12	Throat Depth (in) (B)	Outside Head Width (in) (C)	Head Thickness (in) (D)	Outside Head Width (in) (C')	Head Thickness (in) (D')	Length (in)	Overall Length (in)	Weight (lbs)
1/4	J1208H-T500	J1208HA	J1208-T500*	J1208A	J1208BA*	19/64	39/64	1/4	27/64	15/64	4-7/8	0.04	
9/32	-	-	J1209-T500*	J1209A	-	23/64	41/64	3/16	29/64	7/32	5-5/32	0.06	
5/16	J1210H-T500	J1210HA	J1210-T500*	J1210A	J1210BA*	3/8	45/64	9/32	33/64	17/64	5-3/8	0.08	
11/32	J1211H-T500	J1211HA	J1211-T500*	J1211A	J1211BA*	13/32	25/32	3/16	17/32	7/32	5-5/8	0.08	
3/8	J1212H-T500	J1212HASD	J1212-T500*	J1212ASD	J1212BASD*	13/32	13/16	3/16	39/64	5/16	6	0.11	
7/16	J1214H-T500	J1214HASD	J1214-T500*	J1214ASD	J1214BASD*	17/32	15/16	7/32	43/64	17/64	6-1/4	0.14	
1/2	J1216H-T500	J1216HASD	J1216-T500*	J1216ASD	J1216BASD*	39/64	1-5/16	1/4	49/64	11/32	8	0.18	
9/16	J1218H-T500	J1218HASD	J1218-T500*	J1218ASD	J1218BASD*	11/16	1-3/16	3/8	3/4	23/64	8-7/8	0.21	
5/8	J1220H-T500	J1220HASD	J1220-T500*	J1220ASD	J1220BASD*	3/4	1-21/64	19/64	55/64	13/32	8-5/8	0.29	
11/16	J1222H-T500	J1222HASD	J1222-T500*	J1222ASD	J1222BASD*	13/16	1-29/64	5/16	61/64	7/16	9-13/32	0.35	
3/4	J1224H-T500	J1224HASD	J1224-T500*	J1224ASD	J1224BASD*	57/64	1-37/64	11/32	1-3/32	15/32	10-1/8	0.41	
13/16	J1226H-T500	J1226HASD	J1226-T500*	J1226ASD	J1226BASD*	31/32	1-11/16	23/64	1-11/64	1/2	11-7/8	0.54	
7/8	J1228H-T500	J1228HASD	J1228-T500*	J1228ASD	J1228BASD*	1-1/16	1-13/16	17/32	1-1/4	33/64	12-1/2	0.65	
15/16	J1230H-T500	J1230HASD	J1230-T500*	J1230ASD	J1230BASD*	1-1/8	1-29/32	19/32	1-27/64	37/64	13-1/4	0.74	
1	J1232H-T500	J1232HASD	J1232-T500*	J1232ASD	J1232BASD*	1-13/64	2-1/64	19/32	1-13/32	47/64	12-7/8	0.95	
1-1/16	J1234H-T500	J1234HASD	J1234-T500*	J1234ASD	J1234BASD*	1-9/32	2-9/64	5/8	1-31/64	39/64	15-1/4	1.13	
1-1/8	J1236H-T500	J1236HASD	J1236-T500*	J1236ASD	J1236BASD*	1-23/64	2-17/64	21/32	1-21/32	41/64	14-7/8	1.38	
1-3/16	J1238H-T500	J1238HASD	J1238-T500*	J1238ASD	J1238BASD*	1 23/64	2 25/64	3/4	1 21/32	23/64	15-7/8	1.54	
1-1/4	J1240H-T500	J1240HASD	J1240-T500*	J1240ASD	J1240BASD*	1-1/2	2-33/64	23/32	1-3/4	47/64	16-7/8	1.89	
1-5/16	-	-	J1242-T500	J1242	J1242B	1-37/64	2-41/64	3/4	1-27/32	3/4	17-5/8	2.15	
1-3/8	-	-	J1244-T500	J1244	J1244B	1-21/32	2-49/64	35/64	1-15/16	25/32	18-1/2	2.34	
1-7/16	-	-	J1246-T500	J1246	J1246B	1-47/64	2-57/64	13/16	2-3/64	51/64	19-3/8	2.67	
1-1/2	-	-	J1248-T500	J1248	J1248B	1-51/64	3-1/64	27/32	2-1/8	53/64	20-1/4	3.18	
1-9/16	-	-	J1250-T500	J1250	J1250B	1.795	5-63/64	39/64	2-9/64	13/16	20-5/16	3.18	
1-5/8	-	-	J1252-T500	J1252	J1252B	2.015	3-25/64	1/16	2.4235	29/32	23	4.68	
1-11/16	-	-	-	J1254	J1254B	1-63/64	3-25/64	21/32	2-13/32	29/32	23	4.74	
1-3/4	-	-	-	J1256	J1256B	2-11/64	3-41/64	45/64	2-39/64	31/32	25	5.64	
1-13/16	-	-	-	J1258	J1258B	2-11/64	3-41/64	45/64	2-39/64	31/32	25	5.64	
1-7/8	-	-	-	J1260	J1260B	2-25/64	4-1/64	49/64	2-57/64	1-1/16	28	7.46	
2	-	-	-	J1264	J1264B	2-25/64	4-1/64	49/64	2-57/64	11/16	28	7.35	
2-1/16	-	-	-	J1266	-	2-45/64	4-33/64	27/32	3-1/4	13/16	29-1/2	9.88	
2-1/8	-	-	-	J1268	-	2-45/64	4-33/64	27/32	3-1/4	13/16	29-1/2	9.74	
2-3/16	-	-	-	J1270	-	2-45/64	4-33/64	27/32	3-1/4	1-3/16	29-1/2	9.45	
2-1/4	-	-	-	J1272	-	2-45/64	4-33/64	27/32	3-1/4	1-3/16	29-1/2	8.25	
2-3/8	-	-	-	J1276	-	2-55/64	5	31/32	3-5/8	1-5/16	31-1/2	13.12	
2-1/2	-	-	-	J1280	-	3	5	31/32	3-5/8	1-5/16	31-1/2	12.49	
2-9/16	-	-	-	J1282	-	2-1/2	4-1/2	1	3-5/8	1-1/2	29-3/4	13.00	
2-5/8	-	-	-	J1284	-	2-5/8	4-3/4	1	3-3/4	1-11/16	29-3/4	13.00	
2-3/4	-	-	-	J1288	-	2-9/16	4-3/4	1	3-3/4	1-11/16	29-3/4	13.00	
2-13/16	-	-	-	-	J1290	2-15/16	5-1/2	1-1/8	4-1/4	1-1/2	34	18.00	
2-7/8	-	-	-	-	J1292	2-7/8	5-1/2	1-1/8	4-3/4	1-7/16	34	18.00	
2-15/16	-	-	-	-	J1294	2-15/16	5-1/2	1-1/8	4-3/4	1-1/2	34	18.00	
3	-	-	-	-	J1296	2-15/16	5-1/2	1-1/8	4-3/4	1-1/2	34	18.00	
3-1/8	-	-	-	-	J12100	2-7/8	5-1/2	1-1/8	4-3/4	1-1/2	34	18.00	
3-1/4	-	-	-	-	J12104	4	7	1-11/16	5-1/2	2	37	35.00	
3-1/2	-	-	-	-	J12112	3-7/8	7	1-5/8	5-7/8	2-1/8	37	35.00	
3-3/4	-	-	-	-	J12120	3-3/4	7	1-3/4	6-1/8	2-1/4	37	35.00	
3-7/8	-	-	-	-	J12124	3-3/4	7	1-5/8	6-1/8	2-1/4	37	35.00	

*SAE AS954G ASME B107.100-2010

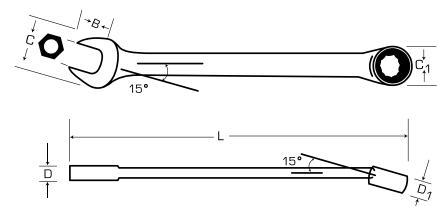


METRIC COMBINATION WRENCHES

- ▶ Metric sizes 9mm and smaller and sizes 36 mm and larger do not have the ASD feature.
- ▶ Satin and Black Oxide finish meets ASME B107.100-2010 only.

MM	6	6	12	12	12	Throat Depth (in) (B)	Outside Head Width (in) (C)	Head Thickness (in) (D)	Outside Head Width (in) (C1)	Head Thickness (in) (D1)	Length (in)	Overall Length (in)	Weight (lbs)
6	J1206MH-T500	J1206MHA	J1206M-T500°	J1206MA	J1206MBA°	19/64	35/64	5/32	25/64	5/32	4-29/32	4-29/32	0.05
7	J1207MH-T500	J1207MHA	J1207M-T500°	J1207MA	J1207MBA°	5/16	19/32	1/4	13/32	15/64	5-5/32	5-5/32	0.06
8	J1208MH-T500	J1208MHA	J1208M-T500°	J1208MA	J1208MBA°	25/64	11/16	9/32	1/2	17/64	5-13/32	5-13/32	0.07
9	J1209MH-T500	J1209MHA	J1209M-T500°	J1209MA	J1209MBA°	13/32	3/4	9/32	35/64	17/64	5-21/32	5-21/32	0.08
10	J1210MH-T500	J1210MHASD	J1210M-T500°	J1210MASD	J1210MBASD°	31/64	7/8	7/32	21/32	5/16	5-29/32	5-29/32	0.11
11	J1211MH-T500	J1211MHASD	J1211M-T500°	J1211MASD	J1211MBASD°	33/64	59/64	11/32	11/16	21/64	6-1/4	6-1/4	0.15
12	J1212MH-T500	J1212MHASD	J1212M-T500°	J1212MASD	J1212MBASD°	9/16	1	1/4	47/64	11/32	7-45/64	7-45/64	0.18
13	J1213MH-T500	J1213MHASD	J1213M-T500°	J1213MASD	J1213MBASD°	39/64	1-1/32	1/4	25/32	11/32	7-29/32	7-29/32	0.21
14	J1214MH-T500	J1214MHASD	J1214M-T500°	J1214MASD	J1214MBASD°	11/16	1-3/16	3/8	55/64	23/64	8-13/16	8-13/16	0.29
15	J1215MH-T500	J1215MHASD	J1215M-T500°	J1215MASD	J1215MBASD°	3/4	1-1/4	3/8	55/64	23/64	8-5/8	8-5/8	0.25
16	J1216MH-T500	J1216MHASD	J1216M-T500°	J1216MASD	J1216MBASD°	3/4	1-21/64	5/16	15/16	13/32	9-35/64	9-35/64	0.26
17	J1217MH-T500	J1217MHASD	J1217M-T500°	J1217MASD	J1217MBASD°	53/64	1-25/64	21/64	59/64	7/16	9-13/32	9-13/32	0.38
18	J1218MH-T500	J1218MHASD	J1218M-T500°	J1218MASD	J1218MBASD°	55/64	1-33/64	15/32	1-1/64	29/64	10-1/8	10-1/8	0.41
19	J1219MH-T500	J1219MHASD	J1219M-T500°	J1219MASD	J1219MBASD°	29/32	1-37/64	11/32	1-7/64	15/32	10-1/2	10-1/2	0.46
20	-	-	J1220M-T500°	J1220MASD	J1220MBASD°	63/64	1-11/16	1/2	1-3/16	31/64	11-27/64	11-27/64	0.55
21	-	-	J1221M-T500°	J1221MASD	J1221MBASD°	63/64	1-11/16	1/2	1-3/16	31/64	11-13/16	11-13/16	0.54
22	-	-	J1222M-T500°	J1222MASD	J1222MBASD°	1-3/64	1-25/32	3/8	1-17/64	1/2	12-17/32	12-17/32	0.62
23	-	-	J1223M-T500°	J1223MASD	J1223MBASD°	1-1/8	1-57/64	9/16	1-11/32	35/64	12-59/64	12-59/64	0.77
24	-	-	J1224M-T500°	J1224MASD	J1224MBASD°	1-1/8	1-57/64	9/16	1-11/32	37/64	12-7/8	12-7/8	0.77
25	-	-	J1225M-T500°	J1225MASD	J1225MBASD°	1-13/64	2	27/64	1-27/64	37/64	12-7/8	12-7/8	0.85
26	-	-	J1226M-T500°	J1226MASD	J1226MBASD°	1-13/64	2-1/64	27/64	1-27/64	19/32	14-41/64	14-41/64	0.97
27	-	-	J1227M-T500°	J1227MASD	J1227MBASD°	1-7/32	2-9/64	5/8	1-31/64	21/32	14-7/8	14-7/8	1.17
28	-	-	J1228M-T500°	J1228MASD	J1228MBASD°	1-23/64	2-17/64	21/32	1-21/32	21/32	14-7/8	14-7/8	1.37
29	-	-	J1229M-T500°	J1229MASD	-	1-23/64	2-17/64	21/32	1-49/64	21/32	14-7/8	14-7/8	1.39
30	-	-	J1230M-T500°	J1230MASD	J1230MBASD°	1-23/64	2-17/64	21/32	2-3/64	47/64	15-55/64	15-55/64	1.41
32	-	-	J1232M-T500°	J1232MASD	J1232MBASD°	1-1/2	2-33/64	23/32	2-27/64	47/64	16-59/64	16-59/64	1.82
34	-	-	J1234M-T500	-	-	1-9/32	2-9/64	39/64	1-31/64	3/4	15-1/4	15-1/4	1.13
36	-	-	J1236M-T500	J1236M	-	1-23/64	2-17/64	41/64	1-21/32	41/64	15-7/8	15-7/8	1.38
41	-	-	-	J1241M	-	2-1/64	3-25/64	15/16	2-27/64	59/64	23	23	4.34
46	-	-	-	J1246M	-	2-11/64	3-41/64	43/64	2-39/64	31/32	25	25	5.50
50	-	-	-	J1250M	-	2-25/64	4-1/64	47/64	2-57/64	1-1/16	28	28	6.97
55	-	-	-	J1255M	-	2-9/16	4-1/4	1	3-1/4	1-3/16	28-3/4	28-3/4	10.00
60	-	-	-	J1260M	-	2-13/32	4-1/2	1	3-5/8	1-1/2	29-3/4	29-3/4	13.00
65	-	-	-	J1265M	-	2-3/8	4-1/2	1	3-5/8	1-1/2	29-3/4	29-3/4	13.00
70	-	-	-	J1270M	-	2-9/16	4-3/4	1	3-3/4	1-5/8	29-3/4	29-3/4	13.00
75	-	-	-	-	J1275M	2-15/16	5-1/2	1-1/8	4-3/4	1-1/2	34	34	18.00
80	-	-	-	-	J1280M	2-7/8	5-1/2	1-1/8	4-3/4	1-9/16	34	34	18.00

*SAE AS955 ASME B107.100-2010



	FULL POLISH		SATIN		BLACK OXIDE		BLACK CHROME		INSULATED
--	-------------	--	-------	--	-------------	--	--------------	--	-----------

WRENCHES

15 PIECE COMBINATION ASD WRENCH SETS - 12 POINT

12	12	INCH	Point Size	Overall Length (in)
J1200F-T500*	J1200FASD			
J1210-T500	J1210A	5/16	12	5-3/8
J1212-T500	J1212ASD	3/8	12	6
J1214-T500	J1214ASD	7/16	12	7
J1216-T500	J1216ASD	1/2	12	8
J1218-T500	J1218ASD	9/16	12	8-7/8
J1220-T500	J1220ASD	5/8	12	9-1/2
J1222-T500	J1222ASD	11/16	12	10-1/4
J1224-T500	J1224ASD	3/4	12	11
J1226-T500	J1226ASD	13/16	12	11-7/8
J1228-T500	J1228ASD	7/8	12	12-1/2
J1230-T500	J1230ASD	15/16	12	13-1/4
J1232-T500	J1232ASD	1	12	14
J1234-T500	J1234ASD	1-1/16	12	15-1/4
J1236-T500	J1236ASD	1-1/8	12	15-7/8
J1240-T500	J1240ASD	1-1/4	12	16-7/8
J25TR34C	J25TR34C	Tool Roll		

Weight (lbs): 9.75 *SAE AS954G ASME B107.100-2010 




COMBINATION WRENCH SETS

14 PIECE BLACK OXIDE COMBINATION ASD WRENCH SET - 12 POINT

Product #: J1200FBASD

- ▶ Non-reflective black oxide finish for use where non-plated products are required.

12	INCH	Point Size	Overall Length (in)
J1212BASD	3/8	12	6
J1214BASD	7/16	12	7
J1216BASD	1/2	12	8-7/8
J1218BASD	9/16	12	8-7/8
J1220BASD	5/8	12	9-1/2
J1222BASD	11/16	12	10-1/4
J1224BASD	3/4	12	11
J1226BASD	13/16	12	11-7/8
J1228BASD	7/8	12	12-1/2
J1230BASD	15/16	12	13-1/4
J1232BASD	1	12	14
J1234BASD	1-1/16	12	15-1/4
J1236BASD	1-1/8	12	15-7/8
J1240BASD	1-1/4	12	16-7/8
J25TR41C	Tool Roll		

Weight (lbs): 9.70 SAE AS954G ASME B107.100-2010 



 6 POINT
  8 POINT
  12 POINT
  SPLINE
  HEX
  OPEN

WRENCHES

11 PIECE COMBINATION ASD WRENCH SETS - 12 POINT



12

J1200H11T5*

12

J1200GASD11

INCH

Point Size

Overall Length (in)

		INCH	Point Size	Overall Length (in)
-	J1208A	1/4	12	4-7/8
J1212-T500	J1212ASD	3/8	12	6
J1214-T500	J1214ASD	7/16	12	7
J1216-T500	J1216ASD	1/2	12	8
J1218-T500	J1218ASD	9/16	12	8-7/8
J1220-T500	J1220ASD	5/8	12	9-1/2
J1222-T500	J1222ASD	11/16	12	10-1/4
J1224-T500	J1224ASD	3/4	12	11
J1226-T500	J1226ASD	13/16	12	11-7/8
J1228-T500	J1228ASD	7/8	12	12-1/2
J1230-T500	J1230ASD	15/16	12	13-1/4
J1232-T500	-	1	12	14
-	Tool Roll			

Weight (lbs): 12.50

*SAE AS954G ASME B107.100-2010

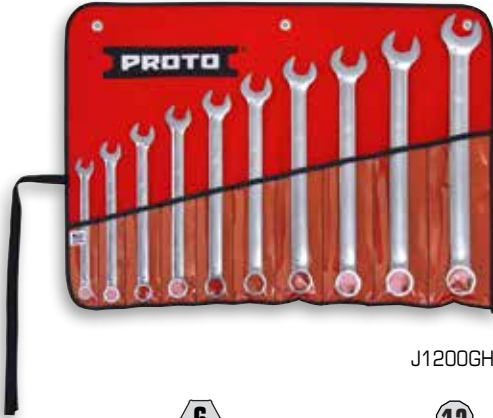


COMBINATION WRENCH SETS

FULL POLISH
 SATIN
 BLACK OXIDE
 BLACK CHROME
 INSULATED

WRENCHES

10 PIECE COMBINATION ASD WRENCH SETS



J1200GHASD-T500



J1200GASD

6

J1200GHASDT500

6

J1200GHASD

12

J1200GASD

INCH

Overall Length (in)

J1214HASD-T500	J1214HASD	J1214ASD	7/16	7
J1216HASD-T500	J1216HASD	J1216ASD	1/2	8
J1218HASD-T500	J1218HASD	J1218ASD	9/16	8-7/8
J1220HASD-T500	J1220HASD	J1220ASD	5/8	9-1/2
J1222HASD-T500	J1222HASD	J1222ASD	11/16	10-1/4
J1224HASD-T500	J1224HASD	J1224ASD	3/4	11
J1226HASD-T500	J1226HASD	J1226ASD	13/16	11-7/8
J1228HASD-T500	J1228HASD	J1228ASD	7/8	12-1/2
J1230HASD-T500	J1230HASD	J1230ASD	15/16	13-1/4
J1232HASD-T500	J1232HASD	J1232ASD	1	14
J25TR05C	J25TR05C	J25TR05C	Tool Roll	

Weight (lbs): 4.88

ASME B107.100-2010

COMBINATION WRENCH SETS

7 PIECE COMBINATION ASD WRENCH SETS - 12 POINT



J1200HASD



J1200HBASD

12

J1200H-T500*

12

J1200HASD

12

J1200HBASD*

INCH

Point Size

Overall Length (in)

J1212-T500	J1212ASD	J1212BASD	3/8	12	6
J1214-T500	J1214ASD	J1214BASD	7/16	12	7
J1216-T500	J1216ASD	J1216BASD	1/2	12	8
J1218-T500	J1218ASD	J1218BASD	9/16	12	8-7/8
J1220-T500	J1220ASD	J1220BASD	5/8	12	9-1/2
J1222-T500	J1222ASD	J1222BASD	11/16	12	10-1/4
J1224-T500	J1224ASD	J1224BASD	3/4	12	11
J25TR33C	J25TR37C	J25TR37C	Tool Roll		

Weight (lbs): 2.40


*SAE AS954G ASME B107.100-2010

6 POINT
 8 POINT
 12 POINT
 SPLINE
 HEX
 OPEN

17 PIECE FULL POLISH METRIC COMBINATION WRENCH SET - 12 POINT

Product #: **J1200RM-T500**


12	MM	Point Size	Overall Length (in)
J1207M-T500	7	12	5-5/32
J1208M-T500	8	12	5-13/32
J1209M-T500	9	12	5-21/32
J1210M-T500	10	12	5-29/32
J1211M-T500	11	12	6-29/32
J1212M-T500	12	12	7-45/64
J1213M-T500	13	12	7-29/32
J1214M-T500	14	12	8-13/16
J1215M-T500	15	12	9-5/32
J1216M-T500	16	12	9-35/64
J1217M-T500	17	12	10-9/32
J1218M-T500	18	12	10-11/16
J1219M-T500	19	12	11-1/32
J1220M-T500	20	12	11-27/64
J1221M-T500	21	12	11-13/16
J1222M-T500	22	12	12-17/32
J1224M-T500	24	12	13-5/16
J25TR36C	Tool Roll		

Weight (lbs): 6.92 SAE AS955 ASME B107.100-2010 



15 PIECE METRIC COMBINATION ASD WRENCH SETS - 12 POINT






12	12	MM	Point Size	Overall Length (in)
J1207MA	J1207MBA	7	12	5-5/32
J1208MA	J1208MBA	8	12	5-13/32
J1209MA	J1209MBA	9	12	5-21/32
J1210MASD	J1210MBASD	10	12	5-29/32
J1211MASD	J1211MBASD	11	12	6-29/32
J1212MASD	J1212MBASD	12	12	7-45/64
J1213MASD	J1213MBASD	13	12	7-29/32
J1214MASD	J1214MBASD	14	12	8-13/16
J1215MASD	J1215MBASD	15	12	9-5/32
J1216MASD	J1216MBASD	16	12	9-35/64
J1217MASD	J1217MBASD	17	12	10-9/32
J1218MASD	J1218MBASD	18	12	10-11/16
J1219MASD	J1219MBASD	19	12	11-1/32
J1220MASD	J1220MBASD	20	12	11-27/64
J1221MASD	J1221MBASD	21	12	11-13/16
J25TR41C	J25TR41C	Tool Roll		

Weight (lbs): 4.25 SAE AS955 ASME B107.100-2010 



J1200F-MBASD

COMBINATION WRENCH SETS


 FULL POLISH	 SATIN	 BLACK OXIDE	 BLACK CHROME	 INSULATED
---	---	---	--	---

WRENCHES

14 PIECE FULL POLISH METRIC COMBINATION WRENCH SET- 12 POINT

Product #: **J1200HM14T5**

⑫	MM	Point Size	Overall Length (in)
J1207M-T500	7	12	5-5/32
J1208M-T500	8	12	5-13/32
J1209M-T500	9	12	5-21/32
J1210M-T500	10	12	5-29/32
J1211M-T500	11	12	6-29/32
J1212M-T500	12	12	7-45/64
J1213M-T500	13	12	7-29/32
J1214M-T500	14	12	8-13/16
J1215M-T500	15	12	9-5/32
J1216M-T500	16	12	9-35/64
J1217M-T500	17	12	10-9/32
J1218M-T500	18	12	10-11/16
J1219M-T500	19	12	11-1/32
J1220M-T500	20	12	11-27/64

Weight (lbs): 3.77 SAE AS955 ASME B107.100-2010 




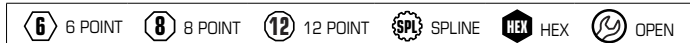
COMBINATION WRENCH SETS

11 PIECE FULL POLISH METRIC COMBINATION WRENCH SET - 12 POINT

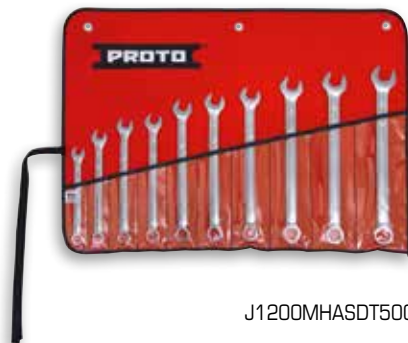
Product #: **J1200HM11T5**

⑫	MM	Point Size	Overall Length (in)
J1207M-T500	7	12	5-5/32
J1209M-T500	9	12	5-21/32
J1210M-T500	10	12	5-29/32
J1211M-T500	11	12	6-29/32
J1212M-T500	12	12	7-45/64
J1213M-T500	13	12	7-29/32
J1214M-T500	14	12	8-13/16
J1215M-T500	15	12	9-5/32
J1217M-T500	17	12	10-9/32
J1218M-T500	18	12	10-11/16
J1219M-T500	19	12	11-1/32

Weight (lbs): 2.89 SAE AS955 ASME B107.100-2010 



10 PIECE METRIC COMBINATION ASD WRENCH SETS



J1200MHASDT500



J1200MHASD



J1200K-MASD

6	6	12	MM	Overall Length (in)
J1200MHASDT500	J1200MHASD	J1200K-MASD		
J1210MH-T500	J1210MHASD	J1210MASD	10	5-29/32
J1211MH-T500	J1211MHASD	J1211MASD	11	6-29/32
J1212MH-T500	J1212MHASD	J1212MASD	12	7-45/64
J1213MH-T500	J1213MHASD	J1213MASD	13	7-29/32
J1214MH-T500	J1214MHASD	J1214MASD	14	8-13/16
J1215MH-T500	J1215MHASD	J1215MASD	15	9-5/32
J1216MH-T500	J1216MHASD	J1216MASD	16	9-35/64
J1217MH-T500	J1217MHASD	J1217MASD	17	10-9/32
J1218MH-T500	J1218MHASD	J1218MASD	18	10-11/16
J1219MH-T500	J1219MHASD	J1219MASD	19	11-1/32
J25TR39C	J25TR39C	J25TR39C	Toll Roll	

Weight (lbs): 2.71

ASME B107.100-2010



9 PIECE METRIC COMBINATION ASD WRENCH SETS - 12 POINT

12	12	MM	Point Size	Overall Length (in)
J1200HM-T500*	J1200H-MASD			
J1207M-T500	J1207MA	7	12	5-5/32
J1208M-T500	J1208MA	8	12	5-13/32
J1209M-T500	J1209MA	9	12	5-21/32
J1210M-T500	J1210MASD	10	12	5-29/32
J1211M-T500	J1211MASD	11	12	6-29/32
J1212M-T500	J1212MASD	12	12	7-45/64
J1213M-T500	J1213MASD	13	12	7-29/32
J1214M-T500	J1214MASD	14	12	8-13/16
J1215M-T500	J1215MASD	15	12	9-5/32
J25TR35C	J25TR38C	Tool Roll		

Weight (lbs): 1.43

*SAE AS955

ASME B107.100-2010



COMBINATION WRENCH SETS

FULL POLISH	SATIN	BLACK OXIDE	BLACK CHROME	INSULATED
-------------	-------	-------------	--------------	-----------

WRENCHES

9 PIECE METRIC COMBINATION WRENCH SETS - 12 POINT

12

J1200M9T5

12

J1200MB9

MM

Point Size

Overall Length (in)

J1210M-T500	J1210MBASD	10	12	5-29/32
J1211M-T500	J1211MBASD	11	12	6-29/32
J1212M-T500	J1212MBASD	12	12	7-45/64
J1213M-T500	J1213MBASD	13	12	7-29/32
J1214M-T500	J1214MBASD	14	12	8-13/16
J1215M-T500	J1215MBASD	15	12	9-5/32
J1216M-T500	J1216MBASD	16	12	9-35/64
J1217M-T500	J1217MBASD	17	12	10-9/32
J1218M-T500	J1218MBASD	18	12	10-11/16

Weight (lbs): 2.47

SAE AS955

ASME B107.100-2010



COMBINATION WRENCH SETS

6 PIECE BLACK OXIDE METRIC COMBINATION WRENCH SET - 12 POINT

Product #: J1200MB6

12

MM

Point Size

Overall Length (in)

J1210MBASD	10	12	5-29/32
J1211MBASD	11	12	6-29/32
J1212MBASD	12	12	7-45/64
J1213MBASD	13	12	7-29/32
J1214MBASD	14	12	8-13/16
J1215MBASD	15	12	9-5/32

Weight (lbs): 2.47

SAE AS955

ASME B107.100-2010




6 POINT
 8 POINT
 12 POINT
 SPLINE
 HEX
 OPEN

11 PIECE SHORT COMBINATION WRENCH SETS - 12 POINT

12	12	INCH	Point Size	Overall Length (in)
J1200ES-11	J1200ESB-11			
J1208ES	J1208ESB	1/4	12	3-1/4
J1209ES	J1209ESB	9/32	12	3-3/8
J1210ES	J1210ESB	5/16	12	3-1/2
J1211ES	J1211ESB	11/32	12	3-5/8
J1212ES	J1212ESB	3/8	12	3-3/4
J1214ES	J1214ESB	7/16	12	3-15/16
J1216ES	J1216ESB	1/2	12	4-5/16
J1218ES	J1218ESB	9/16	12	4-1/2
J1220ES	J1220ESB	5/8	12	4-7/8
J1222ES	J1222ESB	11/16	12	5-1/16
J1224ES	J1224ESB	3/4	12	5-7/16
J25TR69C	J25TR69C	Tool Roll		

Weight (lbs): 1.55

ASME B107.100-2035 

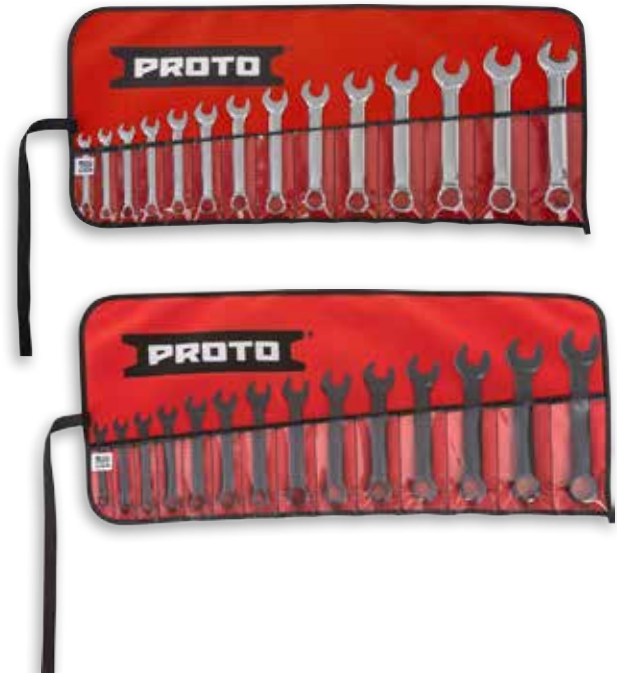


14 PIECE METRIC SHORT COMBINATION WRENCH SETS - 12 POINT






12	12	MM	Point Size	Overall Length (in)
J1200MES-14	J1200MESB-14			
J1206MES	J1206MESB	6	12	3-1/4
J1207MES	J1207MESB	7	12	3-3/8
J1208MES	J1208MESB	8	12	3-1/2
J1209MES	J1209MESB	9	12	3-5/8
J1210MES	J1210MESB	10	12	3-3/4
J1211MES	J1211MESB	11	12	3-15/16
J1212MES	J1212MESB	12	12	4-1/8
J1213MES	J1213MESB	13	12	4-5/16
J1214MES	J1214MESB	14	12	4-1/2
J1215MES	J1215MESB	15	12	4-11/16
J1216MES	J1216MESB	16	12	4-7/8
J1217MES	J1217MESB	17	12	5-1/16
J1218MES	J1218MESB	18	12	5-1/4
J1219MES	J1219MESB	19	12	5-7/16
J25TR70C	J25TR70C	Tool Roll		

Weight (lbs): 2.14

ASME B107.100-2036 



SHORT COMBINATION WRENCH SETS

 FULL POLISH	 SATIN	 BLACK OXIDE	 BLACK CHROME	 INSULATED
---	---	---	--	---

WRENCHES

SHORT COMBINATION WRENCHES - 12 POINT



- ▶ 12 point box end allows for fine indexing, helping to improve speed and access. Fits 4, 6 and 12 point fasteners.
- ▶ The wrench self aligns with the fastener.
- ▶ Full polish wrenches meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance.
- ▶ The box end is countersunk for easy application to the fastener.
- ▶ 15° angled offset helps keep shank clear of obstructions.
- ▶ Anti-Slip Design (ASD) open end.
- ▶ Box ends incorporate the TorquePlus™ system.



SHORT COMBINATION WRENCHES

INCH	12	12	Throat Depth 1 (in) (B)	Outside Head Width 1 (in) (C)	Head Thickness 1 (in) (D)	Outside Head Width 2 (in) (C1)	Head Thickness 2 (in) (D1)	Overall Length (in)	Weight (lbs)
1/4	J1208ES	J1208ESB	19/64	19/32	11/64	7/16	3/16	3-1/4	0.03
9/32	J1209ES	J1209ESB	19/64	41/64	3/16	29/64	7/32	3-3/8	0.04
5/16	J1210ES	J1210ESB	3/8	47/64	1/4	33/64	15/64	3-1/2	0.04
11/32	J1211ES	J1211ESB	13/32	13/16	13/64	9/16	1/4	3-5/8	0.05
3/8	J1212ES	J1212ESB	7/16	7/8	7/32	39/64	9/32	3-3/4	0.07
7/16	J1214ES	J1214ESB	31/64	63/64	5/16	43/64	19/64	3-15/16	0.08
1/2	J1216ES	J1216ESB	37/64	1-7/64	3/8	51/64	23/64	4-5/16	0.12
9/16	J1218ES	J1218ESB	43/64	1-1/4	19/64	57/64	3/8	4-1/2	0.15
5/8	J1220ES	J1220ESB	47/64	1-23/64	7/16	63/64	27/64	4-7/8	0.20
11/16	J1222ES	J1222ESB	13/16	1-31/64	15/32	1-3/64	29/64	5-1/16	0.23
3/4	J1224ES	J1224ESB	57/64	1-5/8	1/2	1-1/8	31/64	5-7/16	0.29
13/16	J1226S°	-	61/64	1-45/64	23/64	1-13/64	33/64	7-45/64	0.44
7/8	J1228S°	-	1-3/64	1-27/32	23/64	1-17/64	35/64	8	0.52
15/16	J1230S°	-	1-3/32	2.00	4.00	1-11/32	35/64	8-19/64	0.63
1	J1232S°	-	1-13/64	2-3/32	7/16	1-29/64	5/8	8-13/32	0.73
1-1/16	J1234S°	-	1-17/64	2-13/64	15/32	1-19/32	41/64	6-19/32	0.86
1-1/8	J1236S°	-	1-21/64	2-19/64	1/2	1-5/8	23/32	8-29/32	0.98
1-3/16	J1238S°	-	1-11/32	2-19/64	1/2	1-5/8	23/32	8-29/32	1.00
1-1/4	J1240S°	-	1-1/2	2-19/32	1/2	1-51/64	23/32	9-45/64	1.30

*SAE AS954G ASME B107.100-2010

MM	12	12	Throat Depth 1 (in) (B)	Outside Head Width 1 (in) (C)	Head Thickness 1 (in) (D)	Outside Head Width 2 (in) (C1)	Head Thickness 2 (in) (D1)	Overall Length (in)	Weight (lbs)
6	J1206MES	J1206MESB	19/64	19/32	11/64	7/16	3/16	3-1/4	0.03
7	J1207MES	J1207MESB	19/64	41/64	3/16	29/64	7/32	3-3/8	0.04
8	J1208MES	J1208MESB	3/8	47/64	1/4	33/64	15/64	3-1/2	0.04
9	J1209MES	J1209MESB	13/32	13/16	13/64	9/16	1/4	3-5/8	0.05
10	J1210MES	J1210MESB	7/16	7/8	7/32	39/64	9/32	3-3/4	0.07
11	J1211MES	J1211MESB	31/64	63/64	5/16	43/64	19/64	3-15/16	0.08
12	J1212MES	J1212MESB	17/32	1-1/16	11/32	47/64	21/64	4-1/8	0.10
13	J1213MES	J1213MESB	37/64	1-7/64	3/8	51/64	23/64	4-5/16	0.12
14	J1214MES	J1214MESB	43/64	1-1/4	19/64	57/64	3/8	4-1/2	0.15
15	J1215MES	J1215MESB	45/64	1-5/16	13/32	29/32	25/64	4-11/16	0.17
16	J1216MES	J1216MESB	47/64	1-23/64	7/16	63/64	27/64	4-7/8	0.20
17	J1217MES	J1217MESB	13/16	1-31/64	15/32	1-3/64	29/64	5-1/16	0.24
18	J1218MES	J1218MESB	27/32	1-35/64	11/32	1-5/64	15/32	5-1/4	0.27
19	J1219MES	J1219MESB	57/64	1-5/8	1/2	1-1/8	31/64	5-7/16	0.29
20	J1220MS	-	15/16	1-41/64	11/32	1-5/32	31/64	7-35/64	0.42
21	J1221MS	-	61/64	1-45/64	11/32	1-11/64	1/2	7-45/64	0.45
22	J1222MS	-	1-3/64	1-27/32	23/64	1-17/64	17/32	7-29/32	0.52
23	J1223MS	-	1-3/32	2.00	13/32	1-11/32	35/64	8-19/64	0.63
24	J1224MS	-	1-3/32	2.00	13/32	1-11/32	35/64	8-19/64	0.63
25	J1225MS	-	1-13/64	2-3/32	27/64	1-7/16	5/8	8-13/32	0.73
27	J1227MS	-	1-17/64	2-13/64	29/64	1-19/32	41/64	8-19/32	0.88
30	J1230MS	-	1-5/16	2-19/64	1/2	1-5/8	23/32	8-29/32	0.94
32	J1232MS	-	1-31/64	2-19/32	35/64	1-51/64	23/32	9-45/64	1.30

SAE AS955 ASME B107.100-2010



SHORT SATIN COMBINATION WRENCHES - 6 POINT

- › Satin finish provides corrosion resistance and a slip-resistance grip
- › 6 point box end allows for large wrench to fastener contact area which helps prevent rounding of the fastener
- › Compact shank design and short length for access in confined spaces
- › 15° angled offset box end helps keep shank clear of obstructions
- › Standard open end.



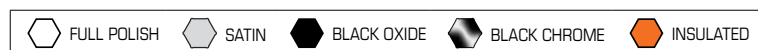
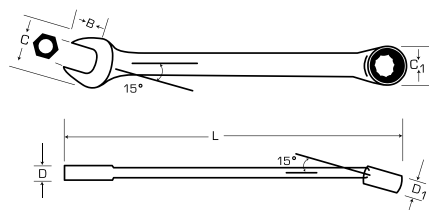
INCH	6	Throat Depth 1 (in)	Outside Head Width 1 (in)	Head Thickness 1 (in)	Outside Head Width 2 (in)	Head Thickness 2 (in)	Overall Length (in)	Weight (lbs)
1/8	J1204EFS	3/16	23/64	7/64	19/64	7/64	2-29/32	0.01
5/32	J1205EFS	7/32	27/64	9/64	5/16	9/64	2-29/32	0.01
3/16	J1206EFS	15/64	35/64	9/64	3/8	9/64	3-3/32	0.02
7/32	J1207EFS	17/64	9/16	9/64	13/32	9/64	3-3/32	0.02
1/4	J1208EFS	19/64	19/32	11/64	31/64	11/64	3-9/64	0.03
9/32	J1209EFS	21/64	19/32	11/64	1/2	11/64	3-13/32	0.04
5/16	J1210EFS	25/64	3/4	3/16	37/64	3/16	3-7/16	0.04
11/32	J1211EFS	13/32	3/4	3/16	19/32	3/16	3-1/2	0.05
3/8	J1212EFS	7/16	27/32	13/64	39/64	13/64	4-19/64	0.07

SATIN COMBINATION FLEX HEAD WRENCHES - 12 POINT

- › Satin finish provides corrosion resistance and a slip resistant grip.
- › 12 point box end allows for fine indexing, helping to improve speed and access. Fits 4, 6 and 12 point fasteners.
- › Use the swiveling box end to break or cinch bolts in difficult locations.
- › Heat-treated alloy steels produce a shank with high leverage.
- › Box ends incorporate the TorquePlus™ system.



INCH	12	Throat Depth 1 (in)	Outside Head Width 1 (in)	Head Thickness 1 (in)	Overall Length (in)	Weight (lbs)
3/8	J1270-12A	27/64	55/64	15/64	6	0.14
7/16	J1270-14A	1/2	1	1/4	6-7/8	0.20
1/2	J1270-16A	37/64	1-3/32	9/32	7-3/4	0.25
9/16	J1270-18A	21/32	1-15/64	5/16	8-5/8	0.36
5/8	J1270-20A	23/32	1-23/32	21/64	9-1/2	0.46
11/16	J1270-22A	51/64	1-1/2	11/32	10-3/8	0.58
3/4	J1270-24A	7/8	1-41/64	23/64	11-1/4	0.46
7/8	J1270-28A	1-1/64	1-27/32	13/32	13	0.93



SHORT & FLEX HEAD COMBINATION WRENCHES

WRENCHES

OFFSET REVERSIBLE RATCHETING DOUBLE BOX WRENCHES

- › 25° offset box end helps keep shank clear of obstructions.
- › Built in retaining ring in each ratchet wheel adds speed and convenience for greater accessibility.
- › Shorter length for access to confined work spaces.
- › 6 point box end allows larger wrench to fastener contact area which helps prevent rounding of the fastener.
- › 12 point box end allows for fine indexing.
- › Fits 4, 6 and 12 point fasteners.
- › Reversing switch lever allows for easy changes in turning direction which helps improve speed.
- › The wrench self-aligns with the fastener.



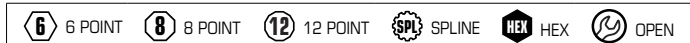
OFFSET RATCHETING DOUBLE BOX WRENCHES

INCH	6	12	Outside Head Width 1 (in)	Head Thickness 1 (in)	Outside Head Width 2 (in)	Head Thickness 2 (in)	Overall Length (in)	Weight (lbs)
7/32 x 9/32	-	J1179T	19/32	3/8	43/64	3/8	4-1/4	0.15
1/4 x 5/16	J1181-A	J1181T	19/32	3/8	41/64	3/8	4-1/4	0.15
3/8 x 7/16	J1182-A	J1182T	25/32	3/8	7/8	3/8	5-7/16	0.21
1/2 x 9/16	J1183-A	J1183T	1	1/2	1-9/64	1/2	6-3/4	0.43
5/8 x 11/16	-	J1184-A	1-19/64	1/2	1-7/16	1/2	8	0.58
5/8 x 3/4	-	J1186	1-19/64	1/2	1-7/16	1/2	8	0.58
3/4 x 7/8	-	J1185-A	1-13/32	1/2	1-9/16	1/2	9-1/8	0.77

ASME B107.100-2010

MM	6	12	Outside Head Width 1 (in)	Head Thickness 1 (in)	Outside Head Width 2 (in)	Head Thickness 2 (in)	Overall Length (in)	Weight (lbs)
7 x 8	J1181M-A	-	19/32	3/8	4-5/16	3/8	4-19/64	0.13
9 x 10	J1182M-A	-	25/32	3/8	5-17/32	3/8	5-33/64	0.22
11 x 13	J1183MA-A	-	1-1/64	1/2	1-5/32	1/2	6-17/32	0.32
12 x 14	J1184MA-A	-	1-1/64	1/2	1-5/32	1/2	6-17/32	0.32
15 x 17	-	J1185M-A	1-19/64	1/2	7-27/32	1/2	7-53/64	0.46
16 x 18	-	J1186M-A	1-19/64	1/2	7-27/32	1/2	7-53/64	0.46
19 x 21	-	J1187M-A	1-13/32	1/2	8-23/32	1/2	8-45/64	0.52

ASME B107.100-2010



RATCHETING DOUBLE BOX WRENCHES

- › Built in retaining ring in each ratchet wheel adds speed and convenience for greater accessibility.
- › Shorter length for access to confined workspaces.
- › The wrench self-aligns with the fastener.
- › 6 point box end allows for large wrench to fastener contact area which helps prevent fastener rounding.
- › 12 point box end allows for fine indexing.
- › Fits 4, 6 and 12 point fasteners.



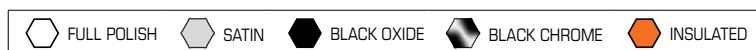
INCH	12	Outside Head Width 1 (in)	Head Thickness 1 (in)	Outside Head Width 2 (in)	Head Thickness 2 (in)	Overall Length (in)	Weight (lbs)
1/4 x 5/16	J1191T-A	9/32	3/8	5/8	3/8	4-1/2	0.12
3/8 x 7/16	J1192T-A	3/4	3/8	7/8	3/8	5-1/2	0.17
1/2 x 9/16	J1193T-A	1	1/2	1-1/8	1/2	6-7/8	0.29
5/8 x 11/16	J1194-A	1-19/64	1/2	1-7/16	1/2	8-1/8	0.44
3/4 x 7/8	J1195-A	1-13/32	1/2	1-37/64	1/2	9-1/4	0.52
5/8 x 3/4	J1196-A	1-19/64	1/2	1-7/16	1/2	8-1/8	0.47
13/16 x 15/16	J1197-A	1-13/32	1/2	1-37/64	1/2	9-1/4	0.52
1 x 1-1/16	J1198	1-29/32	9/16	2-1/4	9/16	15	0.56
1-1/8 x 1-1/4	J1199	1-29/32	9/16	2-1/4	9/16	15	0.60

ASME B107.100-2010 

MM	6	12	Outside Head Width 1 (in)	Head Thickness 1 (in)	Outside Head Width 2 (in)	Head Thickness 2 (in)	Overall Length (in)	Weight (lbs)
7 x 8	J1191M-A	-	19/32	3/8	4-5/16	3/8	4-19/64	0.12
9 x 10	J1192M-A	-	25/32	3/8	5-17/32	3/8	5-33/64	0.17
11 x 13	J1193MA-A	-	1-1/64	1/2	1-5/32	1/2	6-13/16	0.31
12 x 14	J1194MA-A	-	1-1/64	1/2	1-5/32	1/2	9-1/4	0.39
15 x 17	-	J1195M-A	1-19/64	1/2	8-1/8	1/2	8-7/64	0.48
16 x 18	-	J1196M	1-19/64	1/2	8-1/8	1/2	8-7/64	0.48
19 x 21	-	J1197M	1-13/32	1/2	9-1/4	1/2	9-15/64	0.55

ASME B107.100-2010 

RATCHETING DOUBLE BOX WRENCHES



WRENCHES

MODIFIED OFFSET DOUBLE BOX WRENCHES - 12 POINT



- Full polish wrenches meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance.
- 12 point box end allows for fine indexing, helping to improve speed and access. Fits 4, 6 and 12 point fasteners.
- Offset box end allows access to recessed fasteners and keeps hands clear of obstructions.



INCH	12	Outside Head Width 1 (in)	Head Thickness 1 (in)	Outside Head Width 2 (in)	Head Thickness 2 (in)	Overall Length (in)	Weight (lbs)
3/8 x 7/16	J1012A	21/32	5/16	37/64	19/64	7-3/4	0.11
1/2 x 9/16	J1016A	53/64	23/64	3/4	11/32	8-7/8	0.20
5/8 x 11/16	J1020A	1	29/64	29/32	13/32	10-19/32	0.52
3/4 x 13/16	J1024A	1.2	33/64	1	1/2	12-13/64	0.75
7/8 x 15/16	J1028A	1.3	9/16	1-13/64	17/32	13-19/32	1.01

ASME B107.100-2010

OFFSET DOUBLE BOX WRENCHES

DEEP OFFSET DOUBLE BOX WRENCHES - 12 POINT

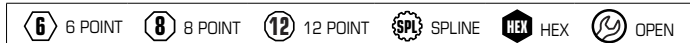


- Full polish wrenches meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance.
- 12 point box end allows for fine indexing, helping to improve speed and access. Fits 4, 6 and 12 point fasteners.
- 60° deep offset helps improve access to deeply recessed fasteners.
- Offset handle helps keep knuckles clear of obstruction to help save time.
- Box ends feature the TorquePlus™ design.



INCH	12	Outside Head Width 1 (in)	Head Thickness 1 (in)	Outside Head Width 2 (in)	Head Thickness 2 (in)	Overall Length (in)	Weight (lbs)
1/4" x 5/16"	J8179-T500	13/32	7/32	15/32	1/4	6-19/32	0.11
3/8" x 7/16"	J8180-T500	19/32	19/64	41/64	5/16	7-1/2	0.18
1/2" x 9/16"	J8181-T500	47/64	11/32	13/16	13/32	8-51/64	0.33
9/16" x 5/8"	J8182-T500	29/32	13/32	1	7/16	9-3/4	0.51
11/16" x 13/16"	J8183-T500	1	29/64	1-5/32	33/64	10-51/64	0.71
3/4" x 7/8"	J8184-T500	1-1/16	1/2	1-1/4	35/64	11-1/2	0.90
15/16" x 1"	J8185-T500	1-11/32	9/16	1-7/16	19/32	14.000	1.30

SAE AS954G ASME B107.100-2010





15 DEGREE DOUBLE BOX WRENCHES - 12 POINT

- Full polish wrenches meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance.
- 12 point box end allows for fine indexing, helping to improve speed and access. Fits 4, 6 and 12 point fasteners.
- Offset box end allows access to recessed fasteners and keeps hands clear of obstructions.
- Box ends feature TorquePlus™ design.



INCH	12	Outside Head Width 1 (in)	Head Thickness 1 (in)	Outside Head Width 2 (in)	Head Thickness 2 (in)	Overall Length (in)	Weight (lbs)
1/4" x 5/16"	J110810L	13/32	15/64	31/64	1/4	8-3/32	0.10
5/16" x 3/8"	J111012L	1/2	9/32	37/64	21/64	8-27/32	0.16
3/8" x 7/16"	J111214L	37/64	21/64	21/32	11/32	9-27/32	0.23
7/16" x 1/2"	J111416L	21/32	23/64	3/4	3/8	10-45/64	0.29
1/2" x 9/16"	J111618L	3/4	3/8	53/64	13/32	11-35/64	0.40
9/16" x 5/8"	J111820L	53/64	13/32	29/32	15/32	12-31/64	0.56
11/16" x 3/4"	J112224L	1	1/2	1-3/32	17/32	14-11/32	0.77
13/16" x 15/16"	J112630L	1-11/64	35/64	1-23/64	37/64	16-3/32	1.22
7/8" x 1"	J112832L	1-17/64	9/16	1-29/64	19/32	17-3/32	1.47

SAE AS954G ASME B107.100-2010

15 DEGREE LONG DOUBLE BOX WRENCHES - SPLINE



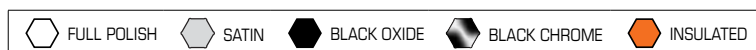
- Spline fasteners help tighten high strength bolts to high torque loads.
- Full polish wrenches meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance.



INCH	SPL	Outside Head Width 1 (in)	Head Thickness 1 (in)	Outside Head Width 2 (in)	Head Thickness 2 (in)	Overall Length (in)	Weight (lbs)
1/4" x 5/16"	J110810SPL	13/32	15/64	31/64	1/4	8-3/32	0.10
3/8" x 7/16"	J111214SPL	37/64	21/64	21/32	11/32	9-27/32	0.23
1/2" x 9/16"	J111618SPL	3/4	3/8	53/64	13/32	11-35/64	0.39
9/16" x 5/8"	J111820SPL	53/64	13/32	29/32	15/32	12-31/64	0.55
11/16" x 3/4"	J112224SPL	1	1/2	1-3/32	17/32	14-11/32	0.76
13/16" x 15/16"	J112630SPL	1-11/64	35/64	1-23/64	37/64	16-3/32	1.20
7/8" x 1"	J112832SPL	1-17/64	9/16	1-29/64	19/32	17-3/32	1.45

MIL-W-8982/2A

15 DEGREE DOUBLE BOX WRENCHES



WRENCHES

OPEN END WRENCHES

- › 15° angle heads.
- › Special heat-treated alloy steel permits slim shanks for strength and durability.
- › Standard open end configuration.



OPEN END WRENCHES

INCH			Throat Depth 1 (in)	Outside Head Width 1 (in)	Head Thickness 1 (in)	Outside Head Width 2 (in)	Head Thickness 2 (in)	Overall Length (in)	Weight (lbs)
3/16 x 1/4	J3016	-	17/64	1/2	5/32	7/16	5/32	3-7/8	0.04
1/4 x 5/16	J3018	-	3/8	21/32	3/16	4-1/2	5/32	4-31/64	0.07
5/16 x 3/8	J3020	J3020B	7/16	25/32	7/32	41/64	13/64	5-1/8	0.09
3/8 x 7/16	J3021	J3021B	23/64	29/32	7/22	25/32	7/32	5-3/4	0.12
7/16 x 1/2	J3025	J3025B	19/32	1-1/32	1/4	29/32	1/4	6-3/8	0.19
1/2 x 9/16	J3026	J3026B	43/64	1-3/16	9/32	1-1/32	17/64	7	0.23
9/16 x 5/8	J3030	J3030B	3/4	1-17/64	9/32	1-5/32	9/32	7-5/8	0.28
5/8 x 3/4	J3031	J3031B	29/32	1-37/64	5/16	1-5/32	5/16	8-9/16	0.39
5/8 x 11/16	J3034	-	53/64	117/160	5/16	1-9/32	5/16	8-1/4	0.35
11/16 x 3/4	J3035	J3035B	29/32	1-37/64	11/32	1-13/32	21/64	8-7/8	0.47
11/16 x 25/32	J3037	-	57/64	1-37/64	11/32	1-13/32	21/64	8-7/8	0.46
3/4 x 7/8	J3039	J3039B	1-1/16	1-25/32	11/32	1-37/64	11/32	9-1/2	0.60
13/16 x 7/8	J3040	J3040B	1-3/64	1-25/32	3/8	1-21/32	23/64	10-1/8	0.62
15/16 x 1	J3045	J3045B	1-13/64	2-1/64	13/32	1-29/32	13/32	11-1/2	0.92
1-1/16 x 1-1/8	J3050	J3050B	1-23/64	2-17/64	15/32	2-5/32	29/64	12-5/8	1.24
1-1/16 x 1-1/4	J3051	J3051B	1-31/64	2-33/64	15/32	2-5/32	15/32	13-9/16	1.47
1-1/4 x 1-5/16	J3055	J3055B	1-9/16	2-21/32	17/32	2-33/64	33/64	14-1/2	1.87
1-3/8 x 1-7/16	J3060	J3060B	1-23/32	2-57/64	9/16	2-23/32	35/64	15-3/4	2.59
1-1/2 x 1-5/8	J3070	J3070B	1-15/16	3-17/64	5/8	2-61/64	39/64	17	3.31
1-11/16 x 1-13/16	J3075	-	2-3/16	3-41/64	23/32	3-25/64	45/64	18-1/2	4.71
1-7/8 x 2	J3080	-	2-3/8	4-1/32	23/32	3-41/64	45/64	20	6.38

ASME B107.100-2010

MM			Throat Depth 1 (in)	Outside Head Width 1 (in)	Head Thickness 1 (in)	Outside Head Width 2 (in)	Head Thickness 2 (in)	Overall Length (in)	Weight (lbs)
6 x 7	J30607	-	3/8	41/64	3/16	1/2	11/64	4-1/2	0.06
8 x 9	J30809	-	7/16	25/32	3/16	21/32	3/16	5-1/8	0.09
10 x 11	J31011	-	17/32	29/32	7/32	25/32	7/32	5-3/4	0.13
12 x 13	J31213	-	19/32	1-1/32	1/4	29/32	1/4	6-3/8	0.17
14 x 15	J31415	-	3/4	1-9/32	9/32	1-9/64	9/32	7-19/32	0.30
16 x 17	J31617	-	57/64	1-13/32	5/16	8-1/4	19/64	8-15/64	0.33
18 x 19	J31819	-	29/32	1-37/64	11/32	8-7/8	21/64	8-55/64	0.48
20 x 22	J32022	-	1-3/64	1-13/16	11/32	9-1/2	11/32	9-31/64	0.58
21 x 23	J32123	-	1-3/64	1-25/32	3/8	1-21/32	23/64	10-1/8	0.61
24 x 26	J32426	-	1-13/64	2-1/64	13/32	1-29/32	13/32	11-3/8	0.88

ASME B107.100-2010

EXTRA THIN SATIN OPEN END WRENCHES

- › Satin finish provides corrosion resistance and a slip resistant grip.
- › Ultra-thin profile and long handle produce improved access to hard-to-reach fasteners.
- › Use when high leverage or distance from a hot assembly is required.
- › Opening is designed to cover tappets, screws and lock nuts without excessive overhang which improves access.



INCH			Throat Depth 1 (in)	Outside Head Width 1 (in)	Head Thickness 1 (in)	Outside Head Width 2 (in)	Head Thickness 2 (in)	Overall Length (in)	Weight (lbs)
7/16 x 1/2	J3425	-	19/32	1-3/32	3/16	1-1/64	11/64	10	0.16
1/2 x 9/16	J3426	-	43/64	1-13/64	3/16	1-9/64	11/64	10	0.16
9/16 x 5/8	J3430	-	47/64	1-21/64	3/16	1-1/4	11/64	10	0.21
11/16 x 3/4	J3435	-	57/64	1-7/16	7/32	1-11/32	13/64	10	0.26
13/16 x 7/8	J3440	-	1-1/32	1-49/64	7/32	1-11/16	13/64	10	0.33

6 POINT 8 POINT 12 POINT SPL SPLINE HEX OPEN

FULL POLISH ANGLE OPEN END WRENCHES

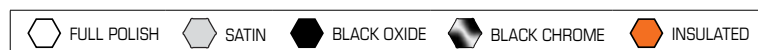
- ▶ Double nickel strike for rust resistance and prolonged life.
- ▶ 15° and 60° angle heads combined with the same size opening on both ends allow wrench to be used in four different turning angles for greater access in tight work areas.



INCH		Throat Depth 1 (in)	Outside Head Width 1 (in)	Head Thickness 1 (in)	Outside Head Width 2 (in)	Head Thickness 2 (in)	Overall Length (in)	Weight (lbs)
3/8	J3112	13/32	3/4	7/32	3/4	13/64	4-3/4	0.06
7/16	J3114	15/32	7/8	7/32	7/8	13/64	5	0.08
1/2	J3116	35/64	1	1/4	1	15/64	5-1/4	0.10
9/16	J3118	39/64	1-7/64	1/4	1-7/64	15/64	5-5/8	0.14
5/8	J3120	21/32	1-7/32	9/32	1-7/32	17/64	6	0.17
11/16	J3122	23/32	1-21/64	9/32	1-21/64	17/64	6-1/2	0.21
3/4	J3124	25/32	1-7/16	9/32	1-7/16	9/32	7	0.26
13/16	J3126	27/32	1-9/16	5/16	1-9/16	19/64	7-1/2	0.50
7/8	J3128	57/64	1-21/32	5/16	1-21/32	5/16	8	0.61
15/16	J3130	31/32	1-25/32	11/32	1-25/32	21/64	8-3/4	0.71
1	J3132	1-1/32	1-59/64	11/32	1-59/64	11/32	9-1/2	0.88
1-1/16	J3134	1-1/16	2-1/64	3/8	2-1/64	23/64	10-1/4	1.04
1-1/8	J3136	1-1/8	2-1/8	3/8	2-1/8	3/8	11	1.20
1-3/16	J3138	1-1/4	2-17/64	13/32	2-17/64	13/32	11-47/64	0.86
1-1/4	J3140	1-1/4	2-11/32	13/32	2-11/32	13/32	12-1/4	1.47
1-5/16	J3142	1-5/16	2-29/64	7/16	2-29/64	27/64	13-1/8	1.87
1-3/8	J3144	1-13/32	2-37/64	7/16	2-37/64	7/16	13-3/4	2.17
1-7/16	J3146	1-13/32	2-5/8	15/32	2-5/8	29/64	14	2.48
1-1/2	J3148	1-31/64	2-3/4	15/32	2-3/4	15/32	14-1/2	2.77
1-5/8	J3152	1-43/64	3-1/64	1/2	3-1/64	1/2	15	3.07
1-3/4	J3156	1-31/32	3-31/64	17/32	3-31/64	33/64	17	3.81
1-13/16	J3158	1-63/64	3-31/64	17/32	3-31/64	33/64	18-3/8	4.56
1-7/8	J3160	2-7/32	3-29/32	21/32	3-29/32	21/32	19-3/4	5.24
2	J3164	2-9/32	3-29/32	21/32	3-29/32	21/32	21-1/4	5.92

ANGLE OPEN END WRENCHES

MM		Throat Depth 1 (in)	Outside Head Width 1 (in)	Head Thickness 1 (in)	Outside Head Width 2 (in)	Head Thickness 2 (in)	Overall Length (in)	Weight (lbs)
9	J3109M	13/32	49/64	7/32	49/64	13/64	4-3/4	0.06
10	J3110M	7/16	13/16	7/32	13/16	13/64	4-7/8	0.07
11	J3111M	15/32	7/8	7/32	7/8	7/32	5	0.08
12	J3112M	1/2	59/64	1/4	59/64	15/64	5-1/4	0.10
13	J3113M	17/32	63/64	1/4	63/64	15/64	5-1/2	0.13
14	J3114M	39/64	1-7/64	1/4	1-7/64	1/4	5-5/8	0.14
15	J3115M	5/8	1-5/32	9/32	1-5/32	17/64	5-15/16	0.16
16	J3116M	21/32	1-7/32	9/32	1-7/32	17/64	6-1/8	0.19
17	J3117M	47/64	1-11/32	9/32	1-11/32	9/32	6-1/2	0.21
18	J3118M	23/32	1-11/32	9/32	1-11/32	9/32	6-3/4	0.24
19	J3119M	25/32	1-7/16	9/32	1-7/16	9/32	7	0.26




WRENCHES

SHORT SATIN ANGLE OPEN END WRENCHES

- › Satin finish provides corrosion resistance and a slip resistant grip.
- › 15° and 75° angle heads allow wrench to be used in four different turning angles for greater access in tight work spaces.
- › Compact shank design and short length for access in confined spaces.
- › Standard open end configuration.



INCH		Throat Depth 1 (in)	Outside Head Width 1 (in)	Head Thickness 1 (in)	Outside Head Width 2 (in)	Head Thickness 2 (in)	Overall Length (in)	Weight (lbs)
7/32	J3314	11/64	1/2	1/8	1/2	7/64	3	0.03
15/64	J3315	11/64	1/2	1/8	1/2	7/64	3	0.03
1/4	J3316	11/64	1/2	1/8	1/2	7/64	3	0.03
9/32	J3318	3/16	19/32	5/32	19/32	5/32	3-1/2	0.04
5/16	J3320	3/16	19/32	5/32	19/32	5/32	3-1/2	0.04
11/32	J3322	1/4	3/4	5/32	3/4	5/32	3-3/4	0.05
3/8	J3324	1/4	3/4	5/32	3/4	5/32	3-3/4	0.05
7/16	J3328	11/32	1	3/16	1	11/64	4-7/16	0.08
1/2	J3332	11/32	1	3/16	1	11/64	4-7/16	0.08
9/16	J3336	13/32	1-5/32	3/16	1-5/32	3/16	5-3/4	0.10
5/8	J3340	13/32	1-5/32	3/16	1-5/32	3/16	5-3/4	0.10





SATIN DOUBLE END FLARE NUT WRENCHES



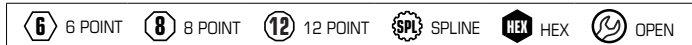
- › Satin finish provides corrosion resistance and a slip resistant grip.
- › Flare nut box ends incorporate the TorquePlus™ system.



INCH			Mouth Width 1 (in)	Outside Head Width 1 (in)	Head Thickness 1 (in)	Mouth Width 2 (in)	Outside Head Width 2 (in)	Head Thickness 2 (in)	Overall Length (in)	Weight (lbs)
3/8 x 7/16	J3764	J3764T	19/64	51/64	11/32	23/64	57/64	3/8	6-1/4	0.18
1/2 x 9/16	J3768	J3768T	25/64	31/32	3/8	13/32	1-1/16	7/16	7-1/2	0.27
5/8 x 11/16	J3772	J3772T	33/64	1-7/64	1/2	37/64	1-13/64	31/64	8-3/4	0.38
3/4 x 7/8	J3776H	-	9/16	1-15/64	1/2	21/32	1-13/32	9/16	9-1/2	0.61

12pt - SAE AS4167C ASME B107-100-2010 


DOUBLE END FLARE NUT & SHORT ANGLE OPEN END WRENCHES



IGNITION WRENCHES

- › Satin finish provides corrosion resistance and a slip resistant grip.
- › 15° and 60° angle heads.
- › Standard open end configuration.

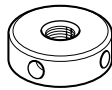


INCH		Throat Depth 1 (in)	Outside Head Width 1 (in)	Head Thickness 1 (in)	Outside Head Width 2 (in)	Head Thickness 2 (in)	Overall Length (in)	Weight (lbs)
13/64 x 15/64	J3210	15/64	1/2	1/8	1/2	7/64	3	0.02
15/64 x 13/64	J3211	15/64	1/2	1/8	1/2	7/64	3	0.02
7/32 x 1/4	J3215	15/64	1/2	1/8	1/2	7/64	3	0.02
1/4 x 7/32	J3216	15/64	1/2	1/8	1/2	7/64	3	0.02
9/32 x 5/16	J3220	5/16	19/32	5/32	19/32	5/32	3-1/2	0.03
5/16 x 9/32	J3221	5/16	19/32	5/32	19/32	5/32	3-1/2	0.03
11/32 x 3/8	J3225	3/8	3/4	5/32	47/64	5/32	3-3/4	0.05
3/8 x 11/32	J3226	3/8	3/4	5/32	3/4	5/32	3-3/4	0.05

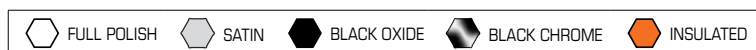


ADJUSTABLE PIN SPANNER WRENCHES

- › Non-reflective black oxide finish for use where non-plated products are required.
- › Precision machined pins provide engagement with side holes or slots.
- › Used to tighten side slot nuts on collars, lock nuts and bearings.




Product #	Capacity Range	Pin Diameter (in)	Pin Length (in)	Hook Thickness (in)	Overall Length (in)	Weight (lbs)
JC491	3/4 to 2	1/8	1/8	11/32	6-3/8	0.23
JC492	3/4 to 2	3/16	5/32	11/32	6-3/8	0.23
JC494	1-1/4 to 3	3/16	3/16	13/32	8-1/8	0.42
JC495	1-1/4 to 3	1/4	7/32	13/32	8-1/8	0.42
JC497	2 to 4-3/4	1/4	1/4	15/32	11-3/8	0.99
JC499	4-1/2 to 6-1/4	3/8	1/4	15/32	12-1/8	1.08



WRENCHES

AEROSPACE ADJUSTABLE WRENCHES

- › Wrenches meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance.
- › Extra wide jaw capacity.
- › Square jaw opening provides strength and tight fit.



	Maximum Opening (in)	Overall Length (in)	Weight (lbs)
J704A	1-1/2	4-21/64	0.15
J706A	1-31/32	6-13/64	0.32
J708A	2-7/16	8-7/64	0.59
J710A	2-53/64	10-3/64	0.99
J712A	3-17/64	12-3/64	1.50
J715A	4-1/4	15-1/16	2.65
J718A	4-15/16	18-1/8	3.75


ASME B107.100-2010



CLIK-STOP® ADJUSTABLE WRENCHES

- › Satin finish provides corrosion resistance and a slip resistant grip.
- › Extra wide jaw capacity.
- › Square jaw opening provides strength and tight fit.
- › Clik-Stop® locking design holds the moving jaw of an adjustable wrench in place when the wrench is in use.




		Maximum Opening (in)	Overall Length (in)	Weight (lbs)
J704L	J704SL	11/16	4	0.13
J706L	J706SL	15/16	6	0.34
J708L	J708SL	1-1/8	8	0.57
J710L	J710SL	1-5/16	10	0.95
J712L	J712SL	1-1/2	12	1.54
J715L	J715SL	1-11/16	15	3.13
J718L	J718SL	2-1/16	18	5.73
J724L	-	2-7/16	24	8.84


B107.100-2010 



ADJUSTABLE WRENCHES

- › Satin finish provides corrosion resistance and a slip resistant grip.
- › Extra wide jaw capacity.
- › Square jaw opening provides strength and tight fit.
- › Rugged I-beam style handle and reinforced stress areas; radius corner design.

		Cushion Grip 	Maximum Opening (in)	Overall Length (in)	Weight (lbs)
J704	J704S	J704G	11/16	4	0.17
J706	J706S	J706G	15/16	6	0.28
J708	J708S	J708G	1-1/8	8	0.58
J710	J710S	J710G	1-5/16	10	0.90
J712	J712S	J712G	1-1/2	12	1.58
J715	J715S	-	1-11/16	15	3.00
J718	J718S	-	2-1/16	18	4.26
J724	J724S	-	2-7/16	24	6.41

ASME B107.100-2010 



 6 POINT
  8 POINT
  12 POINT
  SPLINE
  HEX
  OPEN

ADJUSTABLE TORQUE WRENCHES

PRECISION TORQUE



PRECISION TORQUE

PRECISION 90 TORQUE WRENCHES

- Full polish wrenches meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance.
- Calibrated to +/- 4% clockwise direction and +/- 6% and counter clockwise direction at 20% to 100% of full scale.
- Calibration is accomplished by mechanical loading the torque wrenches.
- Manufactured to meet standard industrial torque applications, general industry, heavy equipment, and maintenance.
- 90 tooth count head allows for 4 degree arc swing.
- Small, pear head design for access in tight, hard-to-reach work areas.
- Low profile reversing lever design for quick, one hand operation.



Product #	Drive Size (in)	Torque Range (in-lbs)	Head Width (in)	Head Depth (in)	Overall Length (in)	Weight (lbs)	Storage Case
J6060HTC	1/4	10-50	1/2	1-1/8	11-3/8	2.60	J6006PBF
J6062HTC	1/4	40-200	1/2	1-1/8	11-3/8	2.60	J6006PBF
J6064HTC	3/8	40-200	1/2	1-1/8	11-3/8	2.70	J6006PBF



FIXED HEAD MICROMETER TORQUE WRENCHES - IN-LBS

- Full polish wrenches meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance.
- Calibrated to +/- 4% clockwise direction and +/- 6% and counter clockwise direction at 20% to 100% of full scale.
- Calibration is accomplished by mechanical loading of each wrench in a horizontal position and performing a three click test at 20%, 60%, and 100% of maximum instrument capacity.
- Manufactured to meet precision/highly accurate applications such as military and aerospace.
- Certification documents are traceable to N.I.S.T. (National Institute of Technology) (CXCERT only).



C Series	CXCERT Series	Drive Size (in)	Torque Range (in-lbs)	Increments (in-lbs)	Head Width (in)	Head Depth (in)	Overall Length (in)	Weight (lbs)	Storage Case
J6061C	J6061CXCERT	1/4	40-200	1	25/32	3/4	11-45/64	2.60	J6006PBF
J6063C	J6063CXCERT	3/8	40-200	1	25/32	7/8	11-45/64	2.60	J6006PBF
J6065C	J6065CXCERT	3/8	200-1000	5	55/64	7/8	15-13/64	3.00	J6006PBF

SAE AS28431B ASME B107.300-2010 

FIXED HEAD MICROMETER TORQUE WRENCHES - FT-LBS

- Full polish wrenches meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance.
- Calibrated to +/- 4% in clockwise direction and +/- 6% counter clockwise direction at 20% to 100% of full scale.
- Calibration is accomplished by mechanical loading of each wrench in a horizontal position and performing a three click test at 20%, 60%, and 100% of maximum instrument capacity.
- Manufactured to meet standard industrial torque applications, general industry, heavy equipment, and maintenance.



Product #	Drive Size (in)	Torque Range (ft-lbs)	Increments (ft-lbs)	Head Width (in)	Head Depth (in)	Overall Length (in)	Weight (lbs)	Storage Case
J6005C	3/8	16-80	0.50	55/64	7/8	15-13/54	3.00	J6006PBF
J6013C	1/2	50-250	1	1-1/8	1-7/32	26-23/32	5.90	J6014PBF
J6015C	1/2	30-150	1	1-1/8	1-7/32	21-1/8	5.00	J6014PBF
J6017B	3/4	120-600	2	1-7/8	1-7/8	41-11/64	15.50	J6007PBF

SAE AS28431B ASME B107.300-2010 

RATCHETING HEAD MICROMETER TORQUE WRENCHES - IN-LBS

- Full polish wrenches meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance.
- Calibrated to +/- 4% clockwise direction and +/- 6% and counter clockwise direction at 20% to 100% of full scale.
- Calibration is accomplished by mechanical loading of each wrench in a horizontal position and performing a three click test at 20%, 60%, and 100% of maximum instrument capacity.
- Manufactured to meet precision/highly accurate applications such as military and aerospace.
- Certification documents are traceable to N.I.S.T. (National Institute of Technology) (CXCERT only).



C Series	CXCERT Series	Drive Size (in)	Torque Range (in-lbs)	Increments (in-lbs)	Head Width (in)	Head Depth (in)	Overall Length (in)	Weight (lbs)	Storage Case	Repair Kit
J6060A	-	1/4	10-50	1	1-1/16	7/8	9-1/2	1.20	J6006PBF	J6062RK
J6062C	J6062CXCERT	1/4	40-200	1	1-1/32	3/4	11-7/8	2.60	J6006PBF	J6062RK
J6064C	J6064CXCERT	3/8	40-200	1	1-1/32	7/8	11-7/8	2.60	J6006PBF	J6064RK
J6066C	J6066CXCERT	3/8	200-1000	5	1-7/16	1-1/64	15-1/2	3.00	J6006PBF	J6006RK
J6068C	-	1/2	360-1800	10	1-7/8	1-13/32	21-1/2	5.00	J6014PBF	J6014RK
J6072C	J6072CXCERT	1/2	600-3000	10	1-7/8	1-13/32	27-1/8	5.90	J6014PBF	J6014RK

ASME B107.300-2010

RATCHETING HEAD MICROMETER TORQUE WRENCHES - FT-LBS

- Full polish wrenches meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance.
- Calibrated to +/- 4% clockwise direction and +/- 6% and counter clockwise direction at 20% to 100% of full scale.
- Calibration is accomplished by mechanical loading of each wrench in a horizontal position and performing a three click test at 20%, 60%, and 100% of maximum instrument capacity.
- Manufactured to meet precision/highly accurate applications such as military and aerospace.
- Certification documents are traceable to N.I.S.T. (National Institute of Technology) (CXCERT only).



C Series	CXCERT Series	Drive Size (in)	Torque Range (ft-lbs)	Increments (ft-lbs)	Head Width (in)	Head Depth (in)	Overall Length (in)	Weight (lbs)	Storage Case	Repair Kit
J6006C	J6006CXCERT	3/8	16-80	0.50	1-7/16	1-1/64	15-1/2	3.00	J6006PBF	J6006RK
J6012C	-	3/8	20-100	0.50	1-7/16	1-1/64	17	3.30	J6006PBF	J6006RK
J6008C	J6008CXCERT	1/2	16-80	0.50	1-7/16	1-7/32	15-1/2	3.00	J6006PBF	J6008RK
J6016C	J6016CXCERT	1/2	30-150	1	1-7/8	1-13/32	21-1/2	5.00	J6014PBF	J6014RK
J6014C	J6014CXCERT	1/2	50-250	1	1-7/8	1-13/32	27-1/8	5.90	J6014PBF	J6014RK
J6018AB	J6018CXCERT	3/4	60-300	2	2-5/8	2-1/16	32-23/32	14.00	J6007PB	J6018RK
J6020AB	J6020CXCERT	3/4	120-600	2	2-5/8	2-1/16	41-9/16	15.50	J6007PB	J6018RK
J6022B*	-	1	140-700	2	2-5/8	2-5/16	46-27/32	20.50	J6007PB	J6022RK

*SAE AS28431A ASME B107.300-2010

RATCHETING HEAD MICROMETER TORQUE WRENCHES - NM

- Full polish wrenches meet and exceed stringent aerospace specification AS4984A which requires tools to have a thicker nickel-chrome coating for greater corrosion-resistance.
- Calibrated to +/- 4% clockwise direction and +/- 6% counter clockwise direction at 20% to 100% of full scale.
- Calibration is accomplished by mechanical loading of each wrench in a horizontal position and performing a three click test at 20%, 60%, and 100% of maximum instrument capacity.
- Manufactured to meet standard industrial torque applications, general industry, heavy equipment, and maintenance.



Product #	Drive Size (in)	Torque Range (Nm)	Increments (Nm)	Torque Range (ft-lbs)	Increments (ft-lbs)	Head Width (in)	Head Depth (in)	Overall Length (in)	Weight (lbs)	Storage Case	Repair Kit
J6006MC	3/8	16-80	0.5	-	-	1-7/16	1-1/64	15-1/2	3.00	J6006PBF	J6006RK
J6006NMC*	3/8	16-80	0.5	11.1-62.7	0.5	1-7/16	1-1/64	15-1/2	3.00	J6006PBF	J6006RK
J6016MC	1/2	40-200	1	-	-	1-7/8	1-13/32	21-1/2	5.00	J6014PBF	J6014RK
J6016NMC*	1/2	40-200	1	33.2-151.2	1	1-7/8	1-13/32	21-1/2	5.00	J6014PBF	J6014RK
J6014MC	1/2	70-350	1	-	-	1-7/8	1-13/32	27-1/8	5.90	J6014PBF	J6014RK
J6014NMC*	1/2	70-350	1	55.3-261.8	1	1-7/8	1-13/32	27-1/8	5.90	J6014PBF	J6014RK
J6020NM	3/4	160-800	4	-	-	2-5/8	2-1/16	41-9/16	15.50	J6007PB	J6018RK

*Dual increment indicators

ASME B107.300-2010



PRECISION TORQUE

ELECTRONIC TORQUE WRENCHES - FT-LBS

- › LCD screen with visual alert lights and audible tone.
- › Measuring units: Nm, ft-lb, in-lb, and kg-cm.
- › Accurate to +/-2% CW and +/- 3% CCW of torque reading at 20% to 100%.
- › Operation modes include Peak or Follow mode.
- › 9 presets available.
- › 36-tooth ratcheting head.
- › Data memory size of 50.
- › Includes blow mold case, 2x AA batteries and calibration certificate.



Product #	Drive Size (in)	Torque Range (ft-lbs)	Increments (ft-lbs)	Torque Range (in-lbs)	Increments (in-lbs)	Width (in)	Height (in)	Overall Length (in)	Weight (lbs)	Battery Type
J6012E	3/8	5-99	0.10	60-1188	1	1-41/34	1-41/64	16-19/64	4.30	AA
J6014E	1/2	12.5-250	0.10	150-3000	1	1-41/34	1-41/64	25-19/32	6.40	AA

ASME B107.28

ELECTRONIC FLEX HEAD TORQUE WRENCHES - FT-LBS

- › LCD screen with visual alert lights and audible tone.
- › Measuring units: Nm, ft-lb, in-lb, and kg-cm.
- › Accurate to +/-2% CW and +/- 3% CCW of torque reading at 20% to 100%.
- › Operation modes include Peak or Follow mode.
- › 9 presets available.
- › 36-tooth ratcheting flex head.
- › Data memory size of 50.
- › Includes blow mold case, 2x AA batteries and calibration certificate.



Product #	Drive Size (in)	Torque Range (ft-lbs)	Increments (ft-lbs)	Torque Range (in-lbs)	Increments (in-lbs)	Overall Length (in)	Weight (lbs)	Battery Type
J6061EFX	1/4	1.1-22	0.01	12-264	0.10	15-19/32	4.00	AA
J6012EFX	3/8	5-99	0.10	60-1188	1	16-45/64	4.10	AA
J6014EFX	1/2	12.5-250	0.10	150-3000	1	25-51/64	6.40	AA

ASME B107.28

ELECTRONIC ANGLE TORQUE WRENCH - FT-LBS

- › LCD screen with visual alert lights and audible tone.
- › Measuring units: Nm, ft-lb, in-lb, and kg-cm.
- › Accurate (J6012EA) to +/-2% CW and +/- 3% CCW and (J6020EA) +/- 2.5% CW and +/- 3.5% CCW of torque reading at 20% to 100%.
- › Angle Accuracy: +/- 2° (rotating 90° at speed of 30° per second).
- › Operation modes include Peak or Follow mode.
- › 9 presets available.
- › 36-tooth ratcheting head (J6012EA) and 48-tooth ratcheting head (J6020EA).
- › Data memory size of 50.
- › Includes blow mold case, 2x AA batteries and calibration certificate.



Product #	Drive Size (in)	Torque Range (ft-lbs)	Increments (ft-lbs)	Torque Range (in-lbs)	Increments (in-lbs)	Overall Length (in)	Weight (lbs)	Battery Type
J6012EA	3/8	5-99	0.1	60-1188	1	48-1/32	4.10	AA
J6020EA	3/4	30-600	0.1	360-7200	1	16-47/64	12.10	AA

ASME B107.28

ELECTRONIC TORQUE WRENCHES

PRECISION TORQUE

ELECTRONIC TORQUE TESTERS

- › Digital torque tester with LCD screen and audible beeps.
- › Main power with adapter.
- › Accurate to +/- 1% CW / +/- 3% CCW.
- › Measuring Units: ft-lbs, in-lbs, and Nm.
- › Operation modes include Peak, Hold and Dial modes.
- › Include blow mold case with AC/DC adapter and calibration certificate.



Product #	Drive Size (in)	Drive Size (mm)	Torque Range (ft-lbs)	Torque Range (in-lbs)	Width (in)	Height (in)	Overall Length (in)	Weight (lbs)
J6470E	1/4	-	-	5-50	5-19/32	3-1/2	6-13/32	10.50
J6472E	3/8	-	-	25-250	5-19/32	3-1/2	6-13/32	11.00
J6474E	3/8	-	5-50	-	5-19/32	3-1/2	6-13/32	11.00
J6476E	1/2	-	25-250	-	5-19/32	3-1/2	6-13/32	11.00
J6478E	-	27	60-600	-	5-19/32	3-1/2	6-13/32	11.60

ELECTRONIC TORQUE TESTERS




PRECISION TORQUE

TORQUE SCREWDRIVERS

- › Calibrated to ± 4% of torque reading, clockwise at 20% to 100% of full scale.
- › 1/4" Square to 1/4" Hex Adapter included for use with insert bits.
- › Industrial heavy duty design.
- › Aircraft grade aluminum.
- › Aircraft quality spring.
- › Positive self locking lock ring.
- › Floating three point reaction for repeatability.
- › Laser marked easy-to-read scale.
- › N.I.S.T. (National Institute of Standards and Technology) traceable certification supplied with J6104ACERT and J610EACERT.



Product #	Certified Series	Drive Size (in)	Torque Range (in-lbs)	Increments (in-lbs)	Torque Range (in-oz)	Increments (in-oz)	Width (in)	Height (in)	Overall Length (in)	Weight (lbs)
J6104A	J6104ACERT	1/4	-	-	20-100	2	1-1/4	1-1/4	6-1/2	1.00
J6106A	J6106ACERT	1/4	7-36	1	-	-	1-1/4	1-1/4	6-1/2	1.00

ASME B107.600 


TORQUE SCREWDRIVERS, WRENCH HEADS & ADAPTERS

OPEN END TORQUE WRENCH HEADS - H4 TANG

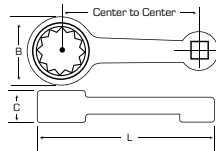
- › Open end is angled to 15° to help keep shank clear of obstructions helping to improve access.



Product #	INCH	MM	Width (in)	Height (in)	Overall Length (in)	Weight (lbs)
JH4-12	3/8	-	27/32	7/16	3-1/16	0.08
JH4-14	7/16	-	15/16	7/16	3-1/32	0.09
JH4-16	1/2	-	1-1/16	7/16	3-3/32	0.11
JH4-18	9/16	-	1-7/32	7/16	3-5/32	0.13
JH4-10M	-	10	27/32	7/16	3-1/16	0.08
JH4-11M	-	11	15/16	7/16	3-1/32	0.09
JH4-12M	-	12	1-1/32	7/16	3-1/16	0.10
JH4-13M	-	13	1-1/16	7/16	3-3/32	0.11
JH4-14M	-	14	1-7/32	7/16	3-5/32	0.13

Must be used with wrenches: JH4-250, JH4-150PS, JH4-50FPS 

3/8" DRIVE TORQUE ADAPTERS - 12 POINT

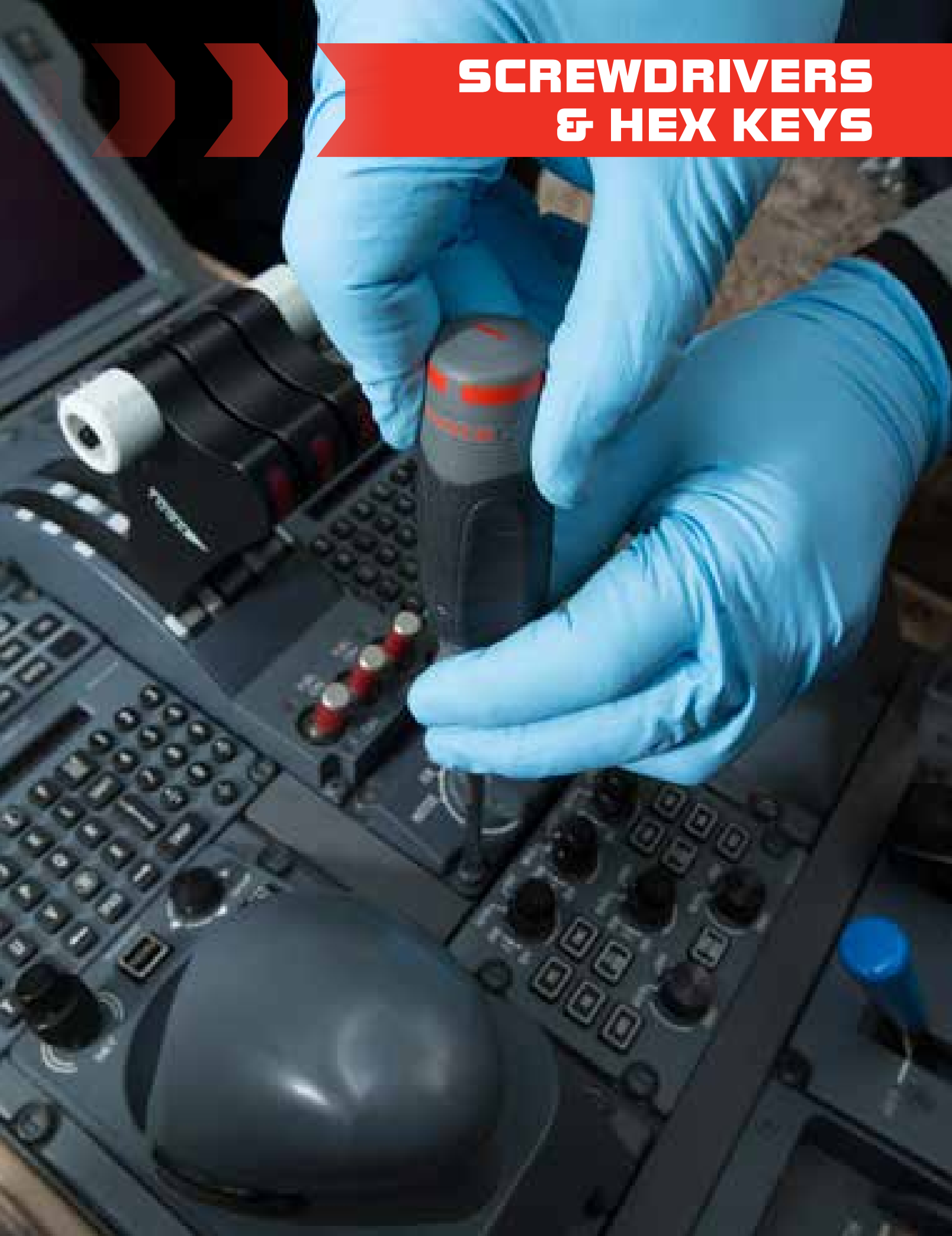


Product #	Size (in)	Drive Size (in)	Head Width (in) (B)	Head Depth (in) (C)	Overall Length (in) (L)	Weight (lbs)
J5112	3/8	3/8	9/16	17/64	2-11/16	0.08
J5114	7/16	3/8	21/32	19/64	2-47/64	0.10
J5116	1/2	3/8	47/64	21/64	2-25/32	0.10
J5118	9/16	3/8	13/16	23/64	2-13/16	0.12
J5120	5/8	3/8	29/32	25/64	2-55/64	0.12
J5122	11/16	3/8	1	27/64	2-29/32	0.12
J5124	3/4	3/8	1-5/64	29/64	2-61/64	0.12





SCREWDRIVERS & HEX KEYS



SCREWDRIVERS


DURATEK™ 8 PIECE COMBINATION SCREWDRIVER SET – FULL POLISH

Product #: J1208SCP



Contents	Description	Tip Size	Tips	Shank Length (in)	Shank Type	Overall Length (in)	Weight (lbs)
JK14112R	Screwdriver, Slotted Keystone Round Stubby 1/4" x 1-1/2"	1/4	Keystone	1-1/2	Round	3-1/2	0.12
JKB31603RP	Screwdriver, Slotted Keystone Round 3/16" x 3"	3/16	Keystone	3	Round	7-1/4	0.16
JKB1404RP	Screwdriver, Slotted Keystone Round 1/4" x 4"	1/4	Keystone	4	Round	8-1/2	0.26
JKB51606RP	Screwdriver, Slotted Keystone Round 5/16" x 6"	5/16	Keystone	6	Round	10-3/4	0.39
JKB3808RP	Screwdriver, Slotted Keystone Round 3/8" x 8"	3/8	Keystone	8	Round	13	0.57
JPO2112R	Screwdriver, Phillips Round Stubby # 2 x 1-1/2"	#2	Phillips	1-1/2	Round	3-1/2	0.12
JPB0103RP	Screwdriver, Phillips Round # 1 x 3"	#1	Phillips	3	Round	6-1/4	0.18
JPB0204RP	Screwdriver, Phillips Round # 2 x 4"	#2	Phillips	4	Round	8-1/2	0.27

Weight (lbs): 2.35

ASME B107.600 

DURATEK™ SCREWDRIVER SETS


DURATEK™ 6 PIECE COMBINATION SCREWDRIVER SET - FULL POLISH

Product #: J1206SCP



Contents	Description	Tip Size	Tips	Shank Length (in)	Shank Type	Overall Length (in)	Weight (lbs)
JKB31603RP	Screwdriver, Slotted Keystone Round 3/16" x 3"	3/16	Keystone	3	Round	7-1/4	0.16
JKB1404RP	Screwdriver, Slotted Keystone Round 1/4" x 4"	1/4	Keystone	4	Round	8-1/2	0.26
JKB51606RP	Screwdriver, Slotted Keystone Round 5/16" x 6"	5/16	Keystone	6	Round	10-3/4	0.39
JPB0103RP	Screwdriver, Phillips Round # 1 x 3"	#1	Phillips	3	Round	6-1/4	0.18
JPB0204RP	Screwdriver, Phillips Round # 2 x 4"	#2	Phillips	4	Round	8-1/2	0.27
JPB0306RP	Screwdriver, Phillips Round # 3 x 6"	#3	Phillips	6	Round	10-3/4	0.40

Weight (lbs): 1.89

ASME B107.600 

SCREWDRIVERS

DURATEK™ 8 PIECE LONG COMBINATION SCREWDRIVER SET

Product #: J1208SCL



Contents	Description	Tip Size	Tips	Shank Length (in)	Shank Type	Overall Length (in)	Weight (lbs)
JC31606R	Screwdriver, Slotted Cabinet Round 3/16" x 6"	3/16	Cabinet	6	Round	9	0.20
JC1410R	Screwdriver, Slotted Cabinet Round 1/4" x 10"	1/4	Cabinet	10	Round	14	0.34
JC1412R	Screwdriver, Slotted Cabinet Round 1/4" x 12"	1/4	Cabinet	12	Round	16	0.39
JC1416R	Screwdriver, Slotted Cabinet Round 1/4" x 16"	1/4	Cabinet	16	Round	20	0.39
JP0108R	Screwdriver, Phillips Round # 1 x 8"	#1	Phillips	8	Round	11-3/4	0.22
JP0208R	Screwdriver, Phillips Round # 2 x 8"	#2	Phillips	8	Round	12	0.31
JP0212R	Screwdriver, Phillips Round # 2 x 12"	#2	Phillips	12	Round	16	0.40
JP0216R	Screwdriver, Phillips Round # 2 x 16"	#2	Phillips	16	Round	20	0.39

Weight (lbs): 2.49

ASME B107.600



DURATEK™ SCREWDRIVER SETS

SCREWDRIVERS

DURATEK™ PERFORMANCE GRIP SCREWDRIVERS



DURATEK™ SCREWDRIVERS

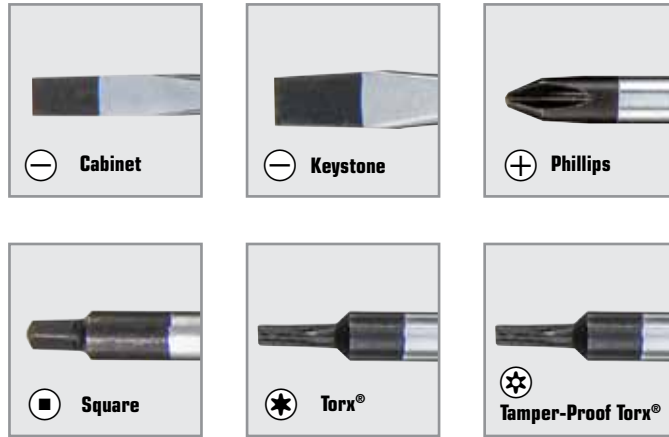
Product #	Tip Size	Tips	Shank Length (in)	Shank Type	Bolster	Overall Length (in)	Weight (lbs)
JCP1802R	1/8	Cabinet	2	Round	–	4	0.08
JCP1803R	1/8	Cabinet	3	Round	–	5	0.09
JCP1804R	1/8	Cabinet	4	Round	–	6	0.09
JCP1806R	1/8	Cabinet	6	Round	–	8	0.10
JCP1808R	1/8	Cabinet	8	Round	–	10	0.09
JCP31603R	3/16	Cabinet	3	Round	–	6-5/16	0.10
JC31603R	3/16	Cabinet	3	Round	–	6	0.17
JC31604R	3/16	Cabinet	4	Round	–	7	0.18
JC31605R	3/16	Cabinet	5	Round	–	8	0.17
JC31606R	3/16	Cabinet	6	Round	–	9	0.20
JC31608R	3/16	Cabinet	8	Round	–	11	0.19
JC31610R	3/16	Cabinet	10	Round	–	13	0.24
JC31612R	3/16	Cabinet	12	Round	–	15	0.27
JC1410R	1/4	Cabinet	10	Round	–	14	0.34
JC1412R	1/4	Cabinet	12	Round	–	16	0.39
JC1416R	1/4	Cabinet	16	Round	–	20	0.39
JKB31603RP	3/16	Keystone	3	Round	Yes	7-1/4	0.16
JK31604S	3/16	Keystone	4	Square	–	7	0.19
JK14112R	1/4	Keystone	1-1/2	Round	–	3-1/2	0.12
JK1404S	1/4	Keystone	4	Square	–	8	0.27
JK1404R	1/4	Keystone	4	Round	–	8	0.25
JKB1404RP	1/4	Keystone	4	Round	Yes	8-1/2	0.26
JK1406R	1/4	Keystone	6	Round	–	10	0.29
JK1424R	1/4	Keystone	24	Round	–	28-1/2	0.51
JK51604R	5/16	Keystone	4	Round	–	8-3/8	0.33
JK51606S	5/16	Keystone	6	Square	–	10	0.41
JKB51606RP	5/16	Keystone	6	Round	Yes	10-3/4	0.39
JK51606R	5/16	Keystone	6	Round	–	10-3/8	0.37
JK51608R	5/16	Keystone	8	Round	–	12-3/8	0.41
JKB3808RP	3/8	Keystone	8	Round	Yes	13	0.57
JK3808R	3/8	Keystone	8	Round	–	13	0.54
JK3808S	3/8	Keystone	8	Square	–	13	0.60
JK3810R	3/8	Keystone	10	Round	–	11	0.62
JK3812R	3/8	Keystone	12	Round	–	17	0.69
JK3812S	3/8	Keystone	12	Square	–	17	0.77

ASME B107.600 

Torx® is a trademark of Acument Intellectual Properties, LLC

SCREWDRIVERS

DURATEK™ PERFORMANCE GRIP SCREWDRIVERS (CONT'D)



Product #	Tip Size	Tips	Shank Length (in)	Shank Type	Bolster	Overall Length (in)	Weight (lbs)
JPP0002R	#0	Phillips	2	Round	–	4-1/2	0.08
JPP0003R	#0	Phillips	3	Round	–	5-3/4	0.08
JPP0103R	#1	Phillips	3	Round	–	6-5/16	0.10
JPB0103RP	#1	Phillips	3	Round	Yes	6-1/4	0.18
JP0103R	#1	Phillips	3	Round	–	6-3/4	0.17
JP0108R	#1	Phillips	8	Round	–	11-3/4	0.22
JP02112R	#2	Phillips	1-1/2	Round	–	3-1/2	0.12
JPB0204RP	#2	Phillips	4	Round	Yes	8-1/2	0.27
JP0204R	#2	Phillips	4	Round	–	8	0.26
JP0208R	#2	Phillips	8	Round	–	12	0.31
JP0212R	#2	Phillips	12	Round	Yes	16	0.40
JP0216R	#2	Phillips	16	Round	Yes	20	0.39
JP0224R	#2	Phillips	24	Round	–	28-1/2	0.50
JPB0306RP	#3	Phillips	6	Round	Yes	10-3/4	0.40
JP0306R	#3	Phillips	6	Round	–	10-3/8	0.38
JP0408R	#4	Phillips	8	Round	–	13	0.57
JS0005R	#0	Square	5	Round	–	9	0.19
JS0105R	#1	Square	5	Round	–	9-1/4	0.19
JS0205R	#2	Square	5	Round	–	9-1/4	0.19
JS0305R	#3	Square	5	Round	–	9-1/4	0.19
JT8314R	T8	Torx®	3-1/4	Round	–	7	0.17
JT10314R	T10	Torx®	3-1/4	Round	–	7	0.18
JT15314R	T15	Torx®	3-1/4	Round	–	7	0.18
JT20314R	T20	Torx®	3-1/4	Round	–	7	0.18
JT25314R	T25	Torx®	3-1/4	Round	–	7	0.18
JT2704R	T27	Torx®	4	Round	–	8-1/2	0.26
JT3004R	T30	Torx®	4	Round	–	8-1/2	0.26
JT4006R	T40	Torx®	6	Round	–	10-3/4	0.38
JT4506R	T45	Torx®	6	Round	–	10-3/4	0.38
JTP8008R	TP8	Tamper-Proof Torx®	8	Round	–	12-1/4	0.17
JTP1008R	TP10	Tamper-Proof Torx®	8	Round	–	12-1/4	0.18
JTP1508R	TP15	Tamper-Proof Torx®	8	Round	–	12-1/4	0.18
JTP2008R	TP20	Tamper-Proof Torx®	8	Round	–	12-1/4	0.18
JTP2508R	TP25	Tamper-Proof Torx®	8	Round	–	12-1/4	0.18
JTP2708R	TP27	Tamper-Proof Torx®	8	Round	–	12-1/2	0.26
JTP3008R	TP30	Tamper-Proof Torx®	8	Round	–	12-1/2	0.26

ASME B107.600

DURATEK™ SCREWDRIVERS

SCREWDRIVERS


13 PIECE HEX KEY SET

Product #: **J4980**

- ▶ Molded plastic holder included.

Contents	INCH	Long Arm Length (in)	Short Arm Length (in)
J46103	0.050	1-11/16	1/2
J46104	1/16	1-3/4	9/16
J46105	5/64	1-7/8	5/8
J46106	3/32	2	11/16
J46107	7/64	2-1/8	23/32
J46108	1/8	2-1/4	3/4
J46109	9/64	2-3/8	13/16
J46110	5/32	2-1/2	27/32
J46112	3/16	2-3/4	15/16
J46114	7/32	3	1
J46116	1/4	3-1/4	1-1/8
J46120	5/16	3-3/4	1-1/4
J46124	3/8	4-1/4	1-3/8

Weight (lbs): 0.60

ASME B18.3-2012 




9 PIECE HEX KEY SET - METRIC

Product #: **J4984**

- ▶ Molded plastic holder included.

Contents	MM	Long Arm Length (in)	Short Arm Length (in)
J46306	1.5	1-47/64	33/64
J46308	2	1-59/64	5/8
J46310	2.5	2-11/64	45/64
J46312	3	2-7/16	3/4
J46314	4	2-43/64	15/16
J46316	5	3-5/64	1-1/16
J46318	6	3-15/32	1-7/32
J46320	8	3-55/64	1-3/8
J46322	10	4-19/64	1-17/32

Weight (lbs): 0.54

ASME B18.3.2M 




9 PIECE ROUND HEAD HEX KEY SET - METRIC

Product #: **J4996**

- ▶ Ball end can tighten or loosen screws at angles up to 25°.
- ▶ Molded plastic holder included.

MM	Long Arm Length (in)	Short Arm Length (in)
1.5	3-3/64	1/2
2	3-1/4	39/64
2.5	3-1/2	45/64
3	3-7/8	47/64
4	4-11/32	55/64
5	4-45/64	1-1/16
6	5-7/16	1-7/32
8	6-1/64	1-3/8
10	6-11/16	1-17/32

Weight (lbs): 1.70

ASME B18.3-2012 



HEX KEY SETS


STANDARD HEX KEYS

- › Heat-treated for durability.
- › Rust resistant black oxide finish.



Product #	INCH	MM	Long Arm Length (in)	Short Arm Length (in)	Weight (lbs)
J46101	0.028	–	1-1/4	1/8	0.01
J46102	0.035	–	1-1/4	3/16	0.01
J46103	0.050	–	1-11/16	1/2	0.01
J46104	1/16	–	1-3/4	9/16	0.01
J46105	5/64	–	1-7/8	5/8	0.01
J46106	3/32	–	2	11/16	0.01
J46107	7/64	–	2-1/8	23/32	0.01
J46108	1/8	–	2-1/4	3/4	0.01
J46109	9/64	–	2-3/8	13/16	0.02
J46110	5/32	–	2-1/2	27/32	0.02
J46112	3/16	–	2-3/4	15/16	0.03
J46114	7/32	–	3	1	0.05
J46116	1/4	–	3-1/4	1-1/8	0.07
J46120	5/16	–	3-3/4	1-1/4	0.10
J46124	3/8	–	4-1/4	1-3/8	0.19
J46128	7/16	–	4-3/4	1-1/2	0.31
J46132	1/2	–	5-1/4	1-5/8	0.31
J46136	9/16	–	5-3/4	1-3/4	0.31
J46140	5/8	–	6-1/4	1-7/8	0.58
J46300	–	0.7	1-7/32	15/64	0.01
J46302	–	0.9	1-7/32	23/64	0.01
J46304	–	1.3	1-39/64	33/64	0.01
J46306	–	1.5	1-47/64	33/64	0.01
J46308	–	2	1-59/64	5/8	0.01
J46310	–	2.5	2-11/64	45/64	0.01
J46312	–	3	2-7/16	3/4	0.01
J46314	–	4	2-43/64	15/16	0.01
J46316	–	5	3-5/64	1-1/16	0.04
J46318	–	6	3-15/32	1-7/32	0.07
J46320	–	8	3-55/64	1-3/8	0.13
J46322	–	10	4-19/64	1-17/32	0.23
J46324	–	12	4-51/64	1-47/64	0.36
J46326	–	14	5-23/64	2-11/64	0.57
J46328	–	17	6-9/64	2-13/32	0.95

HEX KEYS

ASME B18.3-2012 


SCREWDRIVERS

LONG HEX KEYS

- › Heat-treated for durability.
- › Rust resistant black oxide finish.



Product #	INCH	Long Arm Length (in)	Short Arm Length (in)	Weight (lbs)
J46203	.050	2-7/8	1/2	0.01
J46204	1/16	3	9/16	0.01
J46205	5/64	3-3/16	5/8	0.01
J46206	3/32	3-3/8	11/16	0.01
J46207	7/64	3-9/16	23/32	0.01
J46208	1/8	3-3/4	3/4	0.02
J46209	9/64	3-15/16	13/16	0.03
J46210	5/32	4-1/8	27/32	0.03
J46212	3/16	4-1/2	15/16	0.05
J46214	7/32	4-7/8	1	0.07
J46216	1/4	5-1/4	1-1/8	0.10
J46220	5/16	6	1-1/4	0.17
J46224	3/8	6-3/4	1-3/8	0.28
J46228	7/16	7-1/2	1-1/2	0.45
J46232	1/2	8-1/4	1-5/8	0.61

ASME B18.3-2012 

HEX KEYS

T-HANDLE HEX KEYS

- › T-handle design for greater torque.
- › Cushion grip handle provides added comfort.
- › Hex size printed on handle for easy size identification.

Product #	INCH	Handle Length (in)	Length (in)	Weight (lbs)
J46405	5/64	3	6	0.11
J46406	3/32	3	6	0.11
J46407	7/64	3	6	0.11
J46408	1/8	3	6	0.14
J46409	9/64	3	6	0.14
J46410	5/32	3	6	0.32
J46412	3/16	4	6	0.32
J46414	7/32	4	6	0.63
J46416	1/4	4	6	0.82
J46420	5/16	6	6	0.89
J46424	3/8	6	6	0.90



PLIERS & CLAMPING



PLIERS & CLAMPING

HEAVY-DUTY DIAGONAL CUTTING PLIERS

- › Induction hardened cutting edge.
- › Powerful leverage cuts heavy wire with ease.
- › Plastisol grips for added comfort.



Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
J2096	7-5/16	2-5/32	7/8	1/2	0.58
J2106	8-1/2	3/4	1-7/32	15/32	0.64

ASME B107.600 

LINEMAN'S PLIERS - HIGH LEVERAGE

- › Jaws have offset rivet for increased leverage.
- › Designed for cutting No. 8 and other large wires.
- › Diamond serrated jaws.
- › Plastisol grips for added comfort.



Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
J2696	9-1/4	1-3/16	1-3/32	5/8	1.10

ASME B107.600 

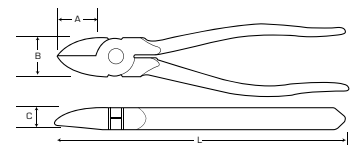
SOFT JAW - CANNON PLUG PLIERS

- › Capacity of 3/4" to 2-1/2".
- › Four position pivot design provides greater concentricity.
- › Replaceable urethane padded jaws protect work piece from marking or scratching.
- › Plastisol grips for added comfort.



Product #	Overall Length (in) (L)	Max. Opening (in)	Replacement Item	Weight (lbs)
J2536	9-1/2	2-1/2	253GRK	0.54

ASME B107.600 




PLIERS & CLAMPING

LOCKING SHEET METAL TOOL

- › Wide jaw profile to allow powerful grip on large thin surfaces.
- › Clamps, forms, bends, and crimps sheet metal.



Product #	Jaw Length (in) (A)	Jaw Width (in) (B)	Overall Length (in) (L)	Height (in)	Weight (lbs)
J260XL	1-3/4	3-11/64	8	2-1/4	1.14

ASME B107.600 

LOCKING C-CLAMPS WITH SWIVEL PADS

- › Knurled swivel pads - allow non-slip, no damage parallel clamping even on tapered surfaces.
- › J269XL - small in size for delicate and fine work and ideal for electronics.
- › Safely clamps delicate surfaces - wood, plastic and soft materials.



Product #	Throat Height (in)	Throat Depth (in)	Jaw Width (in)	Height (in)	Overall Length (in) (L)	Weight (lbs)
J269XL	2-15/32	2-21/32	3/4	3-1/2	7	0.56
J270XL	3-7/8	4-5/8	1-1/8	5-11/16	11-55/64	2.10
J271XL	4-21/64	7	1-1/8	6-15/32	14-1/8	2.90
J272XL	4-19/64	11-23/64	1-1/8	6-17/32	14-1/8	3.43
J273XL	4-1/4	17-5/8	1-1/8	6-31/64	24-7/8	4.14

ASME B107.600

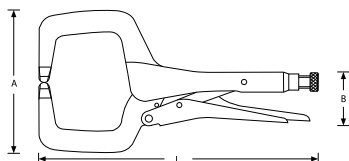
LOCKING ALUMINUM ALLOY C-CLAMPS

- › Modern ergonomic clamps with aircraft aluminum alloy jaws for professional welding and metal work.
- › Lightweight for comfort and ease of handling for the intensive user.
- › Spatter resistant material to ensure good working order and helps avoid tiresome cleaning.
- › Heat-treated die cast jaws to ensure resist and durability.



Product #	Throat Height (in)	Throat Depth (in)	Jaw Width (in)	Height (in)	Overall Length (in) (L)	Weight (lbs)
J274XL	4-3/64	4-19/64	4-55/64	5-7/8	11-5/32	1.40
J275XL	7-3/16	6-3/4	3/4	9-13/32	13-1/16	1.96

ASME B107.600



LOCKING PLIERS

PLIERS & CLAMPING

SAFETY WIRE TWISTER REVERSIBLE & AUTOMATIC PLIERS

- › Reversible safety wire pliers provide right and left twist capability often eliminating the need for a second pliers.
- › Automatic spring return feature speeds operation and reduces fatigue.
- › Meet SAE Aerospace Standard AS 567 Twister Requirements.
- › Provides all of the features of standard Proto® Safety Wire Pliers.



Product #	Wire Size (in)	Overall Length (in) (L)	Weight (lbs)
J196	0.020 - 0.041	8-3/4	0.64
J197	0.020 - 0.060	11	0.88
J198	0.020 - 0.060	12-1/2	0.91

ASME B107.600 

WIRE STRIPPER - CUTTER

- › Strips 10-30 AWG - American Wire Gauge.
- › Wire cutter.
- › Pliers nose for pulling and looping wire.
- › Spring return and convenient handle lock.
- › Plastisol grips for added comfort.



Product #	Overall Length (in) (L)	Wire Sizes	Weight (lbs)
J297	6-1/16	10, 12, 14, 16, 18, and 20 AWG	0.21
J296	6-1/16	22, 24, 26, 28, and 30 AWG	0.21

ASME B107.600 

WIRE STRIPPER - PLIERS

- › Strips 10-22 AWG - American Wire Gauge.
- › Crimps insulated and non-insulated terminals for 10-22 AWG wire.
- › Crimps non-insulated 7 mm and 8 mm auto ignition wire.
- › Cuts screw/bolt sizes 4-40, 5-40, 6-32, 8-32, 10-32, 10-24 and copper wire.
- › Extended length curved cutter to handle heavier wire with less force.
- › Pliers nose designed to grip, bend, and pull wire.
- › Plastisol grips for added comfort.



Product #	Overall Length (in) (L)	Weight (lbs)
J298	8-1/4	0.50

ASME B107.600 

6 PIECE CONVERTIBLE RETAINING RING PLIERS SET


Product #: J360A

- › Convenient blow-molded carrying case includes storage for space rings.
- › Ring range: External (Shaft) 1/4" - 3-11/32"; Internal (Bore) 3/8" - 3".



Contents	Tip Size	Tip Angle	Length (in)	Shaft Dia. (in) (External)	Bore Dia. (in) (Internal)	Weight (lbs)
J399	0.038	0°	5-7/8	1/4 - 43/64	3/8 - 9/16	0.15
J371	0.038	90°	5-11/16	1/2 - 25/32	3/8 - 9/16	0.16
J372	0.047	0°	5-7/8	11/16 - 7/8	5/8 - 1	0.16
J374	0.047	90°	5-11/16	13/16 - 1	5/8 - 1	0.16
J385	0.070	0°	7-1/2	15/16 - 1-7/16	1-1/16 - 13/4	0.29
J376	0.070	90°	7-1/8	1 - 1/16, 2	1-7/16 - 2	0.31

Weight (lbs): 2.10

ASME B107.600 

SAFETY WIRE TWISTERS, WIRE STRIPPERS & RETAINING RING PLIERS

C-CLAMPS - STANDARD SERVICE DEEP THROAT FULL LENGTH SCREW

- › Standard service, deep throat style is the most versatile and popular.
- › Hot forged for strength and hard use.
- › Forcing screw has heavy rolled Acme thread allowing the screw to turn easily under pressure and is less susceptible to damage.
- › Forcing screw has a sliding T-handle and an impact resistant pad.



Product #	Opening Range (in) (C)	Throat Depth (in) (T)	Thread Diameter (in) (D)	Minimum Test Load (lbs)	Weight (lbs)
J402	0-2	2	1/2	3500	1.30
J403	0-3	2-3/8	1/2	3500	2.00
J404	0-4	2-3/4	3/4	6500	3.50
J406	0-6	3-5/8	3/4	6600	5.00
J408	0-8	4-1/2	3/4	6900	7.00
J410	0-10	5-3/8	3/4	8000	10.50
J412	0-12	5-3/4	7/8	9500	15.50


ASME B107.600 

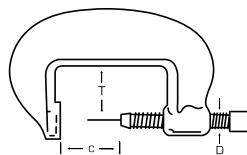
C-CLAMPS - STANDARD SERVICE DEEP THROAT SPATTER RESISTANT FULL LENGTH SCREW

- › Forcing screw and pad are plated with copper to resist welding spatter.
- › Hot forged for strength and hard use.
- › Forcing screw has heavy rolled Acme thread allowing the screw to turn easily under pressure and is less susceptible to damage.
- › Forcing screw has a sliding T-handle and an impact resistant pad.



Product #	Opening Range (in) (C)	Throat Depth (in) (T)	Thread Diameter (in) (D)	Minimum Test Load (lbs)	Weight (lbs)
J402S	0-2	2	1/2	3300	1.30
J403S	0-3	2-3/8	1/2	3500	2.00
J404S	0-4	2-3/4	3/4	4100	3.50
J406S	0-6	3-5/8	3/4	5400	5.00
J408S	0-8	4-1/2	3/4	5900	7.00
J410S	0-10	5-3/8	3/4	6200	10.50
J412S	0-12	5-3/4	7/8	9300	15.50

ASME B107.600 

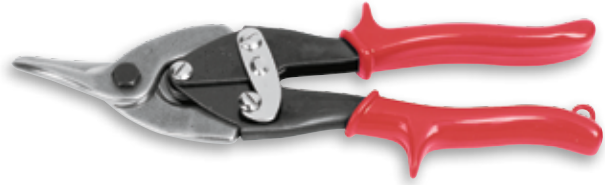


C-CLAMPS


PLIERS & CLAMPING

AVIATION SNIPS

- › Available in straight, left, or right models.
- › Compound leverage multiplies handle pressure and increases control for intricate cutting.
- › Serrated blades for maximum grip of the material being cut.
- › Color coded vinyl grips.



Product #	Cuts	Handle Color	Blade Length (in)	Overall Length (in)	Weight (lbs)
J303L	Left	Red	1-3/8	10	0.94
J303R	Right	Green	1-3/8	10	0.94
J303S	Straight	Yellow	1-3/8	10	0.94

ASME B107.600 

CIRCULAR CUTTING DUCKBILL SNIPS

- › Duckbill snips are designed for circle and odd shaped radius cutting.
- › Plastisol grips for added comfort.

Product #	Blade Length (in)	Overall Length (in)	Weight (lbs)
J307	1-1/2	7	0.45
J310	2	10	0.95
J312	2-3/4	12-3/4	1.61

ASME B107.600 



STRAIGHT CUTTING SNIPS

- › Designed for all straight cutting including inside and outside corners.
- › Plastisol grips for added comfort.

Product #	Blade Length (in)	Overall Length (in)	Weight (lbs)
J317	1-1/2	7	0.48
J320	2	10	0.93
J322	2-3/4	12-3/4	1.64

ASME B107.600 



SNIPS

STRIKING & PRYING



STRIKING & PRYING

DEAD BLOW COMPO-CAST® COMBO FACE HAMMERS

- › Top welded handle-to-head assembly adds extra durability and safety.
- › Hot urethane Uni-Cast construction outlasts all other soft face striking tools. Urethane composition provides shape-retaining faces even after repeated striking on hard surfaces and sharp edges.
- › Handle is reinforced with solid steel shaft for greater strength safety.
- › Top of head molded with a flat surface.
- › Dual head design (Standard Dead Blow and Slim-line heads).
- › Comfortable dual molded grip.



Top of head molded with flat surface.




Dual head design (standard dead blow and slim-line heads).



Double flange butt handle.



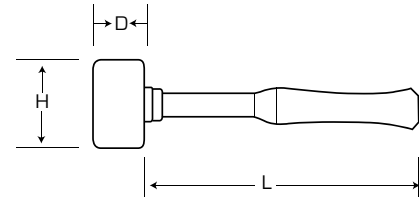
Product #	Head Weight (oz)	Face Dia. (in) (D)	Head Length (in) (H)	Overall Length (in) (L)	Weight (lbs)
J57-530	15	1" x 1-1/4"	3-3/4	10-2/5	0.90
J57-531	21	1-1/4" x 1-35/64"	4-1/2	11-13/20	1.40
J57-532	28	1-11/32" x 1-45/64"	5-7/50	13-1/4	1.80
J57-533	48	1-45/64" x 2-3/32"	5-4/5	14-1/4	2.95
J57-534	56	1-61/64" x 2-13/32"	6-1/5	15-19/20	3.70

ASME B107.54 


COMPO-CAST® & SOFT FACE HAMMERS

SOFT FACE HAMMER - MEDIUM/TOUGH TIPS

- › Two mar-resistant plastic tips, one medium, and one tough.
- › Tips are screw-on and replaced easily.
- › Fiberglass handle with ergonomic, non-slip grip.



Product #	Face Dia. (in) (D)	Head Length (in) (H)	Overall Length (in) (L)	Weight (lbs)
J1360	1-3/16	2-3/4	13-21/64	0.81
J1362	1-11/32	2-3/16	13-15/32	1.05
J1364	1-11/16	4-11/16	14-53/64	2.06

ASME B107.54 




SOFT FACE HAMMER - MEDIUM/HARD TIPS

- › Each hammer comes with one medium and one hard tip installed.
- › Fiberglass handle with ergonomic, non-slip grip.



Product #	Face Dia. (in) (D)	Head Length (in) (H)	Tip Series	Overall Length (in) (L)	Weight (lbs)
JSF105HM	1	2	SF10 Series Tips	13	0.60
JSF150HM	1-1/2	2-3/8	SF15 Series Tips	13-1/2	0.79
JSF200HM	2	2-1/2	SF20 Series Tips	14	1.43
JSF205HM	2	2-1/2	SF20 Series Tips	14	2.06


ASME B107.54 

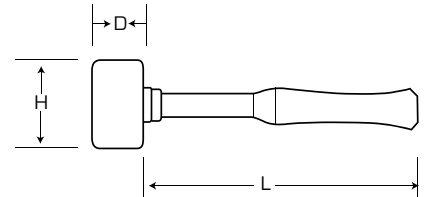
STRIKING & PRYING

BALL PEIN HAMMERS - INDUSTRIAL WOOD HANDLE

- › Tough drop-forged head with Rim-Tempered™ hardened face and pein.
- › Face, chamfer, cheeks and pein are polished and have a protective coating of clear lacquer.
- › Hardwood handles have contoured shape with red lacquer grip.

Product #	Head Weight (oz)	Overall Length (in) (L)	Weight (lbs)
J1304PD	4	11	0.45
J1308PD	8	12	0.83
J1312PD	12	13	1.14
J1316PD	16	14-1/2	1.45
J1324PD	24	15	2.00
J1332PD	32	15-7/8	2.42
J1340PD	40	16-3/8	2.84


ASME B107.53M 



BALL PEIN HAMMERS - INDUSTRIAL FIBERGLASS HANDLE

- › Well-balanced professional hammer with hardened drop-forged head bonded to strong, lightweight fiberglass handle. Exclusive Rim-Tempered™ process minimizes chipping from off-center strikes.
- › Molded jacket over the fiberglass handle provides maximum overstrike protection.

Product #	Head Weight (oz)	Overall Length (in) (L)	Weight (lbs)
J1312PGD	12	13	1.31
J1316PGD	16	13	1.54
J1324PGD	24	14-3/16	2.18
J1332PGD	32	15-1/4	2.62


ASME B107.53M 



RUBBER MALLET

- › Soft but tough, flake-resistant Neoprene head prevents damage.
- › Hickory handle.

Product #	Face Dia. (in) (D)	Head Length (in) (H)	Overall Length (in) (L)	Weight (lbs)
J1368	2-1/4	4	13-1/2	1.43


ASME B107.54 



DEAD BLOW HAMMERS

- › Spark-resistant for safe use near combustible materials.
- › Head contains steel shot to help prevent rebound and vibration.
- › Fiberglass handle.

Product #	Head Weight (lbs)	Face Dia. (in) (D)	Head Length (in) (H)	Overall Length (in) (L)	Weight (lbs)
J1429DB	1	1-5/8	4	11-59/64	1.25
J1430DB	2	2	4-3/8	12-11/16	1.65
J1432DB	3	2-1/2	4-5/8	14	2.60
J1431DB	4	2-7/8	5	14-9/64	3.09

ASME B107.54 



BALL PEIN & HARD FACE HAMMERS

STRIKING & PRYING

5 PIECE LONG DRIVE PIN PUNCH SET

Product #: **J48005LS2**

- › Reverse taper to help prevent binding.
- › Made from S2 steel and specially heat-treated for greater strength and durability.
- › Modified parabolic striking end to help reduce mushrooming and chipping.
- › Black oxide finish to help prevent rust corrosion; extending tool life and performance.
- › A polished identification panel on one of the flats is marked with the tool number and size in a black inlay.



Contents	Description	Tip Width (in) (A)	Shank Width (in) (B)	Overall Length (in) (L)
J48532LS2	Punch, Pin Super Duty Long 5/32"	5/32	3/8	8
J48316LS2	Punch, Pin Super Duty Long 3/16"	3/16	3/8	8
J48732LS2	Punch, Pin Super Duty Long 7/32"	7/32	7/16	8
J48014LS2	Punch, Pin Super Duty Long 1/4"	1/4	1/2	8
J48516LS2	Punch, Pin Super Duty Long 5/16"	5/16	1/2	8
J25TR30C	Tool Roll, 5 Pockets			

Weight (lbs): 0.90


ASME B107.48 

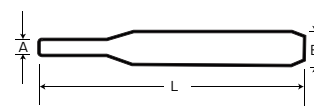
PUNCHES

SUPER-DUTY LONG DRIVE PIN PUNCHES

- › Reverse taper to help prevent binding.

Product #	Tip Width (in) (A)	Shank Width (in) (B)	Overall Length (in) (L)	Weight (lbs)
J48532LS2	5/32	3/8	8	0.14
J48316LS2	3/16	3/8	8	0.15
J48732LS2	7/32	7/16	8	0.20
J48014LS2	1/4	1/2	8	0.30
J48516LS2	5/16	1/2	8	0.41

ASME B107.48 



7 PIECE PIN PUNCH SET

Product #: J47A

- › Two-piece design allows the tip to be hard for durability while allowing it to be produced straight to help prevent binding.
- › Reverse taper to help prevent binding.
- › Made from S2 steel and specially heat-treated for greater strength and durability.
- › Modified parabolic striking end to help reduce mushrooming and chipping.
- › Black oxide finish to help prevent rust corrosion; extending tool life and performance.
- › A polished identification panel on one of the flats is marked with the tool number and size in a black inlay.



Contents	Description	Tip Width (in) (A)	Shank Width (in) (B)	Overall Length (in) (L)
J471/4X1/16	Punch, Pin 1/16"	1/16	1/4	4-3/8
J471/4X3/32	Punch, Pin 3/32"	3/32	1/4	4-3/4
J475/16X1/8	Punch, Pin 1/8"	1/8	5/16	5-3/16
J475/16X5/32	Punch, Pin 5/32"	5/32	5/16	5-9/16
J473/8X3/16	Punch, Pin 3/16"	3/16	3/8	5-7/8
J477/16X7/32	Punch, Pin 7/32"	7/32	3/8	6-3/8
J471/2X1/4	Punch, Pin 1/4"	1/4	3/8	6-3/4
J25TR31C	Tool Roll, 7 Pockets			

Weight (lbs): 1.15

ASME B107.48



SUPER-DUTY DRIVE PIN PUNCHES

- › One-piece design for strength and durability.
- › Reverse taper to help prevent binding.

Product #	Tip Width (in) (A)	Shank Width (in) (B)	Overall Length (in) (L)	Weight (lbs)
J48116	1/16	1/4	4-1/8	0.05
J48332	3/32	1/4	4-1/2	0.07
J48018	1/8	5/16	4-3/4	0.09
J48532	5/32	5/16	5	0.01
J48316	3/16	3/8	5-1/4	0.15
J48732	7/32	7/16	5-1/2	0.22
J48014	1/4	7/16	5-3/4	0.29
J48516	5/16	1/2	6-1/4	0.35
J48038	3/8	5/8	6-1/2	0.53

ASME B107.48




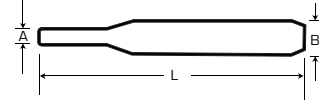
STRIKING & PRYING

DRIFT PUNCHES

- › Application: to align holes in two or more pieces of metal through which a bolt or screw is to be inserted.
- › Application: for installing and removing pins and shafts.
- › One-piece design for strength and durability.
- › Reverse taper to help prevent binding.

Product #	Tip Width (in) (A)	Shank Width (in) (B)	Overall Length (in) (L)	Weight (lbs)
J961/4S2	3/32	1/4	10	0.12
J965/16S2	1/8	5/16	10	0.19
J963/8S2	3/16	3/8	10	0.28
J967/16S2	7/32	7/16	10	0.37
J961/2S2	1/4	1/2	10	0.49
J965/8S2	5/16	5/8	10	0.70
J963/4S2	3/8	3/4	10	1.02

ASME B107.48 



7 PIECE ROLL PIN PUNCH SET


Product #: J49007S2

- › Made from S2 steel and specially heat-treated for greater strength and durability.
- › One-piece design for strength and durability.
- › Reverse taper to help prevent binding.
- › Modified parabolic striking end to help reduce mushrooming and chipping.
- › Black oxide finish to help prevent rust corrosion; extending tool life and performance.
- › A polished identification panel on one of the flats is marked with the tool number and size in a black inlay.
- › Set offers a wide range of sizes to handle a variety of jobs.
- › Includes a pouch for convenient storage solution.



Contents	Description	Tip Width (in) (A)	Shank Width (in) (B)	Overall Length (in) (L)
J49116S2	Punch, Roll Pin 1/16"	1/16	1/4	3-3/4
J49332S2	Punch, Roll Pin 3/32"	3/32	1/4	4-1/4
J49018S2	Punch, Roll Pin 1/8"	1/8	5/16	4-3/4
J49532S2	Punch, Roll Pin 5/32"	5/32	5/16	5-1/4
J49316S2	Punch, Roll Pin 3/16"	3/16	3/8	5-7/16
J49732S2	Punch, Roll Pin 7/32"	7/32	3/8	5-7/8
J49014S2	Punch, Roll Pin 1/4"	1/4	7/16	6-7/16
J25TR31C	Tool Roll, 7 Pockets			

Weight (lbs): 0.77

ASME B107.48 

ROLL PIN PUNCHES

- › One-piece design for strength and durability.
- › Reverse taper to help prevent binding.

Product #	Tip Width (in) (A)	Shank Width (in) (B)	Overall Length (in) (L)	Weight (lbs)
J49116S2	1/16	1/4	3-3/4	0.04
J49332S2	3/32	1/4	4-1/4	0.08
J49018S2	1/8	5/16	4-3/4	0.08
J49532S2	5/32	5/16	5-1/4	0.08
J49316S2	3/16	3/8	5-7/16	0.10
J49732S2	7/32	3/8	5-7/8	0.16
J49014S2	1/4	7/16	6-7/16	0.16
J49038S2	3/8	1/2	7-1/2	0.32
J49012S2	1/2	5/8	7-1/2	0.52


ASME B107.48 



STARTING PUNCHES

- › Similar to drift punches, but with wider points and heavier, shorter body.
- › Application: to align holes in two or more pieces of metal through which a bolt or screw is to be inserted.
- › Application: for installing and removing pins and shafts.
- › One-piece design for strength and durability.
- › Reverse taper to help prevent binding.

Product #	Tip Width (in) (A)	Shank Width (in) (B)	Overall Length (in) (L)	Weight (lbs)
J503/16S2	1/16	1/4	4-1/8	0.03
J501/4S2	3/32	1/4	5	0.06
J505/16S2	1/8	5/16	5-1/8	0.10
J503/8S2	3/16	3/8	5-5/8	0.17
J507/16S2	7/32	7/16	6	0.24
J501/2S2	1/4	1/2	6-1/2	0.33


ASME B107.410-2008 



CENTER PUNCHES

- › Application: metal working layout. Provides a broad dent in marking intersecting center lines, hole locations, and pilot drill starting point.
- › One-piece design for strength and durability.

Product #	Shank Width (in) (B)	Overall Length (in) (L)	Weight (lbs)
J411/4S2	1/4	4-3/4	0.05
J415/16S2	5/16	4-5/8	0.09
J413/8S2	3/8	4-7/8	0.14
J417/16S2	7/16	5-1/4	0.19
J411/2S2	1/2	5-5/8	0.29
J415/8S2	5/8	6-1/4	0.45

ASME B107.410-2008 




PUNCHES

STRIKING & PRYING

BRASS DRIFT PUNCHES

- › Spark-resistant, mar-resistant.
- › Designed to help prevent damage to the object being struck.
- › Modified parabolic striking end to help reduce mushrooming and chipping.

Product #	Tip Width (in) (A)	Overall Length (in) (L)	Weight (lbs)
J9638B	3/8	6	0.20
J9612B	1/2	7	0.40
J49920	1/2	7-7/8	0.46
J9634B	3/4	8	1.05
J9634HB	3/4	12	1.60

ASME B107.48 




3 PIECE BRASS HEAVY-DUTY PUNCH SET

Product #: **J9633HB**

- › Spark-resistant, mar-resistant.
- › Designed to help prevent damage to the object being struck.
- › Modified parabolic striking end to help reduce mushrooming and chipping.
- › Includes a pouch for convenient storage solution.

Contents	Description	Tip Width (in) (A)	Overall Length (in) (L)
J9638HB	Punch, Brass Line-up 3/8" x 10"	3/8	10
J96716HB	Punch, Brass Line-up 7/16" x 14"	7/16	14
J9634HB	Punch, Brass Drift 3/4" x 12"	3/4	12
J25TR54C	Tool Roll		

Weight (lbs): 4.10

ASME B107.48 




PUNCHES

BRASS LINE-UP PUNCHES

- › Spark-resistant, mar-resistant.
- › Designed to help prevent damage to the object being struck.
- › Modified parabolic striking end to help reduce mushrooming and chipping.

Product #	Tip Width (in) (A)	Overall Length (in) (L)	Weight (lbs)
J9638HB	3/8	10	1.00
J96716HB	7/16	14	1.50


ASME B107.48 

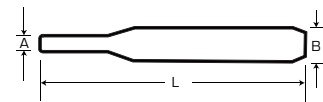


BRASS PIN PUNCHES

- › Spark-resistant, mar-resistant.
- › Designed to help prevent damage to the object being struck.
- › Modified parabolic striking end to help reduce mushrooming and chipping.

Product #	Tip Width (in) (A)	Overall Length (in) (L)	Weight (lbs)
J471X8B	1/8	4	0.10
J473X16B	3/16	4	0.10
J475X16B	5/16	4	0.18
J471X4B	1/4	4	0.18
J473X8B	3/8	6	0.31

ASME B107.48 




PIVOT HEAD PRY BARS

- › Special handle for secure grip, even with greasy hands.
- › Improved access and leverage over fixed head pry bars.
- › Flush quick-release selector for easy lock and release of pry head.
- › 11-position head with 165 degree range of motion.



Product #	Tip Width (in)	Overall Length (in)	Weight (lbs)	Repair Kit Part #	Foot Replacement #
J2162	9/16	8	2	J2162RK	J2162FT
J2164	3/4	12	4	J2164RK	J2162FT
J2166	3/4	16	4	J2164RK	J2162FT
J2168	1	24	6	J2168RK	J2168FT
J2170	1	36	7	J2168RK	J2168FT

ASME B107.52 

ROLLING HEAD BARS

- › Pry and aligning bar with a long pointed taper and 90° rolling head for leverage.

Product #	Tip Width (in) (A)	Shank Width (in) (B)	Overall Length (in) (L)	Weight (lbs)
J2126	1/2	1/2	12	1.30
J2130	5/8	5/8	16	2.40
J2134	7/8	3/4	21	2.35


ASME B107.52 



ALIGNING PRY BARS

- › For prying, positioning, and aligning applications.

Product #	Tip Width (in) (A)	Overall Length (in) (L)	Weight (lbs)
J2116	1/2	16	0.77
J2120	5/8	18	1.23
J2124	3/4	24	2.36
J2125	7/8	30	3.72
J2127	7/8	38	4.80
J2128	1	42	7.30
J2129	1-1/4	60	14.36

ASME B107.52 



PRY BARS

STRIKING & PRYING

4 PIECE LARGE HANDLE PRY BAR SET


Product #: **J2156S**

- ▶ Impact resistant, extruded Acetate handles are four-sided with broad but shallow flutes.
- ▶ Resistant to most harsh chemicals (including hydraulic fluids used in the aerospace industry).
- ▶ Four-sided handle design helps prevent "roll away" from the work surface and is comfortable and easy to hold.
- ▶ High alloy steel shanks are heat treated their entire length and black oxide treated for added strength and durability.



Contents	Description	Tip Width (in) (A)	Overall Length (in) (L)
J2140	Pry Bar, Large Handle 14"	5/8	14-1/2
J2142	Pry Bar, Large Handle 18"	5/8	17-1/2
J2146	Pry Bar, Large Handle 28"	3/4	28
J2148	Pry Bar, Large Handle 32"	3/4	31-7/8

Weight (lbs): 5.54


ASME B107.52 

PRY BARS

- ▶ Large four-sided handle for a better grip and added comfort.



Product #	Tip Width (in) (A)	Overall Length (in) (L)	Weight (lbs)
J2140	5/8	14-1/2	0.92
J2142	5/8	17-1/2	1.08
J2150	5/8	36	4.50
J2152	5/8	42	4.75
J2146	3/4	28	1.37
J2148	3/4	31-7/8	2.17

ASME B107.52 

4 PIECE STANDARD PICK SET


Product #: **J2384S**

- ▶ High alloy steel 1/4" shanks are heat treated their entire length and black oxide treated for added strength and durability.



Contents	Description	Shank Width (in) (B)	Overall Length (in) (L)
J2380	Pick, 45 Degree Hook	1/4	10-7/8
J2381	Pick, Cotter Pin Puller	1/4	10-3/8
J2382	Pick, 90 Degree Hook	1/4	10-3/4
J2383	Pick, Curved Hook	1/4	10
J25TR55C	Tool Roll, 4 Pockets		

Weight (lbs): 1.00


ASME B107.52 

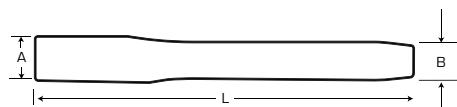
STANDARD PICKS

- ▶ High alloy steel 1/4" shanks are heat treated their entire length and black oxide treated for added strength and durability.



Product #	Style	Shank Width (in) (B)	Overall Length (in) (L)	Weight (lbs)
J2380	45°	1/4	10-7/8	0.25
J2381	Cotter	1/4	10-3/8	0.25
J2382	90°	1/4	10-3/4	0.25
J2383	Curved	1/4	10	0.25

ASME B107.52 





SPECIALITY

SPECIALITY

25 BLADE LONG FEELER GAUGE SET

Product #: **J000TL**

- › 1/2" x 12" blades in steel holder.
- › Sizes: .0015", .002", .003", .004", .005", .006", .007", .008", .009", .010", .011", .012", .013", .014", .015", .016", .017", .018", .019", .020", .021", .025", .027", .030", .040".
- › Blades etched with both decimal size and metric equivalent.
- › Weight (lbs): 0.72

INCH 



LONG BLADE FEELER GAUGES

Product #	Blade Thickness (in)	Weight (lbs)
J0015L	0.0015	0.01
J002L	0.002	0.01
J003L	0.003	0.03
J004L	0.004	0.01
J005L	0.005	0.01
J006L	0.006	0.02
J008L	0.008	0.02
J010L	0.010	0.02
J015L	0.015	0.03





FEELER GAUGES & RETRIEVING TOOLS

SPARK PLUG GAP GAUGE SET

Product #: **J000K**

- › Spark plug electrode bender and eight bent wire gauges in sizes .020", .022", .025", .027", .028", .030", .035", .040".
- › Gauges marked with both decimal size and metric equivalent.
- › Weight (lbs): 0.07

INCH 



POCKET MAGNETIC RETRIEVING TOOLS

- › J2375 includes versatile telescoping handle and all-angle ball joint.
- › J2376A has an aluminum head that contains a neodymium magnet that can lift up to 1-1/2 lbs, all angle ball joint, and a pocket clip.

Product #	Overall Length (in)	Weight (lbs)
J2375	16-3/4 to 26-3/4	0.40
J2376A	8	0.08





J2375



J2376A

LONG REACH MAGNETIC PICKUP TOOLS

- › Magnetic tips help retrieve small objects from hard-to-reach places.

Product #	Type	Overall Length (in)	Max. Lift (lbs)	Weight (oz)
J2375XL	–	5.5 - 25.5	1.50	1.20
J2376NXL	Flexible	21.56	1.50	1.20
J2376XL	–	7.25 - 33.75	3.50	2.80
J2377XL	Flexible	29	5	4.30
J2378XL	–	8.25 - 30.25	5	1.90
J2379XL	–	8.25 - 30.25	16	3.90



J2375XL



J2376NXL

INSPECTION MIRRORS

- › Versatile all-angle ball joint.
- › Features telescoping handle (J2372 and J2373).
- › With pocket clip (J2373).



J2374



J2371



J2373

Product #	Mirror Shape	Mirror Size (L x W in)	Mirror Diameter (in)	Overall Length (in)	Weight (lbs)
J2370	Circular	–	7/8	7-1/2	0.08
J2374	Circular	–	1-1/4	8	0.09
J2372	Circular	–	2-1/4	10 to 14	0.25
J2371	Oval	1 x 2	–	8-3/4	0.08
J2373	Rectangular	2-1/8 x 3-1/2	–	11-1/4 to 15-1/2	0.30



LONG REACH INSPECTION MIRRORS



Product #	Mirror Shape	Mirror Diameter (in)	Overall Length (in)	Weight (oz)	Replacement Mirror
J2370XL	Circular	7/8	8.5 - 30.25	1.30	J2370XLR
J2372XL	Circular	2-1/4	6.5 - 36.375	3.80	J2372XLR
J2374XL	Circular	1-1/4	6.5 - 35	3.80	J2374XLR
J2382XL	Circular	3-1/4	6.5 - 29.5	4.50	J2382XLR
J2383XL	Circular	1-1/4	5.75 - 27.25	1.50	J2374XLR
J2373XL	Rectangular	2-9/16 X 3-3/4	6.75 - 29.75	4.00	J2373XLR





SAFETY OBSESSED

1-800-800-TOOL

1-800-828-7809 FAX

orders.PROTO@sbdinc.com

www.protoindustrial.com

PROTO® Service Centers:

West Coast:

Factory Service Center
1015 North Market Blvd #2
Sacramento, CA 95834

East Coast:

Factory Service Center
6115 Jimmy Carter Blvd
Norcross, GA 30071

Central Region:

Factory Service Center
10245 W Little York Road
Houston, TX 77040

©2018 PROTO® Industrial Tools

MKT-2870
ICPRAEROCAT