



Tools That
Work



2013 Catalog



Who We Are

Bondhus Corporation is located in Monticello, Minnesota - USA; about 40 minutes from Minneapolis. Bondhus employees are proud of our Company and the tools we make. Our Ball, Hex, and Star Tip tools are made in our Monticello manufacturing facility, just across the street from the Mighty Mississippi River.



In 1964, John Bondhus began manufacturing the original "Balldriver[®]" ball end hex tool which he invented. Since that time, we have taken great pride in being the industry leader in designing and manufacturing innovative, timesaving tools. We have built our business by providing Bondhus customers (professional tool users) with the highest quality products and customer support in the industry.

With some 70 competitors worldwide, no one seriously disputes the overwhelming dominance of Bondhus Corporation in the world of ball end hex tools. Bondhus tools turn up everywhere! They can be found in tool boxes around the globe, on every continent and in over 80 countries from Taiwan to Venezuela and from Sweden to Japan. Machinists and automotive repair shops find them indispensable. Printing press operators use them in Singapore, South Dakota, and Saudi Arabia - so do dentists and the makers of artificial limbs. Bicycle repair kits everywhere contain some version of our tools. Jazz, rock, and pop musicians who play guitars also use Bondhus tools.

When NASA needed special hand tools to repair the International Space Station and the Hubble Space Telescope, they called Bondhus. They needed the very best tool for the most demanding of applications. NASA discovered what millions of professional tool users around the world already know - Bondhus tools work in even the most difficult circumstances.

Bondhus tool strength and consistent high quality are the standards by which other hand tools are judged. Whether the tool user works in outer space or on an oil rig in the middle of the ocean, the tools they use must work the first time... they do not have time to go back for a replacement. Bondhus tools are built to work hard, built to save time and built to last. In independent laboratory torque tests (just one of several means of evaluating tools), Bondhus consistently outperforms competitors.

Bondhus manufactures the highest quality Ball End, Hex and Star tools available, and every tool is backed by an unconditional lifetime warranty. A warranty is only as good as the company standing behind it, and Bondhus has been the leading innovator in the Hex and Star tool industry for more than forty years.



Bondhus Professional Quality Tools Provide Superior Value

Time is money, and the real cost of using an inferior tool is realized when something goes wrong. As anyone who works with mechanical devices knows, bad things occasionally happen. It is not a question of “if”, but rather “when”.

Stripped screw heads are one of those bad things that happen. A screw with a stripped head can no longer be removed with a hex tool. If it is in a difficult to reach location, where a clamping device cannot grip it, the task becomes particularly problematic.

The cost of a high quality hex tool is negligible compared to the cost of removing a broken or stripped screw. Will the removal take a few hours? An entire day? What is the real cost of an inexpensive, poorly performing hex tool?

Bondhus quality hex tools are made from Protanium® high torque steel and have sharper corners to generate maximum holding and turning forces within the screw to virtually eliminate stripped screw heads.

Professional hex tools deliver a level of performance not attainable by consumer grade tools. In addition, safety is a factor that can impact the “actual” cost of ownership. As a result, knowledgeable buyers and professionals alike recognize the serious dangers of inferior tools that shatter instead of breaking clean.

The purpose of a high quality tool is to provide a faster, easier, and less costly means of performing a task. Bondhus strives to provide not just “good” tools, but the strongest tools available anywhere. Customer satisfaction is what we strive for.



| | |
|---|-------|
| L-Wrench Multipacks | 5 |
|  | |
| ProGuard™ L-Wrenches | 6-14 |
|  | |
| BriteGuard™ L-Wrenches | 15-17 |
|  | |
| GoldGuard™ L-Wrenches | 18-19 |
|  | |
| Star Tip L-Wrenches | 20-22 |
|  | |
| Wing and Flag Tools | 23 |
|  | |
| Fold Ups | 24-27 |
|  | |
| T-Handles | 28-33 |
|  | |
| Screwdrivers | 34-40 |
|  | |
| Nut Drivers | 41 |
|  | |
| Socket Bits | 42-46 |
|  | |
| Hextenders | 46 |
|  | |
| Blades and Bits | 47-48 |
|  | |

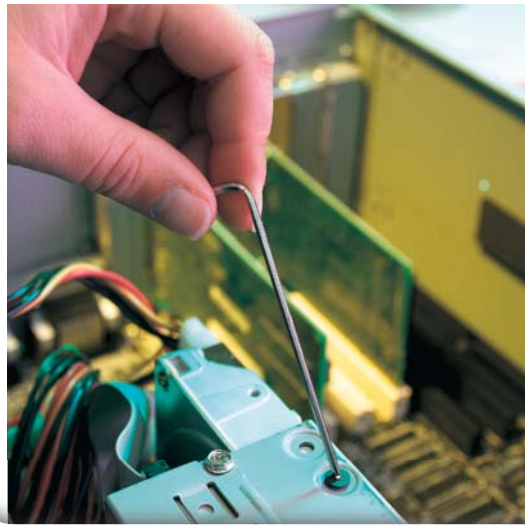
L-Wrenches



Color Coded

- Inch
- Metric
- Star

- Available in a wide range of lengths and tip styles
- Chamfered tips for faster insertion and full tool engagement in the screw head
- Tools are made with custom heat treated Protanium® Steel for more torque and longer tool life
- Three finish options available



High Torque Steel:

Up to 20% stronger, with more torque and twice the wear resistance of standard grades of steel.

FINISH OPTIONS:



Corrosion-resistant finish:

Environmentally safe, provides better tool grip, resists solvents and is 5 times more corrosion resistant than competitor finishes.



Next generation chrome finish:

Traditional plated tool look with superior protection and durability.

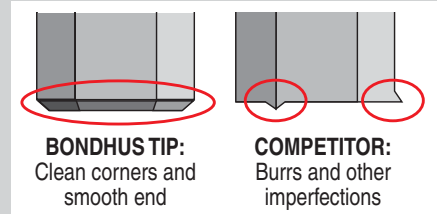


Real 14 karat gold finish:

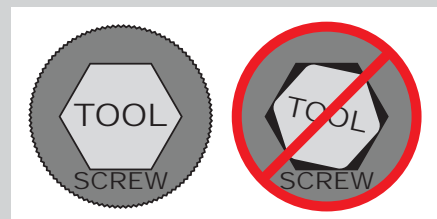
Superior protection and durability over traditional chrome and the look and shine of real gold.

More than just another L-Wrench

Bondhus is committed to making the best tools on the market. Bondhus is constantly working to improve our tools. We are never satisfied with "good enough." We work hard to make sure your new Bondhus L-Wrench is always the best tool for the job.



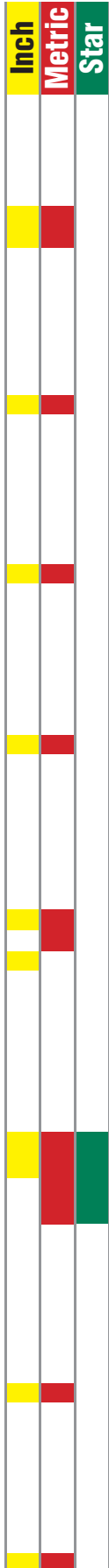
Bondhus chamfers every Hex and Star Tip tool we make. This process eliminates burrs and imperfections in the tool's tip that can prevent the tool from fitting properly or seating fully within the screw head.



Every Bondhus tool is designed and machined to achieve an optimal fit between tool and fastener. Tools insert quickly and easily into screw head and fit snug to generate greater torque and minimize slippage and stripping.



Bondhus custom heat-treating produces tools that are highly resistant to breakage and shattering.



- Assembled from our most popular sets
- Multiple sets per package
- Tip selections include Ball End, Star Tip, Hex End, and ProHold® Tip Ball End.

ProGuard™ Ball End



| PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|-------|--------|-----|---------------------------------------|-----|------|
| 20196 | BLX21 | 21 | 10936 (.050-5/16") + 10999 (1.5-10mm) | 1 | |
| 20199 | BLX22 | 22 | 10937 (.050-3/8") + 10999 (1.5-10mm) | 1 | |

ProGuard™ Ball End Stubby



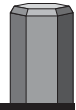
| PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|-------|--------|-----|--------------------------------------|-----|------|
| 20599 | SBLX22 | 22 | 16537 (.050-3/8") + 16599 (1.5-10mm) | 1 | |

ProGuard™ ProHold® Tip Ball End



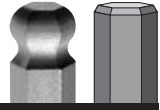
| PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|-------|--------|-----|--------------------------------------|-----|------|
| 20499 | PBLX22 | 22 | 74937 (.050-3/8") + 74999 (1.5-10mm) | 1 | |

ProGuard™ Hex End



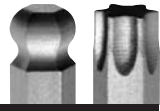
| PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|-------|--------|-----|--------------------------------------|-----|------|
| 22199 | HLX22 | 22 | 12137 (.050-3/8") + 12199 (1.5-10mm) | 1 | |

ProGuard™ Ball End and Hex End



| PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|-------|--------|-----|--|-----|------|
| 14130 | BLF34 | 34 | 10937 (.050-3/8") + 10999 (1.5-10mm) + 12550 (Hex Fold Up 5/64-5/32", 1.5-5mm) | 1 | |
| 14187 | BLF16M | 16 | 10999 (1.5-10mm) + 12587 (Hex Fold Up 2-8mm) | 1 | |
| 14189 | BLF22 | 22 | 10937 (.050-3/8") + 12589 (Hex Fold Up 5/64-1/4") | 1 | |

ProGuard™ Ball End and Star Tip



| PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|-------|---------|-----|--|-----|------|
| 14132 | BLF30TS | 30 | 10937 (.050-3/8") + 10999 (1.5-10mm) + 12632 (Star Fold Up T6-T25) | 1 | |
| 14138 | BLF30T | 30 | 10937 (.050-3/8") + 10999 (1.5-10mm) + 12634 (Star Fold Up T9-T40) | 1 | |
| 14126 | BLF17S | 17 | 10999 (1.5-10mm) + 12632 (Star Fold Up T6-T25) | 1 | |
| 14128 | BLF17 | 17 | 10999 (1.5-10mm) + 12634 (Star Fold Up T9-T40) | 1 | |

BriteGuard™ and GoldGuard™ Ball End



| PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|-------|---------|-----|--------------------------------------|-----|------|
| 20399 | BLX22GB | 22 | 26937 (.050-3/8") + 38099 (1.5-10mm) | 1 | |

GoldGuard™ Ball End



| PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|-------|--------|-----|--------------------------------------|-----|------|
| 20899 | BLX22G | 22 | 37937 (.050-3/8") + 38099 (1.5-10mm) | 1 | |

Ball End L-Wrenches - ProGuard™ Finish -

- Ball End inserts into a screw at a 25° angle
- Ball End saves time by quickly funneling tool into screw
- 25° angle allows natural hand and wrist movement
- Superior Ball End strength and working angle
- Works in hard to reach places



| Sets | PART# | MODEL# | PCS | LENGTH | CONTENTS | QTY | LIST |
|------|-------|---------|-----|------------|--|-----|------|
| Inch | 10945 | BLX7 | 7 | Long | 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16" | 1 | |
| | 10932 | BLX8 | 8 | Long | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32" | 1 | |
| | 10938 | BLX10 | 10 | Long | 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4" | 1 | |
| | 10936 | BLX12 | 12 | Long | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16" | 1 | |
| | 10937 | BLX13 | 13 | Long | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 10935 | BLX15 | 15 | Long | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 7/16, 1/2" (in vinyl roll up pouch) | 1 | |
| | 10933 | MBLX13 | 13 | Long | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" (in metal box) | 1 | |
| | 16037 | BLX13XL | 13 | Extra Long | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |



| Singles | SIZE | INCH | MM | INCH | MM | SINGLE PACKAGING | | | TAGGED/BARCODED | | | | | |
|-----------|------|------|-----|------|----|------------------|-----|---------|-----------------|-----|---------|-------|----|--|
| | | | | | | PART# | QTY | LIST EA | PART# | QTY | LIST EA | | | |
| LONG Inch | .050 | 2.8 | 72 | 0.53 | 13 | 10902 | 10 | | 12902 | 100 | | 15702 | 10 | |
| | 1/16 | 3.0 | 76 | 0.56 | 14 | 10903 | 10 | | 12903 | 100 | | 15703 | 10 | |
| | 5/64 | 3.2 | 81 | 0.61 | 15 | 10904 | 10 | | 12904 | 100 | | 15704 | 10 | |
| | 3/32 | 3.4 | 86 | 0.65 | 16 | 10905 | 10 | | 12905 | 100 | | 15705 | 10 | |
| | 7/64 | 3.6 | 90 | 0.70 | 18 | 10906 | 10 | | 12906 | 100 | | 15706 | 10 | |
| | 1/8 | 3.8 | 95 | 0.75 | 19 | 10907 | 10 | | 12907 | 100 | | 15707 | 10 | |
| | 9/64 | 4.0 | 101 | 0.80 | 20 | 10908 | 10 | | 12908 | 100 | | 15708 | 10 | |
| | 5/32 | 4.2 | 107 | 0.84 | 21 | 10909 | 10 | | 12909 | 100 | | 15709 | 10 | |
| | 3/16 | 4.5 | 114 | 0.94 | 24 | 10910 | 10 | | 12910 | 100 | | 15710 | 10 | |
| | 7/32 | 4.9 | 124 | 1.03 | 26 | 10911 | 5 | | 12911 | 50 | | 15711 | 5 | |
| | 1/4 | 5.6 | 141 | 1.13 | 29 | 10912 | 5 | | 12912 | 50 | | 15712 | 5 | |
| | 5/16 | 6.0 | 152 | 1.25 | 32 | 10913 | 5 | | 12913 | 50 | | 15713 | 5 | |
| | 3/8 | 6.8 | 171 | 1.38 | 35 | 10914 | 5 | | 12914 | 50 | | 15714 | 5 | |
| | 7/16 | 7.5 | 191 | 1.50 | 38 | 10915 | 1 | | 12915 | 25 | | 15715 | 1 | |
| | 1/2 | 8.3 | 210 | 1.63 | 41 | 10916 | 1 | | 12916 | 25 | | 15716 | 1 | |
| | 9/16 | 9.0 | 229 | 1.75 | 44 | 10917 | 1 | | 12917 | 10 | | 15717 | 1 | |
| | 5/8 | 9.8 | 248 | 1.88 | 48 | 10918 | 1 | | 12918 | 10 | | 15718 | 1 | |
| | 3/4 | 11.3 | 286 | 2.13 | 54 | 10919 | 1 | | 12919 | 5 | | 15719 | 1 | |
| | 7/8 | 12.8 | 325 | 2.37 | 60 | 10920 | 1 | | - | - | | - | - | |
| | 1 | 14.2 | 362 | 2.62 | 67 | 10921 | 1 | | - | - | | - | - | |



| Singles | SIZE | INCH | MM | INCH | MM | SINGLE PACKAGING | | |
|-----------------|------|------|------|------|-------|------------------|-----|---------|
| | | | | | | PART# | QTY | LIST EA |
| EXTRA LONG Inch | .050 | 3.1 | 77 | 0.53 | 13 | 16002 | 10 | |
| | 1/16 | 3.3 | 85 | 0.56 | 14 | 16003 | 10 | |
| | 5/64 | 3.6 | 92 | 0.61 | 15 | 16004 | 10 | |
| | 3/32 | 3.9 | 99 | 0.65 | 16 | 16005 | 10 | |
| | 7/64 | 4.1 | 105 | 0.70 | 18 | 16006 | 10 | |
| | 1/8 | 4.5 | 114 | 0.75 | 19 | 16007 | 10 | |
| | 9/64 | 4.8 | 122 | 0.80 | 20 | 16008 | 10 | |
| | 5/32 | 5.1 | 131 | 0.84 | 21 | 16009 | 10 | |
| | 3/16 | 5.2 | 132 | 0.94 | 24 | 16010 | 10 | |
| | 7/32 | 5.6 | 143 | 1.03 | 26 | 16011 | 5 | |
| 1/4 | 6.5 | 164 | 1.13 | 29 | 16012 | 5 | | |
| 5/16 | 7.1 | 180 | 1.25 | 32 | 16013 | 5 | | |
| 3/8 | 7.8 | 199 | 1.38 | 35 | 16014 | 5 | | |

Did you know...?

Bondhus Ball End tips are designed to be the perfect balance between angle and strength. Ball End strength is maximized, while still providing a consistent full 25° working angle.

Ball End L-Wrenches

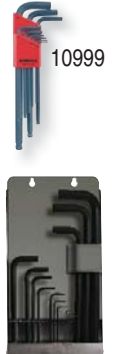
- ProGuard™ Finish -

L-Wrenches

- Ball End inserts into a screw at a 25° angle
- Ball End saves time by quickly funneling tool into screw
- 25° angle allows natural hand and wrist movement
- Superior Ball End strength and working angle
- Works in hard to reach places



| Sets | PART# | MODEL# | PCS | LENGTH | CONTENTS | QTY | LIST |
|---------------|-------|---------|-----|------------|--|-----|------|
| Metric | 10946 | BLX6M | 6 | Long | 1.5, 2, 2.5, 3, 4, 5mm | 1 | |
| | 10992 | BLX7M | 7 | Long | 1.5, 2, 2.5, 3, 4, 5, 6mm | 1 | |
| | 10999 | BLX9M | 9 | Long | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |
| | 10995 | BLX15M | 15 | Long | 1.27, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10mm | 1 | |
| | 10989 | MBLX13 | 13 | Long | 1.27, 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12, 14, 17mm (in metal box) | 1 | |
| | 16099 | BLX9MXL | 9 | Extra Long | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA | PART# | QTY | LIST EA | PART# | QTY | LIST EA |
|--------------------|------|------|------|------|-------|-------|-----|---------|-------|-----|---------|-------|-----|---------|
| LONG Metric | 1.27 | 2.8 | 72 | 0.53 | 13 | 10949 | 10 | | 12949 | 100 | | 15749 | 10 | |
| | 1.5 | 3.0 | 77 | 0.53 | 14 | 10950 | 10 | | 12950 | 100 | | 15750 | 10 | |
| | 2.0 | 3.2 | 82 | 0.61 | 16 | 10952 | 10 | | 12952 | 100 | | 15752 | 10 | |
| | 2.5 | 3.5 | 88 | 0.69 | 17 | 10954 | 10 | | 12954 | 100 | | 15754 | 10 | |
| | 3.0 | 3.9 | 98 | 0.75 | 19 | 10956 | 10 | | 12956 | 100 | | 15756 | 10 | |
| | 3.5 | 3.9 | 100 | 0.85 | 21 | 10958 | 1 | | 12958 | 100 | | 15758 | 1 | |
| | 4.0 | 4.3 | 110 | 0.87 | 22 | 10960 | 10 | | 12960 | 100 | | 15760 | 10 | |
| | 4.5 | 4.5 | 114 | 1.00 | 25 | 10962 | 1 | | 12962 | 100 | | 15762 | 1 | |
| | 5.0 | 4.7 | 119 | 1.06 | 27 | 10964 | 5 | | 12964 | 100 | | 15764 | 5 | |
| | 5.5 | 4.9 | 124 | 1.14 | 29 | 10966 | 1 | | 12966 | 50 | | 15766 | 1 | |
| | 6 | 5.5 | 139 | 1.22 | 31 | 10968 | 5 | | 12968 | 50 | | 15768 | 5 | |
| | 7 | 5.5 | 140 | 1.30 | 33 | 10970 | 1 | | 12970 | 50 | | 15770 | 1 | |
| | 8 | 6.0 | 152 | 1.38 | 35 | 10972 | 5 | | 12972 | 50 | | 15772 | 5 | |
| | 9 | 6.2 | 159 | 1.46 | 37 | 10974 | 1 | | 12974 | 50 | | 15774 | 1 | |
| | 10 | 6.7 | 171 | 1.54 | 39 | 10976 | 5 | | 12976 | 50 | | 15776 | 5 | |
| | 11 | 7.9 | 200 | 1.63 | 42 | 10978 | 1 | | 12978 | 25 | | 15778 | 1 | |
| | 12 | 8.7 | 220 | 1.73 | 44 | 10980 | 1 | | 12980 | 25 | | 15780 | 1 | |
| | 13 | xx.x | xxx | x.xx | xx | 10982 | 1 | | 12982 | 10 | | 15782 | 1 | |
| | 14 | 10.2 | 260 | 2.15 | 55 | 10984 | 1 | | 12984 | 10 | | 15784 | 1 | |
| | 17 | 11.0 | 280 | 2.42 | 61 | 10986 | 1 | | 12986 | 10 | | 15786 | 1 | |
| 19 | 11.6 | 295 | 2.70 | 69 | 10988 | 1 | | 12988 | 5 | | 15788 | 1 | | |
| 22 | 13.0 | 330 | 3.07 | 78 | 10991 | 1 | | - | - | | - | - | | |
| 24 | 14.5 | 370 | 3.47 | 88 | 10993 | 1 | | - | - | | - | - | | |



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA |
|--------------------------|------|------|------|------|-------|-------|-----|---------|
| EXTRA LONG Metric | 1.5 | 3.5 | 90 | 0.53 | 14 | 16050 | 10 | |
| | 2.0 | 3.9 | 100 | 0.61 | 16 | 16052 | 10 | |
| | 2.5 | 4.4 | 112 | 0.69 | 17 | 16054 | 10 | |
| | 3.0 | 5.0 | 126 | 0.75 | 19 | 16056 | 10 | |
| | 4.0 | 5.6 | 142 | 0.87 | 22 | 16060 | 10 | |
| | 5.0 | 6.3 | 160 | 1.06 | 27 | 16064 | 5 | |
| | 6 | 6.8 | 172 | 1.22 | 31 | 16068 | 5 | |
| | 8 | 7.7 | 195 | 1.38 | 35 | 16072 | 5 | |
| 10 | 8.4 | 213 | 1.54 | 39 | 16076 | 5 | | |

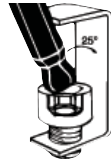
Did you know...?

Bondhus' extremely precise manufacturing methods create Ball End tools that work very well, even in sizes as small as .050", 1.27mm, and T6 (BallStar™ Tip).

ProHold® Tip Ball End L-Wrenches

- ProGuard™ Finish -

- Holds screw tight on the tool EVERY TIME
- Button is non-magnetic
- Super smooth rotational action, with no interference from the ProHold® button
- Tool strength is not compromised by the ProHold® button

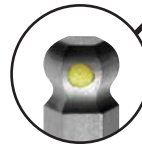


ProGuard™ finish delivers superior corrosion protection



Yellow=Inch

Red=Metric



ProHold® Tip holds screws securely

| Sets | PART# | MODEL# | PCS | LENGTH | CONTENTS | QTY | LIST |
|---------------|-------|--------|-----|--------|--|-----|------|
| Inch | 74938 | PBLX10 | 10 | Long | 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4" | 1 | |
| | 74937 | PBLX13 | 13 | Long | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| Metric | 74992 | PBLX7M | 7 | Long | 1.5, 2, 2.5, 3, 4, 5, 6mm | 1 | |
| | 74999 | PBLX9M | 9 | Long | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |



74999



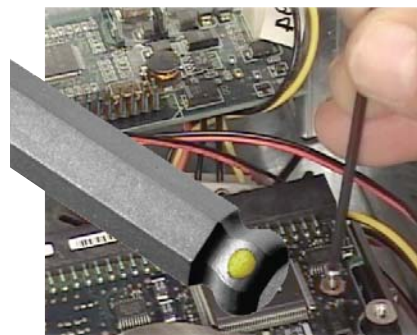
| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA | PART# | QTY | LIST EA |
|------------------|--------------------|------|-----|------|------|-------|-------|---------|-------|-------|---------|
| LONG Inch | .050 | 2.8 | 72 | 0.53 | 13 | 75902 | 25 | | 75702 | 5 | |
| | 1/16 | 3.0 | 76 | 0.56 | 14 | 75903 | 25 | | 75703 | 5 | |
| | 5/64 | 3.2 | 81 | 0.61 | 15 | 75904 | 25 | | 75704 | 5 | |
| | 3/32 | 3.4 | 86 | 0.65 | 16 | 75905 | 25 | | 75705 | 5 | |
| | 7/64 | 3.6 | 90 | 0.70 | 18 | 75906 | 25 | | 75706 | 5 | |
| | 1/8 | 3.8 | 95 | 0.75 | 19 | 75907 | 25 | | 75707 | 5 | |
| | 9/64 | 4.0 | 101 | 0.80 | 20 | 75908 | 25 | | 75708 | 5 | |
| | 5/32 | 4.2 | 107 | 0.84 | 21 | 75909 | 25 | | 75709 | 5 | |
| | 3/16 | 4.5 | 114 | 0.94 | 24 | 75910 | 25 | | 75710 | 5 | |
| | 7/32 | 4.9 | 124 | 1.03 | 26 | 75911 | 10 | | 75711 | 2 | |
| | 1/4 | 5.6 | 141 | 1.13 | 29 | 75912 | 10 | | 75712 | 2 | |
| | 5/16 | 6.0 | 152 | 1.25 | 32 | 75913 | 10 | | 75713 | 2 | |
| | 3/8 | 6.8 | 171 | 1.38 | 35 | 75914 | 10 | | 75714 | 2 | |
| | LONG Metric | 1.27 | 2.8 | 72 | 0.53 | 13 | 75949 | 25 | | 75749 | 5 |
| 1.5 | | 3.0 | 77 | 0.53 | 14 | 75950 | 25 | | 75750 | 5 | |
| 2.0 | | 3.2 | 82 | 0.61 | 16 | 75952 | 25 | | 75752 | 5 | |
| 2.5 | | 3.5 | 88 | 0.69 | 17 | 75954 | 25 | | 75754 | 5 | |
| 3.0 | | 3.9 | 98 | 0.75 | 19 | 75956 | 25 | | 75756 | 5 | |
| 4.0 | | 4.3 | 110 | 0.87 | 22 | 75960 | 25 | | 75760 | 5 | |
| 5.0 | | 4.7 | 119 | 1.06 | 27 | 75964 | 25 | | 75764 | 2 | |
| 6 | | 5.5 | 139 | 1.22 | 31 | 75968 | 10 | | 75768 | 2 | |
| 8 | | 6.0 | 152 | 1.38 | 35 | 75972 | 10 | | 75772 | 2 | |
| 10 | | 6.7 | 171 | 1.54 | 39 | 75976 | 10 | | 75776 | 2 | |

Did you know...?

ProHold® buttons are non-magnetic and work on all fasteners. They are safe to use on sensitive equipment. They will not rust and will hold non-magnetic screws (aluminum, stainless and plastic).



ProHold® button holds screw tight on the tool EVERY TIME



ProHold® buttons are non-magnetic and safe for use in electronic applications

Stubby Ball End L-Wrenches

- ProGuard™ Finish -

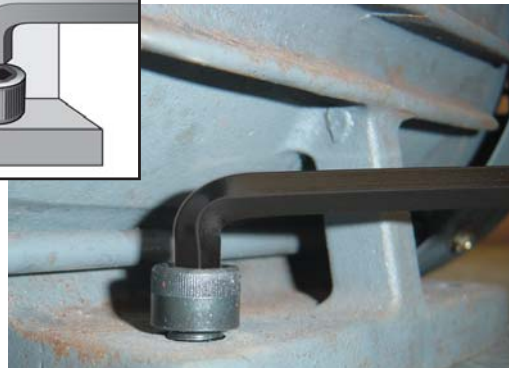
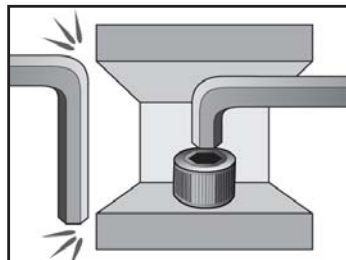
- Fits into tight spaces standard hex keys can not
- Eliminates the need to trim and file the short arm
- Tighter inside radius means full smooth entry into screw head
- Chamfered short arm eliminates burrs
- Ball End inserts into a screw at a 25° angle



| Sets | PART# | MODEL# | PCS | LENGTH | CONTENTS | QTY | LIST |
|---------------|-------|--------|-----|--------|--|-----|------|
| Inch | 16538 | SBLX10 | 10 | Long | 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4" | 1 | |
| | 16537 | SBLX13 | 13 | Long | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| Metric | 16592 | SBLX7M | 7 | Long | 1.5, 2, 2.5, 3, 4, 5, 6mm | 1 | |
| | 16599 | SBLX9M | 9 | Long | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA | PART# | QTY | LIST EA |
|------------------|--------------------|------|-----|------|------|-------|-------|---------|-------|-------|---------|
| LONG Inch | .050 | 2.8 | 72 | 0.14 | 4 | 26502 | 50 | | 16502 | 5 | |
| | 1/16 | 3.0 | 76 | 0.16 | 4 | 26503 | 50 | | 16503 | 5 | |
| | 5/64 | 3.2 | 81 | 0.27 | 7 | 26504 | 50 | | 16504 | 5 | |
| | 3/32 | 3.4 | 86 | 0.29 | 7 | 26505 | 50 | | 16505 | 5 | |
| | 7/64 | 3.6 | 90 | 0.30 | 8 | 26506 | 50 | | 16506 | 5 | |
| | 1/8 | 3.8 | 95 | 0.32 | 8 | 26507 | 50 | | 16507 | 5 | |
| | 9/64 | 4.0 | 101 | 0.33 | 8 | 26508 | 50 | | 16508 | 5 | |
| | 5/32 | 4.2 | 107 | 0.35 | 9 | 26509 | 50 | | 16509 | 5 | |
| | 3/16 | 4.5 | 114 | 0.39 | 10 | 26510 | 50 | | 16510 | 5 | |
| | 7/32 | 4.9 | 124 | 0.46 | 12 | 26511 | 25 | | 16511 | 2 | |
| | 1/4 | 5.3 | 133 | 0.46 | 12 | 26512 | 25 | | 16512 | 2 | |
| | 5/16 | 6.0 | 152 | 0.57 | 14 | 26513 | 25 | | 16513 | 2 | |
| | 3/8 | 6.8 | 171 | 0.71 | 18 | 26514 | 25 | | 16514 | 2 | |
| | LONG Metric | 1.27 | 2.8 | 72 | 0.14 | 4 | 26549 | 50 | | 16549 | 5 |
| 1.5 | | 3.0 | 77 | 0.19 | 5 | 26550 | 50 | | 16550 | 5 | |
| 2.0 | | 3.2 | 82 | 0.27 | 7 | 26552 | 50 | | 16552 | 5 | |
| 2.5 | | 3.5 | 88 | 0.28 | 7 | 26554 | 50 | | 16554 | 5 | |
| 3.0 | | 3.9 | 98 | 0.32 | 8 | 26556 | 50 | | 16556 | 5 | |
| 4.0 | | 4.3 | 110 | 0.35 | 9 | 26560 | 50 | | 16560 | 5 | |
| 5.0 | | 4.7 | 119 | 0.40 | 10 | 26564 | 25 | | 16564 | 2 | |
| 6 | | 5.5 | 139 | 0.47 | 12 | 26568 | 25 | | 16568 | 2 | |
| 8 | | 6.0 | 152 | 0.57 | 14 | 26572 | 25 | | 16572 | 2 | |
| 10 | | 6.7 | 171 | 0.78 | 20 | 26576 | 25 | | 16576 | 2 | |



Stubby tools fit in tight spaces where there is not enough overhead clearance for a standard hex key

Hex End L-Wrenches

- ProGuard™ Finish -

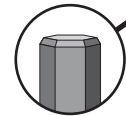
- Chamfered tool tips eliminate burrs and help tools seat in screw head
- Sharp corners transfer more torque to the screw and reduce stripping
- Precision machined for ease of use and superior fit

ProGuard™ finish delivers superior corrosion protection



Yellow=Inch

Red=Metric



Hex End Tips

Long

Short

| Sets | PART# | MODEL# | PCS | LENGTH | CONTENTS | QTY | LIST |
|-------------|-------|--------|-----|--------|--|-----|------|
| Inch | 12145 | HLX7 | 7 | Long | 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16" | 1 | |
| | 12132 | HLX8 | 8 | Long | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32" | 1 | |
| | 12138 | HLX10 | 10 | Long | 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4" | 1 | |
| | 12136 | HLX12 | 12 | Long | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16" | 1 | |
| | 12137 | HLX13 | 13 | Long | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 12245 | HLX7S | 7 | Short | 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16" | 1 | |
| | 12232 | HLX8S | 8 | Short | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32" | 1 | |
| | 12238 | HLX10S | 10 | Short | 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4" | 1 | |
| | 12236 | HLX12S | 12 | Short | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16" | 1 | |
| | 12237 | HLX13S | 13 | Short | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |

In Metal Box

| Sets | PART# | MODEL# | PCS | LENGTH | CONTENTS | QTY | LIST |
|-------------|-------|---------|-----|--------|--|-----|------|
| Inch | 12342 | MHLX13 | 13 | Long | 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2" | 1 | |
| | 12344 | MHLX15S | 15 | Short | .028, .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 12339 | MHLX18S | 18 | Short | .028, .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2, 9/16, 5/8" | 1 | |



12344

In Pouch

| Sets | PART# | MODEL# | PCS | LENGTH | CONTENTS | QTY | LIST |
|-------------|-------|----------|-----|--------------|--|-----|------|
| Inch | 12335 | PHLX9 | 9 | Long | 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 12333 | PHLX11 | 11 | Long | .050, 1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 12351 | PHLX15 | 15 | Long | 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2, 9/16, 5/8, 3/4" | 1 | |
| | 12345 | PHLX7S | 7 | Short | 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4" | 1 | |
| | 12338 | PHLX10S | 10 | Short | .035, .050, 1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4" | 1 | |
| | 12341 | PHLX11SS | 11 | Short | .050, 1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 12343 | PHLX11S | 11 | Short | 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2, 9/16" | 1 | |
| | 12347 | PHLX15S | 15 | Short | .028, .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 22789 | PHLX9-6 | 9 | 6" Long Arm | 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 25445 | PHLX7-12 | 7 | 12" Long Arm | 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4" | 1 | |



12347



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA |
|-------------------------|------|------|-----|------|----|-------|-----|---------|
| 6" LONG ARM Inch | 5/64 | 5.9 | 150 | 0.61 | 15 | 22704 | 5 | |
| | 3/32 | 5.9 | 150 | 0.65 | 16 | 22705 | 5 | |
| | 7/64 | 5.9 | 150 | 0.70 | 18 | 22706 | 5 | |
| | 1/8 | 5.9 | 149 | 0.75 | 19 | 22707 | 5 | |
| | 9/64 | 5.9 | 149 | 0.80 | 20 | 22708 | 5 | |
| | 5/32 | 5.8 | 148 | 0.84 | 21 | 22709 | 5 | |
| | 3/16 | 5.8 | 148 | 0.94 | 24 | 22710 | 5 | |
| | 7/32 | 5.8 | 147 | 1.03 | 26 | 22711 | 5 | |
| | 1/4 | 5.8 | 146 | 1.13 | 29 | 22712 | 5 | |
| | 5/16 | 5.7 | 144 | 1.25 | 32 | 22713 | 5 | |
| | 3/8 | 5.6 | 143 | 1.38 | 35 | 22714 | 5 | |

| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA |
|--------------------------|------|------|-----|------|----|-------|-----|---------|
| 12" LONG ARM Inch | 5/64 | 11.9 | 303 | 0.61 | 15 | 25404 | 5 | |
| | 3/32 | 11.9 | 302 | 0.65 | 16 | 25405 | 5 | |
| | 7/64 | 11.9 | 302 | 0.70 | 18 | 25406 | 5 | |
| | 1/8 | 11.9 | 302 | 0.75 | 19 | 25407 | 5 | |
| | 9/64 | 11.9 | 301 | 0.80 | 20 | 25408 | 5 | |
| | 5/32 | 11.8 | 301 | 0.84 | 21 | 25409 | 5 | |
| | 3/16 | 11.8 | 300 | 0.94 | 24 | 25410 | 5 | |
| | 7/32 | 11.8 | 299 | 1.03 | 26 | 25411 | 5 | |
| | 1/4 | 11.8 | 298 | 1.13 | 29 | 25412 | 5 | |

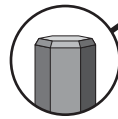
For more individual sizes available packaged, in bulk, or singles see page 11

Hex End L-Wrench Singles

- ProGuard™ Finish -

- Chamfered tool tips eliminate burrs and help tools seat in screw head
- Sharp corners transfer more torque to the screw and reduce stripping
- Precision machined for ease of use and superior fit

ProGuard™ finish delivers superior corrosion protection



Hex End Tips



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA | PART# | QTY | LIST EA | PART# | QTY | LIST EA |
|------------------|-------|------|-----|------|----|-------|-----|---------|-------|-----|---------|-------|-----|---------|
| LONG Inch | .028 | 2.6 | 66 | 0.22 | 6 | 12100 | 10 | | 13900 | 100 | | 15900 | 10 | |
| | .035 | 2.7 | 68 | 0.34 | 9 | 12101 | 10 | | 13901 | 100 | | 15901 | 10 | |
| | .050 | 2.8 | 72 | 0.53 | 13 | 12102 | 10 | | 13902 | 100 | | 15902 | 10 | |
| | 1/16 | 3.0 | 76 | 0.56 | 14 | 12103 | 10 | | 13903 | 100 | | 15903 | 10 | |
| | 5/64 | 3.2 | 81 | 0.61 | 15 | 12104 | 10 | | 13904 | 100 | | 15904 | 10 | |
| | 3/32 | 3.4 | 86 | 0.65 | 16 | 12105 | 10 | | 13905 | 100 | | 15905 | 10 | |
| | 7/64 | 3.6 | 90 | 0.70 | 18 | 12106 | 10 | | 13906 | 100 | | 15906 | 10 | |
| | 1/8 | 3.8 | 95 | 0.75 | 19 | 12107 | 10 | | 13907 | 100 | | 15907 | 10 | |
| | 9/64 | 4.0 | 101 | 0.80 | 20 | 12108 | 10 | | 13908 | 100 | | 15908 | 10 | |
| | 5/32 | 4.2 | 107 | 0.84 | 21 | 12109 | 10 | | 13909 | 100 | | 15909 | 10 | |
| | 3/16 | 4.5 | 114 | 0.94 | 24 | 12110 | 10 | | 13910 | 100 | | 15910 | 10 | |
| | 7/32 | 4.9 | 124 | 1.03 | 26 | 12111 | 5 | | 13911 | 50 | | 15911 | 5 | |
| | 1/4 | 5.3 | 133 | 1.13 | 29 | 12112 | 5 | | 13912 | 50 | | 15912 | 5 | |
| | 5/16 | 6.0 | 152 | 1.25 | 32 | 12113 | 5 | | 13913 | 50 | | 15913 | 5 | |
| | 3/8 | 6.8 | 171 | 1.38 | 35 | 12114 | 5 | | 13914 | 50 | | 15914 | 5 | |
| | 7/16 | 7.5 | 191 | 1.50 | 38 | 12115 | 1 | | 13915 | 25 | | 15915 | 1 | |
| | 1/2 | 8.3 | 210 | 1.63 | 41 | 12116 | 1 | | 13916 | 25 | | 15916 | 1 | |
| | 9/16 | 9.0 | 229 | 1.75 | 44 | 12117 | 1 | | 13917 | 10 | | 15917 | 1 | |
| | 5/8 | 9.8 | 248 | 1.88 | 48 | 12118 | 1 | | 13918 | 10 | | 15918 | 1 | |
| | 3/4 | 11.3 | 286 | 2.13 | 54 | 12119 | 1 | | 13919 | 5 | | 15919 | 1 | |
| | 7/8 | 12.7 | 322 | 2.37 | 60 | 12120 | 1 | | - | - | | - | - | |
| | 1 | 14.1 | 359 | 2.62 | 67 | 12121 | 1 | | - | - | | - | - | |
| | 1 1/4 | 17.0 | 432 | 3.00 | 76 | 12125 | 1 | | - | - | | - | - | |
| | 1 1/2 | 20.3 | 514 | 3.50 | 89 | 12129 | 1 | | - | - | | - | - | |



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA | PART# | QTY | LIST EA | PART# | QTY | LIST EA |
|-------------------|-------|------|------|------|-------|-------|-----|---------|-------|-----|---------|-------|-----|---------|
| SHORT Inch | .028 | 1.2 | 31 | 0.22 | 6 | 12200 | 10 | | 13800 | 100 | | 15800 | 10 | |
| | .035 | 1.2 | 31 | 0.34 | 9 | 12201 | 10 | | 13801 | 100 | | 15801 | 10 | |
| | .050 | 1.6 | 42 | 0.53 | 13 | 12202 | 10 | | 13802 | 100 | | 15802 | 10 | |
| | 1/16 | 1.8 | 45 | 0.56 | 14 | 12203 | 10 | | 13803 | 100 | | 15803 | 10 | |
| | 5/64 | 1.9 | 48 | 0.61 | 15 | 12204 | 10 | | 13804 | 100 | | 15804 | 10 | |
| | 3/32 | 2.0 | 51 | 0.65 | 16 | 12205 | 10 | | 13805 | 100 | | 15805 | 10 | |
| | 7/64 | 2.1 | 54 | 0.70 | 18 | 12206 | 10 | | 13806 | 100 | | 15806 | 10 | |
| | 1/8 | 2.3 | 58 | 0.75 | 19 | 12207 | 10 | | 13807 | 100 | | 15807 | 10 | |
| | 9/64 | 2.4 | 61 | 0.80 | 20 | 12208 | 10 | | 13808 | 100 | | 15808 | 10 | |
| | 5/32 | 2.5 | 64 | 0.84 | 21 | 12209 | 10 | | 13809 | 100 | | 15809 | 10 | |
| | 3/16 | 2.8 | 70 | 0.94 | 24 | 12210 | 10 | | 13810 | 100 | | 15810 | 10 | |
| | 7/32 | 3.0 | 77 | 1.03 | 26 | 12211 | 5 | | 13811 | 50 | | 15811 | 5 | |
| | 1/4 | 3.3 | 83 | 1.13 | 29 | 12212 | 5 | | 13812 | 50 | | 15812 | 5 | |
| | 5/16 | 3.8 | 96 | 1.25 | 32 | 12213 | 5 | | 13813 | 50 | | 15813 | 5 | |
| | 3/8 | 4.3 | 108 | 1.38 | 35 | 12214 | 5 | | 13814 | 50 | | 15814 | 5 | |
| | 7/16 | 4.8 | 121 | 1.50 | 38 | 12215 | 1 | | 13815 | 50 | | 15815 | 1 | |
| | 1/2 | 5.3 | 133 | 1.63 | 41 | 12216 | 1 | | 13816 | 50 | | 15816 | 1 | |
| | 9/16 | 5.8 | 146 | 1.75 | 44 | 12217 | 1 | | 13817 | 25 | | 15817 | 1 | |
| | 5/8 | 6.3 | 159 | 1.88 | 48 | 12218 | 1 | | 13818 | 20 | | 15818 | 1 | |
| | 3/4 | 7.3 | 184 | 2.13 | 54 | 12219 | 1 | | 13819 | 15 | | 15819 | 1 | |
| | 7/8 | 8.2 | 207 | 2.37 | 60 | 12220 | 1 | | - | - | | - | - | |
| | 1 | 9.2 | 232 | 2.62 | 67 | 12221 | 1 | | - | - | | - | - | |
| | 1 1/4 | 11.0 | 279 | 3.00 | 76 | 12225 | 1 | | - | - | | - | - | |
| | 1 1/2 | 13.0 | 330 | 3.50 | 89 | 12229 | 1 | | - | - | | - | - | |
| 1 3/4 | 13.3 | 337 | 4.00 | 102 | 12231 | 1 | | - | - | | - | - | | |
| 2 | 15.0 | 381 | 4.50 | 114 | 12233 | 1 | | - | - | | - | - | | |

For sets and 6" and 12" Long Arm singles see page 10

Hex End L-Wrenches

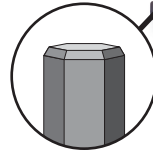
- ProGuard™ Finish -

- Chamfered tool tips eliminate burrs and help tools seat in screw head
- Sharp corners transfer more torque to the screw and reduce stripping
- Precision machined for ease of use and superior fit

ProGuard™ finish delivers superior corrosion protection



Yellow=Inch
Red=Metric



Hex End Tips

Long



Short

| Sets | PART# | MODEL# | PCS | LENGTH | CONTENTS | QTY | LIST |
|---------------|-------|--------|-----|--------|---|-----|------|
| Metric | 12146 | HLX6M | 6 | Long | 1.5, 2, 2.5, 3, 4, 5mm | 1 | |
| | 12192 | HLX7M | 7 | Long | 1.5, 2, 2.5, 3, 4, 5, 6mm | 1 | |
| | 12199 | HLX9M | 9 | Long | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |
| | 12195 | HLX15M | 15 | Long | 1.27, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10mm | 1 | |
| | 12246 | HLX6MS | 6 | Short | 1.5, 2, 2.5, 3, 4, 5mm | 1 | |
| | 12292 | HLX7MS | 7 | Short | 1.5, 2, 2.5, 3, 4, 5, 6mm | 1 | |
| | 12299 | HLX9MS | 9 | Short | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |

In Metal Box

| Sets | PART# | MODEL# | PCS | LENGTH | CONTENTS | QTY | LIST |
|---------------|-------|----------|-----|--------|--|-----|------|
| Metric | 12396 | MHLX10M | 10 | Long | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12mm | 1 | |
| | 12393 | MHLX12MS | 12 | Short | .71, .89, 1.27, 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |
| | 12394 | MHLX15MS | 15 | Short | .71, .89, 1.27, 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12, 14, 17mm | 1 | |



12394

In Pouch

| Sets | PART# | MODEL# | PCS | LENGTH | CONTENTS | QTY | LIST |
|---------------|-------|----------|-----|--------|---|-----|------|
| Metric | 12349 | PHLX15M | 15 | Long | .89, 1.27, 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12, 14, 17, 19mm | 1 | |
| | 12392 | PHLX7MS | 7 | Short | 2, 2.5, 3, 4, 5, 6, 8mm | 1 | |
| | 12399 | PHLX9MS | 9 | Short | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |
| | 12391 | PHLX11MS | 11 | Short | 2, 2.5, 3, 4, 5, 6, 7, 8, 9, 10, 12mm | 1 | |
| | 12397 | PHLX14MS | 14 | Short | 2, 2.5, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 17, 19mm | 1 | |



12397

Did you know...?

Bondhus tools are harder and more ductile than competitors' tools. They wear longer, generate greater torque and resist breakage and shattering.

For individual sizes available packaged, in bulk, or singles see page 13

Hex End L-Wrench Singles

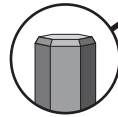
- ProGuard™ Finish -

ProGuard™ finish delivers superior corrosion protection



L-Wrenches

- Chamfered tool tips eliminate burrs and help tools seat in screw head
- Sharp corners transfer more torque to the screw and reduce stripping
- Precision machined for ease of use and superior fit



Hex End Tips



SINGLE PACKAGING

PACKAGED

BULK



TAGGED/BARCODED

| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA | PART# | QTY | LIST EA | PART# | QTY | LIST EA |
|--------------------|------|------|------|------|-------|-------|-----|---------|-------|-----|---------|-------|-----|---------|
| LONG Metric | 0.71 | 2.6 | 66 | 0.22 | 6 | 12147 | 10 | | 13947 | 100 | | 15947 | 10 | |
| | 0.89 | 2.7 | 68 | 0.34 | 9 | 12148 | 10 | | 13948 | 100 | | 15948 | 10 | |
| | 1.27 | 2.8 | 72 | 0.53 | 13 | 12149 | 10 | | 13949 | 100 | | 15949 | 10 | |
| | 1.5 | 3.0 | 77 | 0.53 | 14 | 12150 | 10 | | 13950 | 100 | | 15950 | 10 | |
| | 2.0 | 3.2 | 82 | 0.61 | 16 | 12152 | 10 | | 13952 | 100 | | 15952 | 10 | |
| | 2.5 | 3.5 | 88 | 0.69 | 17 | 12154 | 10 | | 13954 | 100 | | 15954 | 10 | |
| | 3.0 | 3.9 | 98 | 0.75 | 19 | 12156 | 10 | | 13956 | 100 | | 15956 | 10 | |
| | 3.5 | 3.9 | 100 | 0.85 | 21 | 12158 | 1 | | 13958 | 100 | | 15958 | 1 | |
| | 4.0 | 4.3 | 110 | 0.87 | 22 | 12160 | 10 | | 13960 | 100 | | 15960 | 10 | |
| | 4.5 | 4.5 | 114 | 1.00 | 25 | 12162 | 1 | | 13962 | 100 | | 15962 | 1 | |
| | 5.0 | 4.7 | 119 | 1.06 | 27 | 12164 | 5 | | 13964 | 100 | | 15964 | 5 | |
| | 5.5 | 4.9 | 124 | 1.14 | 29 | 12166 | 1 | | 13966 | 50 | | 15966 | 1 | |
| | 6 | 5.5 | 139 | 1.22 | 31 | 12168 | 5 | | 13968 | 50 | | 15968 | 5 | |
| | 7 | 5.5 | 140 | 1.30 | 33 | 12170 | 1 | | 13970 | 50 | | 15970 | 1 | |
| | 8 | 6.0 | 152 | 1.38 | 35 | 12172 | 5 | | 13972 | 50 | | 15972 | 5 | |
| | 9 | 6.2 | 159 | 1.46 | 37 | 12174 | 1 | | 13974 | 50 | | 15974 | 1 | |
| | 10 | 6.7 | 171 | 1.54 | 39 | 12176 | 5 | | 13976 | 50 | | 15976 | 5 | |
| | 11 | 7.9 | 200 | 1.63 | 42 | 12178 | 1 | | 13978 | 25 | | 15978 | 1 | |
| | 12 | 8.7 | 220 | 1.73 | 44 | 12180 | 1 | | 13980 | 25 | | 15980 | 1 | |
| | 13 | xx.x | xxx | x.xx | xx | 12182 | 1 | | 13982 | 10 | | 15982 | 1 | |
| | 14 | 10.2 | 260 | 2.15 | 55 | 12184 | 1 | | 13984 | 10 | | 15984 | 1 | |
| | 17 | 11.0 | 280 | 2.42 | 61 | 12186 | 1 | | 13986 | 10 | | 15986 | 1 | |
| | 19 | 11.6 | 295 | 2.70 | 69 | 12188 | 1 | | 13988 | 5 | | 15988 | 1 | |
| | 22 | 12.8 | 325 | 3.07 | 78 | 12191 | 1 | | - | - | | - | - | |
| 24 | 14.3 | 364 | 3.47 | 88 | 12193 | 1 | | - | - | | - | - | | |
| 32 | 17.0 | 432 | 4.80 | 122 | 12196 | 1 | | - | - | | - | - | | |
| 36 | 20.3 | 516 | 5.37 | 137 | 12198 | 1 | | - | - | | - | - | | |



SINGLE PACKAGING

PACKAGED

BULK



TAGGED/BARCODED

| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA | PART# | QTY | LIST EA | PART# | QTY | LIST EA |
|---------------------|------|------|------|------|-------|-------|-----|---------|-------|-----|---------|-------|-----|---------|
| SHORT Metric | 0.71 | 1.2 | 31 | 0.22 | 6 | 12247 | 10 | | 13847 | 100 | | 15847 | 10 | |
| | 0.89 | 1.2 | 31 | 0.34 | 9 | 12248 | 10 | | 13848 | 100 | | 15848 | 10 | |
| | 1.27 | 1.6 | 42 | 0.53 | 13 | 12249 | 10 | | 13849 | 100 | | 15849 | 10 | |
| | 1.5 | 1.7 | 44 | 0.53 | 14 | 12250 | 10 | | 13850 | 100 | | 15850 | 10 | |
| | 2.0 | 1.9 | 49 | 0.61 | 16 | 12252 | 10 | | 13852 | 100 | | 15852 | 10 | |
| | 2.5 | 2.1 | 54 | 0.69 | 17 | 12254 | 10 | | 13854 | 100 | | 15854 | 10 | |
| | 3.0 | 2.4 | 61 | 0.75 | 19 | 12256 | 10 | | 13856 | 100 | | 15856 | 10 | |
| | 3.5 | 2.6 | 65 | 0.85 | 21 | 12258 | 1 | | 13858 | 100 | | 15858 | 1 | |
| | 4.0 | 2.7 | 68 | 0.87 | 22 | 12260 | 10 | | 13860 | 100 | | 15860 | 10 | |
| | 4.5 | 2.9 | 73 | 1.00 | 25 | 12262 | 1 | | 13862 | 100 | | 15862 | 1 | |
| | 5.0 | 3.1 | 78 | 1.06 | 27 | 12264 | 5 | | 13864 | 100 | | 15864 | 5 | |
| | 5.5 | 3.3 | 83 | 1.14 | 29 | 12266 | 1 | | 13866 | 50 | | 15866 | 1 | |
| | 6 | 3.5 | 88 | 1.22 | 31 | 12268 | 5 | | 13868 | 50 | | 15868 | 5 | |
| | 7 | 3.7 | 93 | 1.30 | 33 | 12270 | 1 | | 13870 | 50 | | 15870 | 1 | |
| | 8 | 3.9 | 98 | 1.38 | 35 | 12272 | 5 | | 13872 | 50 | | 15872 | 5 | |
| | 9 | 4.0 | 102 | 1.46 | 37 | 12274 | 1 | | 13874 | 50 | | 15874 | 1 | |
| | 10 | 4.3 | 109 | 1.54 | 39 | 12276 | 5 | | 13876 | 50 | | 15876 | 5 | |
| | 11 | 4.5 | 115 | 1.63 | 42 | 12278 | 1 | | 13878 | 50 | | 15878 | 1 | |
| | 12 | 4.8 | 122 | 1.73 | 44 | 12280 | 1 | | 13880 | 50 | | 15880 | 1 | |
| | 13 | x.x | xxx | x.xx | xx | 12282 | 1 | | 13882 | 25 | | 15882 | 1 | |
| | 14 | 5.4 | 136 | 2.15 | 55 | 12284 | 1 | | 13884 | 25 | | 15884 | 1 | |
| | 17 | 6.1 | 156 | 2.42 | 61 | 12286 | 1 | | 13886 | 20 | | 15886 | 1 | |
| | 19 | 6.9 | 175 | 2.72 | 69 | 12288 | 1 | | 13888 | 15 | | 15888 | 1 | |
| | 22 | 7.5 | 190 | 3.07 | 78 | 12291 | 1 | | - | - | | - | - | |
| 24 | 8.4 | 213 | 3.47 | 88 | 12293 | 1 | | - | - | | - | - | | |
| 27 | 9.4 | 238 | 3.84 | 98 | 12295 | 1 | | - | - | | - | - | | |
| 32 | 11.8 | 300 | 4.80 | 122 | 12296 | 1 | | - | - | | - | - | | |
| 36 | 13.3 | 338 | 5.37 | 137 | 12298 | 1 | | - | - | | - | - | | |

For sets see page 12

Tamper Resistant Hex End L-Wrenches

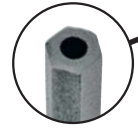
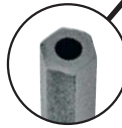
- ProGuard™ Finish -

- Fits all tamper resistant hex screws
- Chamfered tool tips eliminate burrs and help tools seat in screw head
- Sharp corners transfer more torque to the screw and reduce stripping
- Precision machined for ease of use and superior fit

ProGuard™ finish delivers superior corrosion protection



Tamper Resistant Hex Tips



Tamper Resistant Hex Tips

| Sets | PART# | MODEL# | PCS | LENGTH | CONTENTS | QTY | LIST |
|---------------|-------|--------|-----|--------|--|-----|------|
| Inch | 48332 | HTR8 | 8 | Long | 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| Metric | 48386 | HTR6M | 6 | Long | 2.5, 3, 4, 5, 6, 8mm | 1 | |



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA |
|--------------------|------|------|------|------|-------|-------|-----|---------|
| LONG Inch | 3/32 | 3.4 | 86 | 0.65 | 16 | 48305 | 5 | |
| | 1/8 | 3.8 | 95 | 0.75 | 19 | 48307 | 5 | |
| | 5/32 | 4.2 | 107 | 0.84 | 21 | 48309 | 5 | |
| | 3/16 | 4.5 | 114 | 0.94 | 24 | 48310 | 5 | |
| | 7/32 | 4.9 | 124 | 1.03 | 26 | 48311 | 5 | |
| | 1/4 | 5.3 | 133 | 1.13 | 29 | 48312 | 5 | |
| | 5/16 | 6.0 | 152 | 1.25 | 32 | 48313 | 5 | |
| 3/8 | 6.8 | 171 | 1.38 | 35 | 48314 | 2 | | |
| LONG Metric | 2.5 | 3.5 | 88 | 0.69 | 17 | 48354 | 5 | |
| | 3.0 | 3.9 | 98 | 0.75 | 19 | 48356 | 5 | |
| | 4.0 | 4.3 | 110 | 0.87 | 22 | 48360 | 5 | |
| | 5.0 | 4.7 | 119 | 1.06 | 27 | 48364 | 5 | |
| | 6 | 5.5 | 139 | 1.22 | 31 | 48368 | 5 | |
| | 8 | 6.0 | 152 | 1.38 | 35 | 48372 | 5 | |
| | 10 | 6.7 | 171 | 1.54 | 39 | 48376 | 2 | |



48332

Tamper Resistant Star Tip L-Wrenches

- ProGuard™ Finish -

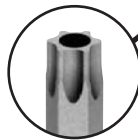
- Fits all Star and TORX® brand tamper resistant screws
- Chamfered tool tips eliminate burrs and help tools seat in screw head
- Sharp corners transfer more torque to the screw and reduce stripping
- Precision machined for ease of use and superior fit

ProGuard™ finish delivers superior corrosion protection



Tools are in color coded cases for easy recognition
Green=Star

Tamper Resistant Star Tips



Tamper Resistant Star Tips

| Sets | PART# | MODEL# | PCS | LENGTH | CONTENTS | QTY | LIST |
|-------------|-------|---------|-----|--------|---|-----|------|
| Star | 32432 | TR-TL8S | 8 | Long | TR6, TR7, TR8, TR9, TR10, TR15, TR20, TR25 | 1 | |
| | 32434 | TR-TL8 | 8 | Long | TR9, TR10, TR15, TR20, TR25, TR27, TR30, TR40 | 1 | |



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA | PART# | QTY | LIST EA |
|------------------|------|------|-----|------|----|-------|-----|---------|-------|-----|---------|
| LONG Star | TR6 | 2.1 | 55 | 0.65 | 16 | 33406 | 25 | | 32406 | 2 | |
| | TR7 | 2.4 | 61 | 0.65 | 16 | 33407 | 25 | | 32407 | 2 | |
| | TR8 | 2.6 | 67 | 0.65 | 16 | 33408 | 25 | | 32408 | 2 | |
| | TR9 | 2.9 | 74 | 0.65 | 16 | 33409 | 25 | | 32409 | 2 | |
| | TR10 | 3.2 | 80 | 0.73 | 19 | 33410 | 25 | | 32410 | 2 | |
| | TR15 | 3.3 | 84 | 0.78 | 20 | 33415 | 25 | | 32415 | 2 | |
| | TR20 | 3.6 | 91 | 0.78 | 20 | 33420 | 25 | | 32420 | 2 | |
| | TR25 | 3.8 | 98 | 0.88 | 22 | 33425 | 25 | | 32425 | 2 | |
| | TR27 | 4.2 | 106 | 0.95 | 24 | 33427 | 25 | | 32427 | 2 | |
| | TR30 | 4.6 | 116 | 1.03 | 26 | 33430 | 25 | | 32430 | 2 | |
| | TR40 | 4.9 | 125 | 1.11 | 28 | 33440 | 25 | | 32440 | 2 | |

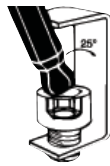
Did you know...?
ProGuard™ Dry Surface Technology is the world's best corrosion protection. The tool user does not have to work with rusty tools. ProGuard™ protection delivers up to 5 times the corrosion resistance of any other Hex or Star Tip tool finish.

*TORX® is a registered trademark of Acument Intellectual Properties, LLC

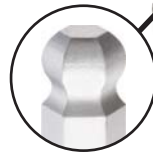
Ball End L-Wrenches

- BriteGuard™ Finish -

- Ball End inserts into a screw at a 25° angle
- Ball End saves time by quickly funneling tool into screw
- 25° angle allows natural hand and wrist movement
- Superior Ball End strength and working angle
- Works in hard to reach places



BriteGuard™ finish delivers superior corrosion protection



Ball End Tips

Yellow=Inch

Red=Metric



25° Working angle

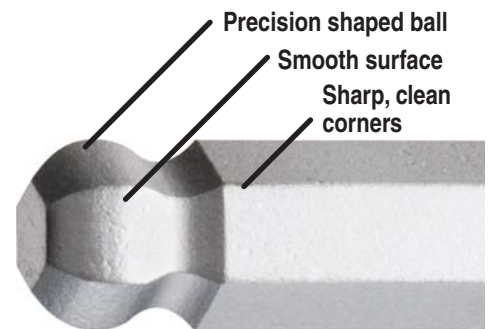
| Sets | PART# | MODEL# | PCS | LENGTH | CONTENTS | QTY | LIST |
|---------------|-------|---------|-----|------------|--|-----|------|
| Inch | 16938 | BLX10B | 10 | Long | 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4" | 1 | |
| | 16936 | BLX12B | 12 | Long | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16" | 1 | |
| | 16937 | BLX13B | 13 | Long | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| Metric | 17046 | BLX6MB | 6 | Extra Long | 1.5, 2, 2.5, 3, 4, 5mm | 1 | |
| | 17092 | BLX7MB | 7 | Extra Long | 1.5, 2, 2.5, 3, 4, 5, 6mm | 1 | |
| | 17099 | BLX9MB | 9 | Extra Long | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |
| | 17095 | BLX15MB | 15 | Extra Long | 1.27, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10mm | 1 | |



17099



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA | PART# | QTY | LIST EA |
|------------------|------|------|------|------|----|-------|-----|---------|-------|-----|---------|
| LONG Inch | .050 | 2.8 | 72 | 0.53 | 13 | 26902 | 50 | | 16902 | 10 | |
| | 1/16 | 3.0 | 76 | 0.56 | 14 | 26903 | 50 | | 16903 | 10 | |
| | 5/64 | 3.2 | 81 | 0.61 | 15 | 26904 | 50 | | 16904 | 10 | |
| | 3/32 | 3.4 | 86 | 0.65 | 16 | 26905 | 50 | | 16905 | 10 | |
| | 7/64 | 3.6 | 90 | 0.70 | 18 | 26906 | 50 | | 16906 | 10 | |
| | 1/8 | 3.8 | 95 | 0.75 | 19 | 26907 | 50 | | 16907 | 10 | |
| | 9/64 | 4.0 | 101 | 0.80 | 20 | 26908 | 50 | | 16908 | 10 | |
| | 5/32 | 4.2 | 107 | 0.84 | 21 | 26909 | 50 | | 16909 | 10 | |
| | 3/16 | 4.5 | 114 | 0.94 | 24 | 26910 | 50 | | 16910 | 10 | |
| | 7/32 | 4.9 | 124 | 1.03 | 26 | 26911 | 25 | | 16911 | 5 | |
| | 1/4 | 5.6 | 141 | 1.13 | 29 | 26912 | 25 | | 16912 | 5 | |
| | 5/16 | 6.0 | 152 | 1.25 | 32 | 26913 | 25 | | 16913 | 5 | |
| | 3/8 | 6.8 | 171 | 1.38 | 35 | 26914 | 25 | | 16914 | 5 | |
| | 7/16 | 7.5 | 191 | 1.50 | 38 | - | - | | 16915 | 1 | |
| | 1/2 | 8.3 | 210 | 1.63 | 41 | - | - | | 16916 | 1 | |
| | 9/16 | 9.0 | 229 | 1.75 | 44 | - | - | | 16917 | 1 | |
| 5/8 | 9.8 | 248 | 1.88 | 48 | - | - | | 16918 | 1 | | |
| 3/4 | 11.3 | 286 | 2.13 | 54 | - | - | | 16919 | 1 | | |



Precision shaped ball
Smooth surface
Sharp, clean corners

| | | | | | | | | | | | |
|--------------------------|------|------|------|------|----|-------|----|-------|-------|----|--|
| EXTRA LONG Metric | 1.27 | 2.8 | 72 | 0.53 | 13 | 27049 | 50 | | 17049 | 10 | |
| | 1.5 | 3.5 | 90 | 0.53 | 14 | 27050 | 50 | | 17050 | 10 | |
| | 2.0 | 3.9 | 100 | 0.61 | 16 | 27052 | 50 | | 17052 | 10 | |
| | 2.5 | 4.4 | 112 | 0.69 | 17 | 27054 | 50 | | 17054 | 10 | |
| | 3.0 | 5.0 | 126 | 0.75 | 19 | 27056 | 50 | | 17056 | 10 | |
| | 3.5 | 5.2 | 133 | 0.85 | 21 | 27058 | 50 | | 17058 | 1 | |
| | 4.0 | 5.6 | 142 | 0.87 | 22 | 27060 | 50 | | 17060 | 10 | |
| | 4.5 | 5.9 | 151 | 1.00 | 25 | 27062 | 50 | | 17062 | 1 | |
| | 5.0 | 6.3 | 160 | 1.06 | 27 | 27064 | 50 | | 17064 | 5 | |
| | 5.5 | 6.8 | 172 | 1.14 | 29 | 27066 | 25 | | 17066 | 1 | |
| | 6 | 6.8 | 172 | 1.22 | 31 | 27068 | 25 | | 17068 | 5 | |
| | 7 | 7.2 | 184 | 1.30 | 33 | 27070 | 25 | | 17070 | 1 | |
| | 8 | 7.7 | 195 | 1.38 | 35 | 27072 | 25 | | 17072 | 5 | |
| | 9 | 8.0 | 202 | 1.46 | 37 | 27074 | 25 | | 17074 | 1 | |
| | 10 | 8.4 | 213 | 1.54 | 39 | 27076 | 10 | | 17076 | 5 | |
| | 11 | 7.9 | 200 | 1.63 | 42 | 27078 | 10 | | 17078 | 1 | |
| | 12 | 8.7 | 220 | 1.73 | 44 | 27080 | 10 | | 17080 | 1 | |
| | 14 | 10.2 | 260 | 2.15 | 55 | - | - | | 17084 | 1 | |
| 17 | 11.0 | 280 | 2.42 | 61 | - | - | | 17086 | 1 | | |
| 19 | 11.6 | 295 | 2.70 | 69 | - | - | | 17088 | 1 | | |

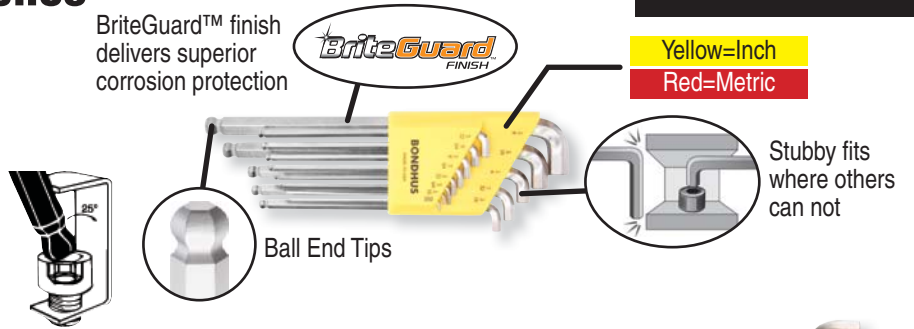
Did you know...?

Bondhus Ball End tools feature a consistent 25° working angle. The Ball End feature saves time and tool users can absolutely count on every Bondhus Ball End tool to provide a 25° working angle. Period!

Stubby Ball End L-Wrenches

- BriteGuard™ Finish -

- Fits into tight spaces standard hex keys can not
- Eliminates the need to trim and file the short arm
- Tighter inside radius means full smooth entry into screw head
- Chamfered short arm eliminates burrs
- Ball End inserts into a screw at a 25° angle

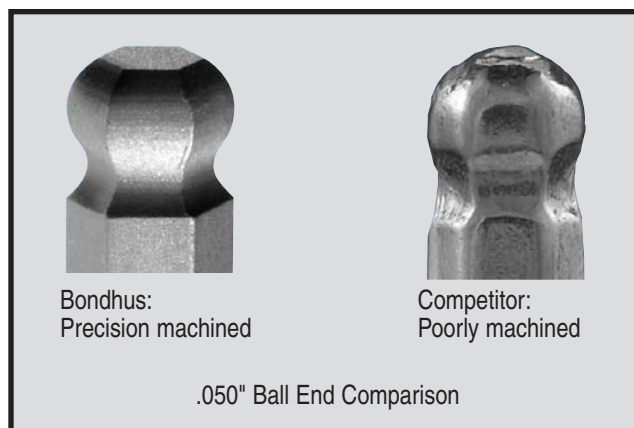


| Sets | PART# | MODEL# | PCS | LENGTH | CONTENTS | QTY | LIST |
|---------------|-------|---------|-----|------------|--|-----|------|
| Inch | 16738 | SBLX10B | 10 | Long | 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4" | 1 | |
| | 16737 | SBLX13B | 13 | Long | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| Metric | 16792 | SBLX7MB | 7 | Extra Long | 1.5, 2, 2.5, 3, 4, 5, 6mm | 1 | |
| | 16799 | SBLX9MB | 9 | Extra Long | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |



| Singles | SIZE | INCH | | MM | | PART# | QTY | LIST | EA | PART# | QTY | LIST | EA |
|--------------------------|------|------|------|------|-------|-------|-----|------|-------|-------|-----|------|----|
| | | INCH | MM | INCH | MM | | | | | | | | |
| LONG Inch | .050 | 2.7 | 69 | 0.14 | 4 | 26702 | 50 | | | 16702 | 5 | | |
| | 1/16 | 2.8 | 72 | 0.16 | 4 | 26703 | 50 | | | 16703 | 5 | | |
| | 5/64 | 2.9 | 74 | 0.27 | 7 | 26704 | 50 | | | 16704 | 5 | | |
| | 3/32 | 3.1 | 78 | 0.29 | 7 | 26705 | 50 | | | 16705 | 5 | | |
| | 7/64 | 3.3 | 83 | 0.30 | 8 | 26706 | 50 | | | 16706 | 5 | | |
| | 1/8 | 3.4 | 87 | 0.32 | 8 | 26707 | 50 | | | 16707 | 5 | | |
| | 9/64 | 3.6 | 92 | 0.33 | 8 | 26708 | 50 | | | 16708 | 5 | | |
| | 5/32 | 3.9 | 98 | 0.35 | 9 | 26709 | 50 | | | 16709 | 5 | | |
| | 3/16 | 4.1 | 104 | 0.39 | 10 | 26710 | 50 | | | 16710 | 5 | | |
| | 7/32 | 4.4 | 112 | 0.46 | 12 | 26711 | 25 | | | 16711 | 2 | | |
| | 1/4 | 5.1 | 129 | 0.46 | 12 | 26712 | 25 | | | 16712 | 2 | | |
| 5/16 | 5.4 | 138 | 0.57 | 14 | 26713 | 25 | | | 16713 | 2 | | | |
| 3/8 | 6.0 | 153 | 0.71 | 18 | 26714 | 25 | | | 16714 | 2 | | | |
| EXTRA LONG Metric | 1.27 | 2.7 | 69 | 0.14 | 4 | 26749 | 50 | | | 16749 | 5 | | |
| | 1.5 | 3.5 | 90 | 0.19 | 5 | 26750 | 50 | | | 16750 | 5 | | |
| | 2.0 | 3.9 | 100 | 0.27 | 7 | 26752 | 50 | | | 16752 | 5 | | |
| | 2.5 | 4.4 | 112 | 0.28 | 7 | 26754 | 50 | | | 16754 | 5 | | |
| | 3.0 | 5.0 | 126 | 0.32 | 8 | 26756 | 50 | | | 16756 | 5 | | |
| | 4.0 | 5.6 | 142 | 0.35 | 9 | 26760 | 50 | | | 16760 | 5 | | |
| | 5.0 | 6.3 | 160 | 0.40 | 10 | 26764 | 25 | | | 16764 | 2 | | |
| | 6 | 6.8 | 172 | 0.47 | 12 | 26768 | 25 | | | 16768 | 2 | | |
| | 8 | 7.7 | 195 | 0.57 | 14 | 26772 | 25 | | | 16772 | 2 | | |
| | 10 | 8.4 | 213 | 0.78 | 20 | 26776 | 25 | | | 16776 | 2 | | |

Did you know...?
 Stubby tools have a tighter inside radius than standard hex keys, which saves time because the tight radius design reaches screws that even a hex key with a cut down short arm can not.



Hex End L-Wrenches

- BriteGuard™ Finish -

- Chamfered tool tips eliminate burrs and help tools seat in screw head
- Sharp corners transfer more torque to the screw and reduce stripping
- Precision machined for ease of use and superior fit

BriteGuard™ finish delivers superior corrosion protection



Yellow=Inch
Red=Metric

| Sets | PART# | MODEL# | PCS | LENGTH | CONTENTS | QTY | LIST |
|--------|-------|---------|-----|------------|--|-----|------|
| Inch | 16138 | HLX10B | 10 | Long | 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4" | 1 | |
| | 16136 | HLX12B | 12 | Long | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16" | 1 | |
| | 16137 | HLX13B | 13 | Long | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 16238 | HLX10SB | 10 | Short | 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4" | 1 | |
| | 16236 | HLX12SB | 12 | Short | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16" | 1 | |
| | 16237 | HLX13SB | 13 | Short | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| Metric | 17146 | HLX6MB | 6 | Extra Long | 1.5, 2, 2.5, 3, 4, 5mm | 1 | |
| | 17192 | HLX7MB | 7 | Extra Long | 1.5, 2, 2.5, 3, 4, 5, 6mm | 1 | |
| | 17199 | HLX9MB | 9 | Extra Long | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |
| | 17195 | HLX15MB | 15 | Extra Long | 1.27, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10mm | 1 | |
| | 16246 | HLX6MSB | 6 | Short | 1.5, 2, 2.5, 3, 4, 5mm | 1 | |
| | 16292 | HLX7MSB | 7 | Short | 1.5, 2, 2.5, 3, 4, 5, 6mm | 1 | |
| | 16299 | HLX9MSB | 9 | Short | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST | EA | PART# | QTY | LIST | EA | PART# | QTY | LIST | EA | | | | | | | | | | |
|---------|-------------------|------|-----|------|------|-------|-------|------|----|-------|-------|------|--------------|-------|------|------|------|------|-------|-------|----|--|-------|-------|----|--|--|
| Inch | Long | | | | | | | | | | | | Short | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | .028 | 2.6 | 66 | 0.22 | 6 | 26100 | 50 | | | 16100 | 10 | | | .028 | 1.2 | 31 | 0.22 | 6 | 26200 | 50 | | | 16200 | 10 | | |
| | | .035 | 2.7 | 68 | 0.34 | 9 | 26101 | 50 | | | 16101 | 10 | | | .035 | 1.2 | 31 | 0.34 | 9 | 26201 | 50 | | | 16201 | 10 | | |
| | | .050 | 2.8 | 72 | 0.53 | 13 | 26102 | 50 | | | 16102 | 10 | | | .050 | 1.6 | 42 | 0.53 | 13 | 26202 | 50 | | | 16202 | 10 | | |
| | | 1/16 | 3.0 | 76 | 0.56 | 14 | 26103 | 50 | | | 16103 | 10 | | | 1/16 | 1.8 | 45 | 0.56 | 14 | 26203 | 50 | | | 16203 | 10 | | |
| | | 5/64 | 3.2 | 81 | 0.61 | 15 | 26104 | 50 | | | 16104 | 10 | | | 5/64 | 1.9 | 48 | 0.61 | 15 | 26204 | 50 | | | 16204 | 10 | | |
| | | 3/32 | 3.4 | 86 | 0.65 | 16 | 26105 | 50 | | | 16105 | 10 | | | 3/32 | 2.0 | 51 | 0.65 | 16 | 26205 | 50 | | | 16205 | 10 | | |
| | | 7/64 | 3.6 | 90 | 0.70 | 18 | 26106 | 50 | | | 16106 | 10 | | | 7/64 | 2.1 | 54 | 0.70 | 18 | 26206 | 50 | | | 16206 | 10 | | |
| | | 1/8 | 3.8 | 95 | 0.75 | 19 | 26107 | 50 | | | 16107 | 10 | | | 1/8 | 2.3 | 58 | 0.75 | 19 | 26207 | 50 | | | 16207 | 10 | | |
| | | 9/64 | 4.0 | 101 | 0.80 | 20 | 26108 | 50 | | | 16108 | 10 | | | 9/64 | 2.4 | 61 | 0.80 | 20 | 26208 | 50 | | | 16208 | 10 | | |
| | | 5/32 | 4.2 | 107 | 0.84 | 21 | 26109 | 50 | | | 16109 | 10 | | | 5/32 | 2.5 | 64 | 0.84 | 21 | 26209 | 50 | | | 16209 | 10 | | |
| | | 3/16 | 4.5 | 114 | 0.94 | 24 | 26110 | 50 | | | 16110 | 10 | | | 3/16 | 2.8 | 70 | 0.94 | 24 | 26210 | 50 | | | 16210 | 10 | | |
| | | 7/32 | 4.9 | 124 | 1.03 | 26 | 26111 | 25 | | | 16111 | 5 | | | 7/32 | 3.0 | 77 | 1.03 | 26 | 26211 | 25 | | | 16211 | 5 | | |
| | | 1/4 | 5.3 | 133 | 1.13 | 29 | 26112 | 25 | | | 16112 | 5 | | | 1/4 | 3.3 | 83 | 1.13 | 29 | 26212 | 25 | | | 16212 | 5 | | |
| | | 5/16 | 6.0 | 152 | 1.25 | 32 | 26113 | 25 | | | 16113 | 5 | | | 5/16 | 3.8 | 96 | 1.25 | 32 | 26213 | 25 | | | 16213 | 5 | | |
| | | 3/8 | 6.8 | 171 | 1.38 | 35 | 26114 | 25 | | | 16114 | 5 | | | 3/8 | 4.3 | 108 | 1.38 | 35 | 26214 | 25 | | | 16214 | 5 | | |
| | | 7/16 | 7.5 | 191 | 1.50 | 38 | - | - | | | 16115 | 1 | | | 7/16 | 4.8 | 121 | 1.50 | 38 | - | - | | | 16215 | 1 | | |
| | | 1/2 | 8.3 | 210 | 1.63 | 41 | - | - | | | 16116 | 1 | | | 1/2 | 5.3 | 133 | 1.63 | 41 | - | - | | | 16216 | 1 | | |
| | | 9/16 | 9.0 | 229 | 1.75 | 44 | - | - | | | 16117 | 1 | | | 9/16 | 5.8 | 146 | 1.75 | 44 | - | - | | | 16217 | 1 | | |
| | 5/8 | 9.8 | 248 | 1.88 | 48 | - | - | | | 16118 | 1 | | | 5/8 | 6.3 | 159 | 1.88 | 48 | - | - | | | 16218 | 1 | | | |
| | 3/4 | 11.3 | 286 | 2.13 | 54 | - | - | | | 16119 | 1 | | | 3/4 | 7.3 | 184 | 2.13 | 54 | - | - | | | 16219 | 1 | | | |
| Metric | Extra Long | | | | | | | | | | | | Short | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | .71 | 2.6 | 66 | 0.22 | 6 | 27147 | 50 | | | 17147 | 10 | | | .71 | 1.2 | 31 | 0.22 | 6 | 26247 | 50 | | | 16247 | 10 | | |
| | | .89 | 2.7 | 68 | 0.34 | 9 | 27148 | 50 | | | 17148 | 10 | | | .89 | 1.2 | 31 | 0.34 | 9 | 26248 | 50 | | | 16248 | 10 | | |
| | | 1.27 | 2.8 | 72 | 0.53 | 13 | 27149 | 50 | | | 17149 | 10 | | | 1.27 | 1.6 | 42 | 0.53 | 13 | 26249 | 50 | | | 16249 | 10 | | |
| | | 1.5 | 3.5 | 90 | 0.53 | 14 | 27150 | 50 | | | 17150 | 10 | | | 1.5 | 1.7 | 44 | 0.53 | 14 | 26250 | 50 | | | 16250 | 10 | | |
| | | 2.0 | 3.9 | 100 | 0.61 | 16 | 27152 | 50 | | | 17152 | 10 | | | 2.0 | 1.9 | 49 | 0.61 | 16 | 26252 | 50 | | | 16252 | 10 | | |
| | | 2.5 | 4.4 | 112 | 0.69 | 17 | 27154 | 50 | | | 17154 | 10 | | | 2.5 | 2.1 | 54 | 0.69 | 17 | 26254 | 50 | | | 16254 | 10 | | |
| | | 3.0 | 5.0 | 126 | 0.75 | 19 | 27156 | 50 | | | 17156 | 10 | | | 3.0 | 2.4 | 61 | 0.75 | 19 | 26256 | 50 | | | 16256 | 10 | | |
| | | 3.5 | 5.2 | 133 | 0.85 | 21 | 27158 | 50 | | | 17158 | 1 | | | 3.5 | 2.6 | 65 | 0.85 | 21 | 26258 | 50 | | | 16258 | 1 | | |
| | | 4.0 | 5.6 | 142 | 0.87 | 22 | 27160 | 50 | | | 17160 | 10 | | | 4.0 | 2.7 | 68 | 0.87 | 22 | 26260 | 50 | | | 16260 | 10 | | |
| | | 4.5 | 5.9 | 151 | 1.00 | 25 | 27162 | 50 | | | 17162 | 1 | | | 4.5 | 2.9 | 73 | 1.00 | 25 | 26262 | 50 | | | 16262 | 1 | | |
| | | 5.0 | 6.3 | 160 | 1.06 | 27 | 27164 | 50 | | | 17164 | 5 | | | 5.0 | 3.1 | 78 | 1.06 | 27 | 26264 | 50 | | | 16264 | 5 | | |
| | | 5.5 | 6.8 | 172 | 1.14 | 29 | 27166 | 25 | | | 17166 | 1 | | | 5.5 | 3.3 | 83 | 1.14 | 29 | 26266 | 25 | | | 16266 | 1 | | |
| | | 6 | 6.8 | 172 | 1.22 | 31 | 27168 | 25 | | | 17168 | 5 | | | 6 | 3.5 | 88 | 1.22 | 31 | 26268 | 25 | | | 16268 | 5 | | |
| | | 7 | 7.2 | 184 | 1.30 | 33 | 27170 | 25 | | | 17170 | 1 | | | 7 | 3.7 | 93 | 1.30 | 33 | 26270 | 25 | | | 16270 | 1 | | |
| | | 8 | 7.7 | 195 | 1.38 | 35 | 27172 | 25 | | | 17172 | 5 | | | 8 | 3.9 | 98 | 1.38 | 35 | 26272 | 25 | | | 16272 | 5 | | |
| | | 9 | 8.0 | 202 | 1.46 | 37 | 27174 | 25 | | | 17174 | 1 | | | 9 | 4.0 | 102 | 1.46 | 37 | 26274 | 25 | | | 16274 | 1 | | |
| | | 10 | 8.4 | 213 | 1.54 | 39 | 27176 | 10 | | | 17176 | 5 | | | 10 | 4.3 | 109 | 1.54 | 39 | 26276 | 10 | | | 16276 | 5 | | |
| | | 11 | 7.9 | 200 | 1.63 | 42 | 27178 | 10 | | | 17178 | 1 | | | 11 | 4.5 | 115 | 1.63 | 42 | 26278 | 10 | | | 16278 | 1 | | |
| | 12 | 8.7 | 220 | 1.73 | 44 | 27180 | 10 | | | 17180 | 1 | | | 12 | 4.8 | 122 | 1.73 | 44 | 26280 | 10 | | | 16280 | 1 | | | |
| | 14 | 10.2 | 260 | 2.15 | 55 | - | - | | | 17184 | 1 | | | 14 | 5.4 | 136 | 2.15 | 55 | - | - | | | 16284 | 1 | | | |
| | 17 | 11.0 | 280 | 2.42 | 61 | - | - | | | 17186 | 1 | | | 17 | 6.1 | 156 | 2.42 | 61 | - | - | | | 16286 | 1 | | | |
| | 19 | 11.6 | 295 | 2.70 | 69 | - | - | | | 17188 | 1 | | | 19 | 6.9 | 175 | 2.72 | 69 | - | - | | | 16288 | 1 | | | |

Ball End L-Wrenches

- GoldGuard™ Finish -

- Ball End inserts into a screw at a 25° angle
- Ball End saves time by quickly funneling tool into screw
- 25° angle allows natural hand and wrist movement
- Superior Ball End strength and working angle
- Works in hard to reach places

GoldGuard™ finish.
Real 14 karat Gold



| Sets | PART# | MODEL# | PCS | LENGTH | CONTENTS | QTY | LIST |
|---------------|-------|---------|-----|--------|--|-----|------|
| Inch | 37938 | BLX10G | 10 | Long | 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4" | 1 | |
| | 37936 | BLX12G | 12 | Long | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16" | 1 | |
| | 37937 | BLX13G | 13 | Long | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| Metric | 38046 | BLX6MG | 6 | Long | 1.5, 2, 2.5, 3, 4, 5mm | 1 | |
| | 38092 | BLX7MG | 7 | Long | 1.5, 2, 2.5, 3, 4, 5, 6mm | 1 | |
| | 38099 | BLX9MG | 9 | Long | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |
| | 38095 | BLX15MG | 15 | Long | 1.27, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10mm | 1 | |



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA | PART# | QTY | LIST EA |
|--------------------|------|------|------|------|----|-------|-----|---------|-------|-----|---------|
| LONG Inch | .050 | 2.8 | 72 | 0.53 | 13 | 27902 | 50 | | 37902 | 10 | |
| | 1/16 | 3.0 | 76 | 0.56 | 14 | 27903 | 50 | | 37903 | 10 | |
| | 5/64 | 3.2 | 81 | 0.61 | 15 | 27904 | 50 | | 37904 | 10 | |
| | 3/32 | 3.4 | 86 | 0.65 | 16 | 27905 | 50 | | 37905 | 10 | |
| | 7/64 | 3.6 | 90 | 0.70 | 18 | 27906 | 50 | | 37906 | 10 | |
| | 1/8 | 3.8 | 95 | 0.75 | 19 | 27907 | 50 | | 37907 | 10 | |
| | 9/64 | 4.0 | 101 | 0.80 | 20 | 27908 | 50 | | 37908 | 10 | |
| | 5/32 | 4.2 | 107 | 0.84 | 21 | 27909 | 50 | | 37909 | 10 | |
| | 3/16 | 4.5 | 114 | 0.94 | 24 | 27910 | 50 | | 37910 | 10 | |
| | 7/32 | 4.9 | 124 | 1.03 | 26 | 27911 | 25 | | 37911 | 5 | |
| | 1/4 | 5.6 | 141 | 1.13 | 29 | 27912 | 25 | | 37912 | 5 | |
| | 5/16 | 6.0 | 152 | 1.25 | 32 | 27913 | 25 | | 37913 | 5 | |
| | 3/8 | 6.8 | 171 | 1.38 | 35 | 27914 | 25 | | 37914 | 5 | |
| | 7/16 | 7.5 | 191 | 1.50 | 38 | - | - | | 37915 | 1 | |
| | 1/2 | 8.3 | 210 | 1.63 | 41 | - | - | | 37916 | 1 | |
| | 9/16 | 9.0 | 229 | 1.75 | 44 | - | - | | 37917 | 1 | |
| | 5/8 | 9.8 | 248 | 1.88 | 48 | - | - | | 37918 | 1 | |
| 3/4 | 11.3 | 286 | 2.13 | 54 | - | - | | 37919 | 1 | | |
| LONG Metric | 1.27 | 2.8 | 72 | 0.53 | 13 | 28049 | 50 | | 38049 | 10 | |
| | 1.5 | 3.0 | 77 | 0.53 | 14 | 28050 | 50 | | 38050 | 10 | |
| | 2.0 | 3.2 | 82 | 0.61 | 16 | 28052 | 50 | | 38052 | 10 | |
| | 2.5 | 3.5 | 88 | 0.69 | 17 | 28054 | 50 | | 38054 | 10 | |
| | 3.0 | 3.9 | 98 | 0.75 | 19 | 28056 | 50 | | 38056 | 10 | |
| | 3.5 | 3.9 | 100 | 0.85 | 21 | 28058 | 50 | | 38058 | 1 | |
| | 4.0 | 4.3 | 110 | 0.87 | 22 | 28060 | 50 | | 38060 | 10 | |
| | 4.5 | 4.5 | 114 | 1.00 | 25 | 28062 | 50 | | 38062 | 1 | |
| | 5.0 | 4.7 | 119 | 1.06 | 27 | 28064 | 50 | | 38064 | 5 | |
| | 5.5 | 4.9 | 124 | 1.14 | 29 | 28066 | 25 | | 38066 | 1 | |
| | 6 | 5.5 | 139 | 1.22 | 31 | 28068 | 25 | | 38068 | 5 | |
| | 7 | 5.5 | 140 | 1.30 | 33 | 28070 | 25 | | 38070 | 1 | |
| | 8 | 6.0 | 152 | 1.38 | 35 | 28072 | 25 | | 38072 | 5 | |
| | 9 | 6.2 | 159 | 1.46 | 37 | 28074 | 25 | | 38074 | 1 | |
| | 10 | 6.7 | 171 | 1.54 | 39 | 28076 | 10 | | 38076 | 5 | |
| | 11 | 7.9 | 200 | 1.63 | 42 | 28078 | 10 | | 38078 | 1 | |
| | 12 | 8.7 | 220 | 1.73 | 44 | 28080 | 10 | | 38080 | 1 | |
| 14 | 10.2 | 260 | 2.15 | 55 | - | - | | 38084 | 1 | | |
| 17 | 11.0 | 280 | 2.42 | 61 | - | - | | 38086 | 1 | | |
| 19 | 11.6 | 295 | 2.70 | 69 | - | - | | 38088 | 1 | | |

Did you know...?
Protanium® Steel tools are up to 20% stronger than competitor tools made from standard grades of steel.

Hex End L-Wrenches

- GoldGuard™ Finish -

- Chamfered tool tips eliminate burrs and help tools seat in screw head
- Sharp corners transfer more torque to the screw and reduce stripping
- Precision machined for ease of use and superior fit

GoldGuard™ finish.
Real 14 karat Gold



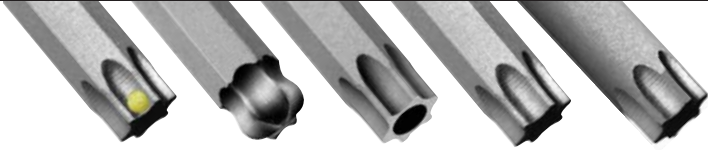
| Sets | PART# | MODEL# | PCS | LENGTH | CONTENTS | QTY | LIST |
|---------------|-------|---------|-----|--------|--|-----|------|
| Inch | 38138 | HLX10G | 10 | Long | 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4" | 1 | |
| | 38136 | HLX12G | 12 | Long | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16" | 1 | |
| | 38137 | HLX13G | 13 | Long | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 38238 | HLX10SG | 10 | Short | 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4" | 1 | |
| | 38236 | HLX12SG | 12 | Short | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16" | 1 | |
| | 38237 | HLX13SG | 13 | Short | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| Metric | 39146 | HLX6MG | 6 | Long | 1.5, 2, 2.5, 3, 4, 5mm | 1 | |
| | 39192 | HLX7MG | 7 | Long | 1.5, 2, 2.5, 3, 4, 5, 6mm | 1 | |
| | 39199 | HLX9MG | 9 | Long | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |
| | 39195 | HLX15MG | 15 | Long | 1.27, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10mm | 1 | |
| | 38246 | HLX6MSG | 6 | Short | 1.5, 2, 2.5, 3, 4, 5mm | 1 | |
| | 38292 | HLX7MSG | 7 | Short | 1.5, 2, 2.5, 3, 4, 5, 6mm | 1 | |
| | 38299 | HLX9MSG | 9 | Short | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |



Singles

| | SIZE | INCH | | MM | | PART# | QTY | LIST | EA | PART# | QTY | LIST | EA | |
|---------------|--------------|------|-----|------|------|-------|-------|------|-------|-------|-----|------|----|--|
| | | INCH | MM | INCH | MM | | | | | | | | | |
| Inch | Long | | | | | | | | | | | | | |
| | | .028 | 2.6 | 66 | 0.22 | 6 | 28100 | 50 | | 38100 | 10 | | | |
| | | .035 | 2.7 | 68 | 0.34 | 9 | 28101 | 50 | | 38101 | 10 | | | |
| | | .050 | 2.8 | 72 | 0.53 | 13 | 28102 | 50 | | 38102 | 10 | | | |
| | | 1/16 | 3.0 | 76 | 0.56 | 14 | 28103 | 50 | | 38103 | 10 | | | |
| | | 5/64 | 3.2 | 81 | 0.61 | 15 | 28104 | 50 | | 38104 | 10 | | | |
| | | 3/32 | 3.4 | 86 | 0.65 | 16 | 28105 | 50 | | 38105 | 10 | | | |
| | | 7/64 | 3.6 | 90 | 0.70 | 18 | 28106 | 50 | | 38106 | 10 | | | |
| | | 1/8 | 3.8 | 95 | 0.75 | 19 | 28107 | 50 | | 38107 | 10 | | | |
| | | 9/64 | 4.0 | 101 | 0.80 | 20 | 28108 | 50 | | 38108 | 10 | | | |
| | | 5/32 | 4.2 | 107 | 0.84 | 21 | 28109 | 50 | | 38109 | 10 | | | |
| | | 3/16 | 4.5 | 114 | 0.94 | 24 | 28110 | 50 | | 38110 | 10 | | | |
| | | 7/32 | 4.9 | 124 | 1.03 | 26 | 28111 | 25 | | 38111 | 5 | | | |
| | | 1/4 | 5.3 | 133 | 1.13 | 29 | 28112 | 25 | | 38112 | 5 | | | |
| | | 5/16 | 6.0 | 152 | 1.25 | 32 | 28113 | 25 | | 38113 | 5 | | | |
| | | 3/8 | 6.8 | 171 | 1.38 | 35 | 28114 | 25 | | 38114 | 5 | | | |
| | | 7/16 | 7.5 | 191 | 1.50 | 38 | - | - | | 38115 | 1 | | | |
| | | 1/2 | 8.3 | 210 | 1.63 | 41 | - | - | | 38116 | 1 | | | |
| | | 9/16 | 9.0 | 229 | 1.75 | 44 | - | - | | 38117 | 1 | | | |
| | 5/8 | 9.8 | 248 | 1.88 | 48 | - | - | | 38118 | 1 | | | | |
| | 3/4 | 11.3 | 286 | 2.13 | 54 | - | - | | 38119 | 1 | | | | |
| Metric | Long | | | | | | | | | | | | | |
| | | .71 | 2.6 | 66 | 0.22 | 6 | 29147 | 50 | | 39147 | 10 | | | |
| | | .89 | 2.7 | 68 | 0.34 | 9 | 29148 | 50 | | 39148 | 10 | | | |
| | | 1.27 | 2.8 | 72 | 0.53 | 13 | 29149 | 50 | | 39149 | 10 | | | |
| | | 1.5 | 3.0 | 77 | 0.53 | 14 | 29150 | 50 | | 39150 | 10 | | | |
| | | 2.0 | 3.2 | 82 | 0.61 | 16 | 29152 | 50 | | 39152 | 10 | | | |
| | | 2.5 | 3.5 | 88 | 0.69 | 17 | 29154 | 50 | | 39154 | 10 | | | |
| | | 3.0 | 3.9 | 98 | 0.75 | 19 | 29156 | 50 | | 39156 | 10 | | | |
| | | 3.5 | 3.9 | 100 | 0.85 | 21 | 29158 | 50 | | 39158 | 1 | | | |
| | | 4.0 | 4.3 | 110 | 0.87 | 22 | 29160 | 50 | | 39160 | 10 | | | |
| | | 4.5 | 4.5 | 114 | 1.00 | 25 | 29162 | 50 | | 39162 | 1 | | | |
| | | 5.0 | 4.7 | 119 | 1.06 | 27 | 29164 | 50 | | 39164 | 5 | | | |
| | | 5.5 | 4.9 | 124 | 1.14 | 29 | 29166 | 25 | | 39166 | 1 | | | |
| | | 6 | 5.5 | 139 | 1.22 | 31 | 29168 | 25 | | 39168 | 5 | | | |
| | | 7 | 5.5 | 140 | 1.30 | 33 | 29170 | 25 | | 39170 | 1 | | | |
| | | 8 | 6.0 | 152 | 1.38 | 35 | 29172 | 25 | | 39172 | 5 | | | |
| | | 9 | 6.2 | 159 | 1.46 | 37 | 29174 | 25 | | 39174 | 1 | | | |
| | | 10 | 6.7 | 171 | 1.54 | 39 | 29176 | 10 | | 39176 | 5 | | | |
| | | 11 | 7.9 | 200 | 1.63 | 42 | 29178 | 10 | | 39178 | 1 | | | |
| | 12 | 8.7 | 220 | 1.73 | 44 | 29180 | 10 | | 39180 | 1 | | | | |
| | 14 | 10.2 | 260 | 2.15 | 55 | - | - | | 39184 | 1 | | | | |
| | 17 | 11.0 | 280 | 2.42 | 61 | - | - | | 39186 | 1 | | | | |
| | 19 | 11.6 | 295 | 2.70 | 69 | - | - | | 39188 | 1 | | | | |
| Metric | Short | | | | | | | | | | | | | |
| | | .71 | 1.2 | 31 | 0.22 | 6 | 28247 | 50 | | 38247 | 10 | | | |
| | | .89 | 1.2 | 31 | 0.34 | 9 | 28248 | 50 | | 38248 | 10 | | | |
| | | 1.27 | 1.6 | 42 | 0.53 | 13 | 28249 | 50 | | 38249 | 10 | | | |
| | | 1.5 | 1.7 | 44 | 0.53 | 14 | 28250 | 50 | | 38250 | 10 | | | |
| | | 2.0 | 1.9 | 49 | 0.61 | 16 | 28252 | 50 | | 38252 | 10 | | | |
| | | 2.5 | 2.1 | 54 | 0.69 | 17 | 28254 | 50 | | 38254 | 10 | | | |
| | | 3.0 | 2.4 | 61 | 0.75 | 19 | 28256 | 50 | | 38256 | 10 | | | |
| | | 3.5 | 2.6 | 65 | 0.85 | 21 | 28258 | 50 | | 38258 | 1 | | | |
| | | 4.0 | 2.7 | 68 | 0.87 | 22 | 28260 | 50 | | 38260 | 10 | | | |
| | | 4.5 | 2.9 | 73 | 1.00 | 25 | 28262 | 50 | | 38262 | 1 | | | |
| | | 5.0 | 3.1 | 78 | 1.06 | 27 | 28264 | 50 | | 38264 | 5 | | | |
| | | 5.5 | 3.3 | 83 | 1.14 | 29 | 28266 | 25 | | 38266 | 1 | | | |
| | | 6 | 3.5 | 88 | 1.22 | 31 | 28268 | 25 | | 38268 | 5 | | | |
| | | 7 | 3.7 | 93 | 1.30 | 33 | 28270 | 25 | | 38270 | 1 | | | |
| | | 8 | 3.9 | 98 | 1.38 | 35 | 28272 | 25 | | 38272 | 5 | | | |
| | | 9 | 4.0 | 102 | 1.46 | 37 | 28274 | 25 | | 38274 | 1 | | | |
| | | 10 | 4.3 | 109 | 1.54 | 39 | 28276 | 10 | | 38276 | 5 | | | |
| | | 11 | 4.5 | 115 | 1.63 | 42 | 28278 | 10 | | 38278 | 1 | | | |
| | 12 | 4.8 | 122 | 1.73 | 44 | 28280 | 10 | | 38280 | 1 | | | | |
| | 14 | 5.4 | 136 | 2.15 | 55 | - | - | | 38284 | 1 | | | | |
| | 17 | 6.1 | 156 | 2.42 | 61 | - | - | | 38286 | 1 | | | | |
| | 19 | 6.9 | 175 | 2.72 | 69 | - | - | | 38288 | 1 | | | | |

Star Tip Tools



- Fits TORX® brand screws
- Fits in both Star and Star Plus fasteners
- A full range of tip sizes from T5 to T100
- The only Star Tip tools made with Protanium® steel



Color Coded

 Star



High Torque Steel:

Up to 20% stronger, with more torque and twice the wear resistance of standard grades of steel.

FINISH OPTIONS:

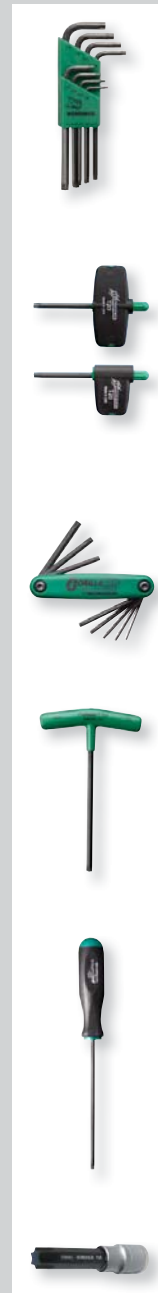


Corrosion-resistant finish:

Environmentally safe, provides better tool grip, resists solvents and is 5 times more corrosion resistant than competitor finishes.

Bondhus Star Tip Tools

Bondhus Star Tip tools are made to the same high standards as every tool we make. Our Star Tip tools are precision machined, available in several handle and tip types, and are the only Star Tip tools made from Protanium® High Torque Steel. Bondhus Star Tip and Star Plus Tip tools fit TORX® brand screws.



L-Wrenches 21-22

Wing and Flag Tools 23

Fold Ups 26-27

T-Handles 33

Screwdrivers 38-39

Socket Bits 45-46

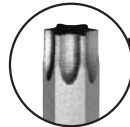
*TORX® is a registered trademark of Acument Intellectual Properties, LLC

Star Tip L-Wrenches

- ProGuard™ Finish -

- Fits all Star and TORX®* brand screws
- Chamfered tool tips eliminate burrs and help tools seat in screw head
- Sharp corners transfer more torque to the screw and reduce stripping
- Precision machined for ease of use and superior fit

ProGuard™ finish delivers superior corrosion protection



Star Tips

L-Wrenches

Tools are in color coded cases for easy recognition

Green=Star

| Sets | PART# | MODEL# | PCS | LENGTH | CONTENTS | QTY | LIST |
|-------------|-------|--------|-----|--------|---|-----|------|
| Star | 31832 | TLX8S | 8 | Long | T6, T7, T8, T9, T10, T15, T20, T25 | 1 | |
| | 31834 | TLX8 | 8 | Long | T9, T10, T15, T20, T25, T27, T30, T40 | 1 | |
| | 31732 | TLXS8S | 8 | Short | T6, T7, T8, T9, T10, T15, T20, T25 | 1 | |
| | 31734 | TLXS8 | 8 | Short | T9, T10, T15, T20, T25, T27, T30, T40 | 1 | |
| | 12699 | TLX9S | 9 | Short | T10, T15, T20, T25, T27, T30, T40, T45, T50 (in pouch) | 1 | |
| | 31737 | TLX13S | 13 | Short | T7, T8, T9, T10, T15, T20, T25, T27, T30, T40, T45, T50, T55 (in pouch) | 1 | |



| Singles | | | | | SIZE INCH | MM | INCH | MM | PART# | QTY | LIST | EA | PART# | QTY | LIST | EA | | |
|-------------|-------------|--------------|-----|------|-----------|-------|-------|-------|-------|-----|------|----|-------|-----|------|----|--|--|
| Star | Long | | | | | | | | | | | | | | | | | |
| | T6 | 2.1 | 55 | 0.65 | 16 | 32806 | 25 | 31806 | 5 | | | | | | | | | |
| | T7 | 2.4 | 61 | 0.65 | 16 | 32807 | 25 | 31807 | 5 | | | | | | | | | |
| | T8 | 2.6 | 67 | 0.65 | 16 | 32808 | 25 | 31808 | 5 | | | | | | | | | |
| | T9 | 2.9 | 74 | 0.65 | 16 | 32809 | 25 | 31809 | 5 | | | | | | | | | |
| | T10 | 3.2 | 80 | 0.73 | 19 | 32810 | 25 | 31810 | 5 | | | | | | | | | |
| | T15 | 3.3 | 84 | 0.78 | 20 | 32815 | 25 | 31815 | 5 | | | | | | | | | |
| | T20 | 3.6 | 91 | 0.78 | 20 | 32820 | 25 | 31820 | 5 | | | | | | | | | |
| | T25 | 3.8 | 98 | 0.88 | 22 | 32825 | 25 | 31825 | 5 | | | | | | | | | |
| | T27 | 4.2 | 106 | 0.95 | 24 | 32827 | 25 | 31827 | 5 | | | | | | | | | |
| | T30 | 4.6 | 116 | 1.03 | 26 | 32830 | 25 | 31830 | 5 | | | | | | | | | |
| | T40 | 4.9 | 125 | 1.11 | 28 | 32840 | 25 | 31840 | 5 | | | | | | | | | |
| | T45 | 5.4 | 138 | 1.20 | 30 | 32845 | 10 | 31845 | 2 | | | | | | | | | |
| | T50 | 6.2 | 156 | 1.25 | 32 | 32850 | 10 | 31850 | 2 | | | | | | | | | |
| | T55 | 6.7 | 171 | 1.36 | 34 | 32855 | 10 | 31855 | 2 | | | | | | | | | |
| | T60 | 7.2 | 182 | 1.75 | 44 | 32860 | 10 | 31860 | 2 | | | | | | | | | |
| | | Short | | | | | | | | | | | | | | | | |
| | | T5 | 0.9 | 23 | 0.65 | 16 | 32705 | 25 | 31705 | 5 | | | | | | | | |
| | | T6 | 1.1 | 29 | 0.65 | 16 | 32706 | 25 | 31706 | 5 | | | | | | | | |
| | T7 | 1.4 | 35 | 0.65 | 16 | 32707 | 25 | 31707 | 5 | | | | | | | | | |
| | T8 | 1.6 | 42 | 0.65 | 16 | 32708 | 25 | 31708 | 5 | | | | | | | | | |
| | T9 | 1.9 | 48 | 0.65 | 16 | 32709 | 25 | 31709 | 5 | | | | | | | | | |
| | T10 | 2.2 | 55 | 0.73 | 19 | 32710 | 25 | 31710 | 5 | | | | | | | | | |
| | T15 | 2.3 | 59 | 0.78 | 20 | 32715 | 25 | 31715 | 5 | | | | | | | | | |
| | T20 | 2.6 | 66 | 0.78 | 20 | 32720 | 25 | 31720 | 5 | | | | | | | | | |
| | T25 | 2.8 | 72 | 0.88 | 22 | 32725 | 25 | 31725 | 5 | | | | | | | | | |
| | T27 | 3.2 | 81 | 0.95 | 24 | 32727 | 25 | 31727 | 5 | | | | | | | | | |
| | T30 | 3.6 | 90 | 1.03 | 26 | 32730 | 25 | 31730 | 5 | | | | | | | | | |
| | T40 | 3.9 | 99 | 1.11 | 28 | 32740 | 25 | 31740 | 5 | | | | | | | | | |
| | T45 | 3.9 | 98 | 1.20 | 30 | 32745 | 10 | 31745 | 2 | | | | | | | | | |
| | T50 | 3.8 | 97 | 1.25 | 32 | 32750 | 10 | 31750 | 2 | | | | | | | | | |
| | T55 | 3.8 | 95 | 1.36 | 34 | 32755 | 10 | 31755 | 2 | | | | | | | | | |
| | T60 | 3.7 | 93 | 1.75 | 44 | 32760 | 10 | 31760 | 2 | | | | | | | | | |

ProHold® Star Tip L-Wrenches

- ProGuard™ Finish -

- Fits all Star and TORX®* brand screws
- Holds screw tight on the tool EVERY TIME
- Button is non-magnetic
- Precision machined for ease of use and superior fit

ProGuard™ finish delivers superior corrosion protection

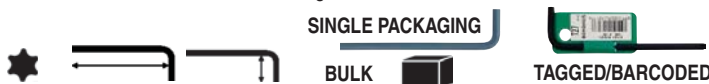


The ProHold® Star Tip holds screw securely

Tools are in color coded cases for easy recognition

Green=Star

| Set | PART# | MODEL# | PCS | LENGTH | CONTENTS | QTY | LIST |
|-------------|-------|--------|-----|--------|---------------------------------------|-----|------|
| Star | 71834 | PHTX8 | 8 | Long | T9, T10, T15, T20, T25, T27, T30, T40 | 1 | |



| Singles | | | | | SIZE INCH | MM | INCH | MM | PART# | QTY | LIST | EA | PART# | QTY | LIST | EA |
|------------------|-----|-----|-----|------|-----------|-------|------|-------|-------|-----|------|----|-------|-----|------|----|
| LONG Star | T9 | 2.9 | 74 | 0.65 | 16 | 72809 | 25 | 71809 | 5 | | | | | | | |
| | T10 | 3.2 | 80 | 0.73 | 19 | 72810 | 25 | 71810 | 5 | | | | | | | |
| | T15 | 3.3 | 84 | 0.78 | 20 | 72815 | 25 | 71815 | 5 | | | | | | | |
| | T20 | 3.6 | 91 | 0.78 | 20 | 72820 | 25 | 71820 | 5 | | | | | | | |
| | T25 | 3.8 | 98 | 0.88 | 22 | 72825 | 25 | 71825 | 5 | | | | | | | |
| | T27 | 4.2 | 106 | 0.95 | 24 | 72827 | 25 | 71827 | 5 | | | | | | | |
| | T30 | 4.6 | 116 | 1.03 | 26 | 72830 | 25 | 71830 | 5 | | | | | | | |
| | T40 | 4.9 | 125 | 1.11 | 28 | 72840 | 25 | 71840 | 5 | | | | | | | |
| | T45 | 5.4 | 138 | 1.20 | 30 | 72845 | 10 | 71845 | 2 | | | | | | | |
| | T50 | 6.2 | 156 | 1.25 | 32 | 72850 | 10 | 71850 | 2 | | | | | | | |
| | T55 | 6.7 | 171 | 1.36 | 34 | 72855 | 10 | 71855 | 2 | | | | | | | |
| | T60 | 7.2 | 182 | 1.75 | 44 | 72860 | 10 | 71860 | 2 | | | | | | | |

Did you know...?
Bondhus Star Tip tools fit Star, Star Plus and TORX®* brand screws.

*TORX® is a registered trademark of Acument Intellectual Properties, LLC

BallStar™ Tip L-Wrenches

- ProGuard™ Finish -

- Fits all Star and TORX® brand screws
- Ball End inserts into screws at a 20° angle
- Ball End saves time by quickly funneling tool into screw
- Superior Ball End strength and working angle
- Works in hard to reach places



| Sets | PART# | MODEL# | PCS | LENGTH | CONTENTS | QTY | LIST |
|------|-------|--------|-----|--------|---------------------------------------|-----|------|
| Star | 11346 | LTX6 | 6 | Long | T6, T7, T8, T9, T10, T15 | 1 | |
| | 11331 | LTX8S | 8 | Long | T6, T7, T8, T9, T10, T15, T20, T25 | 1 | |
| | 11332 | LTX8 | 8 | Long | T9, T10, T15, T20, T25, T27, T30, T40 | 1 | |



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA |
|-----------|------|------|------|------|-------|-------|-----|---------|
| LONG Star | T6 | 2.1 | 55 | 0.65 | 16 | 11706 | 5 | |
| | T7 | 2.4 | 61 | 0.65 | 16 | 11707 | 5 | |
| | T8 | 2.6 | 67 | 0.65 | 16 | 11708 | 5 | |
| | T9 | 2.9 | 74 | 0.65 | 16 | 11709 | 5 | |
| | T10 | 3.2 | 80 | 0.73 | 19 | 11710 | 5 | |
| | T15 | 3.3 | 84 | 0.78 | 20 | 11715 | 5 | |
| | T20 | 3.6 | 91 | 0.78 | 20 | 11720 | 5 | |
| | T25 | 3.8 | 98 | 0.88 | 22 | 11725 | 5 | |
| | T27 | 4.2 | 106 | 0.95 | 24 | 11727 | 5 | |
| | T30 | 4.6 | 116 | 1.03 | 26 | 11730 | 5 | |
| | T40 | 4.9 | 125 | 1.11 | 28 | 11740 | 5 | |
| | T45 | 5.4 | 138 | 1.20 | 30 | 11745 | 1 | |
| T50 | 6.2 | 156 | 1.25 | 32 | 11750 | 1 | | |
| T55 | 6.7 | 171 | 1.36 | 34 | 11755 | 1 | | |

Did you know...?

BallStar™ tools work at a 20° angle; screws can be turned continuously without constantly taking the tool out of the screw, repositioning it and reinserting it, even at angles up to 20°.

Tamper Resistant Star Tip L-Wrenches

- ProGuard™ Finish -

- Fits all Star and TORX® brand tamper resistant screws
- Chamfered tool tips eliminate burrs and help tools seat in screw head
- Sharp corners transfer more torque to the screw and reduce stripping
- Precision machined for ease of use and superior fit



| Sets | PART# | MODEL# | PCS | LENGTH | CONTENTS | QTY | LIST |
|------|-------|---------|-----|--------|---|-----|------|
| Star | 32432 | TR-TL8S | 8 | Long | TR6, TR7, TR8, TR9, TR10, TR15, TR20, TR25 | 1 | |
| | 32434 | TR-TL8 | 8 | Long | TR9, TR10, TR15, TR20, TR25, TR27, TR30, TR40 | 1 | |



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA | PART# | QTY | LIST EA |
|-----------|------|------|-----|------|----|-------|-----|---------|-------|-----|---------|
| LONG Star | TR6 | 2.1 | 55 | 0.65 | 16 | 33406 | 25 | | 32406 | 2 | |
| | TR7 | 2.4 | 61 | 0.65 | 16 | 33407 | 25 | | 32407 | 2 | |
| | TR8 | 2.6 | 67 | 0.65 | 16 | 33408 | 25 | | 32408 | 2 | |
| | TR9 | 2.9 | 74 | 0.65 | 16 | 33409 | 25 | | 32409 | 2 | |
| | TR10 | 3.2 | 80 | 0.73 | 19 | 33410 | 25 | | 32410 | 2 | |
| | TR15 | 3.3 | 84 | 0.78 | 20 | 33415 | 25 | | 32415 | 2 | |
| | TR20 | 3.6 | 91 | 0.78 | 20 | 33420 | 25 | | 32420 | 2 | |
| | TR25 | 3.8 | 98 | 0.88 | 22 | 33425 | 25 | | 32425 | 2 | |
| | TR27 | 4.2 | 106 | 0.95 | 24 | 33427 | 25 | | 32427 | 2 | |
| | TR30 | 4.6 | 116 | 1.03 | 26 | 33430 | 25 | | 32430 | 2 | |
| | TR40 | 4.9 | 125 | 1.11 | 28 | 33440 | 25 | | 32440 | 2 | |

Did you know...?

ProGuard® protection is a permanent solution that does not wipe off like common oil and black oxide finishes; tools remain in good condition with up to 5 times the resistance to rust and corrosion.

*TORX® is a registered trademark of Acument Intellectual Properties, LLC

Star Tip Wing Tools

- ProGuard™ Finish -

- Fits all Star, Star Plus, and TORX® brand screws
- ComfortGrip Handles – soft rubber outer coating for maximum comfort and grip
- Chamfered tool tips eliminate burrs and help tools seat in screw head

Wing and Flag Tools

ProGuard™ finish delivers superior corrosion protection



33945

| Sets | PART# | MODEL# | PCS | TIP | CONTENTS | QTY | LIST |
|------|-------|--------|-----|-----------|--------------------------------------|-----|------|
| Star | 34745 | TWX7 | 7 | Star | T6, T7, T8, T9, T10, T15, T20 | 1 | |
| | 33945 | TPWX7 | 7 | Star Plus | TP6, TP7, TP8, TP9, TP10, TP15, TP20 | 1 | |



| Singles | SIZE | INCH | MM | PART# | QTY | LIST EA |
|---------|------|------|----|-------|-----|---------|
| Star | T6 | 1.5 | 39 | 34706 | 2 | |
| | T7 | 1.5 | 39 | 34707 | 2 | |
| | T8 | 1.5 | 39 | 34708 | 2 | |
| | T9 | 1.5 | 39 | 34709 | 2 | |
| | T10 | 1.5 | 39 | 34710 | 2 | |
| | T15 | 1.5 | 39 | 34715 | 2 | |
| | T20 | 1.5 | 39 | 34720 | 2 | |

| Singles | SIZE | INCH | MM | PART# | QTY | LIST EA |
|-----------|------|------|----|-------|-----|---------|
| Star Plus | TP6 | 2.0 | 52 | 33906 | 2 | |
| | TP7 | 2.0 | 52 | 33907 | 2 | |
| | TP8 | 2.0 | 52 | 33908 | 2 | |
| | TP9 | 2.0 | 52 | 33909 | 2 | |
| | TP10 | 2.0 | 52 | 33910 | 2 | |
| | TP15 | 2.0 | 52 | 33915 | 2 | |
| | TP20 | 2.0 | 52 | 33920 | 2 | |

Star Tip Flag Tools

- ProGuard™ Finish -

- Fits all Star, Star Plus, and TORX® brand screws
- ComfortGrip Handles – soft rubber outer coating for maximum comfort and grip
- Chamfered tool tips eliminate burrs and help tools seat in screw head

ProGuard™ finish delivers superior corrosion protection



34445

| Sets | PART# | MODEL# | PCS | TIP | CONTENTS | QTY | LIST |
|------|-------|--------|-----|-----------|--------------------------------------|-----|------|
| Star | 34445 | TFX7 | 7 | Star | T6, T7, T8, T9, T10, T15, T20 | 1 | |
| | 35045 | TPFX7 | 7 | Star Plus | TP6, TP7, TP8, TP9, TP10, TP15, TP20 | 1 | |



| Singles | SIZE | INCH | MM | PART# | QTY | LIST EA |
|---------|------|------|-------|-------|-----|---------|
| Star | T5 | 1.5 | 39 | 34405 | 2 | |
| | T6 | 1.5 | 39 | 34406 | 2 | |
| | T7 | 1.5 | 39 | 34407 | 2 | |
| | T8 | 1.5 | 39 | 34408 | 2 | |
| | T9 | 1.5 | 39 | 34409 | 2 | |
| | T10 | 1.5 | 39 | 34410 | 2 | |
| | T15 | 1.5 | 39 | 34415 | 2 | |
| T20 | 1.5 | 39 | 34420 | 2 | | |

| Singles | SIZE | INCH | MM | PART# | QTY | LIST EA |
|-----------|------|------|-------|-------|-----|---------|
| Star Plus | - | - | - | - | - | - |
| | TP6 | 2.0 | 52 | 35006 | 2 | |
| | TP7 | 2.0 | 52 | 35007 | 2 | |
| | TP8 | 2.0 | 52 | 35008 | 2 | |
| | TP9 | 2.0 | 52 | 35009 | 2 | |
| | TP10 | 2.0 | 52 | 35010 | 2 | |
| | TP15 | 2.0 | 52 | 35015 | 2 | |
| TP20 | 2.0 | 52 | 35020 | 2 | | |

*TORX® is a registered trademark of Acument Intellectual Properties, LLC



All Bondhus® tools are made with Protanium® High Torque Steel.

Fold Ups



- Patented handle design makes every job faster and easier
- Durable GorillaGrip® handle is stronger than steel handles
- Tool user can adjust tool tension

Color Coded

- Inch
- Metric
- Star
- Inch/Metric
- Motorcycle
- Utility



High Torque Steel:

Up to 20% stronger, with more torque and twice the wear resistance of standard grades of steel.

FINISH OPTIONS:



Corrosion-resistant finish:

Environmentally safe, provides better tool grip, resists solvents and is 5 times more corrosion resistant than competitor finishes.



Next generation chrome finish:

Traditional plated tool look with superior protection and durability.



Real 14 karat gold finish:

Superior protection and durability over traditional chrome and the look and shine of real gold.

Designed with the Tool User in mind

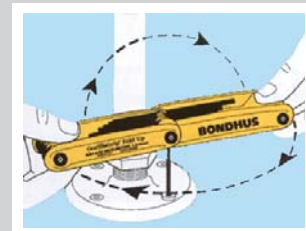
A Bondhus Fold Up is a tool for life. When designing the GorillaGrip® Fold Up, Bondhus engineers eliminated the problems of the average folding tool. GorillaGrip® Fold Up tools are stronger, more comfortable and easier to use.



Patented Flutes allow for easy selection of one tool at a time.



Blades are accessed from both the top and bottom, eliminating the constant 'unstacking' of blades.



Turn & Flip Feature eliminates constant removal and repositioning in screw head when working against obstructions.



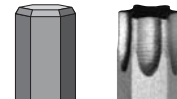
90° stop converts the tool into a non-stop, time saving, speed wrench.

GorillaGrip® Fold Up Multi Packs

- ProGuard™ Finish -

- Assembled from our most popular Fold Up sets
- Multiple Fold Up sets per package
- Tip selections include Hex End and Star Tip

| | | |
|------|--------|------|
| Inch | Metric | Star |
| | | |
| | | |
| | | |



| PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|-------|--------|-----|--|-----|------|
| 12522 | HF16 | 16 | 12589 (5/64-1/4") + 12587 (2-8mm) | 1 | |
| 12544 | HF15 | 15 | 12587 (2-8mm) + 12634 (T9-T40) | 1 | |
| 12533 | HF24 | 24 | 12589 (5/64-1/4") + 12587 (2-8mm) + 12634 (T9-T40) | 1 | |

12522

Hex End GorillaGrip® Fold Ups

- ProGuard™ Finish -

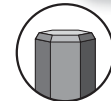
- Chamfered tool tips eliminate burrs and help tools seat in screws
- World's strongest handle
- Speed-Wrench feature
- Tools open from both the top and bottom
- Molded-in 90° stop
- Patented spacers between tools



ProGuard™ finish delivers superior corrosion protection

| |
|--------------------|
| Yellow=Inch |
| Red=Metric |
| Orange=Inch/Metric |

Hex End Tips



| Sets | PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|-------------|-------|--------|-----|--|-----|------|
| Inch | 12591 | HF9S | 9 | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16" | 1 | |
| | 12589 | HF9 | 9 | 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4" | 1 | |
| | 12585 | HF5 | 5 | 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| Metric | 12592 | HF7MS | 7 | 1.5, 2, 2.5, 3, 4, 5, 6mm | 1 | |
| | 12587 | HF7M | 7 | 2, 2.5, 3, 4, 5, 6, 8mm | 1 | |
| | 12595 | HF6M | 6 | 3, 4, 5, 6, 8, 10mm | 1 | |
| Inch/Metric | 12550 | HF12 | 12 | 5/64, 3/32, 7/64, 1/8, 9/64, 5/32" 1.5, 2, 2.5, 3, 4, 5mm | 1 | |

Ball End GorillaGrip® Fold Ups

- ProGuard™ Finish -

- Ball End inserts into a screw at a 25° angle
- World's strongest handle
- Speed-Wrench feature
- Tools open from both the top and bottom
- Molded-in 90° stop
- Patented spacers between tools



ProGuard™ finish delivers superior corrosion protection

| |
|-------------|
| Yellow=Inch |
| Red=Metric |

Ball End Tips



| Sets | PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|--------|-------|--------|-----|-----------------------------|-----|------|
| Inch | 12894 | BF5 | 5 | 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| Metric | 12897 | BF5M | 5 | 5, 6, 7, 8, 10mm | 1 | |

Star Tip GorillaGrip® Fold Ups

- ProGuard™ Finish -

- Fits all Star and TORX®* brand screws
- World's strongest handle
- Speed-Wrench feature
- Tools open from both the top and bottom
- Molded-in 90° stop
- Patented spacers between tools



| Sets | PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|------|-------|--------|-----|---------------------------------------|-----|------|
| Star | 12632 | TF8S | 8 | T6, T7, T8, T9, T10, T15, T20, T25 | 1 | |
| | 12634 | TF8 | 8 | T9, T10, T15, T20, T25, T27, T30, T40 | 1 | |

Tamper Resistant GorillaGrip® Star Tip Fold Ups

- ProGuard™ Finish -

- Fits all Star and TORX®* brand tamper resistant screws
- World's strongest handle
- Speed-Wrench feature
- Tools open from both the top and bottom
- Molded-in 90° stop
- Patented spacers between tools



| Sets | PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|------|-------|---------|-----|---|-----|------|
| Star | 12636 | TR-TF7S | 7 | TR7, TR8, TR9, TR10, TR15, TR20, TR25 | 1 | |
| | 12638 | TR-TF8 | 8 | TR9, TR10, TR15, TR20, TR25, TR27, TR30, TR40 | 1 | |

Utility GorillaGrip® Fold Ups

- ProGuard™ Finish -

- Wide selection of tool tips
- World's strongest handle
- Speed-Wrench feature
- Tools open from both the top and bottom
- Molded-in 90° stop
- Patented spacers between tools



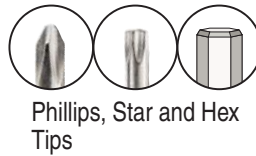
| Sets | PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|---------|-------|--------|-----|---|-----|------|
| Utility | 12540 | HFU5 | 5 | PH #1; Slotted 3/16"; Hex 4, 5, 6mm | 1 | |
| | 12543 | RFU5 | 5 | PH #1, #2; Slotted 3/16"; Square #1, #2 | 1 | |
| | 12545 | AFU5 | 5 | PH #1, #2; Slotted 1/8, 3/16"; Awl | 1 | |
| | 12547 | FU5 | 5 | PH #1, #2; Slotted 1/8, 3/16, 1/4" | 1 | |

*TORX® is a registered trademark of Acument Intellectual Properties, LLC

Hawg Buddy GorillaGrip® Motorcycle Fold Up

- BriteGuard™ Finish -

- Designed for making all common adjustments to Harley Davidson® motorcycles
- World's strongest handle
- Speed-Wrench feature
- Tools open from both the top and bottom
- Molded-in 90° stop



*Harley Davidson® is a Registered Trademark of Harley Davidson Motorcycles

| Set | PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|-----|-------|--------|-----|--|-----|------|
| | 12531 | FUHB7 | 7 | PH #2; Star T27, T40; Hex 5/32, 3/16, 1/4, 5/16" | 1 | |

Cycle Buddy GorillaGrip® Motorcycle Fold Up

- GoldGuard™ Finish -

- Designed for making all common adjustments to Japanese/European motorcycles
- World's strongest handle
- Speed-Wrench feature
- Tools open from both the top and bottom
- Molded-in 90° stop

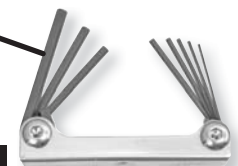


| Set | PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|-----|-------|--------|-----|----------------------------|-----|------|
| | 12594 | FUCB6 | 6 | PH #2; Hex 3, 4, 5, 6, 8mm | 1 | |

Metal Fold Ups

- ProGuard™ Finish -

- Chamfered tool tips eliminate burrs and help tools seat in screw head
- Sharp corners transfer torque to screw more efficiently and reduce stripping
- Precision machined for ease of use and superior fit






| Sets | PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|---------------|-------|--------|-----|--|-----|------|
| Inch | 14590 | MHF8 | 8 | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32" | 1 | |
| | 14591 | MHF9S | 9 | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16" | 1 | |
| | 14589 | MHF9 | 9 | 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4" | 1 | |
| | 14585 | MHF5 | 5 | 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| Metric | 14592 | MHF7MS | 7 | 1.5, 2, 2.5, 3, 4, 5, 6mm | 1 | |
| | 14587 | MHF7M | 7 | 2, 2.5, 3, 4, 5, 6, 8mm | 1 | |
| | 14595 | MHF6M | 6 | 3, 4, 5, 6, 8, 10mm | 1 | |
| Star | 14532 | MTF8S | 8 | T6, T7, T8, T9, T10, T15, T20, T25 | 1 | |
| | 14534 | MTF8 | 8 | T9, T10, T15, T20, T25, T27, T30, T40 | 1 | |

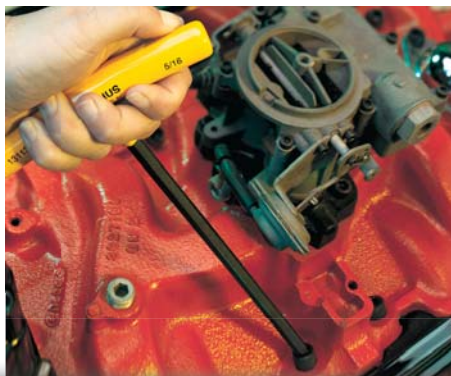
T-Handles



- Cushioned, curved handle increases comfort and reduces fatigue
- Handle is welded directly to blade for a tool that will last a lifetime
- Handles are designed to match torque capacity of blade

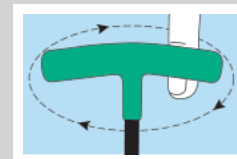
Color Coded

-  Inch
-  Metric
-  Star



A Better T-Handle

Bondhus T-Handles are built to be comfortable, strong and durable. The welded handle and blade joint guarantees a permanent connection. The form-fitting handle fits the curve of the user's hand.



The Bondhus solid steel handle is heavy duty and generates a flywheel effect for super fast insertion and removal of screws.



The Bondhus T-Handle is curved to match the shape of the hand. This design is ergonomically superior to old fashioned straight handles.



Handle and blade are securely welded and will never loosen or slip.



Bondhus is the only company to engineer our handles to match the blade's torque capacity. Tool user's can always feel confident in their tool's strength.



High Torque Steel:

Up to 20% stronger, with more torque and twice the wear resistance of standard grades of steel.

FINISH OPTIONS:



Corrosion-resistant finish:

Environmentally safe, provides better tool grip, resists solvents and is 5 times more corrosion resistant than competitor finishes.

Ball End T-Handles - ProGuard™ Finish -

- Solid steel handles
- Welded handle/blade connection
- Ergonomic handle design
- Flywheel effect saves time
- Smooth, non-porous handle coating
- Handle coating extends along blade

ProGuard™ finish delivers superior corrosion protection



Handles are color coded for easy recognition
Yellow=Inch
Red=Metric

| Sets | PART# | MODEL# | PCS | LENGTH | W/STAND | CONTENTS | QTY | LIST |
|---------------|--------|----------|-----|-----------|---------|--|-----|------|
| Inch | 13146 | BTX60 | 6 | Graduated | | 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 13190* | BTX10/S | 10 | Graduated | ✓ | 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 13138* | BTX10 | 10 | Graduated | | 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| Metric | 13148 | BTX50M | 5 | Graduated | | 4, 5, 6, 8, 10mm | 1 | |
| | 13189* | BTX80M/S | 8 | Graduated | ✓ | 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |
| | 13187* | BTX80M | 8 | Graduated | | 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |

*The 3/32, 7/64, 1/8, and 9/64 inch blades, and the 2, 2.5 and 3mm blades are straight hex blades to prevent breakage.
 ✓ Comes with stand



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA | PART# | QTY | LIST EA |
|---------------|------|------|-----|------|-------|------------|-----|---------|------------|-----|---------|
| Inch | 3/32 | 6.1 | 154 | 3.0 | 76 | 13205 Hex* | 2 | | 53205 Hex* | 2 | |
| | 7/64 | 6.8 | 173 | 3.0 | 76 | 13206 Hex* | 2 | | 53206 Hex* | 2 | |
| | 1/8 | 7.6 | 192 | 3.0 | 76 | 13207 Hex* | 2 | | 53207 Hex* | 2 | |
| | 9/64 | 8.3 | 211 | 3.0 | 76 | 13208 Hex* | 2 | | 53208 Hex* | 2 | |
| | 5/32 | 9.1 | 231 | 3.0 | 76 | 13109 | 2 | | 53109 | 2 | |
| | 3/16 | 9.8 | 250 | 4.0 | 102 | 13110 | 2 | | 53110 | 2 | |
| | 7/32 | 10.3 | 262 | 4.0 | 102 | 13111 | 2 | | 53111 | 2 | |
| | 1/4 | 10.8 | 275 | 4.0 | 102 | 13112 | 2 | | 53112 | 2 | |
| Metric | 5/16 | 11.4 | 289 | 5.0 | 127 | 13113 | 2 | | 53113 | 2 | |
| | 3/8 | 11.8 | 300 | 5.0 | 127 | 13114 | 2 | | 53114 | 2 | |
| | 2.0 | 5.9 | 150 | 3.0 | 76 | 13252 Hex* | 2 | | 53252 Hex* | 2 | |
| | 2.5 | 6.8 | 172 | 3.0 | 76 | 13254 Hex* | 2 | | 53254 Hex* | 2 | |
| | 3.0 | 7.7 | 196 | 3.0 | 76 | 13256 Hex* | 2 | | 53256 Hex* | 2 | |
| | 4.0 | 8.7 | 220 | 3.0 | 76 | 13160 | 2 | | 53160 | 2 | |
| | 5.0 | 9.7 | 246 | 4.0 | 102 | 13164 | 2 | | 53164 | 2 | |
| | 6 | 10.5 | 266 | 4.0 | 102 | 13168 | 2 | | 53168 | 2 | |
| 8 | 11.2 | 285 | 5.0 | 127 | 13172 | 2 | | 53172 | 2 | | |
| 10 | 12.1 | 307 | 5.0 | 127 | 13176 | 2 | | 53176 | 2 | | |



*The 3/32, 7/64, 1/8, and 9/64 inch blades, and the 2, 2.5 and 3mm blades are straight hex blades to prevent breakage.

Molded T-Handle Stands

- Extremely durable design
- Can be used free standing or wall mounted
- Sizes are clearly marked on stand
- Available in Inch, Metric, or Star configurations

| PART# | DESCRIPTION | QTY | LIST EA |
|-------|--------------|-----|---------|
| 17936 | Inch Stand | 1 | |
| 17935 | Metric Stand | 1 | |
| 17934 | Star Stand | 1 | |



Set stand on bench or mount on wall.

Did you know...?

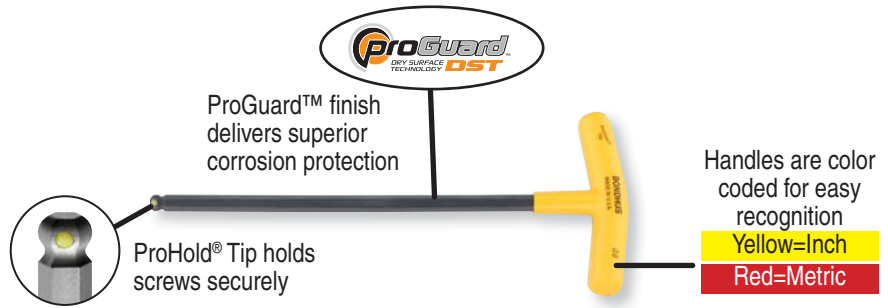
Welded T-Handle handle/blade connection increases strength and provides greater resistance to breakage. The tool user will never be stabbed in the hand by a blade that has broken free and pushed through the handle.

ProHold® Tip Ball End T-Handles

- ProGuard™ Finish -

T-Handles

- Holds screw tight on the tool EVERY TIME
- Button is non-magnetic
- Super smooth rotational action, with no interference from the ProHold® button
- Tool strength is not compromised by the ProHold® button
- Solid steel handles
- Welded handle/blade connection



| Sets | PART# | MODEL# | PCS | LENGTH | W/STAND | CONTENTS | QTY | LIST |
|---------------|-------|---------|-----|-----------|---------|-----------------------------------|-----|------|
| Inch | 75146 | PBTX60 | 6 | Graduated | | 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| Metric | 75148 | PBTX50M | 5 | Graduated | | 4, 5, 6, 8, 10mm | 1 | |



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA |
|---------------|------|------|-----|------|-----|-------|-----|---------|
| Inch | 5/32 | 9.1 | 231 | 3.0 | 76 | 75109 | 2 | |
| | 3/16 | 9.8 | 250 | 4.0 | 102 | 75110 | 2 | |
| | 7/32 | 10.3 | 262 | 4.0 | 102 | 75111 | 2 | |
| | 1/4 | 10.8 | 275 | 4.0 | 102 | 75112 | 2 | |
| | 5/16 | 11.4 | 289 | 5.0 | 127 | 75113 | 2 | |
| | 3/8 | 11.8 | 300 | 5.0 | 127 | 75114 | 2 | |
| Metric | 4.0 | 8.7 | 220 | 3.0 | 76 | 75160 | 2 | |
| | 5.0 | 9.7 | 246 | 4.0 | 102 | 75164 | 2 | |
| | 6 | 10.5 | 266 | 4.0 | 102 | 75168 | 2 | |
| | 8 | 11.2 | 285 | 5.0 | 127 | 75172 | 2 | |
| | 10 | 12.1 | 307 | 5.0 | 127 | 75176 | 2 | |

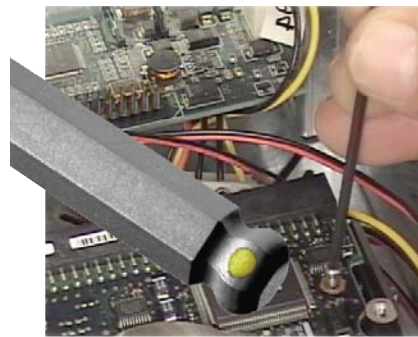


75148

Bondhus also has loop T-Handles available. Please call for price and availability.



ProHold® button holds screw tight on the tool EVERY TIME



ProHold® buttons are non-magnetic and safe for use in electronic applications

Hex End T-Handle Sets

- ProGuard™ Finish -

T-Handles

- Solid steel handles
- Welded handle/blade connection
- Ergonomic handle design
- Flywheel effect saves time
- Smooth, non-porous handle coating
- Handle coating extends along blade



| Sets | PART# | MODEL# | PCS | LENGTH | W/STAND | CONTENTS | QTY | LIST |
|---------------|-------|------------|-----|-----------|---------|--|-----|------|
| Inch | 13332 | HTX80 | 8 | Graduated | | 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4" | 1 | |
| | 15232 | HTX80-6 | 8 | 6 inch | | 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4" | 1 | |
| | 15332 | HTX80-9 | 8 | 9 inch | | 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4" | 1 | |
| | 13390 | HTX10/S | 10 | Graduated | ✓ | 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 13338 | HTX10 | 10 | Graduated | | 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 15290 | HTX10/S-6 | 10 | 6 inch | ✓ | 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 15238 | HTX10-6 | 10 | 6 inch | | 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 15390 | HTX10/S-9 | 10 | 9 inch | ✓ | 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 15338 | HTX10-9 | 10 | 9 inch | | 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| Metric | 13348 | HTX60M | 6 | Graduated | | 2, 2.5, 3, 4, 5, 6mm | 1 | |
| | 15248 | HTX60M-6 | 6 | 6 inch | | 2, 2.5, 3, 4, 5, 6mm | 1 | |
| | 15348 | HTX60M-9 | 6 | 9 inch | | 2, 2.5, 3, 4, 5, 6mm | 1 | |
| | 13389 | HTX80M/S | 8 | Graduated | ✓ | 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |
| | 13387 | HTX80M | 8 | Graduated | | 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |
| | 15289 | HTX80M/S-6 | 8 | 6 inch | ✓ | 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |
| | 15287 | HTX80M-6 | 8 | 6 inch | | 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |
| | 15389 | HTX80M/S-9 | 8 | 9 inch | ✓ | 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |
| | 15387 | HTX80M-9 | 8 | 9 inch | | 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |

✓ Comes with stand 17936 Inch or 17935 Metric



13389



13390



13348

Bondhus



Bondhus handles are permanently welded. There is no chance the blades will ever loosen. The tool user is in no danger of the blade pushing through the top of the handle and stabbing into the palm of the hand.

Competitor



The friction fit blades in competitors' T-Handles are not welded. They can loosen, slip, and even fall out or punch through the top of the handle.



For singles see page 32

Hex End T-Handle Singles

- ProGuard™ Finish -

T-Handles

- Solid steel handles
- Welded handle/blade connection
- Ergonomic handle design
- Flywheel effect saves time
- Smooth, non-porous handle coating
- Handle coating extends along blade



SINGLE PACKAGING

PACKAGED TAGGED/BARCODED

| Singles | | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA | PART# | QTY | LIST EA |
|-------------|------------------|------|------|-----|------|-------|-------|-----|---------|-------|-----|---------|
| Inch | 6" Length | | | | | | | | | | | |
| | 3/32 | 6.0 | 152 | 3.0 | 76 | 15205 | 2 | | | 45205 | 2 | |
| | 7/64 | 6.0 | 152 | 3.0 | 76 | 15206 | 2 | | | 45206 | 2 | |
| | 1/8 | 6.0 | 152 | 3.0 | 76 | 15207 | 2 | | | 45207 | 2 | |
| | 9/64 | 6.0 | 152 | 3.0 | 76 | 15208 | 2 | | | 45208 | 2 | |
| | 5/32 | 6.0 | 152 | 3.0 | 76 | 15209 | 2 | | | 45209 | 2 | |
| | 3/16 | 6.0 | 152 | 4.0 | 102 | 15210 | 2 | | | 45210 | 2 | |
| | 7/32 | 6.0 | 152 | 4.0 | 102 | 15211 | 2 | | | 45211 | 2 | |
| | 1/4 | 6.0 | 152 | 4.0 | 102 | 15212 | 2 | | | 45212 | 2 | |
| | 5/16 | 6.0 | 152 | 5.0 | 127 | 15213 | 2 | | | 45213 | 2 | |
| | 3/8 | 6.0 | 152 | 5.0 | 127 | 15214 | 2 | | | 45214 | 2 | |
| | 1/2 | 6.0 | 152 | 5.0 | 127 | 15216 | 1 | | | 45216 | 1 | |

SINGLE PACKAGING

PACKAGED TAGGED/BARCODED

| Singles | | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA | PART# | QTY | LIST EA |
|---------------|------------------|------|------|-----|------|-------|-------|-----|---------|-------|-----|---------|
| Metric | 6" Length | | | | | | | | | | | |
| | 2.0 | 6.0 | 152 | 3.0 | 76 | 15252 | 2 | | | 45252 | 2 | |
| | 2.5 | 6.0 | 152 | 3.0 | 76 | 15254 | 2 | | | 45254 | 2 | |
| | 3.0 | 6.0 | 152 | 3.0 | 76 | 15256 | 2 | | | 45256 | 2 | |
| | 4.0 | 6.0 | 152 | 3.0 | 76 | 15260 | 2 | | | 45260 | 2 | |
| | 5.0 | 6.0 | 152 | 4.0 | 102 | 15264 | 2 | | | 45264 | 2 | |
| | 6 | 6.0 | 152 | 4.0 | 102 | 15268 | 2 | | | 45268 | 2 | |
| | 7 | 6.0 | 152 | 4.0 | 102 | 15270 | 2 | | | - | - | |
| | 8 | 6.0 | 152 | 5.0 | 127 | 15272 | 2 | | | 45272 | 2 | |
| | 9 | 6.0 | 152 | 5.0 | 127 | 15274 | 2 | | | - | - | |
| | 10 | 6.0 | 152 | 5.0 | 127 | 15276 | 2 | | | 45276 | 2 | |

SINGLE PACKAGING

PACKAGED TAGGED/BARCODED

| Singles | | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA |
|-------------|-------------------------|------|------|-----|------|-------|-------|-----|---------|
| Inch | 9" Length | | | | | | | | |
| | 3/32 | 9.0 | 229 | 3.0 | 76 | 15305 | 2 | | |
| | 7/64 | 9.0 | 229 | 3.0 | 76 | 15306 | 2 | | |
| | 1/8 | 9.0 | 229 | 3.0 | 76 | 15307 | 2 | | |
| | 9/64 | 9.0 | 229 | 3.0 | 76 | 15308 | 2 | | |
| | 5/32 | 9.0 | 229 | 3.0 | 76 | 15309 | 2 | | |
| | 3/16 | 9.0 | 229 | 4.0 | 102 | 15310 | 2 | | |
| | 7/32 | 9.0 | 229 | 4.0 | 102 | 15311 | 2 | | |
| | 1/4 | 9.0 | 229 | 4.0 | 102 | 15312 | 2 | | |
| | 5/16 | 9.0 | 229 | 5.0 | 127 | 15313 | 2 | | |
| | 3/8 | 9.0 | 229 | 5.0 | 127 | 15314 | 2 | | |
| | 1/2 | 9.0 | 229 | 5.0 | 127 | 15316 | 1 | | |
| | Graduated Length | | | | | | | | |
| 3/32 | | 4.2 | 105 | 3.0 | 76 | 13305 | 2 | | |
| 7/64 | | 4.4 | 112 | 3.0 | 76 | 13306 | 2 | | |
| 1/8 | | 4.6 | 118 | 3.0 | 76 | 13307 | 2 | | |
| 9/64 | | 4.9 | 124 | 3.0 | 76 | 13308 | 2 | | |
| 5/32 | | 5.2 | 132 | 3.0 | 76 | 13309 | 2 | | |
| 3/16 | | 5.6 | 141 | 4.0 | 102 | 13310 | 2 | | |
| 7/32 | | 6.1 | 154 | 4.0 | 102 | 13311 | 2 | | |
| 1/4 | | 6.5 | 165 | 4.0 | 102 | 13312 | 2 | | |
| 5/16 | | 7.4 | 189 | 5.0 | 127 | 13313 | 2 | | |
| 3/8 | | 8.3 | 211 | 5.0 | 127 | 13314 | 2 | | |

SINGLE PACKAGING

PACKAGED TAGGED/BARCODED

| Singles | | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA |
|-------------------------|-------------------|------|------|-----|------|-------|-------|-----|---------|
| Metric | 9" Length | | | | | | | | |
| | 2.0 | 9.0 | 229 | 3.0 | 76 | 15352 | 2 | | |
| | 2.5 | 9.0 | 229 | 3.0 | 76 | 15354 | 2 | | |
| | 3.0 | 9.0 | 229 | 3.0 | 76 | 15356 | 2 | | |
| | 4.0 | 9.0 | 229 | 3.0 | 76 | 15360 | 2 | | |
| | 5.0 | 9.0 | 229 | 4.0 | 102 | 15364 | 2 | | |
| | 6 | 9.0 | 229 | 4.0 | 102 | 15368 | 2 | | |
| | 8 | 9.0 | 229 | 5.0 | 127 | 15372 | 2 | | |
| | 10 | 9.0 | 229 | 5.0 | 127 | 15376 | 2 | | |
| | 14" Length | | | | | | | | |
| 3.0 | | 14 | 356 | 3.0 | 76 | 16456 | 1 | | |
| 4.0 | | 14 | 356 | 3.0 | 76 | 16460 | 1 | | |
| 5.0 | | 14 | 356 | 4.0 | 102 | 16464 | 1 | | |
| 6 | | 14 | 356 | 4.0 | 102 | 16468 | 1 | | |
| Graduated Length | | | | | | | | | |
| | 2.0 | 4.0 | 100 | 3.0 | 76 | 13352 | 2 | | |
| | 2.5 | 4.3 | 110 | 3.0 | 76 | 13354 | 2 | | |
| | 3.0 | 4.7 | 120 | 3.0 | 76 | 13356 | 2 | | |
| | 4.0 | 5.3 | 136 | 3.0 | 76 | 13360 | 2 | | |
| | 5.0 | 5.9 | 150 | 4.0 | 102 | 13364 | 2 | | |
| | 6 | 6.8 | 173 | 4.0 | 102 | 13368 | 2 | | |
| | 8 | 7.9 | 202 | 5.0 | 127 | 13372 | 2 | | |
| | 10 | 9.1 | 232 | 5.0 | 127 | 13376 | 2 | | |

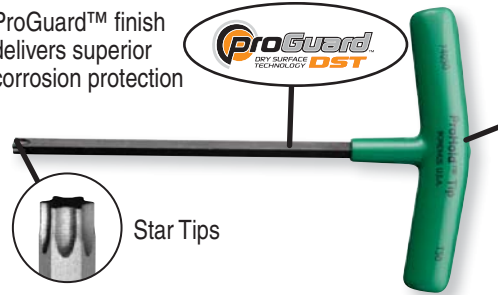
For sets see page 31

Star Tip T-Handles

- ProGuard™ Finish -

- Fits all Star and TORX® brand screws
- Solid steel handles
- Welded handle/blade connection
- Ergonomic handle design
- Flywheel effect saves time
- Smooth, non-porous handle coating

ProGuard™ finish delivers superior corrosion protection



Handles are color coded for easy recognition
Green=Star



| Set | PART# | MODEL# | PCS | LENGTH | W/STAND | CONTENTS | QTY | LIST |
|------|-------|--------|-----|-----------|---------|---------------------------------------|-----|------|
| Star | 33034 | TTHX8 | 8 | Graduated | ✓ | T9, T10, T15, T20, T25, T27, T30, T40 | 1 | |

✓ Comes with stand 17934



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST | EA |
|---------|------|------|-----|------|-------|-------|-----|------|----|
| Star | T9 | 6.1 | 155 | 3.0 | 76 | 33009 | 2 | | |
| | T10 | 6.4 | 161 | 3.0 | 76 | 33010 | 2 | | |
| | T15 | 6.6 | 168 | 3.0 | 76 | 33015 | 2 | | |
| | T20 | 6.9 | 174 | 3.0 | 76 | 33020 | 2 | | |
| | T25 | 7.1 | 180 | 3.0 | 76 | 33025 | 2 | | |
| | T27 | 7.4 | 187 | 4.0 | 102 | 33027 | 2 | | |
| | T30 | 7.6 | 193 | 4.0 | 102 | 33030 | 2 | | |
| | T40 | 7.9 | 199 | 4.0 | 102 | 33040 | 2 | | |
| | T45 | 8.1 | 206 | 5.0 | 127 | 33045 | 2 | | |
| | T50 | 8.4 | 212 | 5.0 | 127 | 33050 | 2 | | |
| T55 | 8.6 | 218 | 5.0 | 127 | 33055 | 2 | | | |

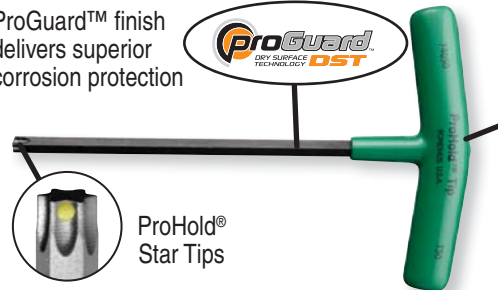
Did you know...?
Bondhus Star Tip and Star Plus Tip tools fit Star, Star Plus and TORX® brand screws.

ProHold® Star Tip T-Handles

- ProGuard™ Finish -

- Fits all Star and TORX® brand screws
- Holds screw tight on the tool EVERY TIME
- Button is non-magnetic
- Welded handle/blade connection

ProGuard™ finish delivers superior corrosion protection



Handles are color coded for easy recognition
Green=Star



| Set | PART# | MODEL# | PCS | LENGTH | W/STAND | CONTENTS | QTY | LIST |
|------|-------|---------|-----|-----------|---------|---------------------------------------|-----|------|
| Star | 74034 | PHTTHX8 | 8 | Graduated | ✓ | T9, T10, T15, T20, T25, T27, T30, T40 | 1 | |

✓ Comes with stand 17934



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST | EA |
|---------|------|------|-----|------|-------|-------|-----|------|----|
| Star | T9 | 6.1 | 155 | 3.0 | 76 | 74009 | 2 | | |
| | T10 | 6.4 | 161 | 3.0 | 76 | 74010 | 2 | | |
| | T15 | 6.6 | 168 | 3.0 | 76 | 74015 | 2 | | |
| | T20 | 6.9 | 174 | 3.0 | 76 | 74020 | 2 | | |
| | T25 | 7.1 | 180 | 3.0 | 76 | 74025 | 2 | | |
| | T27 | 7.4 | 187 | 4.0 | 102 | 74027 | 2 | | |
| | T30 | 7.6 | 193 | 4.0 | 102 | 74030 | 2 | | |
| | T40 | 7.9 | 199 | 4.0 | 102 | 74040 | 2 | | |
| | T45 | 8.1 | 206 | 5.0 | 127 | 74045 | 2 | | |
| | T50 | 8.4 | 212 | 5.0 | 127 | 74050 | 2 | | |
| T55 | 8.6 | 218 | 5.0 | 127 | 74055 | 2 | | | |

Did you know...?
Bondhus T-Handle tools feature an ergonomic handle design to increase user comfort and decrease hand fatigue.

*TORX® is a registered trademark of Acument Intellectual Properties, LLC

Screwdrivers



- Ergonomic handle design greatly reduces pain and discomfort associated with repetitive tasks
- Non-slip grip generates maximum torque even when wet or oily
- Anti-roll design prevents rolling on vibrating surfaces and inclines up to 15°
- Two component ComfortGrip Handle is durable and comfortable

Color Coded

- Inch
- Metric
- Star



High Torque Steel:

Up to 20% stronger, with more torque and twice the wear resistance of standard grades of steel.

FINISH OPTIONS:



Corrosion-resistant finish:

Environmentally safe, provides better tool grip, resists solvents and is 5 times more corrosion resistant than competitor finishes.



Next generation chrome finish:

Traditional plated tool look with superior protection and durability.



Real 14 karat gold finish:

Superior protection and durability over traditional chrome and the look and shine of real gold.

Attention to Detail

To create a superior screwdriver, Bondhus gives great attention to detail. The ComfortGrip handle is more comfortable and features a better grip than typical screwdrivers. Bondhus is also the only company to match the size of our screwdriver handles to the screwdriver blade's maximum torque.



The Bondhus ComfortGrip handle features a durable thermoplastic core wrapped in cushioned rubber for increased comfort and torque.



Bondhus handles are designed and sized to match the torque capacity of each blade tip.



Ergonomically designed handles deliver maximum torque with unrivaled comfort and grip.



Slight texture of handle helps retain grip, even when hands are wet or oily.

Ball End Screwdrivers

- ProGuard™ Finish -

- Ball End inserts into screw at a 25° angle
- Ergonomic handle design
- Non-slip grip
- Two component handle with tough inner core and cushioned rubber exterior
- Anti-roll design



Handles are color coded for easy recognition

Yellow=Inch
Red=Metric

| Sets | PART# | MODEL# | PCS | LENGTH | CONTENTS | QTY | LIST |
|---------------|-------|--------|-----|----------|--|-----|------|
| Inch | 10645 | BSX7 | 7 | Standard | 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16" | 1 | |
| | 10632 | BSX8S | 8 | Standard | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32" | 1 | |
| | 10633 | BSX8 | 8 | Standard | 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16" | 1 | |
| | 10637 | BSX13 | 13 | Standard | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 10737 | BSX11L | 11 | Long | 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| Metric | 10686 | BSX6M | 6 | Standard | 1.5, 2, 2.5, 3, 4, 5mm | 1 | |
| | 10687 | BSX7M | 7 | Standard | 1.27, 1.5, 2, 2.5, 3, 4, 5mm | 1 | |
| | 10699 | BSX9M | 9 | Standard | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |
| | 10733 | BSX8ML | 8 | Long | 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |



10637



| Singles | Standard | | | | | PART# QTY LIST EA | | | Long | | | | | PART# QTY LIST EA | | |
|---------------|-----------------|------|------|------|-------|-------------------|---|----|-------------|------|------|------|-------|-------------------|---|--|
| | SIZE | INCH | MM | INCH | MM | | | | SIZE | INCH | MM | INCH | MM | | | |
| Inch | Standard | | | | | | | | Long | | | | | | | |
| | .050 | 2.4 | 60 | 4.1 | 104 | 10602 | 2 | | | | | | | | | |
| | 1/16 | 2.5 | 64 | 4.7 | 118 | 10603 | 2 | | | | | | | | | |
| | 5/64 | 2.6 | 67 | 4.8 | 122 | 10604 | 2 | | 5/64 | 4.3 | 110 | 6.5 | 164 | 10704 | 2 | |
| | 3/32 | 2.8 | 71 | 5.2 | 132 | 10605 | 2 | | 3/32 | 4.8 | 122 | 7.2 | 184 | 10705 | 2 | |
| | 7/64 | 2.9 | 74 | 5.3 | 136 | 10606 | 2 | | 7/64 | 5.9 | 151 | 8.4 | 212 | 10706 | 2 | |
| | 1/8 | 3.1 | 80 | 6.6 | 168 | 10607 | 2 | | 1/8 | 6.4 | 164 | 9.9 | 252 | 10707 | 2 | |
| | 9/64 | 3.3 | 83 | 6.8 | 171 | 10608 | 2 | | 9/64 | 6.9 | 176 | 10.4 | 264 | 10708 | 2 | |
| | 5/32 | 3.6 | 91 | 7.9 | 201 | 10609 | 2 | | 5/32 | 7.4 | 189 | 11.8 | 299 | 10709 | 2 | |
| | 3/16 | 3.7 | 94 | 8.0 | 204 | 10610 | 2 | | 3/16 | 7.9 | 202 | 12.3 | 312 | 10710 | 2 | |
| | 7/32 | 4.2 | 107 | 9.0 | 230 | 10611 | 2 | | 7/32 | 8.4 | 214 | 13.3 | 337 | 10711 | 2 | |
| | 1/4 | 5.0 | 126 | 9.8 | 249 | 10612 | 2 | | 1/4 | 8.9 | 227 | 13.7 | 349 | 10712 | 2 | |
| | 5/16 | 5.6 | 142 | 10.4 | 265 | 10613 | 2 | | 5/16 | 9.5 | 241 | 14.3 | 364 | 10713 | 2 | |
| | 3/8 | 6.5 | 164 | 11.3 | 287 | 10614 | 2 | | 3/8 | 9.9 | 252 | 14.8 | 376 | 10714 | 2 | |
| 7/16 | 7.6 | 194 | 12.5 | 317 | 10615 | 1 | | | | | | | | | | |
| 1/2 | 8.6 | 217 | 13.4 | 340 | 10616 | 1 | | | | | | | | | | |
| Metric | Standard | | | | | | | | Long | | | | | | | |
| | 1.27 | 2.4 | 60 | 4.1 | 104 | 10649 | 2 | | | | | | | | | |
| | 1.5 | 2.6 | 66 | 4.7 | 120 | 10650 | 2 | | | | | | | | | |
| | 2.0 | 2.8 | 72 | 5.0 | 127 | 10652 | 2 | | 2.0 | 4.0 | 102 | 6.2 | 157 | 10752 | 2 | |
| | 2.5 | 2.7 | 69 | 5.1 | 130 | 10654 | 2 | | 2.5 | 4.3 | 110 | 6.7 | 171 | 10754 | 2 | |
| | 3.0 | 3.3 | 83 | 6.7 | 171 | 10656 | 2 | | 3.0 | 6.2 | 158 | 9.7 | 247 | 10756 | 2 | |
| | 3.5 | 3.5 | 88 | 6.9 | 176 | 10658 | 1 | | | | | | | | | |
| | 4.0 | 3.7 | 95 | 8.1 | 205 | 10660 | 2 | | 4.0 | 7.0 | 179 | 11.4 | 288 | 10760 | 2 | |
| | 4.5 | 4.3 | 109 | 8.6 | 218 | 10662 | 1 | | | | | | | | | |
| | 5.0 | 4.3 | 109 | 8.6 | 219 | 10664 | 2 | | 5.0 | 7.8 | 198 | 12.1 | 308 | 10764 | 2 | |
| | 5.5 | 5.0 | 126 | 9.3 | 236 | 10666 | 1 | | | | | | | | | |
| | 6 | 5.4 | 137 | 10.2 | 260 | 10668 | 2 | | 6 | 8.6 | 218 | 13.4 | 341 | 10768 | 2 | |
| | 7 | 5.7 | 145 | 10.5 | 268 | 10670 | 1 | | | | | | | | | |
| | 8 | 6.4 | 162 | 11.2 | 286 | 10672 | 2 | | 8 | 9.3 | 237 | 14.2 | 360 | 10772 | 2 | |
| 9 | 6.9 | 175 | 11.7 | 298 | 10674 | 1 | | | | | | | | | | |
| 10 | 7.3 | 184 | 12.1 | 307 | 10676 | 2 | | 10 | 10.2 | 259 | 15.0 | 382 | 10776 | 2 | | |

For Extra Long and Custom Length singles see page 36

Ball End Screwdriver Extra Long and Custom Length Singles

- ProGuard™ Finish -

- Ball End inserts into screw at a 25° angle
- Ergonomic handle design
- Non-slip grip



ProGuard™ finish delivers superior corrosion protection



Handles are color coded for easy recognition

Yellow=Inch

Red=Metric



SINGLE PACKAGING



PACKAGED

SINGLE PACKAGING



PACKAGED

| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA | SIZE | PART# | QTY | LIST EA | |
|-------------|-------------------|------|-----|------|-----|-------|----------------------|---------|------|--------|-----|---------|--|
| Inch | Extra Long | | | | | | Custom Length | | | | | | Customer must specify "out of handle length" |
| | .050 | 11.1 | 283 | 12.8 | 326 | 3702 | 1 | | .050 | 193102 | 1 | | |
| | 1/16 | 11.1 | 281 | 13.2 | 336 | 3703 | 1 | | 1/16 | 193103 | 1 | | |
| | 5/64 | 11.0 | 279 | 13.2 | 334 | 3704 | 1 | | 5/64 | 193104 | 1 | | |
| | 3/32 | 11.0 | 279 | 13.4 | 341 | 3705 | 1 | | 3/32 | 193105 | 1 | | |
| | 7/64 | 10.6 | 270 | 13.0 | 331 | 3706 | 1 | | 7/64 | 193106 | 1 | | |
| | 1/8 | 10.6 | 270 | 14.1 | 358 | 3707 | 1 | | 1/8 | 193107 | 1 | | |
| | 9/64 | 10.5 | 267 | 14.0 | 355 | 3708 | 1 | | 9/64 | 193108 | 1 | | |
| | 5/32 | 10.5 | 267 | 14.8 | 377 | 3709 | 1 | | 5/32 | 193109 | 1 | | |
| | 3/16 | 10.3 | 260 | 14.6 | 370 | 3710 | 1 | | 3/16 | 193110 | 1 | | |
| | 7/32 | 10.3 | 260 | 15.1 | 383 | 3711 | 1 | | 7/32 | 193111 | 1 | | |
| | 1/4 | 10.3 | 260 | 15.1 | 383 | 3712 | 1 | | 1/4 | 193112 | 1 | | |
| | 5/16 | 10.3 | 260 | 15.1 | 383 | 3713 | 1 | | 5/16 | 193113 | 1 | | |
| | 3/8 | 10.3 | 260 | 15.1 | 383 | 3714 | 1 | | 3/8 | 193114 | 1 | | |
| | 7/16 | 10.5 | 267 | 15.3 | 390 | 3715 | 1 | | 7/16 | 193115 | 1 | | |
| | 1/2 | 10.5 | 267 | 15.3 | 390 | 3716 | 1 | | 1/2 | 193116 | 1 | | |

| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA | SIZE | PART# | QTY | LIST EA | |
|---------------|-------------------|------|-----|------|-----|-------|----------------------|---------|------|--------|-----|---------|--|
| Metric | Extra Long | | | | | | Custom Length | | | | | | Customer must specify "out of handle length" |
| | 1.5 | 11.0 | 279 | 13.2 | 334 | 3750 | 1 | | 1.5 | 193150 | 1 | | |
| | 2.0 | 11.0 | 279 | 13.2 | 334 | 3752 | 1 | | 2.0 | 193152 | 1 | | |
| | 2.5 | 10.5 | 267 | 12.9 | 328 | 3754 | 1 | | 2.5 | 193154 | 1 | | |
| | 3.0 | 10.6 | 270 | 14.1 | 358 | 3756 | 1 | | 3.0 | 193156 | 1 | | |
| | 4.0 | 10.5 | 267 | 14.8 | 377 | 3760 | 1 | | 4.0 | 193160 | 1 | | |
| | 5.0 | 10.3 | 260 | 14.6 | 370 | 3764 | 1 | | 5.0 | 193164 | 1 | | |
| | 6 | 10.3 | 260 | 15.1 | 383 | 3768 | 1 | | 6 | 193168 | 1 | | |
| | 8 | 10.3 | 260 | 15.1 | 383 | 3772 | 1 | | 8 | 193172 | 1 | | |
| | 10 | 10.3 | 260 | 15.1 | 383 | 3776 | 1 | | 10 | 193176 | 1 | | |

Handles are color coded for easy recognition

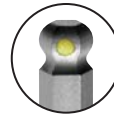
Yellow=Inch

Red=Metric

ProHold® Ball End Screwdrivers

- ProGuard™ Finish -

- Holds screw tight on the tool EVERY TIME
- Button is non-magnetic
- Super smooth rotational action, with no interference from the ProHold® button



ProHold® Tip holds screws securely

ProGuard™ finish delivers superior corrosion protection



| Sets | PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|---------------|-------|--------|-----|--|-----|------|
| Inch | 74632 | PBSX8S | 8 | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32" | 1 | |
| | 74637 | PBSX13 | 13 | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| Metric | 74686 | PBSX6M | 6 | 1.5, 2, 2.5, 3, 4, 5mm | 1 | |
| | 74699 | PBSX9M | 9 | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |



SINGLE PACKAGING



PACKAGED



SINGLE PACKAGING



PACKAGED

| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA |
|-------------|------|------|-----|------|-----|-------|-----|---------|
| Inch | .050 | 2.4 | 60 | 4.1 | 104 | 74602 | 2 | |
| | 1/16 | 2.5 | 64 | 4.7 | 118 | 74603 | 2 | |
| | 5/64 | 2.6 | 67 | 4.8 | 122 | 74604 | 2 | |
| | 3/32 | 2.8 | 71 | 5.2 | 132 | 74605 | 2 | |
| | 7/64 | 2.9 | 74 | 5.3 | 136 | 74606 | 2 | |
| | 1/8 | 3.1 | 80 | 6.6 | 168 | 74607 | 2 | |
| | 9/64 | 3.3 | 83 | 6.8 | 171 | 74608 | 2 | |
| | 5/32 | 3.6 | 91 | 7.9 | 201 | 74609 | 2 | |
| | 3/16 | 3.7 | 94 | 8.0 | 204 | 74610 | 2 | |
| | 7/32 | 4.2 | 107 | 9.0 | 230 | 74611 | 2 | |
| | 1/4 | 4.7 | 118 | 9.8 | 249 | 74612 | 2 | |
| | 5/16 | 5.6 | 142 | 10.4 | 265 | 74613 | 2 | |
| | 3/8 | 6.5 | 164 | 11.3 | 287 | 74614 | 2 | |

| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA |
|---------------|------|------|-----|------|-----|-------|-----|---------|
| Metric | 1.27 | 2.4 | 60 | 4.1 | 104 | 74649 | 2 | |
| | 1.5 | 2.6 | 66 | 4.7 | 120 | 74650 | 2 | |
| | 2.0 | 2.8 | 72 | 5.0 | 127 | 74652 | 2 | |
| | 2.5 | 2.7 | 69 | 5.1 | 130 | 74654 | 2 | |
| | 3.0 | 3.3 | 83 | 6.7 | 171 | 74656 | 2 | |
| | 4.0 | 3.7 | 95 | 8.1 | 205 | 74660 | 2 | |
| | 5.0 | 4.3 | 109 | 8.6 | 219 | 74664 | 2 | |
| | 6 | 5.4 | 137 | 10.2 | 260 | 74668 | 2 | |
| | 8 | 6.4 | 162 | 11.2 | 286 | 74672 | 2 | |
| | 10 | 7.3 | 184 | 12.1 | 307 | 74676 | 2 | |

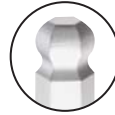
Ball End Screwdrivers

- BriteGuard™ Finish -

- Ball End inserts into screw at a 25° angle
- Ergonomic handle design
- Non-slip grip
- Two component handle with tough inner core and cushioned rubber exterior
- Anti-roll design



BriteGuard™ finish delivers superior corrosion protection



Ball End Tips

Handles are color coded for easy recognition
Yellow=Inch
Red=Metric

| Sets | PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|---------------|-------|--------|-----|--|-----|------|
| Inch | 16632 | BSX8SB | 8 | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32" | 1 | |
| | 16637 | BSX13B | 13 | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| Metric | 16686 | BSX6MB | 6 | 1.5, 2, 2.5, 3, 4, 5mm | 1 | |
| | 16699 | BSX9MB | 9 | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA |
|-------------|------|------|-----|------|-----|-------|-----|---------|
| Inch | .050 | 2.4 | 60 | 4.1 | 104 | 16602 | 2 | |
| | 1/16 | 2.5 | 64 | 4.7 | 118 | 16603 | 2 | |
| | 5/64 | 2.6 | 67 | 4.8 | 122 | 16604 | 2 | |
| | 3/32 | 2.8 | 71 | 5.2 | 132 | 16605 | 2 | |
| | 7/64 | 2.9 | 74 | 5.3 | 136 | 16606 | 2 | |
| | 1/8 | 3.1 | 80 | 6.6 | 168 | 16607 | 2 | |
| | 9/64 | 3.3 | 83 | 6.8 | 171 | 16608 | 2 | |
| | 5/32 | 3.6 | 91 | 7.9 | 201 | 16609 | 2 | |
| | 3/16 | 3.7 | 94 | 8.0 | 204 | 16610 | 2 | |
| | 7/32 | 4.2 | 107 | 9.0 | 230 | 16611 | 2 | |
| | 1/4 | 5.0 | 126 | 9.8 | 249 | 16612 | 2 | |
| | 5/16 | 5.6 | 142 | 10.4 | 265 | 16613 | 2 | |
| | 3/8 | 6.5 | 164 | 11.3 | 287 | 16614 | 2 | |
| | 7/16 | 7.6 | 194 | 12.5 | 317 | 16615 | 1 | |
| | 1/2 | 8.6 | 217 | 13.4 | 340 | 16616 | 1 | |

| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA |
|---------------|------|------|-----|------|-----|-------|-----|---------|
| Metric | 1.27 | 2.4 | 60 | 4.1 | 104 | 16649 | 2 | |
| | 1.5 | 2.6 | 66 | 4.7 | 120 | 16650 | 2 | |
| | 2.0 | 2.8 | 72 | 5.0 | 127 | 16652 | 2 | |
| | 2.5 | 2.7 | 69 | 5.1 | 130 | 16654 | 2 | |
| | 3.0 | 3.3 | 83 | 6.7 | 171 | 16656 | 2 | |
| | 4.0 | 3.7 | 95 | 8.1 | 205 | 16660 | 2 | |
| | 5.0 | 4.3 | 109 | 8.6 | 219 | 16664 | 2 | |
| | 6 | 5.4 | 137 | 10.2 | 260 | 16668 | 2 | |
| | 8 | 6.4 | 162 | 11.2 | 286 | 16672 | 2 | |
| | 10 | 7.3 | 184 | 12.1 | 307 | 16676 | 2 | |

Ball End Screwdrivers

- GoldGuard™ Finish -

- Ball End inserts into screw at a 25° angle
- Ergonomic handle design
- Non-slip grip
- Two component handle with tough inner core and cushioned rubber exterior
- Anti-roll design



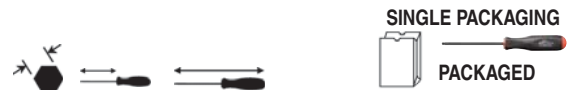
GoldGuard™ finish. Real 14 karat Gold



Ball End Tips

Handles are color coded for easy recognition
Yellow=Inch
Red=Metric

| Sets | PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|---------------|-------|--------|-----|--|-----|------|
| Inch | 38632 | BSX8SG | 8 | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32" | 1 | |
| | 38637 | BSX13G | 13 | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| Metric | 38686 | BSX6MG | 6 | 1.5, 2, 2.5, 3, 4, 5mm | 1 | |
| | 38699 | BSX9MG | 9 | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm | 1 | |



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA |
|-------------|------|------|-----|------|-----|-------|-----|---------|
| Inch | .050 | 2.4 | 60 | 4.1 | 104 | 38602 | 2 | |
| | 1/16 | 2.5 | 64 | 4.7 | 118 | 38603 | 2 | |
| | 5/64 | 2.6 | 67 | 4.8 | 122 | 38604 | 2 | |
| | 3/32 | 2.8 | 71 | 5.2 | 132 | 38605 | 2 | |
| | 7/64 | 2.9 | 74 | 5.3 | 136 | 38606 | 2 | |
| | 1/8 | 3.1 | 80 | 6.6 | 168 | 38607 | 2 | |
| | 9/64 | 3.3 | 83 | 6.8 | 171 | 38608 | 2 | |
| | 5/32 | 3.6 | 91 | 7.9 | 201 | 38609 | 2 | |
| | 3/16 | 3.7 | 94 | 8.0 | 204 | 38610 | 2 | |
| | 7/32 | 4.2 | 107 | 9.0 | 230 | 38611 | 2 | |
| | 1/4 | 5.0 | 126 | 9.8 | 249 | 38612 | 2 | |
| | 5/16 | 5.6 | 142 | 10.4 | 265 | 38613 | 2 | |
| | 3/8 | 6.5 | 164 | 11.3 | 287 | 38614 | 2 | |
| | 7/16 | 7.6 | 194 | 12.5 | 317 | 38615 | 1 | |
| | 1/2 | 8.6 | 217 | 13.4 | 340 | 38616 | 1 | |

| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA |
|---------------|------|------|-----|------|-----|-------|-----|---------|
| Metric | 1.27 | 2.4 | 60 | 4.1 | 104 | 38649 | 2 | |
| | 1.5 | 2.6 | 66 | 4.7 | 120 | 38650 | 2 | |
| | 2.0 | 2.8 | 72 | 5.0 | 127 | 38652 | 2 | |
| | 2.5 | 2.7 | 69 | 5.1 | 130 | 38654 | 2 | |
| | 3.0 | 3.3 | 83 | 6.8 | 172 | 38656 | 2 | |
| | 4.0 | 3.7 | 95 | 8.1 | 205 | 38660 | 2 | |
| | 5.0 | 4.3 | 109 | 8.6 | 219 | 38664 | 2 | |
| | 6 | 5.4 | 137 | 10.2 | 260 | 38668 | 2 | |
| | 8 | 6.4 | 162 | 11.2 | 286 | 38672 | 2 | |
| | 10 | 7.3 | 184 | 12.1 | 307 | 38676 | 2 | |

Star Tip Screwdrivers

- ProGuard™ Finish -

- Fits all Star and TORX®* brand screws
- Chamfered tool tips eliminate burrs and help tools seat in screw head
- Sharp corners transfer more torque to the screw and reduce stripping



| Sets | PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|-------------|-------|--------|-----|---------------------------------------|-----|------|
| Star | 34532 | TSX8S | 8 | T6, T7, T8, T9, T10, T15, T20, T25 | 1 | |
| | 34534 | TSX8 | 8 | T9, T10, T15, T20, T25, T27, T30, T40 | 1 | |

SINGLE PACKAGING



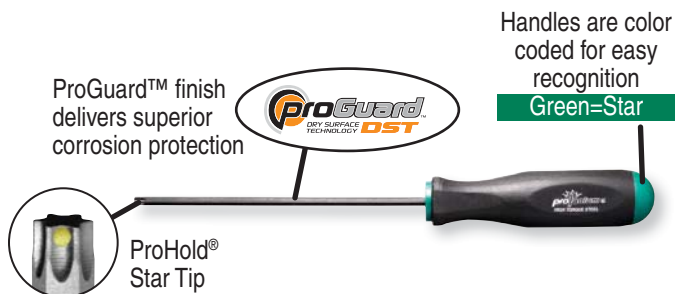
| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA |
|-------------|------|------|-----|------|-----|-------|-----|---------|
| Star | T5 | 4.0 | 102 | 6.2 | 156 | 34505 | 2 | |
| | T6 | 4.3 | 108 | 6.4 | 163 | 34506 | 2 | |
| | T7 | 4.5 | 114 | 6.7 | 169 | 34507 | 2 | |
| | T8 | 4.8 | 121 | 7.2 | 182 | 34508 | 2 | |
| | T9 | 4.9 | 124 | 7.3 | 186 | 34509 | 2 | |
| | T10 | 5.0 | 128 | 7.4 | 189 | 34510 | 2 | |
| | T15 | 5.1 | 131 | 8.6 | 219 | 34515 | 2 | |
| | T20 | 5.4 | 138 | 9.8 | 248 | 34520 | 2 | |
| | T25 | 5.7 | 144 | 10.0 | 253 | 34525 | 2 | |
| | T27 | 5.8 | 147 | 10.6 | 270 | 34527 | 2 | |
| | T30 | 6.0 | 153 | 10.9 | 276 | 34530 | 2 | |
| | T40 | 6.3 | 159 | 11.1 | 282 | 34540 | 2 | |
| | T45 | 6.5 | 166 | 11.4 | 289 | 34545 | 1 | |
| | T50 | 6.8 | 172 | 11.6 | 295 | 34550 | 1 | |
| | T55 | 7.0 | 178 | 11.9 | 301 | 34555 | 1 | |
| | T60 | 7.3 | 185 | 12.1 | 308 | 34560 | 1 | |

Did you know...?
ProGuard™ Dry Surface Technology is the world's best corrosion protection. The tool user does not have to work with rusty tools. ProGuard™ protection delivers up to 5 times the corrosion resistance of any other Hex or Star Tip tool finish.

ProHold® Star Tip Screwdrivers

- ProGuard™ Finish -

- Fits all Star and TORX®* brand screws
- Holds screw tight on the tool EVERY TIME
- Button is non-magnetic
- Chamfered tool tips eliminate burrs and help tools seat in screw head



| Sets | PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|-------------|-------|--------|-----|---------------------------------------|-----|------|
| Star | 75534 | PHTSX8 | 8 | T9, T10, T15, T20, T25, T27, T30, T40 | 1 | |

SINGLE PACKAGING



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA |
|-------------|------|------|-----|------|-----|-------|-----|---------|
| Star | T9 | 4.9 | 124 | 7.3 | 186 | 75509 | 1 | |
| | T10 | 5.0 | 128 | 7.4 | 189 | 75510 | 1 | |
| | T15 | 5.1 | 131 | 8.6 | 219 | 75515 | 1 | |
| | T20 | 5.4 | 138 | 9.8 | 248 | 75520 | 1 | |
| | T25 | 5.7 | 144 | 10.0 | 253 | 75525 | 1 | |
| | T27 | 5.8 | 147 | 10.6 | 270 | 75527 | 1 | |
| | T30 | 6.0 | 153 | 10.9 | 276 | 75530 | 1 | |
| | T40 | 6.3 | 159 | 11.1 | 282 | 75540 | 1 | |
| | T45 | 6.5 | 166 | 11.4 | 289 | 75545 | 1 | |
| | T50 | 6.8 | 172 | 11.6 | 295 | 75550 | 1 | |
| | T55 | 7.0 | 178 | 11.9 | 301 | 75555 | 1 | |
| | T60 | 7.3 | 185 | 12.1 | 308 | 75560 | 1 | |

Did you know...?
ProHold® buttons are non-magnetic and work on all fastener types. They are safe to use on sensitive equipment. They will not rust and will hold non-magnetic screws (aluminum, stainless and plastic)

*TORX® is a registered trademark of Acument Intellectual Properties, LLC

Ball Star Tip Screwdrivers

- ProGuard™ Finish -

- Fits all Star and TORX® brand screws
- Ball End inserts into a screw at a 20° angle
- Ball End saves time by quickly funneling tool into screw
- Superior Ball End strength and working angle
- Works in hard to reach places



ProGuard™ finish delivers superior corrosion protection



Handles are color coded for easy recognition
Green=Star



Ball Star Tip

| Sets | PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|------|-------|--------|-----|---------------------------------------|-----|------|
| Star | 13546 | STX6 | 6 | T6, T7, T8, T9, T10, T15 | 1 | |
| | 13532 | STX8 | 8 | T9, T10, T15, T20, T25, T27, T30, T40 | 1 | |

SINGLE PACKAGING



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA |
|---------|------|------|-----|------|-----|-------|-----|---------|
| Star | T6 | 2.6 | 65 | 4.7 | 119 | 12706 | 2 | |
| | T7 | 2.6 | 65 | 4.7 | 119 | 12707 | 2 | |
| | T8 | 2.6 | 65 | 5.0 | 126 | 12708 | 2 | |
| | T9 | 2.6 | 65 | 5.0 | 126 | 12709 | 2 | |
| | T10 | 2.8 | 70 | 5.2 | 132 | 12710 | 2 | |
| | T15 | 2.9 | 73 | 6.4 | 161 | 12715 | 2 | |
| | T20 | 3.2 | 81 | 7.5 | 191 | 12720 | 2 | |
| | T25 | 3.4 | 87 | 7.7 | 197 | 12725 | 2 | |
| | T27 | 3.8 | 97 | 8.7 | 220 | 12727 | 2 | |
| | T30 | 4.2 | 106 | 9.0 | 229 | 12730 | 2 | |
| | T40 | 4.6 | 117 | 9.4 | 240 | 12740 | 2 | |
| | T45 | 5.2 | 132 | 10.0 | 255 | 12745 | 1 | |
| | T50 | 6.0 | 153 | 10.9 | 276 | 12750 | 1 | |
| | T55 | 6.8 | 172 | 11.6 | 295 | 12755 | 1 | |

Did you know...?
BallStar™ tools work at a 20° angle; screws can be turned continuously without constantly taking the tool out of the screw, repositioning it and reinserting it, even at angles up to 20°.

Tamper Resistant Star Tip Screwdrivers

- ProGuard™ Finish -

- Fits all Star and TORX® brand tamper resistant screws
- Chamfered tool tips eliminate burrs and help tools seat in screw head
- Sharp corners transfer more torque to the screw and reduce stripping
- Precision machined for ease of use and superior fit

ProGuard™ finish delivers superior corrosion protection



Handles are color coded for easy recognition
Green=Star



Tamper Resistant Star Tip

| Sets | PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|------|-------|---------|-----|---|-----|------|
| Star | 33832 | TR-SX8S | 8 | TR6, TR7, TR8, TR9, TR10, TR15, TR20, TR25 | 1 | |
| | 33834 | TR-SX8 | 8 | TR9, TR10, TR15, TR20, TR25, TR27, TR30, TR40 | 1 | |

SINGLE PACKAGING



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA |
|---------|------|------|-----|------|-----|-------|-----|---------|
| Star | TR6 | 4.3 | 108 | 6.4 | 163 | 33806 | 1 | |
| | TR7 | 4.5 | 114 | 6.7 | 169 | 33807 | 1 | |
| | TR8 | 4.8 | 121 | 7.2 | 182 | 33808 | 1 | |
| | TR9 | 4.9 | 124 | 7.3 | 186 | 33809 | 1 | |
| | TR10 | 5.0 | 128 | 7.4 | 189 | 33810 | 1 | |
| | TR15 | 5.1 | 131 | 8.6 | 219 | 33815 | 1 | |
| | TR20 | 5.4 | 138 | 9.8 | 248 | 33820 | 1 | |
| | TR25 | 5.7 | 144 | 10.0 | 253 | 33825 | 1 | |
| | TR27 | 5.8 | 147 | 10.6 | 270 | 33827 | 1 | |
| | TR30 | 6.0 | 153 | 10.9 | 276 | 33830 | 1 | |
| | TR40 | 6.3 | 159 | 11.1 | 282 | 33840 | 1 | |

Did you know...?
Bondhus' ergonomic handle design greatly reduces fatigue associated with repetitive tasks and the application of torque.

*TORX® is a registered trademark of Acument Intellectual Properties, LLC

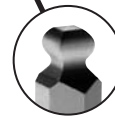
Square Ball End Screwdrivers

- ProGuard™ Finish -

- Ball End inserts into a screw at a 25° angle
- Ball End saves time by quickly funneling tool into screw
- Two component handle with tough inner core and cushioned rubber exterior
- Non-slip grip
- Anti-roll design



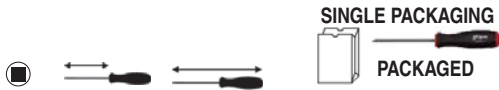
ProGuard™ finish delivers superior corrosion protection



Square Ball Tip

Ergonomic handle design

| Set | PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|-----|-------|--------|-----|--------------------|-----|------|
| | 11640 | BRX4 | 4 | SQ0, SQ1, SQ2, SQ3 | 1 | |



SINGLE PACKAGING

PACKAGED

| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST EA |
|---------|------|------|-----|------|-----|-------|-----|---------|
| | SQ0 | 3.5 | 90 | 7.0 | 178 | 11600 | 2 | |
| | SQ1 | 3.8 | 95 | 7.2 | 183 | 11601 | 2 | |
| | SQ2 | 4.0 | 102 | 8.3 | 212 | 11602 | 2 | |
| | SQ3 | 4.0 | 102 | 8.3 | 212 | 11603 | 2 | |
| | SQ4 | 4.5 | 115 | 8.8 | 225 | 11604 | 2 | |

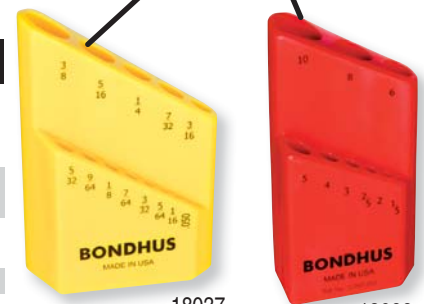


Bondhex™ Cases

- Provides a convenient means of keeping L-Wrenches neat and organized
- Sizes are printed on the case for quick tool selection
- Case can be used in conjunction with the tool to increase torque

| | PART# | FITS SIZES | QTY | LIST |
|---------------|-------|--|-----|------|
| Inch | 18032 | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32" | 10 | |
| | 18036 | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16" | 10 | |
| | 18037 | .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 10 | |
| | 18038 | 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4" | 10 | |
| | 18045 | 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16" | 10 | |
| Metric | 18046 | 1.5, 2, 2.5, 3, 4, 5mm | 10 | |
| | 18099 | 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm | 10 | |

Yellow=Inch
Red=Metric



18037

18099

About the Bondhex™ Case

For Ball End, Hex and Star Tip L-Wrenches

Bondhus Ball End, Hex and Star key sets are packed in a color coded Bondhex™ case to keep tools neat and sorted. A simple 60 degree turn locks keys in place to eliminate loose, spilled and lost keys. Tool sizes are clearly printed beneath each tool for quick size selection. A Bondhex™ case can also be used with a hex key to increase grip and comfortably generate additional torque.

Most Bondhus L-Wrench sets come standard with our Bondhex™ case.



Hollow Shaft Nut Drivers

- Hexagonal upper shaft for use with a wrench for increased torque
- Ergonomic handle design
- Non-slip grip
- Anti-roll handle
- High strength chrome plated shaft



Handles are color coded for easy recognition
 Yellow=Inch
 Red=Metric

| Sets | PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|---------------|-------|--------|-----|---|-----|------|
| Inch | 48445 | BNX7 | 7 | 3/16, 1/4, 5/16, 11/32, 3/8, 7/16, 1/2" | 1 | |
| Metric | 48492 | BNX7M | 7 | 6, 7, 8, 9, 10, 11, 12mm | 1 | |
| | 48496 | BNX7ML | 7 | 6, 7, 8, 9, 10, 11, 13mm | 1 | |

SINGLE PACKAGING



| Singles | SIZE | INCH | MM | INCH | MM | PART# | QTY | LIST | EA | PART# | QTY | LIST | EA |
|---------------|-------|------|----|------|-----|-------|-----|------|----|-------|-----|------|----|
| Inch | 5/32 | 3 | 76 | 7.3 | 186 | 38409 | 1 | | | 48409 | 1 | | |
| | 3/16 | 3 | 76 | 7.3 | 186 | 38410 | 1 | | | 48410 | 1 | | |
| | 7/32 | 3 | 76 | 7.3 | 186 | 38411 | 1 | | | 48411 | 1 | | |
| | 1/4 | 3 | 76 | 7.3 | 186 | 38412 | 1 | | | 48412 | 1 | | |
| | 9/32 | 3 | 76 | 7.3 | 186 | 38432 | 1 | | | 48432 | 1 | | |
| | 5/16 | 3 | 76 | 7.3 | 186 | 38413 | 1 | | | 48413 | 1 | | |
| | 11/32 | 3 | 76 | 7.3 | 186 | 38435 | 1 | | | 48435 | 1 | | |
| | 3/8 | 3 | 76 | 7.3 | 186 | 38414 | 1 | | | 48414 | 1 | | |
| | 7/16 | 3 | 76 | 7.3 | 186 | 38415 | 1 | | | 48415 | 1 | | |
| | 1/2 | 3 | 76 | 7.3 | 186 | 38416 | 1 | | | 48416 | 1 | | |
| Metric | 4.0 | 3 | 76 | 7.3 | 186 | 38460 | 1 | | | 48460 | 1 | | |
| | 5.0 | 3 | 76 | 7.3 | 186 | 38464 | 1 | | | 48464 | 1 | | |
| | 5.5 | 3 | 76 | 7.3 | 186 | 38466 | 1 | | | 48466 | 1 | | |
| | 6 | 3 | 76 | 7.3 | 186 | 38468 | 1 | | | 48468 | 1 | | |
| | 7 | 3 | 76 | 7.3 | 186 | 38470 | 1 | | | 48470 | 1 | | |
| | 8 | 3 | 76 | 7.3 | 186 | 38472 | 1 | | | 48472 | 1 | | |
| | 9 | 3 | 76 | 7.3 | 186 | 38474 | 1 | | | 48474 | 1 | | |
| | 10 | 3 | 76 | 7.3 | 186 | 38476 | 1 | | | 48476 | 1 | | |
| | 11 | 3 | 76 | 7.3 | 186 | 38478 | 1 | | | 48478 | 1 | | |
| | 12 | 3 | 76 | 7.3 | 186 | 38480 | 1 | | | 48480 | 1 | | |
| | 13 | 3 | 76 | 7.3 | 186 | 38482 | 1 | | | 48482 | 1 | | |



48492

Lifetime Warranty

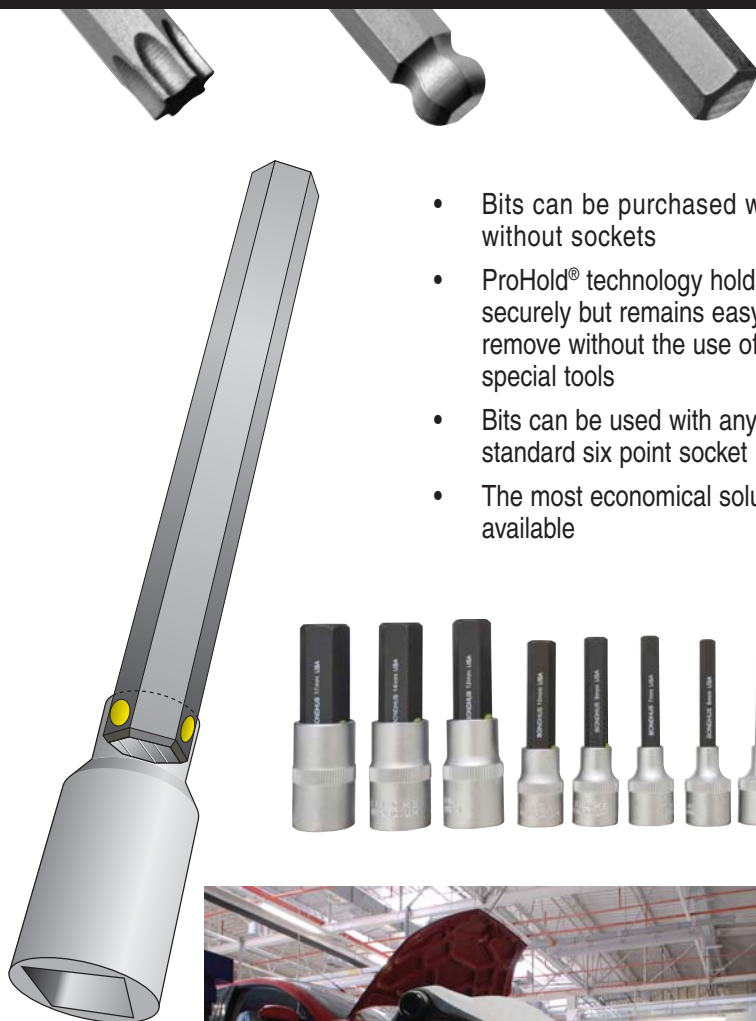
Bondhus manufactures the highest quality Hex and Star tools available, and every tool is backed by an unconditional lifetime warranty.

“All Bondhus products are guaranteed for life. If you are not satisfied with a Bondhus tool - for any reason - simply return it. A replacement will be shipped right out at no cost - no hassles, no questions asked.”

A warranty is only as good as the company standing behind it. Bondhus has been the leading innovator in the Hex and Star tool industry for over forty years.



Socket Bits



- Bits can be purchased with or without sockets
- ProHold® technology holds bits securely but remains easy to remove without the use of special tools
- Bits can be used with any standard six point socket
- The most economical solution available



High Torque Steel:

Up to 20% stronger, with more torque and twice the wear resistance of standard grades of steel.

FINISH OPTIONS:



Corrosion-resistant finish:

Environmentally safe, provides better tool grip, resists solvents and is 5 times more corrosion resistant than competitor finishes.

ProHold® Socket Bit Technology

Bondhus ProHold® technology is a revolution in holding systems that makes all other holding systems obsolete. Bits seat firmly into socket. No special tools are required to remove bits from sockets.



Bit sizes are clearly printed in white ink.



ProHold® buttons hold bit securely while allowing easy removal without the use of set screws or roll pins.



Bits are suitable for use with standard or impact sockets.

Hex End Socket Bits

- ProGuard™ Finish -

- Bits fit any standard six point socket
- Bits are suitable for use with impact sockets
- Chamfered tool tips eliminate burrs and help tools seat in screw head
- Sharp corners transfer more torque to the screw and reduce stripping
- Precision machined for ease of use and superior fit

ProGuard™ finish delivers superior corrosion protection



Hex End Tips



Molded Black Case



Clamshell Package

| Sets | PART# | MODEL# | PCS | BIT LENGTH | DESCRIPTION | PACKED IN | CONTENTS | QTY | LIST |
|------|-------|-----------|-----|------------|----------------|-----------------------|---|-----|------|
| Inch | 43299 | PHX9/S-2 | 9 | 2"/50mm | Sockets & Bits | Transparent Clamshell | 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2, 9/16, 5/8" | 1 | |
| | 43645 | PHX5/S-6 | 5 | 6"/150mm | Sockets & Bits | Transparent Clamshell | 5/16, 3/8, 1/2, 9/16, 5/8" | 1 | |
| | 33299 | PHX9-2 | 9 | 2"/50mm | Bits Only | Transparent Clamshell | 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2, 9/16, 5/8" | 1 | |
| | 33645 | PHX5-6 | 5 | 6"/150mm | Bits Only | Transparent Clamshell | 5/16, 3/8, 1/2, 9/16, 5/8" | 1 | |
| | 30299 | PHX9/S-2C | 9 | 2"/50mm | Sockets & Bits | Molded Black Case | 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2, 9/16, 5/8" | 1 | |
| | 30645 | PHX5/S-6C | 5 | 6"/150mm | Sockets & Bits | Molded Black Case | 5/16, 3/8, 1/2, 9/16, 5/8" | 1 | |
| | 23299 | PHX9-2C | 9 | 2"/50mm | Bits Only | Molded Black Case | 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2, 9/16, 5/8" | 1 | |

| Metric | PART# | MODEL# | PCS | BIT LENGTH | DESCRIPTION | PACKED IN | CONTENTS | QTY | LIST |
|--------|-------|------------|-----|------------|----------------|-----------------------|----------------------------------|-----|------|
| Metric | 43298 | PHX9M/S-2 | 9 | 2"/50mm | Sockets & Bits | Transparent Clamshell | 4, 5, 6, 7, 8, 10, 12, 14, 17mm | 1 | |
| | 43646 | PHX6M/S-6 | 6 | 6"/150mm | Sockets & Bits | Transparent Clamshell | 4, 5, 6, 7, 8, 10mm | 1 | |
| | 33298 | PHX9M-2 | 9 | 2"/50mm | Bits Only | Transparent Clamshell | 4, 5, 6, 7, 8, 10, 12, 14, 17mm | 1 | |
| | 33646 | PHX6M-6 | 6 | 6"/150mm | Bits Only | Transparent Clamshell | 4, 5, 6, 7, 8, 10mm | 1 | |
| | 30298 | PHX9M/S-2C | 9 | 2"/50mm | Sockets & Bits | Molded Black Case | 4, 5, 6, 7, 8, 10, 12, 14, 17mm | 1 | |
| | 30646 | PHX6M/S-6C | 6 | 6"/150mm | Sockets & Bits | Molded Black Case | 4, 5, 6, 7, 8, 10mm | 1 | |
| | 23246 | PHX6M-2C | 6 | 2"/50mm | Bits Only | Molded Black Case | 4, 5, 6, 7, 8, 10mm | 1 | |
| | 23298 | PHX9M-2C | 9 | 2"/50mm | Bits Only | Molded Black Case | 4, 5, 6, 7, 8, 10, 12, 14, 17mm | 1 | |
| | 23296 | PHX9ML-2C | 9 | 2"/50mm | Bits Only | Molded Black Case | 5, 6, 7, 8, 10, 12, 14, 17, 19mm | 1 | |



BIT ONLY

SOCKET AND BIT



BIT ONLY

SOCKET AND BIT

| Singles | SIZE | PART# | QTY | LIST | EA | PART# | QTY | DRIVE | LIST | EA |
|---------|------------------|-------|-------------------|------|----|-------|-----|-------|------|----|
| Inch | 2" Long | | 50mm Long | | | | | | | |
| | 1/8 | 33207 | 1 | | | 43207 | 1 | 3/8" | | |
| | 5/32 | 33209 | 1 | | | 43209 | 1 | 3/8" | | |
| | 3/16 | 33210 | 1 | | | 43210 | 1 | 3/8" | | |
| | 7/32 | 33211 | 1 | | | 43211 | 1 | 3/8" | | |
| | 1/4 | 33212 | 1 | | | 43212 | 1 | 3/8" | | |
| | 5/16 | 33213 | 1 | | | 43213 | 1 | 3/8" | | |
| | 3/8 | 33214 | 1 | | | 43214 | 1 | 3/8" | | |
| | 1/2 | 33216 | 1 | | | 43216 | 1 | 1/2" | | |
| | 9/16 | 33217 | 1 | | | 43217 | 1 | 1/2" | | |
| | 5/8 | 33218 | 1 | | | 43218 | 1 | 1/2" | | |
| | 3/4 | 33219 | 1 | | | 43219 | 1 | 1/2" | | |
| Inch | 2.5" Long | | 65mm Long | | | | | | | |
| | 7/8 | 33220 | 1 | | | - | - | - | | |
| | 1 | 33221 | 1 | | | - | - | - | | |
| | 1 1/8 | 33223 | 1 | | | - | - | - | | |
| | 1 1/4 | 33225 | 1 | | | - | - | - | | |
| | 1 1/2 | 33229 | 1 | | | - | - | - | | |
| | 1 3/4 | 33231 | 1 | | | - | - | - | | |
| | 2 | 33233 | 1 | | | - | - | - | | |
| Inch | 6" Long | | 150mm Long | | | | | | | |
| | 1/8 | 33607 | 1 | | | 43507 | 1 | 3/8" | | |
| | 5/32 | 33609 | 1 | | | 43509 | 1 | 3/8" | | |
| | 3/16 | 33610 | 1 | | | 43510 | 1 | 3/8" | | |
| | 7/32 | 33611 | 1 | | | 43511 | 1 | 3/8" | | |
| | 1/4 | 33612 | 1 | | | 43512 | 1 | 3/8" | | |
| | 5/16 | 33613 | 1 | | | 43513 | 1 | 3/8" | | |
| | 3/8 | 33614 | 1 | | | 43514 | 1 | 3/8" | | |
| | 5/16 | - | - | | | 43613 | 1 | 1/2" | | |
| | 3/8 | - | - | | | 43614 | 1 | 1/2" | | |
| | 1/2 | 33616 | 1 | | | 43616 | 1 | 1/2" | | |
| | 9/16 | 33617 | 1 | | | 43617 | 1 | 1/2" | | |
| | 5/8 | 33618 | 1 | | | 43618 | 1 | 1/2" | | |
| | 3/4 | 33619 | 1 | | | 43619 | 1 | 1/2" | | |

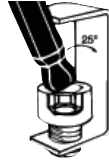
| Singles | SIZE | PART# | QTY | LIST | EA | PART# | QTY | DRIVE | LIST | EA |
|---------|------------------|-------|-------------------|------|-------|-------|------|-------|------|----|
| Metric | 2" Long | | 50mm Long | | | | | | | |
| | 3.0 | 33256 | 1 | | | 43256 | 1 | 3/8" | | |
| | 4.0 | 33260 | 1 | | | 43260 | 1 | 3/8" | | |
| | 5.0 | 33264 | 1 | | | 43264 | 1 | 3/8" | | |
| | 6 | 33268 | 1 | | | 43268 | 1 | 3/8" | | |
| | 7 | 33270 | 1 | | | 43270 | 1 | 3/8" | | |
| | 8 | 33272 | 1 | | | 43272 | 1 | 3/8" | | |
| | 9 | 33274 | 1 | | | 43274 | 1 | 3/8" | | |
| | 10 | 33276 | 1 | | | 43276 | 1 | 3/8" | | |
| | 12 | 33280 | 1 | | | 43280 | 1 | 1/2" | | |
| | 14 | 33284 | 1 | | | 43284 | 1 | 1/2" | | |
| | 17 | 33286 | 1 | | | 43286 | 1 | 1/2" | | |
| 19 | 33288 | 1 | | | 43288 | 1 | 1/2" | | | |
| Metric | 2.5" Long | | 65mm Long | | | | | | | |
| | 22 | 33291 | 1 | | | - | - | - | | |
| | 24 | 33293 | 1 | | | - | - | - | | |
| | 27 | 33295 | 1 | | | - | - | - | | |
| | 32 | 33297 | 1 | | | - | - | - | | |
| | 36 | 33200 | 1 | | | - | - | - | | |
| Metric | 6" Long | | 150mm Long | | | | | | | |
| | 3.0 | 33656 | 1 | | | 43656 | 1 | 3/8" | | |
| | 4.0 | 33660 | 1 | | | 43660 | 1 | 3/8" | | |
| | 5.0 | 33664 | 1 | | | 43664 | 1 | 3/8" | | |
| | 6 | 33668 | 1 | | | 43668 | 1 | 3/8" | | |
| | 7 | 33670 | 1 | | | 43670 | 1 | 3/8" | | |
| | 8 | 33672 | 1 | | | 43672 | 1 | 3/8" | | |
| | 9 | 33674 | 1 | | | 43674 | 1 | 3/8" | | |
| | 10 | 33676 | 1 | | | 43676 | 1 | 3/8" | | |
| | 12 | 33680 | 1 | | | 43680 | 1 | 1/2" | | |
| | 14 | 33684 | 1 | | | 43684 | 1 | 1/2" | | |
| | 17 | 33686 | 1 | | | 43686 | 1 | 1/2" | | |
| 19 | 33688 | 1 | | | 43688 | 1 | 1/2" | | | |

Ball End Socket Bits

- ProGuard™ Finish -

- Bits fit any standard six point socket
- Ball End inserts into a screw at a 25° angle
- Ball End saves time by quickly funneling tool into screw
- Superior Ball End strength and working angle

ProGuard™ finish delivers superior corrosion protection



Ball End Tips



Molded Black Case



Clamshell Package

| Sets | PART# | MODEL# | PCS | BIT LENGTH | DESCRIPTION | PACKED IN | CONTENTS | QTY | LIST |
|---------------|-------|-------------|-----|------------|----------------|-----------------------|--|-----|------|
| Inch | 43445 | PHBX7/S-2 | 7 | 2"/50mm | Sockets & Bits | Transparent Clamshell | 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 43845 | PHBX7/S-6 | 7 | 6"/150mm | Sockets & Bits | Transparent Clamshell | 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 31445 | PHBX7-2 | 7 | 2"/50mm | Bits Only | Transparent Clamshell | 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 31645 | PHBX7-6 | 7 | 6"/150mm | Bits Only | Transparent Clamshell | 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 30445 | PHBX7/S-2C | 7 | 2"/50mm | Sockets & Bits | Molded Black Case | 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 30845 | PHBX7/S-6C | 7 | 6"/150mm | Sockets & Bits | Molded Black Case | 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| | 23445 | PHBX7-2C | 7 | 2"/50mm | Bits Only | Molded Black Case | 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" | 1 | |
| Metric | 43487 | PHBX8M/S-2 | 8 | 2"/50mm | Sockets & Bits | Transparent Clamshell | 3, 4, 5, 6, 7, 8, 9, 10mm | 1 | |
| | 43887 | PHBX8M/S-6 | 8 | 6"/150mm | Sockets & Bits | Transparent Clamshell | 3, 4, 5, 6, 7, 8, 9, 10mm | 1 | |
| | 31487 | PHBX8M-2 | 8 | 2"/50mm | Bits Only | Transparent Clamshell | 3, 4, 5, 6, 7, 8, 9, 10mm | 1 | |
| | 31687 | PHBX8M-6 | 8 | 6"/150mm | Bits Only | Transparent Clamshell | 3, 4, 5, 6, 7, 8, 9, 10mm | 1 | |
| | 30487 | PHBX8M/S-2C | 8 | 2"/50mm | Sockets & Bits | Molded Black Case | 3, 4, 5, 6, 7, 8, 9, 10mm | 1 | |
| | 30887 | PHBX8M/S-6C | 8 | 6"/150mm | Sockets & Bits | Molded Black Case | 3, 4, 5, 6, 7, 8, 9, 10mm | 1 | |
| | 23487 | PHBX8M-2C | 8 | 2"/50mm | Bits Only | Molded Black Case | 3, 4, 5, 6, 7, 8, 9, 10mm | 1 | |



| Singles | SIZE | PART# | QTY | LIST EA | PART# | QTY | DRIVE | LIST EA |
|-------------|----------------|-------|-------------------|---------|-------|------|-------|---------|
| Inch | 2" Long | | 50mm Long | | | | | |
| | 1/8 | 31407 | 1 | | 43407 | 1 | 3/8" | |
| | 5/32 | 31409 | 1 | | 43409 | 1 | 3/8" | |
| | 3/16 | 31410 | 1 | | 43410 | 1 | 3/8" | |
| | 7/32 | 31411 | 1 | | 43411 | 1 | 3/8" | |
| | 1/4 | 31412 | 1 | | 43412 | 1 | 3/8" | |
| | 5/16 | 31413 | 1 | | 43413 | 1 | 3/8" | |
| | 3/8 | 31414 | 1 | | 43414 | 1 | 3/8" | |
| | 5/16 | - | - | - | 43913 | 1 | 1/2" | |
| | 3/8 | - | - | - | 43914 | 1 | 1/2" | |
| | 1/2 | 31416 | 1 | | 43916 | 1 | 1/2" | |
| | 9/16 | 31417 | 1 | | 43917 | 1 | 1/2" | |
| | 5/8 | 31418 | 1 | | 43918 | 1 | 1/2" | |
| 3/4 | 31419 | 1 | | 43919 | 1 | 1/2" | | |
| Inch | 6" Long | | 150mm Long | | | | | |
| | 1/8 | 31607 | 1 | | 43807 | 1 | 3/8" | |
| | 5/32 | 31609 | 1 | | 43809 | 1 | 3/8" | |
| | 3/16 | 31610 | 1 | | 43810 | 1 | 3/8" | |
| | 7/32 | 31611 | 1 | | 43811 | 1 | 3/8" | |
| | 1/4 | 31612 | 1 | | 43812 | 1 | 3/8" | |
| | 5/16 | 31613 | 1 | | 43813 | 1 | 3/8" | |
| | 3/8 | 31614 | 1 | | 43814 | 1 | 3/8" | |
| | 1/2 | 31616 | 1 | | 43716 | 1 | 1/2" | |
| | 9/16 | 31617 | 1 | | 43717 | 1 | 1/2" | |
| | 5/8 | 31618 | 1 | | 43718 | 1 | 1/2" | |
| | 3/4 | 31619 | 1 | | 43719 | 1 | 1/2" | |



| Singles | SIZE | PART# | QTY | LIST EA | PART# | QTY | DRIVE | LIST EA |
|---------------|----------------|-------|-------------------|---------|-------|------|-------|---------|
| Metric | 2" Long | | 50mm Long | | | | | |
| | 3.0 | 31456 | 1 | | 43456 | 1 | 3/8" | |
| | 4.0 | 31460 | 1 | | 43460 | 1 | 3/8" | |
| | 5.0 | 31464 | 1 | | 43464 | 1 | 3/8" | |
| | 6 | 31468 | 1 | | 43468 | 1 | 3/8" | |
| | 7 | 31470 | 1 | | 43470 | 1 | 3/8" | |
| | 8 | 31472 | 1 | | 43472 | 1 | 3/8" | |
| | 9 | 31474 | 1 | | 43474 | 1 | 3/8" | |
| | 10 | 31476 | 1 | | 43476 | 1 | 3/8" | |
| | 12 | 31480 | 1 | | 43480 | 1 | 3/8" | |
| | 12 | - | - | - | 43980 | 1 | 1/2" | |
| | 14 | 31484 | 1 | | 43984 | 1 | 1/2" | |
| | 17 | 31486 | 1 | | 43986 | 1 | 1/2" | |
| 19 | 31488 | 1 | | 43988 | 1 | 1/2" | | |
| Metric | 6" Long | | 150mm Long | | | | | |
| | 3.0 | 31656 | 1 | | 43856 | 1 | 3/8" | |
| | 4.0 | 31660 | 1 | | 43860 | 1 | 3/8" | |
| | 5.0 | 31664 | 1 | | 43864 | 1 | 3/8" | |
| | 6 | 31668 | 1 | | 43868 | 1 | 3/8" | |
| | 7 | 31670 | 1 | | 43870 | 1 | 3/8" | |
| | 8 | 31672 | 1 | | 43872 | 1 | 3/8" | |
| | 9 | 31674 | 1 | | 43874 | 1 | 3/8" | |
| | 10 | 31676 | 1 | | 43876 | 1 | 3/8" | |
| | 12 | 31680 | 1 | | 43780 | 1 | 1/2" | |
| | 14 | 31684 | 1 | | 43784 | 1 | 1/2" | |
| | 17 | 31686 | 1 | | 43786 | 1 | 1/2" | |
| | 19 | 31688 | 1 | | 43788 | 1 | 1/2" | |

Star Tip Socket Bits

- ProGuard™ Finish -

- Fits all Star and TORX® brand screws
- Bits fit any standard six point socket
- Bits are suitable for use with impact sockets
- Chamfered tool tips eliminate burrs and help tools seat in screw head
- Sharp corners transfer more torque to the screw and reduce stripping
- Precision machined for ease of use and superior fit

ProGuard™ finish delivers superior corrosion protection



Star Tips



Molded Black Case



Clamshell Package

| Sets | PART# | MODEL# | PCS | BIT LENGTH | DESCRIPTION | PACKED IN | CONTENTS | QTY | LIST |
|------|-------|-------------|-----|------------|----------------|-----------------------|--|-----|------|
| Star | 44038 | PHTX10/S-2 | 10 | 2"/50mm | Sockets & Bits | Transparent Clamshell | T10, T15, T20, T25, T27, T30, T40, T45, T50, T55 | 1 | |
| | 44037 | PHTX13/S-2 | 13 | 2"/50mm | Sockets & Bits | Transparent Clamshell | T8, T10, T15, T20, T25, T27, T30, T40, T45, T47, T50, T55, T60 | 1 | |
| | 44699 | PHTX9/S-6 | 9 | 6"/150mm | Sockets & Bits | Transparent Clamshell | T8, T9, T10, T15, T20, T25, T27, T30, T40 | 1 | |
| | 44632 | PHTX8/S-6 | 8 | 6"/150mm | Sockets & Bits | Transparent Clamshell | T8, T10, T15, T20, T25, T27, T30, T40 | 1 | |
| | 32038 | PHTX10-2 | 10 | 2"/50mm | Bits Only | Transparent Clamshell | T10, T15, T20, T25, T27, T30, T40, T45, T50, T55 | 1 | |
| | 32037 | PHTX13-2 | 13 | 2"/50mm | Bits Only | Transparent Clamshell | T8, T10, T15, T20, T25, T27, T30, T40, T45, T47, T50, T55, T60 | 1 | |
| | 34099 | PHTX9-6 | 9 | 6"/150mm | Bits Only | Transparent Clamshell | T8, T9, T10, T15, T20, T25, T27, T30, T40 | 1 | |
| | 34032 | PHTX8-6 | 8 | 6"/150mm | Bits Only | Transparent Clamshell | T8, T10, T15, T20, T25, T27, T30, T40 | 1 | |
| | 31038 | PHTX10/S-2C | 10 | 2"/50mm | Sockets & Bits | Molded Black Case | T10, T15, T20, T25, T27, T30, T40, T45, T50, T55 | 1 | |
| | 30799 | PHTX9/S-6C | 9 | 6"/150mm | Sockets & Bits | Molded Black Case | T8, T9, T10, T15, T20, T25, T27, T30, T40 | 1 | |
| | 31037 | PHTX13/S-2C | 13 | 2"/50mm | Sockets & Bits | Molded Black Case | T8, T10, T15, T20, T25, T27, T30, T40, T45, T47, T50, T55, T60 | 1 | |
| | 22489 | PHTX9L-2C | 9 | 2"/50mm | Bits Only | Molded Black Case | T15, T20, T25, T30, T40, T45, T50, T55, T60 | 1 | |
| | 22491 | PHTX9-2C | 9 | 2"/50mm | Bits Only | Molded Black Case | T8, T9, T10, T15, T20, T25, T27, T30, T40 | 1 | |
| | 22437 | PHTX13-2C | 13 | 2"/50mm | Bits Only | Molded Black Case | T8, T10, T15, T20, T25, T27, T30, T40, T45, T47, T50, T55, T60 | 1 | |

| Singles | SIZE | BIT STOCK | BIT ONLY | | | | SOCKET AND BIT | | | | SIZE | BIT STOCK | BIT ONLY | | | | SOCKET AND BIT | | | | |
|---------|---------|-----------|-----------|-------|---------|------|----------------|-----|-------|-------|------|-----------|----------|-------|-----|------|----------------|-------|-------|-------|------|
| | | | PART# | QTY | LIST | EA | PART# | QTY | DRIVE | LIST | | | EA | PART# | QTY | LIST | EA | PART# | QTY | DRIVE | LIST |
| Star | 2" Long | | 50mm Long | | 6" Long | | 150mm Long | | | | | | | | | | | | | | |
| | T7 | 3mm | 32007 | 1 | 44007 | 1 | 1/4" | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | T8 | 3mm | 32008 | 1 | 44008 | 1 | 1/4" | T8 | 3mm | 34008 | 1 | 44608 | 1 | 1/4" | T9 | 3mm | 34009 | 1 | 44609 | 1 | 1/4" |
| | T9 | 3mm | 32009 | 1 | 44009 | 1 | 1/4" | T10 | 3mm | 34010 | 1 | 44610 | 1 | 1/4" | T15 | 3mm | 34015 | 1 | 44615 | 1 | 1/4" |
| | T10 | 3mm | 32010 | 1 | 44010 | 1 | 1/4" | T20 | 4mm | 34020 | 1 | 44620 | 1 | 1/4" | T25 | 4mm | 34025 | 1 | 44625 | 1 | 1/4" |
| | T15 | 3mm | 32015 | 1 | 44015 | 1 | 1/4" | T27 | 5mm | 34027 | 1 | 44627 | 1 | 1/4" | T30 | 5mm | 34030 | 1 | 44630 | 1 | 1/4" |
| | T20 | 4mm | 32020 | 1 | 44020 | 1 | 1/4" | T40 | 6mm | 34040 | 1 | 44640 | 1 | 3/8" | - | - | - | - | - | - | - |
| | T25 | 4mm | 32025 | 1 | 44025 | 1 | 1/4" | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | T27 | 5mm | 32027 | 1 | 44027 | 1 | 1/4" | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | T30 | 5mm | 32030 | 1 | 44030 | 1 | 1/4" | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | T40 | 6mm | 32040 | 1 | 44240 | 1 | 3/8" | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | T45 | 7mm | 32045 | 1 | 44245 | 1 | 3/8" | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | T47 | 8mm | 32047 | 1 | 44247 | 1 | 3/8" | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | T50 | 9mm | 32050 | 1 | 44250 | 1 | 3/8" | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| T55 | 10mm | 32055 | 1 | 44255 | 1 | 3/8" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| T60 | 12mm | 32060 | 1 | 44260 | 1 | 1/2" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| T70 | 17mm | 32070 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| T80 | 19mm | 32080 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| T90* | 22mm | 32090* | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| T100* | 22mm | 32000* | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

*32090 (T90) & 32000 (T100) are 2.5" long.

See Next Page for our Star & Metric Hex Socket Bit combo set

*TORX® is a registered trademark of Acument Intellectual Properties, LLC

Socket Bit Combo Set - ProGuard™ Finish -

- Bits fit any standard six point socket
- Bits are suitable for use with impact sockets
- Chamfered tool tips eliminate burrs and help tools seat in screw head
- Perfect set for truck and large equipment maintenance



Star & Metric Hex

| PART# | MODEL# | PCS | BIT LENGTH | DESCRIPTION | PACKED IN | CONTENTS | QTY | LIST |
|-------|-----------|-----|------------|-------------|-------------------|----------------------------------|-----|------|
| 23290 | PHTXH7-2C | 7 | 2"/50mm | Bits Only | Molded Black Case | T45, T50, T55 & 12, 14, 17, 19mm | 1 | |

Hextenders

- Extend tool reach
- Allows blades to be coupled with Hex or Star tools
- Extra length can be achieved using multiple Hextender/Blade combinations
- ProGuard™ finish delivers superior corrosion protection



| Singles | SIZE | INCH | MM | DIA | PART# | QTY | LIST EA |
|-------------|---------------|------|------|-------|-------|-------|---------|
| Inch | .050 | 0.50 | 13 | 0.25 | 22302 | 1 | |
| | 1/16 | 0.50 | 13 | 0.25 | 22303 | 1 | |
| | 5/64 | 0.50 | 13 | 0.25 | 22304 | 1 | |
| | 3/32 | 0.50 | 13 | 0.25 | 22305 | 1 | |
| | 7/64 | 0.50 | 13 | 0.25 | 22306 | 1 | |
| | 1/8 | 0.50 | 13 | 0.31 | 22307 | 1 | |
| | 9/64 | 0.50 | 13 | 0.31 | 22308 | 1 | |
| | 5/32 | 0.75 | 19 | 0.37 | 22309 | 1 | |
| | 3/16 | 0.75 | 19 | 0.37 | 22310 | 1 | |
| | 7/32 | 0.75 | 19 | 0.50 | 22311 | 1 | |
| | 1/4 | 0.75 | 19 | 0.50 | 22312 | 1 | |
| | 5/16 | 1.0 | 25 | 0.75 | 22313 | 1 | |
| | 3/8 | 1.0 | 25 | 0.75 | 22314 | 1 | |
| | Metric | 1.5 | 0.50 | 13 | 0.25 | 22350 | 1 |
| 2.0 | | 0.50 | 13 | 0.25 | 22352 | 1 | |
| 2.5 | | 0.50 | 13 | 0.25 | 22354 | 1 | |
| 3.0 | | 0.50 | 13 | 0.31 | 22356 | 1 | |
| 4.0 | | 0.75 | 19 | 0.37 | 22360 | 1 | |
| 5.0 | | 0.75 | 19 | 0.37 | 22364 | 1 | |
| 6 | | 0.75 | 19 | 0.50 | 22368 | 1 | |
| 8 | | 1.0 | 25 | 0.75 | 22372 | 1 | |
| 10 | 1.0 | 25 | 0.75 | 22376 | 1 | | |



Did you know...?

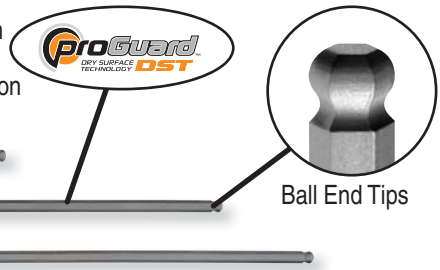
You can extend tool reach with Bondhus' exclusive Hextender which saves time because any like sized blades can be coupled together to create a tool length for every need.

Ball End Blades

- ProGuard™ Finish -

- Ball End inserts into a screw at a 25° angle
- Ball End saves time by quickly funneling tool into screw
- Superior Ball End strength and working angle
- Works in hard to reach places
- Ideal for use in socket wrenches, power tools or with a Hextender for added reach
- Available in Extra Long lengths

ProGuard™ finish delivers superior corrosion protection



| Singles | SIZE | INCH | MM | PART# | QTY | LIST EA |
|---------|------|------|----|-------|-----|---------|
|---------|------|------|----|-------|-----|---------|

| Standard Length | | | | | | |
|-----------------|------|------|-----|------|---|--|
| Inch | .050 | 3.4 | 86 | 0102 | 1 | |
| | 1/16 | 3.5 | 89 | 0103 | 1 | |
| | 5/64 | 3.6 | 93 | 0104 | 1 | |
| | 3/32 | 3.8 | 96 | 0105 | 1 | |
| | 7/64 | 4.3 | 109 | 0106 | 1 | |
| | 1/8 | 4.5 | 115 | 0107 | 1 | |
| | 9/64 | 4.8 | 121 | 0108 | 1 | |
| | 5/32 | 5.1 | 129 | 0109 | 1 | |
| | 3/16 | 5.5 | 139 | 0110 | 1 | |
| | 7/32 | 5.9 | 151 | 0111 | 1 | |
| | 1/4 | 6.7 | 170 | 0112 | 1 | |
| | 5/16 | 7.3 | 186 | 0113 | 1 | |
| | 3/8 | 8.2 | 208 | 0114 | 1 | |
| | 7/16 | 9.1 | 232 | 0115 | 1 | |
| | 1/2 | 10.1 | 255 | 0116 | 1 | |
| | 9/16 | 10.9 | 277 | 0117 | 1 | |
| | 5/8 | 11.8 | 299 | 0118 | 1 | |
| | 3/4 | 13.5 | 344 | 0119 | 1 | |



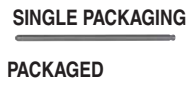
| Singles | SIZE | INCH | MM | PART# | QTY | LIST EA |
|---------|------|------|----|-------|-----|---------|
|---------|------|------|----|-------|-----|---------|

| Standard Length | | | | | | |
|-----------------|-----|------|-----|------|---|--|
| Metric | 1.5 | 3.6 | 91 | 0150 | 1 | |
| | 2.0 | 3.8 | 98 | 0152 | 1 | |
| | 2.5 | 4.2 | 107 | 0154 | 1 | |
| | 3.0 | 4.6 | 118 | 0156 | 1 | |
| | 3.5 | 4.8 | 123 | 0158 | 1 | |
| | 4.0 | 5.2 | 133 | 0160 | 1 | |
| | 4.5 | 5.5 | 140 | 0162 | 1 | |
| | 5.0 | 5.8 | 148 | 0164 | 1 | |
| | 5.5 | 6.1 | 155 | 0166 | 1 | |
| | 6 | 6.7 | 170 | 0168 | 1 | |
| | 7 | 7.3 | 184 | 0170 | 1 | |
| | 8 | 7.8 | 199 | 0172 | 1 | |
| | 9 | 8.4 | 214 | 0174 | 1 | |
| | 10 | 9.0 | 229 | 0176 | 1 | |
| | 11 | 9.6 | 245 | 0178 | 1 | |
| | 12 | 10.5 | 267 | 0180 | 1 | |
| | 14 | 12.5 | 318 | 0184 | 1 | |
| | 17 | 13.6 | 346 | 0186 | 1 | |
| | 19 | 14.5 | 368 | 0188 | 1 | |



| Singles | SIZE | INCH | MM | PART# | QTY | LIST EA |
|---------|------|------|----|-------|-----|---------|
|---------|------|------|----|-------|-----|---------|

| Long | | | | | | |
|------|------|------|-----|------|---|--|
| Inch | - | - | - | - | - | |
| | - | - | - | - | - | |
| | 5/64 | 5.3 | 135 | 0404 | 1 | |
| | 3/32 | 5.8 | 148 | 0405 | 1 | |
| | 7/64 | 7.3 | 186 | 0406 | 1 | |
| | 1/8 | 7.8 | 199 | 0407 | 1 | |
| | 9/64 | 8.4 | 214 | 0408 | 1 | |
| | 5/32 | 8.9 | 227 | 0409 | 1 | |
| | 3/16 | 9.7 | 246 | 0410 | 1 | |
| | 7/32 | 10.2 | 259 | 0411 | 1 | |
| | 1/4 | 10.7 | 270 | 0412 | 1 | |
| | 5/16 | 11.3 | 286 | 0413 | 1 | |
| | 3/8 | 11.7 | 297 | 0414 | 1 | |
| | - | - | - | - | - | |
| | - | - | - | - | - | |



| Singles | SIZE | INCH | MM | PART# | QTY | LIST EA |
|---------|------|------|----|-------|-----|---------|
|---------|------|------|----|-------|-----|---------|

| Extra Long | | | | | | |
|------------|------|------|-----|------|---|--|
| Inch | .050 | 12.0 | 305 | 3602 | 1 | |
| | 1/16 | 12.0 | 305 | 3603 | 1 | |
| | 5/64 | 12.0 | 305 | 3604 | 1 | |
| | 3/32 | 12.0 | 305 | 3605 | 1 | |
| | 7/64 | 12.0 | 305 | 3606 | 1 | |
| | 1/8 | 12.0 | 305 | 3607 | 1 | |
| | 9/64 | 12.0 | 305 | 3608 | 1 | |
| | 5/32 | 12.0 | 305 | 3609 | 1 | |
| | 3/16 | 12.0 | 305 | 3610 | 1 | |
| | 7/32 | 12.0 | 305 | 3611 | 1 | |
| | 1/4 | 12.0 | 305 | 3612 | 1 | |
| | 5/16 | 12.0 | 305 | 3613 | 1 | |
| | 3/8 | 12.0 | 305 | 3614 | 1 | |
| | 7/16 | 12.0 | 305 | 3615 | 1 | |
| | 1/2 | 12.0 | 305 | 3616 | 1 | |

| Long | | | | | | |
|--------|-----|------|-----|------|---|--|
| Metric | - | - | - | - | - | |
| | 2.0 | 5.0 | 128 | 0452 | 1 | |
| | 2.5 | 5.8 | 148 | 0454 | 1 | |
| | 3.0 | 7.6 | 193 | 0456 | 1 | |
| | 4.0 | 8.5 | 217 | 0460 | 1 | |
| | 5.0 | 9.6 | 243 | 0464 | 1 | |
| | 6 | 10.4 | 263 | 0468 | 1 | |
| | 8 | 11.1 | 281 | 0472 | 1 | |
| | 10 | 11.9 | 303 | 0476 | 1 | |

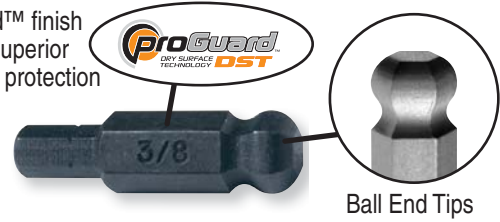
| Extra Long | | | | | | |
|------------|-----|------|-----|------|---|--|
| Metric | 1.5 | 12.0 | 305 | 3650 | 1 | |
| | 2.0 | 12.0 | 305 | 3652 | 1 | |
| | 2.5 | 12.0 | 305 | 3654 | 1 | |
| | 3.0 | 12.0 | 305 | 3656 | 1 | |
| | 4.0 | 12.0 | 305 | 3660 | 1 | |
| | 5.0 | 12.0 | 305 | 3664 | 1 | |
| | 6 | 12.0 | 305 | 3668 | 1 | |
| | 8 | 12.0 | 305 | 3672 | 1 | |
| | 10 | 12.0 | 305 | 3676 | 1 | |

Ball End Insert Bits

- ProGuard™ Finish -

- Ball End inserts into a screw at a 25° angle
- Ball End saves time by quickly funneling tool into screw
- Superior Ball End strength and working angle
- Works in hard to reach places

ProGuard™ finish delivers superior corrosion protection



Ball End Tips

| Sets | PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|---------------|-------|--------|-----|---|-----|------|
| Inch | 11036 | BIX12 | 12 | 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2" | 1 | |
| Metric | 11099 | BIX9M | 9 | 2, 2.5, 3, 4, 5, 6, 8, 10, 12mm | 1 | |

SINGLE PACKAGING

| Singles | SIZE | INCH | MM | PART# | QTY | LIST EA |
|-------------|------|------|----|-------|-----|---------|
| Inch | 5/64 | 1.0 | 25 | 11004 | 10 | |
| | 3/32 | 1.0 | 25 | 11005 | 10 | |
| | 7/64 | 1.0 | 25 | 11006 | 10 | |
| | 1/8 | 1.0 | 25 | 11007 | 10 | |
| | 9/64 | 1.0 | 25 | 11008 | 10 | |
| | 5/32 | 1.0 | 25 | 11009 | 10 | |
| | 3/16 | 1.0 | 25 | 11010 | 10 | |
| | 7/32 | 1.0 | 25 | 11011 | 10 | |
| | 1/4 | 1.0 | 25 | 11012 | 10 | |
| | 5/16 | 1.5 | 38 | 11013 | 1 | |
| | 3/8 | 1.5 | 38 | 11014 | 1 | |
| | 1/2 | 1.5 | 38 | 11016 | 1 | |

SINGLE PACKAGING

| Singles | SIZE | INCH | MM | PART# | QTY | LIST EA |
|---------------|------|------|----|-------|-----|---------|
| Metric | 2.0 | 1.0 | 25 | 11052 | 10 | |
| | 2.5 | 1.0 | 25 | 11054 | 10 | |
| | 3.0 | 1.0 | 25 | 11056 | 10 | |
| | 4.0 | 1.0 | 25 | 11060 | 10 | |
| | 5.0 | 1.0 | 25 | 11064 | 10 | |
| | 6 | 1.0 | 25 | 11068 | 10 | |
| | 8 | 1.5 | 38 | 11072 | 1 | |
| | 10 | 1.5 | 38 | 11076 | 1 | |
| | 12 | 1.5 | 38 | 11080 | 1 | |

Ball End Power Bits

- ProGuard™ Finish -

- Ball End inserts into a screw at a 25° angle
- Ball End saves time by quickly funneling tool into screw
- Superior Ball End strength and working angle
- Works in hard to reach places

ProGuard™ finish delivers superior corrosion protection



Ball End Tips

| Sets | PART# | MODEL# | PCS | CONTENTS | QTY | LIST |
|---------------|-------|--------|-----|---|-----|------|
| Inch | 10836 | BHX12 | 12 | 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2" | 1 | |
| Metric | 10899 | BHX9M | 9 | 2, 2.5, 3, 4, 5, 6, 8, 10, 12mm | 1 | |

SINGLE PACKAGING

| Singles | SIZE | INCH | MM | PART# | QTY | LIST EA |
|-------------|------|------|----|-------|-----|---------|
| Inch | 5/64 | 3.0 | 76 | 10804 | 10 | |
| | 3/32 | 3.0 | 76 | 10805 | 10 | |
| | 7/64 | 3.0 | 76 | 10806 | 10 | |
| | 1/8 | 3.0 | 76 | 10807 | 10 | |
| | 9/64 | 3.0 | 76 | 10808 | 10 | |
| | 5/32 | 3.0 | 76 | 10809 | 10 | |
| | 3/16 | 3.0 | 76 | 10810 | 10 | |
| | 7/32 | 3.0 | 76 | 10811 | 10 | |
| | 1/4 | 3.0 | 76 | 10812 | 10 | |
| | 5/16 | 3.0 | 76 | 10813 | 1 | |
| | 3/8 | 3.0 | 76 | 10814 | 1 | |
| | 1/2 | 3.0 | 76 | 10816 | 1 | |

SINGLE PACKAGING

| Singles | SIZE | INCH | MM | PART# | QTY | LIST EA |
|---------------|------|------|----|-------|-----|---------|
| Metric | 2.0 | 3.0 | 76 | 10852 | 10 | |
| | 2.5 | 3.0 | 76 | 10854 | 10 | |
| | 3.0 | 3.0 | 76 | 10856 | 10 | |
| | 4.0 | 3.0 | 76 | 10860 | 10 | |
| | 5.0 | 3.0 | 76 | 10864 | 10 | |
| | 6 | 3.0 | 76 | 10868 | 10 | |
| | 8 | 3.0 | 76 | 10872 | 1 | |
| | 10 | 3.0 | 76 | 10876 | 1 | |
| | 12 | 3.0 | 76 | 10880 | 1 | |

Part Number Index

| PART# | PG# | LIST EA | PART# | PG# | LIST EA | PART# | PG# | LIST EA | PART# | PG# | LIST EA | PART# | PG# | LIST EA | PART# | PG# | LIST EA |
|-------|-----|---------|-------|-----|---------|-------|-----|---------|-------|-----|---------|-------|-----|---------|-------|-----|---------|
| 0102 | 47 | | 3668 | 47 | | 10752 | 35 | | 10986 | 7 | | 12129 | 11 | | 12262 | 13 | |
| 0103 | 47 | | 3672 | 47 | | 10754 | 35 | | 10988 | 7 | | 12132 | 10 | | 12264 | 13 | |
| 0104 | 47 | | 3676 | 47 | | 10756 | 35 | | 10989 | 7 | | 12136 | 10 | | 12266 | 13 | |
| 0105 | 47 | | 3702 | 36 | | 10760 | 35 | | 10991 | 7 | | 12137 | 10 | | 12268 | 13 | |
| 0106 | 47 | | 3703 | 36 | | 10764 | 35 | | 10992 | 7 | | 12138 | 10 | | 12270 | 13 | |
| 0107 | 47 | | 3704 | 36 | | 10768 | 35 | | 10993 | 7 | | 12145 | 10 | | 12272 | 13 | |
| 0108 | 47 | | 3705 | 36 | | 10772 | 35 | | 10995 | 7 | | 12146 | 12 | | 12274 | 13 | |
| 0109 | 47 | | 3706 | 36 | | 10776 | 35 | | 10999 | 7 | | 12147 | 13 | | 12276 | 13 | |
| 0110 | 47 | | 3707 | 36 | | 10804 | 48 | | 11004 | 48 | | 12148 | 13 | | 12278 | 13 | |
| 0111 | 47 | | 3708 | 36 | | 10805 | 48 | | 11005 | 48 | | 12149 | 13 | | 12280 | 13 | |
| 0112 | 47 | | 3709 | 36 | | 10806 | 48 | | 11006 | 48 | | 12150 | 13 | | 12284 | 13 | |
| 0113 | 47 | | 3710 | 36 | | 10807 | 48 | | 11007 | 48 | | 12152 | 13 | | 12286 | 13 | |
| 0114 | 47 | | 3711 | 36 | | 10808 | 48 | | 11008 | 48 | | 12154 | 13 | | 12288 | 13 | |
| 0115 | 47 | | 3712 | 36 | | 10809 | 48 | | 11009 | 48 | | 12156 | 13 | | 12291 | 13 | |
| 0116 | 47 | | 3713 | 36 | | 10810 | 48 | | 11010 | 48 | | 12158 | 13 | | 12292 | 12 | |
| 0117 | 47 | | 3714 | 36 | | 10811 | 48 | | 11011 | 48 | | 12160 | 13 | | 12293 | 13 | |
| 0118 | 47 | | 3715 | 36 | | 10812 | 48 | | 11012 | 48 | | 12162 | 13 | | 12295 | 13 | |
| 0119 | 47 | | 3716 | 36 | | 10813 | 48 | | 11013 | 48 | | 12164 | 13 | | 12296 | 13 | |
| 0150 | 47 | | 3750 | 36 | | 10814 | 48 | | 11014 | 48 | | 12166 | 13 | | 12298 | 13 | |
| 0152 | 47 | | 3752 | 36 | | 10816 | 48 | | 11016 | 48 | | 12168 | 13 | | 12299 | 12 | |
| 0154 | 47 | | 3754 | 36 | | 10836 | 48 | | 11036 | 48 | | 12170 | 13 | | 12333 | 10 | |
| 0156 | 47 | | 3756 | 36 | | 10852 | 48 | | 11052 | 48 | | 12172 | 13 | | 12335 | 10 | |
| 0158 | 47 | | 3760 | 36 | | 10854 | 48 | | 11054 | 48 | | 12174 | 13 | | 12338 | 10 | |
| 0160 | 47 | | 3764 | 36 | | 10856 | 48 | | 11056 | 48 | | 12176 | 13 | | 12339 | 10 | |
| 0162 | 47 | | 3768 | 36 | | 10860 | 48 | | 11060 | 48 | | 12178 | 13 | | 12341 | 10 | |
| 0164 | 47 | | 3772 | 36 | | 10864 | 48 | | 11064 | 48 | | 12180 | 13 | | 12342 | 10 | |
| 0166 | 47 | | 3776 | 36 | | 10868 | 48 | | 11068 | 48 | | 12184 | 13 | | 12343 | 10 | |
| 0168 | 47 | | 10602 | 35 | | 10872 | 48 | | 11072 | 48 | | 12186 | 13 | | 12344 | 10 | |
| 0170 | 47 | | 10603 | 35 | | 10876 | 48 | | 11076 | 48 | | 12188 | 13 | | 12345 | 10 | |
| 0172 | 47 | | 10604 | 35 | | 10880 | 48 | | 11080 | 48 | | 12191 | 13 | | 12347 | 10 | |
| 0174 | 47 | | 10605 | 35 | | 10899 | 48 | | 11099 | 48 | | 12192 | 12 | | 12349 | 12 | |
| 0176 | 47 | | 10606 | 35 | | 10902 | 6 | | 11331 | 22 | | 12193 | 13 | | 12351 | 10 | |
| 0178 | 47 | | 10607 | 35 | | 10903 | 6 | | 11332 | 22 | | 12195 | 12 | | 12391 | 12 | |
| 0180 | 47 | | 10608 | 35 | | 10904 | 6 | | 11346 | 22 | | 12196 | 13 | | 12392 | 12 | |
| 0184 | 47 | | 10609 | 35 | | 10905 | 6 | | 11600 | 40 | | 12198 | 13 | | 12393 | 12 | |
| 0186 | 47 | | 10610 | 35 | | 10906 | 6 | | 11601 | 40 | | 12199 | 12 | | 12394 | 12 | |
| 0188 | 47 | | 10611 | 35 | | 10907 | 6 | | 11602 | 40 | | 12200 | 11 | | 12396 | 12 | |
| 0404 | 47 | | 10612 | 35 | | 10908 | 6 | | 11603 | 40 | | 12201 | 11 | | 12397 | 12 | |
| 0405 | 47 | | 10613 | 35 | | 10909 | 6 | | 11604 | 40 | | 12202 | 11 | | 12399 | 12 | |
| 0406 | 47 | | 10614 | 35 | | 10910 | 6 | | 11640 | 40 | | 12203 | 11 | | 12522 | 25 | |
| 0407 | 47 | | 10615 | 35 | | 10911 | 6 | | 11706 | 22 | | 12204 | 11 | | 12531 | 27 | |
| 0408 | 47 | | 10616 | 35 | | 10912 | 6 | | 11707 | 22 | | 12205 | 11 | | 12533 | 25 | |
| 0409 | 47 | | 10632 | 35 | | 10913 | 6 | | 11708 | 22 | | 12206 | 11 | | 12540 | 26 | |
| 0410 | 47 | | 10633 | 35 | | 10914 | 6 | | 11709 | 22 | | 12207 | 11 | | 12543 | 26 | |
| 0411 | 47 | | 10637 | 35 | | 10915 | 6 | | 11710 | 22 | | 12208 | 11 | | 12544 | 25 | |
| 0412 | 47 | | 10645 | 35 | | 10916 | 6 | | 11715 | 22 | | 12209 | 11 | | 12545 | 26 | |
| 0413 | 47 | | 10649 | 35 | | 10917 | 6 | | 11720 | 22 | | 12210 | 11 | | 12547 | 26 | |
| 0414 | 47 | | 10650 | 35 | | 10918 | 6 | | 11725 | 22 | | 12211 | 11 | | 12550 | 25 | |
| 0452 | 47 | | 10652 | 35 | | 10919 | 6 | | 11727 | 22 | | 12212 | 11 | | 12585 | 25 | |
| 0454 | 47 | | 10654 | 35 | | 10920 | 6 | | 11730 | 22 | | 12213 | 11 | | 12587 | 25 | |
| 0456 | 47 | | 10656 | 35 | | 10921 | 6 | | 11740 | 22 | | 12214 | 11 | | 12589 | 25 | |
| 0460 | 47 | | 10658 | 35 | | 10932 | 6 | | 11745 | 22 | | 12215 | 11 | | 12591 | 25 | |
| 0464 | 47 | | 10660 | 35 | | 10933 | 6 | | 11750 | 22 | | 12216 | 11 | | 12592 | 25 | |
| 0468 | 47 | | 10662 | 35 | | 10935 | 6 | | 11755 | 22 | | 12217 | 11 | | 12594 | 27 | |
| 0472 | 47 | | 10664 | 35 | | 10936 | 6 | | 12100 | 11 | | 12218 | 11 | | 12595 | 25 | |
| 0476 | 47 | | 10666 | 35 | | 10937 | 6 | | 12101 | 11 | | 12219 | 11 | | 12632 | 26 | |
| 3602 | 47 | | 10668 | 35 | | 10938 | 6 | | 12102 | 11 | | 12220 | 11 | | 12634 | 26 | |
| 3603 | 47 | | 10670 | 35 | | 10945 | 6 | | 12103 | 11 | | 12221 | 11 | | 12636 | 26 | |
| 3604 | 47 | | 10672 | 35 | | 10946 | 7 | | 12104 | 11 | | 12225 | 11 | | 12638 | 26 | |
| 3605 | 47 | | 10674 | 35 | | 10949 | 7 | | 12105 | 11 | | 12229 | 11 | | 12699 | 21 | |
| 3606 | 47 | | 10676 | 35 | | 10950 | 7 | | 12106 | 11 | | 12231 | 11 | | 12706 | 39 | |
| 3607 | 47 | | 10686 | 35 | | 10952 | 7 | | 12107 | 11 | | 12232 | 10 | | 12707 | 39 | |
| 3608 | 47 | | 10687 | 35 | | 10954 | 7 | | 12108 | 11 | | 12233 | 11 | | 12708 | 39 | |
| 3609 | 47 | | 10699 | 35 | | 10956 | 7 | | 12109 | 11 | | 12236 | 10 | | 12709 | 39 | |
| 3610 | 47 | | 10704 | 35 | | 10958 | 7 | | 12110 | 11 | | 12237 | 10 | | 12710 | 39 | |
| 3611 | 47 | | 10705 | 35 | | 10960 | 7 | | 12111 | 11 | | 12238 | 10 | | 12715 | 39 | |
| 3612 | 47 | | 10706 | 35 | | 10962 | 7 | | 12112 | 11 | | 12245 | 10 | | 12720 | 39 | |
| 3613 | 47 | | 10707 | 35 | | 10964 | 7 | | 12113 | 11 | | 12246 | 12 | | 12725 | 39 | |
| 3614 | 47 | | 10708 | 35 | | 10966 | 7 | | 12114 | 11 | | 12247 | 13 | | 12727 | 39 | |
| 3615 | 47 | | 10709 | 35 | | 10968 | 7 | | 12115 | 11 | | 12248 | 13 | | 12730 | 39 | |
| 3616 | 47 | | 10710 | 35 | | 10970 | 7 | | 12116 | 11 | | 12249 | 13 | | 12740 | 39 | |
| 3650 | 47 | | 10711 | 35 | | 10972 | 7 | | 12117 | 11 | | 12250 | 13 | | 12745 | 39 | |
| 3652 | 47 | | 10712 | 35 | | 10974 | 7 | | 12118 | 11 | | 12252 | 13 | | 12750 | 39 | |
| 3654 | 47 | | 10713 | 35 | | 10976 | 7 | | 12119 | 11 | | 12254 | 13 | | 12755 | 39 | |
| 3656 | 47 | | 10714 | 35 | | 10978 | 7 | | 12120 | 11 | | 12256 | 13 | | 12894 | 25 | |
| 3660 | 47 | | 10733 | 35 | | 10980 | 7 | | 12121 | 11 | | 12258 | 13 | | 12897 | 25 | |
| 3664 | 47 | | 10737 | 35 | | 10984 | 7 | | 12125 | 11 | | 12260 | 13 | | 12902 | 6 | |

Part Number Index

| PART# | PG# | LIST EA | PART# | PG# | LIST EA | PART# | PG# | LIST EA | PART# | PG# | LIST EA | PART# | PG# | LIST EA | PART# | PG# | LIST EA |
|-------|-----|---------|-------|-----|---------|-------|-----|---------|-------|-----|---------|-------|-----|---------|-------|-----|---------|
| 12903 | 6 | | 13360 | 32 | | 13954 | 13 | | 15360 | 32 | | 15866 | 13 | | 16100 | 17 | |
| 12904 | 6 | | 13364 | 32 | | 13956 | 13 | | 15364 | 32 | | 15868 | 13 | | 16101 | 17 | |
| 12905 | 6 | | 13368 | 32 | | 13958 | 13 | | 15368 | 32 | | 15870 | 13 | | 16102 | 17 | |
| 12906 | 6 | | 13372 | 32 | | 13960 | 13 | | 15372 | 32 | | 15872 | 13 | | 16103 | 17 | |
| 12907 | 6 | | 13376 | 32 | | 13962 | 13 | | 15376 | 32 | | 15874 | 13 | | 16104 | 17 | |
| 12908 | 6 | | 13387 | 31 | | 13964 | 13 | | 15387 | 31 | | 15876 | 13 | | 16105 | 17 | |
| 12909 | 6 | | 13389 | 31 | | 13966 | 13 | | 15389 | 31 | | 15878 | 13 | | 16106 | 17 | |
| 12910 | 6 | | 13390 | 31 | | 13968 | 13 | | 15390 | 31 | | 15880 | 13 | | 16107 | 17 | |
| 12911 | 6 | | 13532 | 39 | | 13970 | 13 | | 15702 | 6 | | 15884 | 13 | | 16108 | 17 | |
| 12912 | 6 | | 13546 | 39 | | 13972 | 13 | | 15703 | 6 | | 15886 | 13 | | 16109 | 17 | |
| 12913 | 6 | | 13800 | 11 | | 13974 | 13 | | 15704 | 6 | | 15888 | 13 | | 16110 | 17 | |
| 12914 | 6 | | 13801 | 11 | | 13976 | 13 | | 15705 | 6 | | 15900 | 11 | | 16111 | 17 | |
| 12915 | 6 | | 13802 | 11 | | 13978 | 13 | | 15706 | 6 | | 15901 | 11 | | 16112 | 17 | |
| 12916 | 6 | | 13803 | 11 | | 13980 | 13 | | 15707 | 6 | | 15902 | 11 | | 16113 | 17 | |
| 12917 | 6 | | 13804 | 11 | | 13984 | 13 | | 15708 | 6 | | 15903 | 11 | | 16114 | 17 | |
| 12918 | 6 | | 13805 | 11 | | 13986 | 13 | | 15709 | 6 | | 15904 | 11 | | 16115 | 17 | |
| 12919 | 6 | | 13806 | 11 | | 13988 | 13 | | 15710 | 6 | | 15905 | 11 | | 16116 | 17 | |
| 12949 | 7 | | 13807 | 11 | | 14126 | 5 | | 15711 | 6 | | 15906 | 11 | | 16117 | 17 | |
| 12950 | 7 | | 13808 | 11 | | 14128 | 5 | | 15712 | 6 | | 15907 | 11 | | 16118 | 17 | |
| 12952 | 7 | | 13809 | 11 | | 14130 | 5 | | 15713 | 6 | | 15908 | 11 | | 16119 | 17 | |
| 12954 | 7 | | 13810 | 11 | | 14132 | 5 | | 15714 | 6 | | 15909 | 11 | | 16136 | 17 | |
| 12956 | 7 | | 13811 | 11 | | 14138 | 5 | | 15715 | 6 | | 15910 | 11 | | 16137 | 17 | |
| 12958 | 7 | | 13812 | 11 | | 14187 | 5 | | 15716 | 6 | | 15911 | 11 | | 16138 | 17 | |
| 12960 | 7 | | 13813 | 11 | | 14189 | 5 | | 15717 | 6 | | 15912 | 11 | | 16200 | 17 | |
| 12962 | 7 | | 13814 | 11 | | 14532 | 27 | | 15718 | 6 | | 15913 | 11 | | 16201 | 17 | |
| 12964 | 7 | | 13815 | 11 | | 14534 | 27 | | 15719 | 6 | | 15914 | 11 | | 16202 | 17 | |
| 12966 | 7 | | 13816 | 11 | | 14585 | 27 | | 15749 | 7 | | 15915 | 11 | | 16203 | 17 | |
| 12968 | 7 | | 13817 | 11 | | 14587 | 27 | | 15750 | 7 | | 15916 | 11 | | 16204 | 17 | |
| 12970 | 7 | | 13818 | 11 | | 14589 | 27 | | 15752 | 7 | | 15917 | 11 | | 16205 | 17 | |
| 12972 | 7 | | 13819 | 11 | | 14590 | 27 | | 15754 | 7 | | 15918 | 11 | | 16206 | 17 | |
| 12974 | 7 | | 13847 | 13 | | 14591 | 27 | | 15756 | 7 | | 15919 | 11 | | 16207 | 17 | |
| 12976 | 7 | | 13848 | 13 | | 14592 | 27 | | 15758 | 7 | | 15947 | 13 | | 16208 | 17 | |
| 12978 | 7 | | 13849 | 13 | | 14595 | 27 | | 15760 | 7 | | 15948 | 13 | | 16209 | 17 | |
| 12980 | 7 | | 13850 | 13 | | 15205 | 32 | | 15762 | 7 | | 15949 | 13 | | 16210 | 17 | |
| 12984 | 7 | | 13852 | 13 | | 15206 | 32 | | 15764 | 7 | | 15950 | 13 | | 16211 | 17 | |
| 12986 | 7 | | 13854 | 13 | | 15207 | 32 | | 15766 | 7 | | 15952 | 13 | | 16212 | 17 | |
| 12988 | 7 | | 13856 | 13 | | 15208 | 32 | | 15768 | 7 | | 15954 | 13 | | 16213 | 17 | |
| 13109 | 29 | | 13858 | 13 | | 15209 | 32 | | 15770 | 7 | | 15956 | 13 | | 16214 | 17 | |
| 13110 | 29 | | 13860 | 13 | | 15210 | 32 | | 15772 | 7 | | 15958 | 13 | | 16215 | 17 | |
| 13111 | 29 | | 13862 | 13 | | 15211 | 32 | | 15774 | 7 | | 15960 | 13 | | 16216 | 17 | |
| 13112 | 29 | | 13864 | 13 | | 15212 | 32 | | 15776 | 7 | | 15962 | 13 | | 16217 | 17 | |
| 13113 | 29 | | 13866 | 13 | | 15213 | 32 | | 15778 | 7 | | 15964 | 13 | | 16218 | 17 | |
| 13114 | 29 | | 13868 | 13 | | 15214 | 32 | | 15780 | 7 | | 15966 | 13 | | 16219 | 17 | |
| 13138 | 29 | | 13870 | 13 | | 15216 | 32 | | 15784 | 7 | | 15968 | 13 | | 16236 | 17 | |
| 13146 | 29 | | 13872 | 13 | | 15232 | 31 | | 15786 | 7 | | 15970 | 13 | | 16237 | 17 | |
| 13148 | 29 | | 13874 | 13 | | 15238 | 31 | | 15788 | 7 | | 15972 | 13 | | 16238 | 17 | |
| 13160 | 29 | | 13876 | 13 | | 15248 | 31 | | 15800 | 11 | | 15974 | 13 | | 16246 | 17 | |
| 13164 | 29 | | 13878 | 13 | | 15252 | 32 | | 15801 | 11 | | 15976 | 13 | | 16247 | 17 | |
| 13168 | 29 | | 13880 | 13 | | 15254 | 32 | | 15802 | 11 | | 15978 | 13 | | 16248 | 17 | |
| 13172 | 29 | | 13884 | 13 | | 15256 | 32 | | 15803 | 11 | | 15980 | 13 | | 16249 | 17 | |
| 13176 | 29 | | 13886 | 13 | | 15260 | 32 | | 15804 | 11 | | 15984 | 13 | | 16250 | 17 | |
| 13187 | 29 | | 13888 | 13 | | 15264 | 32 | | 15805 | 11 | | 15986 | 13 | | 16252 | 17 | |
| 13189 | 29 | | 13900 | 11 | | 15268 | 32 | | 15806 | 11 | | 15988 | 13 | | 16254 | 17 | |
| 13190 | 29 | | 13901 | 11 | | 15270 | 32 | | 15807 | 11 | | 16002 | 6 | | 16256 | 17 | |
| 13205 | 29 | | 13902 | 11 | | 15272 | 32 | | 15808 | 11 | | 16003 | 6 | | 16258 | 17 | |
| 13206 | 29 | | 13903 | 11 | | 15274 | 32 | | 15809 | 11 | | 16004 | 6 | | 16260 | 17 | |
| 13207 | 29 | | 13904 | 11 | | 15276 | 32 | | 15810 | 11 | | 16005 | 6 | | 16262 | 17 | |
| 13208 | 29 | | 13905 | 11 | | 15287 | 31 | | 15811 | 11 | | 16006 | 6 | | 16264 | 17 | |
| 13252 | 29 | | 13906 | 11 | | 15289 | 31 | | 15812 | 11 | | 16007 | 6 | | 16266 | 17 | |
| 13254 | 29 | | 13907 | 11 | | 15290 | 31 | | 15813 | 11 | | 16008 | 6 | | 16268 | 17 | |
| 13256 | 29 | | 13908 | 11 | | 15305 | 32 | | 15814 | 11 | | 16009 | 6 | | 16270 | 17 | |
| 13305 | 32 | | 13909 | 11 | | 15306 | 32 | | 15815 | 11 | | 16010 | 6 | | 16272 | 17 | |
| 13306 | 32 | | 13910 | 11 | | 15307 | 32 | | 15816 | 11 | | 16011 | 6 | | 16274 | 17 | |
| 13307 | 32 | | 13911 | 11 | | 15308 | 32 | | 15817 | 11 | | 16012 | 6 | | 16276 | 17 | |
| 13308 | 32 | | 13912 | 11 | | 15309 | 32 | | 15818 | 11 | | 16013 | 6 | | 16278 | 17 | |
| 13309 | 32 | | 13913 | 11 | | 15310 | 32 | | 15819 | 11 | | 16014 | 6 | | 16280 | 17 | |
| 13310 | 32 | | 13914 | 11 | | 15311 | 32 | | 15847 | 13 | | 16037 | 6 | | 16284 | 17 | |
| 13311 | 32 | | 13915 | 11 | | 15312 | 32 | | 15848 | 13 | | 16050 | 7 | | 16286 | 17 | |
| 13312 | 32 | | 13916 | 11 | | 15313 | 32 | | 15849 | 13 | | 16052 | 7 | | 16288 | 17 | |
| 13313 | 32 | | 13917 | 11 | | 15314 | 32 | | 15850 | 13 | | 16054 | 7 | | 16292 | 17 | |
| 13314 | 32 | | 13918 | 11 | | 15316 | 32 | | 15852 | 13 | | 16056 | 7 | | 16299 | 17 | |
| 13332 | 31 | | 13919 | 11 | | 15332 | 31 | | 15854 | 13 | | 16060 | 7 | | 16456 | 32 | |
| 13338 | 31 | | 13947 | 13 | | 15338 | 31 | | 15856 | 13 | | 16064 | 7 | | 16460 | 32 | |
| 13348 | 31 | | 13948 | 13 | | 15348 | 31 | | 15858 | 13 | | 16068 | 7 | | 16464 | 32 | |
| 13352 | 32 | | 13949 | 13 | | 15352 | 32 | | 15860 | 13 | | 16072 | 7 | | 16468 | 32 | |
| 13354 | 32 | | 13950 | 13 | | 15354 | 32 | | 15862 | 13 | | 16076 | 7 | | 16472 | 32 | |
| 13356 | 32 | | 13952 | 13 | | 15356 | 32 | | 15864 | 13 | | 16099 | 7 | | 16502 | 9 | |

Part Number Index

| PART# | PG# | LIST EA | PART# | PG# | LIST EA | PART# | PG# | LIST EA | PART# | PG# | LIST EA | PART# | PG# | LIST EA | PART# | PG# | LIST EA |
|-------|-----|---------|-------|-----|---------|-------|-----|---------|-------|-----|---------|-------|-----|---------|-------|-----|---------|
| 16503 | 9 | | 16768 | 16 | | 17935 | 29 | | 26107 | 17 | | 26714 | 16 | | 28056 | 18 | |
| 16504 | 9 | | 16772 | 16 | | 17936 | 29 | | 26108 | 17 | | 26749 | 16 | | 28058 | 18 | |
| 16505 | 9 | | 16776 | 16 | | 18032 | 40 | | 26109 | 17 | | 26750 | 16 | | 28060 | 18 | |
| 16506 | 9 | | 16792 | 16 | | 18036 | 40 | | 26110 | 17 | | 26752 | 16 | | 28062 | 18 | |
| 16507 | 9 | | 16799 | 16 | | 18037 | 40 | | 26111 | 17 | | 26754 | 16 | | 28064 | 18 | |
| 16508 | 9 | | 16902 | 15 | | 18038 | 40 | | 26112 | 17 | | 26756 | 16 | | 28066 | 18 | |
| 16509 | 9 | | 16903 | 15 | | 18045 | 40 | | 26113 | 17 | | 26760 | 16 | | 28068 | 18 | |
| 16510 | 9 | | 16904 | 15 | | 18046 | 40 | | 26114 | 17 | | 26764 | 16 | | 28070 | 18 | |
| 16511 | 9 | | 16905 | 15 | | 18099 | 40 | | 26200 | 17 | | 26768 | 16 | | 28072 | 18 | |
| 16512 | 9 | | 16906 | 15 | | 20196 | 5 | | 26201 | 17 | | 26772 | 16 | | 28074 | 18 | |
| 16513 | 9 | | 16907 | 15 | | 20199 | 5 | | 26202 | 17 | | 26776 | 16 | | 28076 | 18 | |
| 16514 | 9 | | 16908 | 15 | | 20399 | 5 | | 26203 | 17 | | 26902 | 15 | | 28078 | 18 | |
| 16537 | 9 | | 16909 | 15 | | 20499 | 5 | | 26204 | 17 | | 26903 | 15 | | 28080 | 18 | |
| 16538 | 9 | | 16910 | 15 | | 20599 | 5 | | 26205 | 17 | | 26904 | 15 | | 28100 | 19 | |
| 16549 | 9 | | 16911 | 15 | | 20899 | 5 | | 26206 | 17 | | 26905 | 15 | | 28101 | 19 | |
| 16550 | 9 | | 16912 | 15 | | 22199 | 5 | | 26207 | 17 | | 26906 | 15 | | 28102 | 19 | |
| 16552 | 9 | | 16913 | 15 | | 22302 | 46 | | 26208 | 17 | | 26907 | 15 | | 28103 | 19 | |
| 16554 | 9 | | 16914 | 15 | | 22303 | 46 | | 26209 | 17 | | 26908 | 15 | | 28104 | 19 | |
| 16556 | 9 | | 16915 | 15 | | 22304 | 46 | | 26210 | 17 | | 26909 | 15 | | 28105 | 19 | |
| 16560 | 9 | | 16916 | 15 | | 22305 | 46 | | 26211 | 17 | | 26910 | 15 | | 28106 | 19 | |
| 16564 | 9 | | 16917 | 15 | | 22306 | 46 | | 26212 | 17 | | 26911 | 15 | | 28107 | 19 | |
| 16568 | 9 | | 16918 | 15 | | 22307 | 46 | | 26213 | 17 | | 26912 | 15 | | 28108 | 19 | |
| 16572 | 9 | | 16919 | 15 | | 22308 | 46 | | 26214 | 17 | | 26913 | 15 | | 28109 | 19 | |
| 16576 | 9 | | 16936 | 15 | | 22309 | 46 | | 26247 | 17 | | 26914 | 15 | | 28110 | 19 | |
| 16592 | 9 | | 16937 | 15 | | 22310 | 46 | | 26248 | 17 | | 27049 | 15 | | 28111 | 19 | |
| 16599 | 9 | | 16938 | 15 | | 22311 | 46 | | 26249 | 17 | | 27050 | 15 | | 28112 | 19 | |
| 16602 | 37 | | 17046 | 15 | | 22312 | 46 | | 26250 | 17 | | 27052 | 15 | | 28113 | 19 | |
| 16603 | 37 | | 17049 | 15 | | 22313 | 46 | | 26252 | 17 | | 27054 | 15 | | 28114 | 19 | |
| 16604 | 37 | | 17050 | 15 | | 22314 | 46 | | 26254 | 17 | | 27056 | 15 | | 28200 | 19 | |
| 16605 | 37 | | 17052 | 15 | | 22350 | 46 | | 26256 | 17 | | 27058 | 15 | | 28201 | 19 | |
| 16606 | 37 | | 17054 | 15 | | 22352 | 46 | | 26258 | 17 | | 27060 | 15 | | 28202 | 19 | |
| 16607 | 37 | | 17056 | 15 | | 22354 | 46 | | 26260 | 17 | | 27062 | 15 | | 28203 | 19 | |
| 16608 | 37 | | 17058 | 15 | | 22356 | 46 | | 26262 | 17 | | 27064 | 15 | | 28204 | 19 | |
| 16609 | 37 | | 17060 | 15 | | 22360 | 46 | | 26264 | 17 | | 27066 | 15 | | 28205 | 19 | |
| 16610 | 37 | | 17062 | 15 | | 22364 | 46 | | 26266 | 17 | | 27068 | 15 | | 28206 | 19 | |
| 16611 | 37 | | 17064 | 15 | | 22368 | 46 | | 26268 | 17 | | 27070 | 15 | | 28207 | 19 | |
| 16612 | 37 | | 17066 | 15 | | 22372 | 46 | | 26270 | 17 | | 27072 | 15 | | 28208 | 19 | |
| 16613 | 37 | | 17068 | 15 | | 22376 | 46 | | 26272 | 17 | | 27074 | 15 | | 28209 | 19 | |
| 16614 | 37 | | 17070 | 15 | | 22437 | 45 | | 26274 | 17 | | 27076 | 15 | | 28210 | 19 | |
| 16615 | 37 | | 17072 | 15 | | 22489 | 45 | | 26276 | 17 | | 27078 | 15 | | 28211 | 19 | |
| 16616 | 37 | | 17074 | 15 | | 22491 | 45 | | 26278 | 17 | | 27080 | 15 | | 28212 | 19 | |
| 16632 | 37 | | 17076 | 15 | | 22704 | 10 | | 26280 | 17 | | 27147 | 17 | | 28213 | 19 | |
| 16637 | 37 | | 17078 | 15 | | 22705 | 10 | | 26502 | 9 | | 27148 | 17 | | 28214 | 19 | |
| 16649 | 37 | | 17080 | 15 | | 22706 | 10 | | 26503 | 9 | | 27149 | 17 | | 28247 | 19 | |
| 16650 | 37 | | 17084 | 15 | | 22707 | 10 | | 26504 | 9 | | 27150 | 17 | | 28248 | 19 | |
| 16652 | 37 | | 17086 | 15 | | 22708 | 10 | | 26505 | 9 | | 27152 | 17 | | 28249 | 19 | |
| 16654 | 37 | | 17088 | 15 | | 22709 | 10 | | 26506 | 9 | | 27154 | 17 | | 28250 | 19 | |
| 16656 | 37 | | 17092 | 15 | | 22710 | 10 | | 26507 | 9 | | 27156 | 17 | | 28252 | 19 | |
| 16660 | 37 | | 17095 | 15 | | 22711 | 10 | | 26508 | 9 | | 27158 | 17 | | 28254 | 19 | |
| 16664 | 37 | | 17099 | 15 | | 22712 | 10 | | 26509 | 9 | | 27160 | 17 | | 28256 | 19 | |
| 16668 | 37 | | 17146 | 17 | | 22713 | 10 | | 26510 | 9 | | 27162 | 17 | | 28258 | 19 | |
| 16672 | 37 | | 17147 | 17 | | 22714 | 10 | | 26511 | 9 | | 27164 | 17 | | 28260 | 19 | |
| 16676 | 37 | | 17148 | 17 | | 22789 | 10 | | 26512 | 9 | | 27166 | 17 | | 28262 | 19 | |
| 16686 | 37 | | 17149 | 17 | | 23246 | 43 | | 26513 | 9 | | 27168 | 17 | | 28264 | 19 | |
| 16699 | 37 | | 17150 | 17 | | 23290 | 46 | | 26514 | 9 | | 27170 | 17 | | 28266 | 19 | |
| 16702 | 16 | | 17152 | 17 | | 23296 | 43 | | 26549 | 9 | | 27172 | 17 | | 28268 | 19 | |
| 16703 | 16 | | 17154 | 17 | | 23298 | 43 | | 26550 | 9 | | 27174 | 17 | | 28270 | 19 | |
| 16704 | 16 | | 17156 | 17 | | 23299 | 43 | | 26552 | 9 | | 27176 | 17 | | 28272 | 19 | |
| 16705 | 16 | | 17158 | 17 | | 23445 | 44 | | 26554 | 9 | | 27178 | 17 | | 28274 | 19 | |
| 16706 | 16 | | 17160 | 17 | | 23487 | 44 | | 26556 | 9 | | 27180 | 17 | | 28276 | 19 | |
| 16707 | 16 | | 17162 | 17 | | 25404 | 10 | | 26560 | 9 | | 27902 | 18 | | 28278 | 19 | |
| 16708 | 16 | | 17164 | 17 | | 25405 | 10 | | 26564 | 9 | | 27903 | 18 | | 28280 | 19 | |
| 16709 | 16 | | 17166 | 17 | | 25406 | 10 | | 26568 | 9 | | 27904 | 18 | | 29147 | 19 | |
| 16710 | 16 | | 17168 | 17 | | 25407 | 10 | | 26572 | 9 | | 27905 | 18 | | 29148 | 19 | |
| 16711 | 16 | | 17170 | 17 | | 25408 | 10 | | 26576 | 9 | | 27906 | 18 | | 29149 | 19 | |
| 16712 | 16 | | 17172 | 17 | | 25409 | 10 | | 26702 | 16 | | 27907 | 18 | | 29150 | 19 | |
| 16713 | 16 | | 17174 | 17 | | 25410 | 10 | | 26703 | 16 | | 27908 | 18 | | 29152 | 19 | |
| 16714 | 16 | | 17176 | 17 | | 25411 | 10 | | 26704 | 16 | | 27909 | 18 | | 29154 | 19 | |
| 16737 | 16 | | 17178 | 17 | | 25412 | 10 | | 26705 | 16 | | 27910 | 18 | | 29156 | 19 | |
| 16738 | 16 | | 17180 | 17 | | 25445 | 10 | | 26706 | 16 | | 27911 | 18 | | 29158 | 19 | |
| 16749 | 16 | | 17184 | 17 | | 26100 | 17 | | 26707 | 16 | | 27912 | 18 | | 29160 | 19 | |
| 16750 | 16 | | 17186 | 17 | | 26101 | 17 | | 26708 | 16 | | 27913 | 18 | | 29162 | 19 | |
| 16752 | 16 | | 17188 | 17 | | 26102 | 17 | | 26709 | 16 | | 27914 | 18 | | 29164 | 19 | |
| 16754 | 16 | | 17192 | 17 | | 26103 | 17 | | 26710 | 16 | | 28049 | 18 | | 29166 | 19 | |
| 16756 | 16 | | 17195 | 17 | | 26104 | 17 | | 26711 | 16 | | 28050 | 18 | | 29168 | 19 | |
| 16760 | 16 | | 17199 | 17 | | 26105 | 17 | | 26712 | 16 | | 28052 | 18 | | 29170 | 19 | |
| 16764 | 16 | | 17934 | 29 | | 26106 | 17 | | 26713 | 16 | | 28054 | 18 | | 29172 | 19 | |

Part Number Index






| PART# | PG# | LIST EA | PART# | PG# | LIST EA | PART# | PG# | LIST EA | PART# | PG# | LIST EA | PART# | PG# | LIST EA | PART# | PG# | LIST EA |
|-------|-----|---------|-------|--------|---------|-------|--------|---------|-------|-----|---------|-------|-----|---------|-------|-----|---------|
| 29174 | 19 | | 31734 | 21 | | 32809 | 21 | | 33613 | 43 | | 34555 | 38 | | 38114 | 19 | |
| 29176 | 19 | | 31737 | 21 | | 32810 | 21 | | 33614 | 43 | | 34560 | 38 | | 38115 | 19 | |
| 29178 | 19 | | 31740 | 21 | | 32815 | 21 | | 33616 | 43 | | 34706 | 23 | | 38116 | 19 | |
| 29180 | 19 | | 31745 | 21 | | 32820 | 21 | | 33617 | 43 | | 34707 | 23 | | 38117 | 19 | |
| 30298 | 43 | | 31750 | 21 | | 32825 | 21 | | 33618 | 43 | | 34708 | 23 | | 38118 | 19 | |
| 30299 | 43 | | 31755 | 21 | | 32827 | 21 | | 33619 | 43 | | 34709 | 23 | | 38119 | 19 | |
| 30445 | 44 | | 31760 | 21 | | 32830 | 21 | | 33645 | 43 | | 34710 | 23 | | 38136 | 19 | |
| 30487 | 44 | | 31806 | 21 | | 32840 | 21 | | 33646 | 43 | | 34715 | 23 | | 38137 | 19 | |
| 30645 | 43 | | 31807 | 21 | | 32845 | 21 | | 33656 | 43 | | 34720 | 23 | | 38138 | 19 | |
| 30646 | 43 | | 31808 | 21 | | 32850 | 21 | | 33660 | 43 | | 34745 | 23 | | 38200 | 19 | |
| 30799 | 45 | | 31809 | 21 | | 32855 | 21 | | 33664 | 43 | | 35006 | 23 | | 38201 | 19 | |
| 30845 | 44 | | 31810 | 21 | | 32860 | 21 | | 33668 | 43 | | 35007 | 23 | | 38202 | 19 | |
| 30887 | 44 | | 31815 | 21 | | 33009 | 33 | | 33670 | 43 | | 35008 | 23 | | 38203 | 19 | |
| 31037 | 45 | | 31820 | 21 | | 33010 | 33 | | 33672 | 43 | | 35009 | 23 | | 38204 | 19 | |
| 31038 | 45 | | 31825 | 21 | | 33015 | 33 | | 33674 | 43 | | 35010 | 23 | | 38205 | 19 | |
| 31407 | 44 | | 31827 | 21 | | 33020 | 33 | | 33676 | 43 | | 35015 | 23 | | 38206 | 19 | |
| 31409 | 44 | | 31830 | 21 | | 33025 | 33 | | 33680 | 43 | | 35020 | 23 | | 38207 | 19 | |
| 31410 | 44 | | 31832 | 21 | | 33027 | 33 | | 33684 | 43 | | 35045 | 23 | | 38208 | 19 | |
| 31411 | 44 | | 31834 | 21 | | 33030 | 33 | | 33686 | 43 | | 37902 | 18 | | 38209 | 19 | |
| 31412 | 44 | | 31840 | 21 | | 33034 | 33 | | 33688 | 43 | | 37903 | 18 | | 38210 | 19 | |
| 31413 | 44 | | 31845 | 21 | | 33040 | 33 | | 33806 | 39 | | 37904 | 18 | | 38211 | 19 | |
| 31414 | 44 | | 31850 | 21 | | 33045 | 33 | | 33807 | 39 | | 37905 | 18 | | 38212 | 19 | |
| 31416 | 44 | | 31855 | 21 | | 33050 | 33 | | 33808 | 39 | | 37906 | 18 | | 38213 | 19 | |
| 31417 | 44 | | 31860 | 21 | | 33055 | 33 | | 33809 | 39 | | 37907 | 18 | | 38214 | 19 | |
| 31418 | 44 | | 32000 | 45 | | 33200 | 43 | | 33810 | 39 | | 37908 | 18 | | 38215 | 19 | |
| 31419 | 44 | | 32007 | 45 | | 33207 | 43 | | 33815 | 39 | | 37909 | 18 | | 38216 | 19 | |
| 31445 | 44 | | 32008 | 45 | | 33209 | 43 | | 33820 | 39 | | 37910 | 18 | | 38217 | 19 | |
| 31456 | 44 | | 32009 | 45 | | 33210 | 43 | | 33825 | 39 | | 37911 | 18 | | 38218 | 19 | |
| 31460 | 44 | | 32010 | 45 | | 33211 | 43 | | 33827 | 39 | | 37912 | 18 | | 38219 | 19 | |
| 31464 | 44 | | 32015 | 45 | | 33212 | 43 | | 33830 | 39 | | 37913 | 18 | | 38236 | 19 | |
| 31468 | 44 | | 32020 | 45 | | 33213 | 43 | | 33832 | 39 | | 37914 | 18 | | 38237 | 19 | |
| 31470 | 44 | | 32025 | 45 | | 33214 | 43 | | 33834 | 39 | | 37915 | 18 | | 38238 | 19 | |
| 31472 | 44 | | 32027 | 45 | | 33216 | 43 | | 33840 | 39 | | 37916 | 18 | | 38246 | 19 | |
| 31474 | 44 | | 32030 | 45 | | 33217 | 43 | | 33906 | 23 | | 37917 | 18 | | 38247 | 19 | |
| 31476 | 44 | | 32037 | 45 | | 33218 | 43 | | 33907 | 23 | | 37918 | 18 | | 38248 | 19 | |
| 31480 | 44 | | 32038 | 45 | | 33219 | 43 | | 33908 | 23 | | 37919 | 18 | | 38249 | 19 | |
| 31484 | 44 | | 32040 | 45 | | 33220 | 43 | | 33909 | 23 | | 37936 | 18 | | 38250 | 19 | |
| 31486 | 44 | | 32045 | 45 | | 33221 | 43 | | 33910 | 23 | | 37937 | 18 | | 38252 | 19 | |
| 31487 | 44 | | 32047 | 45 | | 33223 | 43 | | 33915 | 23 | | 37938 | 18 | | 38254 | 19 | |
| 31488 | 44 | | 32050 | 45 | | 33225 | 43 | | 33920 | 23 | | 38046 | 18 | | 38256 | 19 | |
| 31607 | 44 | | 32055 | 45 | | 33229 | 43 | | 33945 | 23 | | 38049 | 18 | | 38258 | 19 | |
| 31609 | 44 | | 32060 | 45 | | 33231 | 43 | | 34008 | 45 | | 38050 | 18 | | 38260 | 19 | |
| 31610 | 44 | | 32070 | 45 | | 33233 | 43 | | 34009 | 45 | | 38052 | 18 | | 38262 | 19 | |
| 31611 | 44 | | 32080 | 45 | | 33256 | 43 | | 34010 | 45 | | 38054 | 18 | | 38264 | 19 | |
| 31612 | 44 | | 32090 | 45 | | 33260 | 43 | | 34015 | 45 | | 38056 | 18 | | 38266 | 19 | |
| 31613 | 44 | | 32406 | 14, 22 | | 33264 | 43 | | 34020 | 45 | | 38058 | 18 | | 38268 | 19 | |
| 31614 | 44 | | 32407 | 14, 22 | | 33268 | 43 | | 34025 | 45 | | 38060 | 18 | | 38270 | 19 | |
| 31616 | 44 | | 32408 | 14, 22 | | 33270 | 43 | | 34027 | 45 | | 38062 | 18 | | 38272 | 19 | |
| 31617 | 44 | | 32409 | 14, 22 | | 33272 | 43 | | 34030 | 45 | | 38064 | 18 | | 38274 | 19 | |
| 31618 | 44 | | 32410 | 14, 22 | | 33274 | 43 | | 34032 | 45 | | 38066 | 18 | | 38276 | 19 | |
| 31619 | 44 | | 32415 | 14, 22 | | 33276 | 43 | | 34040 | 45 | | 38068 | 18 | | 38278 | 19 | |
| 31645 | 44 | | 32420 | 14, 22 | | 33280 | 43 | | 34099 | 45 | | 38070 | 18 | | 38280 | 19 | |
| 31656 | 44 | | 32425 | 14, 22 | | 33284 | 43 | | 34405 | 23 | | 38072 | 18 | | 38284 | 19 | |
| 31660 | 44 | | 32427 | 14, 22 | | 33286 | 43 | | 34406 | 23 | | 38074 | 18 | | 38286 | 19 | |
| 31664 | 44 | | 32430 | 14, 22 | | 33288 | 43 | | 34407 | 23 | | 38076 | 18 | | 38288 | 19 | |
| 31668 | 44 | | 32432 | 14, 22 | | 33291 | 43 | | 34408 | 23 | | 38078 | 18 | | 38292 | 19 | |
| 31670 | 44 | | 32434 | 14, 22 | | 33293 | 43 | | 34409 | 23 | | 38080 | 18 | | 38299 | 19 | |
| 31672 | 44 | | 32440 | 14, 22 | | 33295 | 43 | | 34410 | 23 | | 38084 | 18 | | 38409 | 41 | |
| 31674 | 44 | | 32705 | 21 | | 33297 | 43 | | 34415 | 23 | | 38086 | 18 | | 38410 | 41 | |
| 31676 | 44 | | 32706 | 21 | | 33298 | 43 | | 34420 | 23 | | 38088 | 18 | | 38411 | 41 | |
| 31680 | 44 | | 32707 | 21 | | 33299 | 43 | | 34445 | 23 | | 38092 | 18 | | 38412 | 41 | |
| 31684 | 44 | | 32708 | 21 | | 33406 | 14, 22 | | 34505 | 38 | | 38095 | 18 | | 38413 | 41 | |
| 31686 | 44 | | 32709 | 21 | | 33407 | 14, 22 | | 34506 | 38 | | 38099 | 18 | | 38414 | 41 | |
| 31687 | 44 | | 32710 | 21 | | 33408 | 14, 22 | | 34507 | 38 | | 38100 | 19 | | 38415 | 41 | |
| 31688 | 44 | | 32715 | 21 | | 33409 | 14, 22 | | 34508 | 38 | | 38101 | 19 | | 38416 | 41 | |
| 31705 | 21 | | 32720 | 21 | | 33410 | 14, 22 | | 34509 | 38 | | 38102 | 19 | | 38432 | 41 | |
| 31706 | 21 | | 32725 | 21 | | 33415 | 14, 22 | | 34510 | 38 | | 38103 | 19 | | 38435 | 41 | |
| 31707 | 21 | | 32727 | 21 | | 33420 | 14, 22 | | 34515 | 38 | | 38104 | 19 | | 38460 | 41 | |
| 31708 | 21 | | 32730 | 21 | | 33425 | 14, 22 | | 34520 | 38 | | 38105 | 19 | | 38464 | 41 | |
| 31709 | 21 | | 32740 | 21 | | 33427 | 14, 22 | | 34525 | 38 | | 38106 | 19 | | 38466 | 41 | |
| 31710 | 21 | | 32745 | 21 | | 33430 | 14, 22 | | 34527 | 38 | | 38107 | 19 | | 38468 | 41 | |
| 31715 | 21 | | 32750 | 21 | | 33440 | 14, 22 | | 34530 | 38 | | 38108 | 19 | | 38470 | 41 | |
| 31720 | 21 | | 32755 | 21 | | 33607 | 43 | | 34532 | 38 | | 38109 | 19 | | 38472 | 41 | |
| 31725 | 21 | | 32760 | 21 | | 33609 | 43 | | 34534 | 38 | | 38110 | 19 | | 38474 | 41 | |
| 31727 | 21 | | 32806 | 21 | | 33610 | 43 | | 34540 | 38 | | 38111 | 19 | | 38476 | 41 | |
| 31730 | 21 | | 32807 | 21 | | 33611 | 43 | | 34545 | 38 | | 38112 | 19 | | 38478 | 41 | |
| 31732 | 21 | | 32808 | 21 | | 33612 | 43 | | 34550 | 38 | | 38113 | 19 | | 38480 | 41 | |

Part Number Index

| PART# | PG# | LIST EA | PART# | PG# | LIST EA | PART# | PG# | LIST EA | PART# | PG# | LIST EA | PART# | PG# | LIST EA | PART# | PG# | LIST EA |
|-------|-----|---------|-------|-----|---------|-------|-----|---------|-------|-----|---------|-------|-----|---------|--------|-----|---------|
| 38482 | 41 | | 40672 | 35 | | 43784 | 44 | | 48305 | 14 | | 72827 | 21 | | 75703 | 8 | |
| 38602 | 37 | | 40676 | 35 | | 43786 | 44 | | 48307 | 14 | | 72830 | 21 | | 75704 | 8 | |
| 38603 | 37 | | 43207 | 43 | | 43788 | 44 | | 48309 | 14 | | 72840 | 21 | | 75705 | 8 | |
| 38604 | 37 | | 43209 | 43 | | 43807 | 44 | | 48310 | 14 | | 72845 | 21 | | 75706 | 8 | |
| 38605 | 37 | | 43210 | 43 | | 43809 | 44 | | 48311 | 14 | | 72850 | 21 | | 75707 | 8 | |
| 38606 | 37 | | 43211 | 43 | | 43810 | 44 | | 48312 | 14 | | 72855 | 21 | | 75708 | 8 | |
| 38607 | 37 | | 43212 | 43 | | 43811 | 44 | | 48313 | 14 | | 72860 | 21 | | 75709 | 8 | |
| 38608 | 37 | | 43213 | 43 | | 43812 | 44 | | 48314 | 14 | | 74009 | 33 | | 75710 | 8 | |
| 38609 | 37 | | 43214 | 43 | | 43813 | 44 | | 48332 | 14 | | 74010 | 33 | | 75711 | 8 | |
| 38610 | 37 | | 43216 | 43 | | 43814 | 44 | | 48354 | 14 | | 74015 | 33 | | 75712 | 8 | |
| 38611 | 37 | | 43217 | 43 | | 43845 | 44 | | 48356 | 14 | | 74020 | 33 | | 75713 | 8 | |
| 38612 | 37 | | 43218 | 43 | | 43856 | 44 | | 48360 | 14 | | 74025 | 33 | | 75714 | 8 | |
| 38613 | 37 | | 43219 | 43 | | 43860 | 44 | | 48364 | 14 | | 74027 | 33 | | 75749 | 8 | |
| 38614 | 37 | | 43256 | 43 | | 43864 | 44 | | 48368 | 14 | | 74030 | 33 | | 75750 | 8 | |
| 38615 | 37 | | 43260 | 43 | | 43868 | 44 | | 48372 | 14 | | 74034 | 33 | | 75752 | 8 | |
| 38616 | 37 | | 43264 | 43 | | 43870 | 44 | | 48376 | 14 | | 74040 | 33 | | 75754 | 8 | |
| 38632 | 37 | | 43268 | 43 | | 43872 | 44 | | 48386 | 14 | | 74045 | 33 | | 75756 | 8 | |
| 38637 | 37 | | 43270 | 43 | | 43874 | 44 | | 48409 | 41 | | 74050 | 33 | | 75760 | 8 | |
| 38649 | 37 | | 43272 | 43 | | 43876 | 44 | | 48410 | 41 | | 74055 | 33 | | 75764 | 8 | |
| 38650 | 37 | | 43274 | 43 | | 43887 | 44 | | 48411 | 41 | | 74602 | 36 | | 75768 | 8 | |
| 38652 | 37 | | 43276 | 43 | | 43913 | 44 | | 48412 | 41 | | 74603 | 36 | | 75772 | 8 | |
| 38654 | 37 | | 43280 | 43 | | 43914 | 44 | | 48413 | 41 | | 74604 | 36 | | 75776 | 8 | |
| 38656 | 37 | | 43284 | 43 | | 43916 | 44 | | 48414 | 41 | | 74605 | 36 | | 75902 | 8 | |
| 38660 | 37 | | 43286 | 43 | | 43917 | 44 | | 48415 | 41 | | 74606 | 36 | | 75903 | 8 | |
| 38664 | 37 | | 43288 | 43 | | 43918 | 44 | | 48416 | 41 | | 74607 | 36 | | 75904 | 8 | |
| 38668 | 37 | | 43298 | 43 | | 43919 | 44 | | 48432 | 41 | | 74608 | 36 | | 75905 | 8 | |
| 38672 | 37 | | 43299 | 43 | | 43980 | 44 | | 48435 | 41 | | 74609 | 36 | | 75906 | 8 | |
| 38676 | 37 | | 43407 | 44 | | 43984 | 44 | | 48445 | 41 | | 74610 | 36 | | 75907 | 8 | |
| 38686 | 37 | | 43409 | 44 | | 43986 | 44 | | 48460 | 41 | | 74611 | 36 | | 75908 | 8 | |
| 38699 | 37 | | 43410 | 44 | | 43988 | 44 | | 48464 | 41 | | 74612 | 36 | | 75909 | 8 | |
| 39146 | 19 | | 43411 | 44 | | 44007 | 45 | | 48466 | 41 | | 74613 | 36 | | 75910 | 8 | |
| 39147 | 19 | | 43412 | 44 | | 44008 | 45 | | 48468 | 41 | | 74614 | 36 | | 75911 | 8 | |
| 39148 | 19 | | 43413 | 44 | | 44009 | 45 | | 48470 | 41 | | 74632 | 36 | | 75912 | 8 | |
| 39149 | 19 | | 43414 | 44 | | 44010 | 45 | | 48472 | 41 | | 74637 | 36 | | 75913 | 8 | |
| 39150 | 19 | | 43445 | 44 | | 44015 | 45 | | 48474 | 41 | | 74649 | 36 | | 75914 | 8 | |
| 39152 | 19 | | 43456 | 44 | | 44020 | 45 | | 48476 | 41 | | 74650 | 36 | | 75949 | 8 | |
| 39154 | 19 | | 43460 | 44 | | 44025 | 45 | | 48478 | 41 | | 74652 | 36 | | 75950 | 8 | |
| 39156 | 19 | | 43464 | 44 | | 44027 | 45 | | 48480 | 41 | | 74654 | 36 | | 75952 | 8 | |
| 39158 | 19 | | 43468 | 44 | | 44030 | 45 | | 48482 | 41 | | 74656 | 36 | | 75954 | 8 | |
| 39160 | 19 | | 43470 | 44 | | 44037 | 45 | | 48492 | 41 | | 74660 | 36 | | 75956 | 8 | |
| 39162 | 19 | | 43472 | 44 | | 44038 | 45 | | 48496 | 41 | | 74664 | 36 | | 75960 | 8 | |
| 39164 | 19 | | 43474 | 44 | | 44240 | 45 | | 53109 | 29 | | 74668 | 36 | | 75964 | 8 | |
| 39166 | 19 | | 43476 | 44 | | 44245 | 45 | | 53110 | 29 | | 74672 | 36 | | 75968 | 8 | |
| 39168 | 19 | | 43480 | 44 | | 44247 | 45 | | 53111 | 29 | | 74676 | 36 | | 75972 | 8 | |
| 39170 | 19 | | 43487 | 44 | | 44250 | 45 | | 53112 | 29 | | 74686 | 36 | | 75976 | 8 | |
| 39172 | 19 | | 43507 | 43 | | 44255 | 45 | | 53113 | 29 | | 74699 | 36 | | 193102 | 36 | |
| 39174 | 19 | | 43509 | 43 | | 44260 | 45 | | 53114 | 29 | | 74937 | 8 | | 193103 | 36 | |
| 39176 | 19 | | 43510 | 43 | | 44608 | 45 | | 53160 | 29 | | 74938 | 8 | | 193104 | 36 | |
| 39178 | 19 | | 43511 | 43 | | 44609 | 45 | | 53164 | 29 | | 74992 | 8 | | 193105 | 36 | |
| 39180 | 19 | | 43512 | 43 | | 44610 | 45 | | 53168 | 29 | | 74999 | 8 | | 193106 | 36 | |
| 39184 | 19 | | 43513 | 43 | | 44615 | 45 | | 53172 | 29 | | 75109 | 30 | | 193107 | 36 | |
| 39186 | 19 | | 43514 | 43 | | 44620 | 45 | | 53176 | 29 | | 75110 | 30 | | 193108 | 36 | |
| 39188 | 19 | | 43613 | 43 | | 44625 | 45 | | 53205 | 29 | | 75111 | 30 | | 193109 | 36 | |
| 39192 | 19 | | 43614 | 43 | | 44627 | 45 | | 53206 | 29 | | 75112 | 30 | | 193110 | 36 | |
| 39195 | 19 | | 43616 | 43 | | 44630 | 45 | | 53207 | 29 | | 75113 | 30 | | 193111 | 36 | |
| 39199 | 19 | | 43617 | 43 | | 44632 | 45 | | 53208 | 29 | | 75114 | 30 | | 193112 | 36 | |
| 40602 | 35 | | 43618 | 43 | | 44640 | 45 | | 53252 | 29 | | 75146 | 30 | | 193113 | 36 | |
| 40603 | 35 | | 43619 | 43 | | 44699 | 45 | | 53254 | 29 | | 75148 | 30 | | 193114 | 36 | |
| 40604 | 35 | | 43645 | 43 | | 45205 | 32 | | 53256 | 29 | | 75160 | 30 | | 193115 | 36 | |
| 40605 | 35 | | 43646 | 43 | | 45206 | 32 | | 71809 | 21 | | 75164 | 30 | | 193116 | 36 | |
| 40606 | 35 | | 43656 | 43 | | 45207 | 32 | | 71810 | 21 | | 75168 | 30 | | 193150 | 36 | |
| 40607 | 35 | | 43660 | 43 | | 45208 | 32 | | 71815 | 21 | | 75172 | 30 | | 193152 | 36 | |
| 40608 | 35 | | 43664 | 43 | | 45209 | 32 | | 71820 | 21 | | 75176 | 30 | | 193154 | 36 | |
| 40609 | 35 | | 43668 | 43 | | 45210 | 32 | | 71825 | 21 | | 75509 | 38 | | 193156 | 36 | |
| 40610 | 35 | | 43670 | 43 | | 45211 | 32 | | 71827 | 21 | | 75510 | 38 | | 193160 | 36 | |
| 40611 | 35 | | 43672 | 43 | | 45212 | 32 | | 71830 | 21 | | 75515 | 38 | | 193164 | 36 | |
| 40612 | 35 | | 43674 | 43 | | 45213 | 32 | | 71834 | 21 | | 75520 | 38 | | 193168 | 36 | |
| 40613 | 35 | | 43676 | 43 | | 45214 | 32 | | 71840 | 21 | | 75525 | 38 | | 193172 | 36 | |
| 40614 | 35 | | 43680 | 43 | | 45216 | 32 | | 71845 | 21 | | 75527 | 38 | | 193176 | 36 | |
| 40649 | 35 | | 43684 | 43 | | 45252 | 32 | | 71850 | 21 | | 75530 | 38 | | | | |
| 40650 | 35 | | 43686 | 43 | | 45254 | 32 | | 71855 | 21 | | 75534 | 38 | | | | |
| 40652 | 35 | | 43688 | 43 | | 45256 | 32 | | 71860 | 21 | | 75540 | 38 | | | | |
| 40654 | 35 | | 43716 | 44 | | 45260 | 32 | | 72809 | 21 | | 75545 | 38 | | | | |
| 40656 | 35 | | 43717 | 44 | | 45264 | 32 | | 72810 | 21 | | 75550 | 38 | | | | |
| 40660 | 35 | | 43718 | 44 | | 45268 | 32 | | 72815 | 21 | | 75555 | 38 | | | | |
| 40664 | 35 | | 43719 | 44 | | 45272 | 32 | | 72820 | 21 | | 75560 | 38 | | | | |
| 40668 | 35 | | 43780 | 44 | | 45276 | 32 | | 72825 | 21 | | 75702 | 8 | | | | |

NOTES

Torque & Interchangeability

| Hex Size Inch | Torque Capacity** | | | | Screw Interchangeability | | | | |
|--------------------|--------------------------|--------|-------------------------|--------|---|--|---|---|---|
| | Bondhus Straight Hex | | Bondhus Ball End Tip | |  |  |  |  |  |
| | in-lb | Nm | in-lb | Nm | | | | | |
| .050 | 7.9 | 0.892 | 3 | 0.339 | 0 | 1, 2 | 1, 2 | 3, 4 | — |
| 1/16 | 15.9 | 1.796 | 7 | 0.0791 | 1 | 3, 4 | 3, 4 | 5, 6 | — |
| 5/64 | 34 | 3.842 | 13 | 1.469 | 2, 3 | 5, 6 | 5, 6 | 8 | — |
| 3/32 | 51 | 5.763 | 24 | 2.712 | 4, 5 | 8 | 8 | 10 | — |
| 7/64 | 84 | 9.492 | 39 | 4.407 | 6 | 10 | — | — | — |
| 1/8 | 129 | 14.57 | 57 | 6.441 | — | — | 10 | 1/4 | 1/4 |
| 9/64 | 185 | 20.90 | 86 | 9.718 | 8 | 1/4 | — | — | — |
| 5/32 | 265 | 29.94 | 127 | 14.35 | 10 | 5/16 | 1/4 | 5/16 | 5/16 |
| 3/16 | 431 | 48.7 | 189 | 21.35 | 1/4 | 3/8 | 5/16 | 3/8 | 3/8 |
| 7/32 | 673 | 76.04 | 318 | 35.93 | — | 7/16 | 3/8 | 7/16 | — |
| 1/4 | 950 | 107.3 | 482 | 54.44 | 5/16 | 1/2 | — | 1/2 | 1/2 |
| 5/16 | 2022 | 228.4 | 888 | 100.3 | 3/8 | 5/8 | 1/2 | 5/8 | 5/8 |
| 3/8 | 3005 | 339.5 | 14.88 | 168.1 | 7/16, 1/2 | — | 5/8 | 3/4 | 3/4 |
| 7/16 | 4047 | 457.3 | 1661 | 187.7 | 9/16 | 3/4 | — | — | — |
| 1/2 | 6033 | 681.7 | 2451 | 277.0 | 5/8 | — | — | 7/8 | 1 |
| 9/16 | 8605 | 972.2 | 3459 | 390.8 | — | — | — | 1, 1-1/8 | — |
| 5/8 | 11819 | 1335.4 | 4711 | 532.3 | 3/4 | — | — | 1-1/4, 1-3/8 | 1-1/4 |
| 3/4 | 20424 | 2307.6 | 8052 | 909.8 | 7/8, 1 | — | — | 1-1/2 | — |
| Hex Size Metric | in-lb | Nm | in-lb | Nm | | | | | |
| 1.27 | 7.9 | .892 | 3 | 0.339 | 1.4 | — | — | 2.5 | — |
| 1.5 | 13.1 | 1.480 | 5 | .565 | 1.6, 2 | — | — | 3 | — |
| 2 | 33 | 3.729 | 13 | 1.469 | 2.5 | 3 | 3 | 4 | — |
| 2.5 | 63 | 7.119 | 33 | 3.729 | 3 | 1.469 | 2.5 | 5 | — |
| 3 | 106 | 11.97 | 52 | 5.876 | 4 | 5 | 5 | 6 | 5 |
| 3.5 | 143 | 16.13 | 70 | 7.910 | — | — | — | — | — |
| 4 | 264 | 29.83 | 131 | 14.8 | 5 | 6 | 6 | 8 | 6 |
| 4.5 | 305 | 34.50 | 147 | 16.6 | — | — | — | — | — |
| 5 | 483 | 54.57 | 247 | 27.91 | 6 | 8 | 8 | 10 | 8 |
| 5.5 | 559 | 63.24 | 270 | 30.5 | — | — | — | — | — |
| 6 | 855 | 96.61 | 396 | 44.74 | 8 | 10 | 10 | 12 | 10 |
| 7 | 1090.8 | 123.2 | 549 | 62.1 | — | — | — | — | — |
| 8 | 1861 | 210.2 | 989 | 111.7 | 10 | 12 | 12 | 14, 16 | 12 |
| 9 | 2326 | 262.8 | 1132 | 128.0 | — | — | — | — | — |
| 10 | 3563 | 402.6 | 1591 | 179.7 | 12 | 14,16 | 14, 16 | 18, 20 | 16 |
| 12 | 5103 | 576.6 | 2022 | 228.5 | 14 | 18,20 | 18,20 | 22, 24 | 20 |
| 14 | 8081 | 913.0 | 3215 | 363.5 | 16, 18 | 22, 24 | 22,24 | — | — |
| 17 | 14507 | 1639.1 | 5694 | 643.3 | 20, 22 | — | — | — | — |
| 19 | 20285 | 2291.9 | 8052 | 909.8 | 24, 27 | — | — | — | — |
| Star Size | Bondhus Straight Star | | | | | | | | |
| | in-lb | Nm | in-lb | Nm | | | | | |
| T5 | 3.8 | 0.4 | — | — | — | — | — | 3 | — |
| T6 | 6.6 | 0.7 | 4 | 0.45 | — | 2 | — | 4 | — |
| T7 | 12 | 1.4 | 9 | 1.0 | — | 3 | 2 | 5, 6 | — |
| T8 | 20 | 2.3 | 16 | 1.8 | — | 4 | 3 | 8 | — |
| T9 | 25 | 2.8 | 19 | 2.1 | — | 5 | 4 | — | — |
| T10 | 33 | 307 | 25 | 2.8 | 4, 5 | 6 | 5 | 10, 12 | — |
| T15 | 57 | 6.4 | 41 | 4.6 | 6 | 8 | 6 | — | — |
| T20 | 93 | 10.5 | 61 | 6.9 | — | 10 | 8 | 1/4 | — |
| T25 | 140 | 15.8 | 85 | 9.6 | 8 | 12 | 10 | — | — |
| T27 | 199 | 22.5 | 96 | 10.8 | 10, 12 | 1/4 | 12 | 5/16 | — |
| T30 | 276 | 31.2 | 110 | 12.4 | 1/4 | — | 1/4 | 3/8 | — |
| T40 | 480 | 54.2 | 363 | 41.0 | — | 5/16, 3/8 | — | 7/16 | — |
| T45 | 763 | 86.2 | 409 | 46.2 | 5/16 | — | 3/8 | 1/2 | — |
| T50 | 1171 | 132.3 | 440 | 49.7 | 3/8 | 7/16 | 7/16 | — | — |
| T55 | 1931 | 218.2 | 799 | 90.3 | 7/16, 1/2 | 1/2 | 1/2 | — | — |

**Minimum torque capacities Bondhus tools generate without breakage.
Other manufacturer's tools may break with considerably less torque.

Discover the Bondhus Difference

#1 In Customer Service!

Here's why:

- No Minimum Orders
- No Stocking Requirements
- No Drop Ship Fees
- No Hassle Returns
- Lifetime Warranty
- Highly-Trained, Experienced In-House Customer Service Department
- End User Education
- Full Range of Hex & Star Products
- Free Sales Aides & Merchandisers
- Custom Manufacturing
- Customer Service Hours:
7 am to 5 pm central time

Our highly trained, experienced customer service staff is waiting to serve you. Call 1-800-328-8310 or email us at cservice@bondhus.com today!

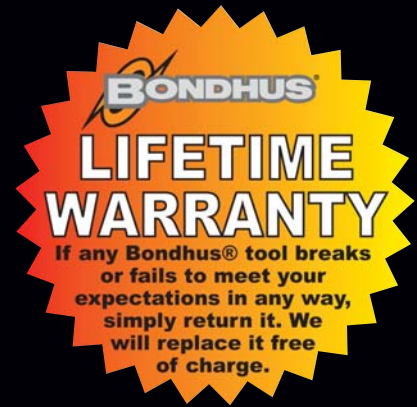


1-800-328-8310

1400 E. Broadway
P.O. Box 660
Monticello, MN 55362
U.S.A.

Phone 763-295-2162
Fax: 763-295-4440
E-mail: cservice@bondhus.com
Website: www.bondhus.com

©Bondhus Corporation 2013



Special Manufactured Products

As one of the few tool companies in the world that will do custom manufacturing, we can help you create the exact tool to fit your application or requirements.

- Call 800-328-8310 with your requirements. Our Customer Service Department will speak with you about:
Quantity
Tool type, length and diameter
Construction material and coating
- With 35 years of experience, we can offer suggestions on the best tool configuration for your application.
- Our engineering department will quickly process your request and offer a quotation*. Upon your approval, CAD drawings will be created. A simple signoff is all that is required.
- Production will begin. Within approximately 8 weeks from final approval, your Special Manufactured Product will be shipped.

* F.O.B. Monticello, MN. Quotes are valid for 6 months. Minimum order is \$750 per line item

Distributed by:

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Digital Multimeters](#) category:

Click to view products by [Bondhus](#) manufacturer:

Other Similar products are found below :

[8009](#) [6111-517](#) [FS881](#) [40705X](#) [USB390A](#) [780417A](#) [GPT-9904](#) [382099](#) [589250](#) [780418](#) [C.A 6131](#) [C.A 6133](#) [30XR](#) [34XR](#) [35XP](#) [TESTO](#)
[745](#) [0590 7450](#) [TESTO 760-3](#) [0590 7603](#) [440012](#) [AX-155](#) [AX-174](#) [AX-178](#) [AX-18B](#) [AX-190A](#) [AX-503](#) [AX-507B](#) [AX-572](#) [AX-594](#) [AX-](#)
[LCR41A](#) [AX-MS8221A](#) [AX-MS8250](#) [AX-PDM01](#) [AX-T520](#) [AX-T901](#) [AX-T903](#) [BAT-250-EUR](#) [BM233](#) [BM805S](#) [BM807S](#) [BM817S](#)
[BM827S](#) [BM829S](#) [BM857S](#) [BM859S](#) [BM867S](#) [BM905S](#) [33XR](#) [UNITEST TESTFIX 9023](#) [37XR](#) [UT56](#) [UT58C](#)