



Tools ^{That} Work



2009 Catalog

When NASA needed a special hand tool for the International Space Station, 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.

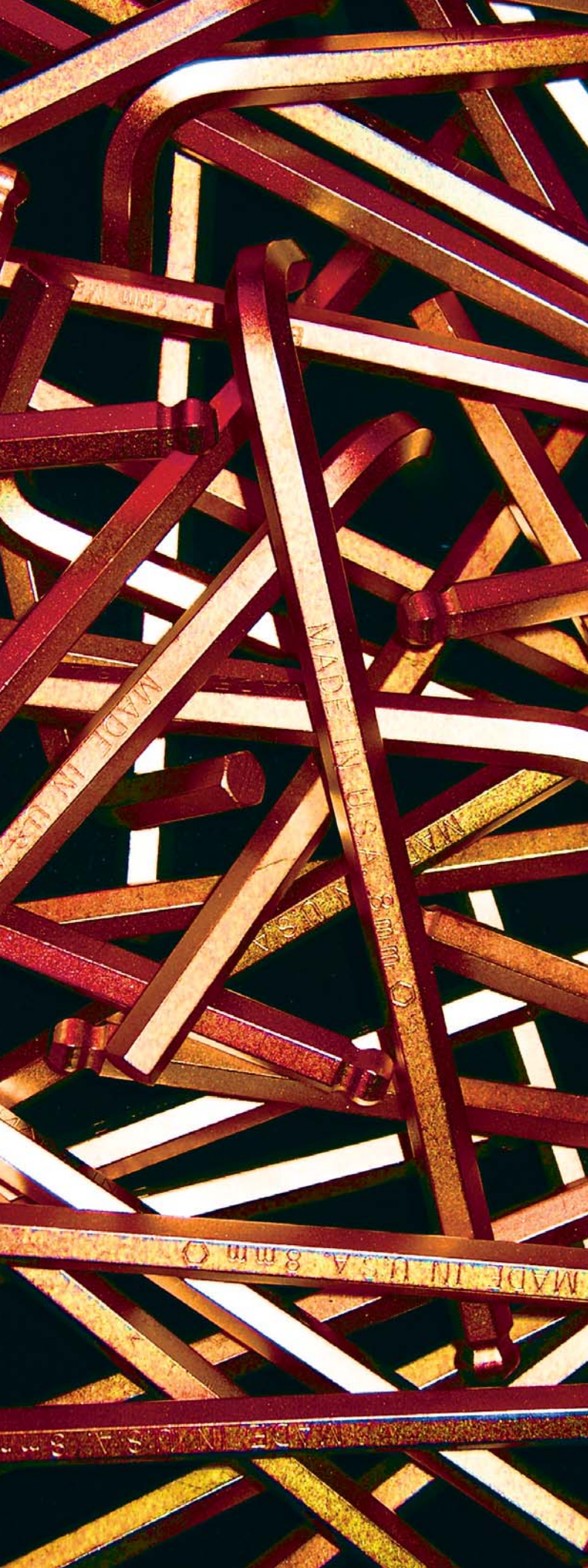
Bondhus tools are demanded by the most discriminating hand tool users in more than 60 countries all around the world. Bondhus strength and consistency of quality are the standards by which hand tools are judged. Why do tool professionals at NASA and all over the world demand Bondhus tools? Whether they work in space or on an oil rig in the middle of the ocean, the tools they use have to work the first time... they don't have time to go back for a replacement.



PHOTO COURTESY OF NASA JOHNSON SPACE CENTER

**Bondhus tools are
made in the U.S.A.
and are available in
more than sixty
countries including:**

- Argentina • Australia •
- Belarus • Belgium •
- Brazil • Canada •
- Chile • China • Costa Rica •
- Czech Republic •
- Denmark • England •
- Finland • France •
- Germany • Greece •
- Hong Kong • Hungary •
- Iceland • India • Israel •
- Italy • Japan • Jordan •
- Korea • Luxembourg •
- Mexico • New Zealand •
- Netherlands • Norway •
- Philippines • Poland •
- Portugal • Puerto Rico •
- Romania • Russia •
- Singapore • Slovak
Republic • Spain •
- Sweden • Switzerland •
- Taiwan • Thailand •
- Turkey • Vietnam •
- West Indies



A message from the

Employees of Bondhus Corporation

Prior to founding Bondhus Corporation in 1967, John Bondhus worked for many years as a tool and die maker. He always took great pride in “working in the shop”. He understood and appreciated the value of high quality, long lasting, time-saving tools. He was appalled by low quality tools. He vowed his company would never compromise usability or quality, in exchange for lower manufacturing costs or gimmicky design features. He founded and nurtured Bondhus Corporation to make the highest quality hand tools in the world. We are honored to carry on the Bondhus tradition of making and supplying the best tools in the world, tools that are:

Built to Work Hard...Built to Save Time...Built To Last!

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Stubby Tools

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fourteen unique tips



the
**right
 tool** for the
job

**seven
 handle types**





Hex Keys



Screwdrivers



Fold Ups



Bits & Blades



T-Handles

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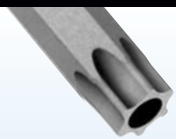
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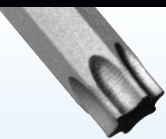
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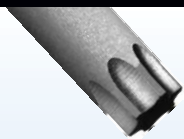
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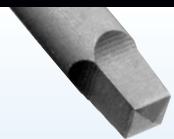
TR StarTip



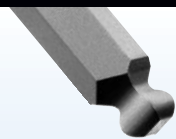
StarTip



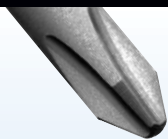
Star Plus Tip



Square Tip



Square Ball Tip



Phillips Tip



Slotted Tip



Awl Tip

five
hex key styles



three
types of protection



- **ProGuard** DRY SURFACE TECHNOLOGY *DST*: The Ultimate in corrosion protection
- **BriteGuard** FINISH: Next generation chrome finish
- **GoldGuard** FINISH: Real 14 karat gold finish

three
blade/bit types



BONDHUS Timesaving GorillaProof Tools



Protanium® High Torque Steel is much more than "just steel" and much more than a "name".

It is a specification, a process and a commitment to producing a level of tool performance unmatched by any competitor.

Protanium® high torque steel is not an 8650 grade steel, it is not a form of S2 and it is not a chrome-vanadium or chrome-moly type steel. It is custom mixed to a formula that is the result of many years of research and continuous development effort.

Bondhus works extensively with its' steel suppliers to ensure meticulous quality control, testing and documentation standards are adhered to. Conformance to Bondhus' specification means qualified technicians perform constant inspection, testing and evaluation steps to make sure the "no compromises" quality policy is always enforced. Over 60 separate tests guarantee that every tool manufactured is 100% within spec.

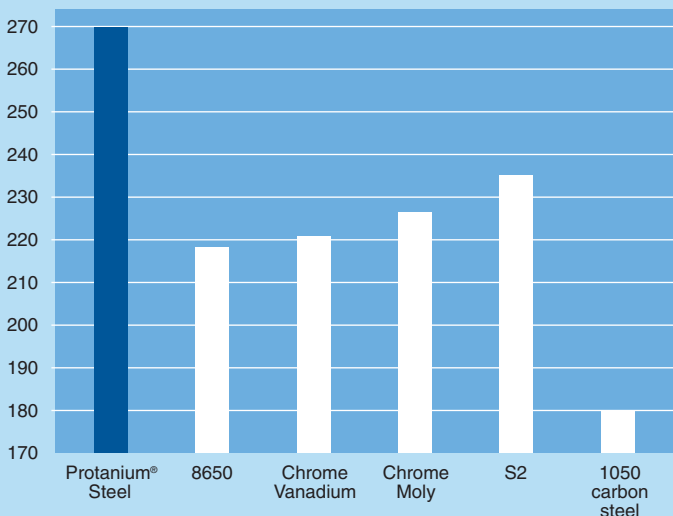
Customized heat treating processes are key to bringing out the superior strength properties of Protanium® high torque steel. Anyone with a piece of steel and a torch can perform some level of heat treating. Attaining results that push beyond industry accepted limits of performance requires equipment, skill, and years of research and development that Bondhus alone has committed itself to.

Hex stock must be smooth and free of pits, burrs, and other imperfections. Bondhus demands 100% compliance from mills that supply steel.

Sharp edges are critical to the tool fitting properly in a fastener. Rounded corners are not accepted. They will cause slippage and failure. Bondhus maintains the toughest standards in the industry.

Grain size is monitored before and after heat treating. A small grain size helps assure conformance to strength and hardness standards.

4mm Tools — Average Stock Torque (in-lb)



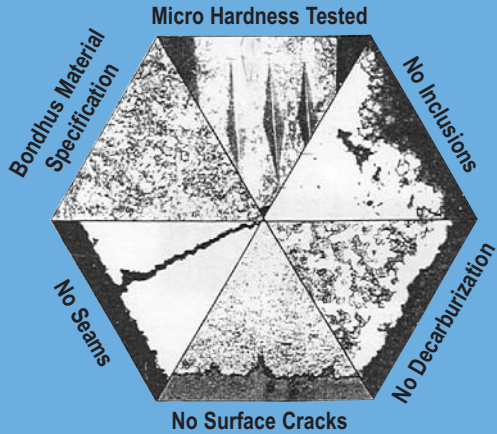
Custom mixed steel and precise control of the heat treating process are two keys to producing the strongest hex and star tools in the world.

Average Torque (in-lb)

Hardness Rockwell C	Tensile Strength PSI	5/64"	1/8"	5/32"	1/4"	5/16"	
		& 2mm		& 4mm		& 8mm	
61	360000	34	141	273	1125	2187	
59	340000	32	133	258	1063	2065	
57	320000	30	125	243	1000	1944	Protanium® Steel
55	300000	28	117	228	938	1822	
53	280000	27	109	213	875	1701	
51	260000	25	102	197	813	1579	8650 Steel
49	240000	23	94	182	750	1458	
46	220000	21	86	167	688	1336	
43	200000	19	78	152	625	1215	Carbon Steel
40	180000	17	70	137	563	1093	
37	160000	15	63	121	500	972	

Note

If hardness and good ductility are maintained, then the higher the tensile strength, the stronger the tool.



Cracks, decarburization, seams, surface discontinuities, undissolved carbides, and inclusions are not unusual in common grades of steel. These conditions cause poor ductility and premature tool breakage. The Protanium® steel specification, however, does not allow for these conditions to exist.

Hardness and Ductility
Protanium® Steel is considerably harder than the steel produced by most Bondhus competitors. When competitors do have hardness values approaching that of Protanium® steel, they do so by sacrificing ductility.

Ductility is important to monitor, since as the hardness increases, so does brittleness and the potential for shattering. Every batch of Protanium® steel is tested by applying torque in a standard break test.

The Bondhus standard assures in excess of 99% of all breaks will actually break clean and straight. Most competitors cannot even hit 50% clean breaks. Tools that shatter are a hazard to both the user and equipment in the vicinity.

Hardness testing is performed during and after the heat treating process to accurately measure and constantly monitor hardness values.

Bondhus strives for consistent hardness throughout, not just on the surface. Micro hardness testing is performed beneath a microscope on polished cross sections encased in epoxy. Too much hardness causes brittleness; not enough causes premature wear.

Torsional tensile strength is monitored for every batch of steel. An ongoing effort is made to improve strength and reduce or eliminate shattering. The heat treating process is adjusted for every batch of steel to obtain maximum ductility and hardness.

Extensive lab testing has *proven* that Bondhus tools consistently generate up to 20% more torque than any other manufacturer in the industry. Independent lab testing results are available within the **Tech Library section at www.bondhus.com**.

Inferior Tools are Expensive

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's not a question of "if", but rather "when".



Stripped screw heads are one of those bad things that happen. A stripped screw head can no longer be removed with a hex tool. If it's 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 finest tools available anywhere. Customer satisfaction is what we strive for.



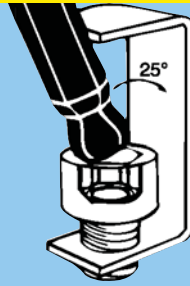
BONDHUS Timesaving GorillaProof Tools

Why a Bondhus Ball End Tool?

A ball end tip is a tremendous time saver. It allows a tool to be inserted into a screw head quickly, even from an angle or when working in the blind.

The concept by which the ball end tip slides into a screw head is known as funnel insertion. The side of the ball end directs or funnels the tool into the screw head, and precise machining ensures an exact fit between tool and screw head.

Bondhus is not a “me too” manufacturer of ball end tools; Bondhus invented the hex ball end and for almost forty years has been continually improving on this invention. Bondhus ball end tools sell better than the competition because they work better and last longer than competitor tools. It’s that simple. Bondhus ball end tools significantly reduce the amount of time it takes to complete a task.



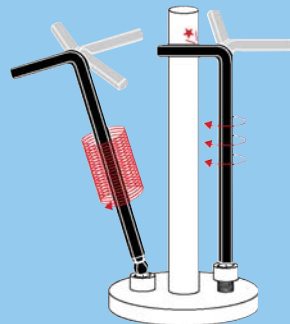
Angle entry to 25°

- Works in hard to reach areas
- Faster insertion and removal
- Precisely machined tip “funnels” itself into screw head



Ergonomic design

- Allow natural hand and wrist rotation
- Turns a full 360° in location
- Reduces user fatigue



Efficient design

- Works even in blind locations or near obstructions
- Eliminates need to continuously remove, reposition, and reinsert tool
- Engages to full depth
- Reduces ‘stripping’ problems

Bondhex™ Cases

Thirty years ago, Bondhus introduced the first molded case for organizing hex keys.

- **Color coded for easy identification:**
Inch (yellow)
Metric (red)
Star (green)
- **Convenient storage holds tools firmly in place**



- Organizes hex tools in a compact manner
- Sorts and prevents loose or lost hex keys
- A slight twist of the wrist releases tools from their locked position

GorillaGrip® Folding Tools

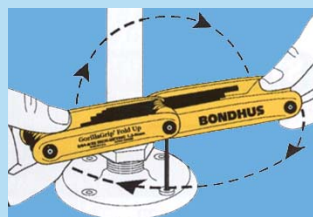
Bondhus developed the molded handle that revolutionized the concept of fold up tools.

- Handle fits comfortably in a users hand
- Does not conduct heat or cold
- 40% stronger than comparable steel handles
- Time saving blade selection
 - Special flutes separate tools
 - Flutes allow quick selection of one blade at a time
 - Eliminates annoyance of having to constantly unstack blades to make a selection
- Eight different tips available



- Color coded handles for easy identification: Inch (yellow), Metric (red), Star (green).
- Turn & flip feature eliminates constant repositioning of tool when working near obstructions

- 90° stop feature converts the GorillaGrip® folding tool into a time saving speed wrench



Stubby tools

Bondhus was the first U.S. manufacturer to introduce a complete line of short arm hex key tools for applications where a standard hex key cannot reach.

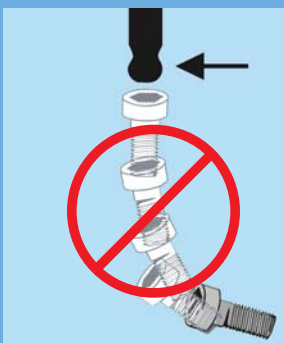
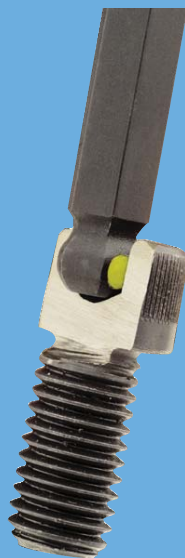
- Reach into low clearance areas and turn a screw
- No need to ever cut down and file a standard wrench again as a makeshift solution
- Tighter short arm radius than a standard hex key
- Short arm has hex tip, and long arm has a ball end tip for maximum time savings



ProHold® Tip Screw Holding Technology

Bondhus is the developer and exclusive manufacturer of patented ProHold® tip tools — the best screw holding technology available.

- Holds screws tight on the tool every time
- Available for both hex and star tools
- Bondhus is the only manufacturer making screw holding tools in sizes as small as .050" and 1.27mm
- Smooth tool rotation is preserved
- Does not reduce the strength of the tool or cause damage to the screw head
- Non-magnetic
- Never drop a screw again
- Available in a full range of Hex and Star sizes: .050" to 3/8", 1.27mm to 10mm, and T9 to T60



Handles Designed for Productivity

Ergonomically Shaped T-handles

Bondhus is the only U.S. manufacturer to design and build T-handles that fit the shape of a user's hand.



- Mass of the full metal handle generates a flywheel effect for rapid insertion or removal of screws
- Tough coating resists damage and cushions grip
- Handle does not attract or hold dirt — excellent cleanup qualities
- Slight curve eliminates painful problem of handles digging into hands
- Handle welded directly to blade - eliminates loosening and wobbling of blade due to wear
- Focuses effort on turning a screw, instead of finding a comfortable grip on the handle
- Color coded for easy identification: Inch (yellow), Metric (red), Star (green)

ComfortGrip Screwdriver Handles

Bondhus was the first U.S. hex tool manufacturer to introduce cushioned grip style screwdriver handles for hex and star tools.



- Handles proportioned to blade size to prevent blade breakage
- Soft, cushioned handle with positive, non-slip surface
- Good grip even with wet or oily hands
- Reduces fatigue to accomplish more — with less effort
- Anti-roll on inclined or vibrating surfaces
- Color coded for easy identification: Inch (yellow), Metric (red), Star (green)

Star wing and flag handles



These are real time savers for special star and star plus applications.

- Can be gripped in many different ways
- The green handle top allows for rapid fingertip spinning of tool
- Handles generate needed torque to seat or break loose a screw — even the very delicate screws found in electronics applications

BONDHUS Timesaving GorillaProof Tools



ProGuard™ dry surface protection is yet another Bondhus exclusive. It is the most

effective solution in the industry for protecting tools from rust and corrosion.

Most hex tool manufacturers cut corners by providing inadequate protection against corrosion. Tool manufacturers deal with the problem of rust and corrosion by providing a range of solutions:

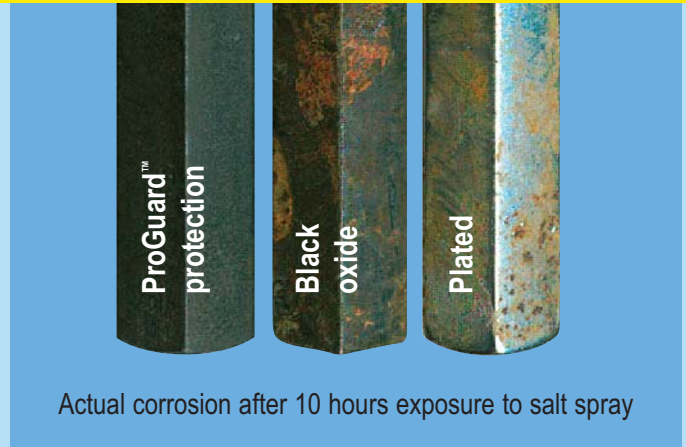
- Plating provides a degree of protection, but it eventually nicks, flakes or wears off, and allows water to seep in.
- Black oxide finishes provide only limited protection. Almost with the first use, the finish begins to wear off and allow water to penetrate through to the tool.

- Coating a tool with oil is nearly no protection at all. Almost immediately, it is vulnerable to rust and corrosion.

ProGuard™ dry surface finish is a radically different solution that offers vastly superior protection. It starts with caustic cleaning to remove all oxides and impurities on the surface. A proprietary electrolytic process is then used to grow a very tight and small grained crystal structure on the surface of the tool. In addition, a fast drying oil is used to provide yet a second line of protection. The resulting finish creates a surface that is very difficult for moisture and contaminants to penetrate.

Results of comparative Salt Spray performance testing, conducted by an independent lab, provide dramatic proof that the Bondhus ProGuard™ corrosion protection is up to five times more effective than any other solution available. Independent lab testing results are available within the

Tech Library section at www.bondhus.com.



Actual corrosion after 10 hours exposure to salt spray

Consistency Of Machining:

Every manufacturer advertises the “quality” of their tools. Independent laboratory testing, however, reveals results that are not always consistent with those claims.

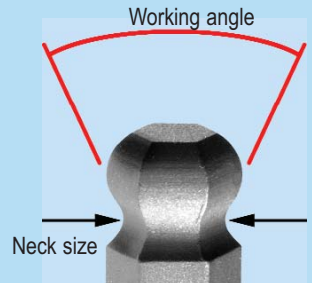
A tool’s effectiveness is directly proportional to how well it fits into a fastener. Bondhus manufactures tools to the tightest tolerances in the tool industry. Every tool is designed for the absolute optimal fit in a fastener. Tighter tolerances mean the best possible fit between tool and fastener will always be achieved.

The Bondhus specification demands stock that is free of defects created in the drawing process, sharp and clean corners, precise machining and a tightly sealed surface to prevent damage from corrosion.

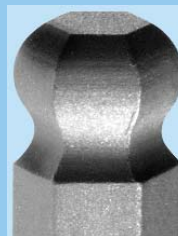
A poorly machined ball end tip does not fit properly into a screw head. It risks stripping the screw head and may not produce a

smooth rotating action, further hampering tool use.

Machining a ball end on a small tool is very difficult to accomplish. Compare the precision of a Bondhus .050" ball end and the tool of a typical competitor. (See photo at bottom of page.) Bondhus means precision.



Strength and working angle are two of the primary characteristics by which ball end tips are rated. Increasing neck size produces a corresponding increase in strength, but does so at the expense of allowable working angle. Conversely, a smaller neck size increases working angle, but decreases strength.



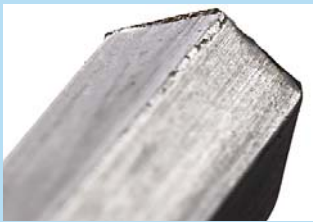
Bondhus Precision



Competitor poorly machined

.050" Ball end Comparison

No Burrs: The clearance between a hex key and the screw into which it is inserted is typically .0005" or less on each side of the key, and even a small burr can interfere with or prevent insertion. If the socket of a screw head is on the small side of its tolerance, and the hex key is on the large side, any amount of burr will prevent proper insertion.



The imprecise nature of the competition's cutting method known as 'precision cutting' creates burrs that interfere with inserting the tool into a screw head.

Chamfering: Insertion of a straight hex or star tip into a screw head is much easier when all burrs are eliminated by chamfering the tip of the tool. Bondhus employs several styles of chamfers, using each style where it is most effective. The type of chamfer used is not critical. The point is to ensure that burrs are removed from all hex and star keys as shown by the Bondhus tool below.



Bondhus ball end tips are unique. They are capable of achieving superior torque while retaining a working angle of up to 25° because of

the superior torque and ductility characteristics of Protanium® steel. No other competitor can match this performance with common grades of steel.

Every Bondhus tool is subject to its own set of specifications. Bondhus is meticulous about quality control — no deviation from the spec, no seconds, no exceptions. Period.



At Bondhus, we believe in the quality of our tools and the warranty they carry is your proof. Not all warranties are created equal, and the tool industry is no exception. Reading the fine print often makes telling statements about the manufacturer's confidence in their own product.

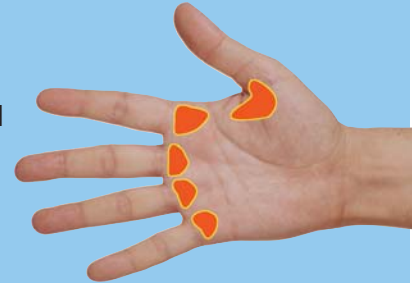
Bondhus tools are designed by toolmakers to work hard, save time, and to last. Only Bondhus offers an unconditional lifetime warranty.

All Bondhus products are guaranteed for life. If you are not happy 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!

Ergonomic Handle Designs

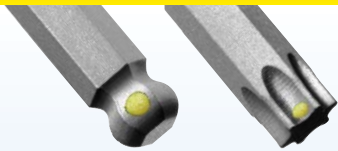
Good handle design doesn't just happen; it's the outcome of experience and design refinement performed by dedicated people who care about the tool user. Bondhus handles are designed by people who know, understand, and use tools for a living.

- **Tool user strength** is a major consideration in handle design because handles need to accommodate a range of hand strengths. Bondhus designs its handles to accommodate a wide range of user hand sizes and strengths.
- **Ergonomic designs** ensure all handles fit comfortably in the users hands. As a result, tool users experience less fatigue and the pain associated with aggressive or prolonged tool use. Non slip surfaces ensure good grip, even in wet or oily conditions.
- **Bondhus handles**, fitted with ball end blades, are designed and sized to match the torque capacity of each blade tip.
- **Blade torque** is accurately established for every blade and is consistently maintained in the manufacturing process. Variations in torque yield unpredictable results when the blade is coupled with a handle. Tool users can be confident that Bondhus handles will not over torque the blade, and result in damage to the tool.



Bondhus handles are well designed, are a joy to use, and greatly enhance a tool user's efficiency in performing a task. In addition, Bondhus handles are designed to protect both their blades and the fasteners they drive from wear and breakage.

ProHold® Tip Tools



Available in a full range of hex ball end and star sizes:

- .050" to 3/8"
- 1.27mm to 10mm
- T9 to T60



Holds screws tight on the tool EVERY TIME

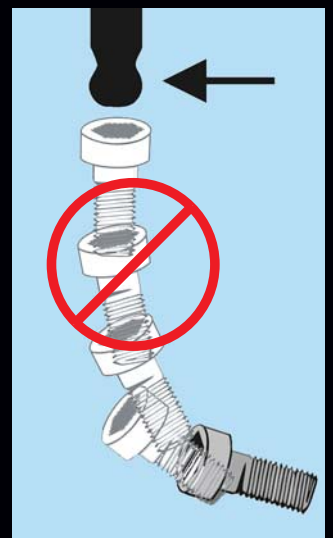
Button is non-magnetic

Super smooth rotational action, with no interference from the ProHold® button

Tool strength is not compromised by the ProHold® button



Patented ProHold® tip technology means never dropping a screw again



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.

 Corrosion-resistant finish:

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

ProHold® Tip Tools

Hex Key Sets

Inch Sizes



Long

SIZE	PCS	PART#	MODEL #	LIST EA
.050 – 3/8	13	74937	PBLX13	
1/16 – 1/4	10	74938	PBLX10	

Metric Sizes



Long

SIZE	PCS	PART#	MODEL #	LIST EA
1.5 – 6mm	7	74992	PBLX7M	
1.5 – 10mm	9	74999	PBLX9M	

Screwdriver Sets

Inch Sizes



SIZE	PCS	PART#	MODEL #	LIST EA
.050 – 5/32	8	74632	PBSX8S	
.050 – 3/8	13	74637	PBSX13	

Metric Sizes



SIZE	PCS	PART#	MODEL #	LIST EA
1.5 – 5mm	6	74686	PBSX6M	
1.5 – 10mm	9	74699	PBSX9M	

Hex Key Double Pack



SIZE	PCS	PART#	MODEL #	LIST EA
.050 – 3/8	22	20499	PBLX22	
1.5 – 10mm				

Star Screwdriver Set



SIZE	PCS	PART#	MODEL #	LIST EA
T9 – T40	8	75534	PHTSX8	

T-Handle Sets

Inch Sizes



SIZE	PCS	PART#	MODEL #	LIST EA
5/32 – 3/8	6	75146	PBTX60	

Metric Sizes



SIZE	PCS	PART#	MODEL #	LIST EA
4 – 10mm	5	75148	PBTX50M	

Star Key Set



SIZE	PCS	PART#	MODEL #	LIST EA
T9 – T40	8	71834	PHTX8	

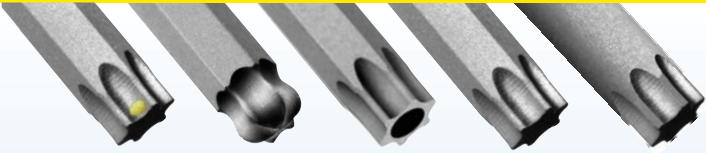
Star T-Handle Set



SIZE	PCS	PART#	MODEL #	LIST EA
T9 – T40	8	74034	PHTTHX8	

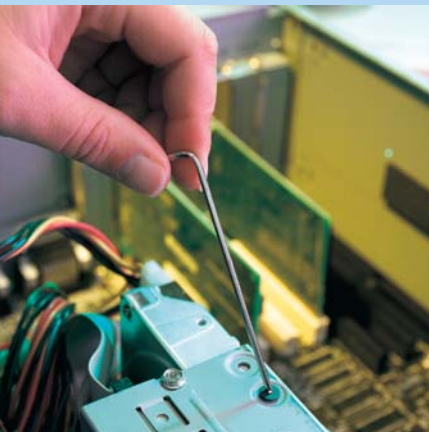


Star Tools

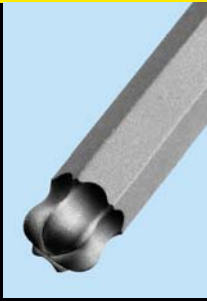


A full range of tip sizes from T5 to T60

Wing and flag tools are available in Star and Star Plus tip styles



Unique Bondhus BallStar™ tips bring the advantages of a ball end to tasks requiring a star tip



Precise machining of star tip means ease of entry and full engagement in screw



Wing and flag handles allow a variety of ways to grip the tool. Perfect for applications where other handle types might be awkward to use.



Generate the necessary torque — with ease



Bondhus Star and Star Plus tools fit TORX® brand screws.

TORX® is a registered trademark of Textron, Inc.

Color Coded

 Star

High Torque Steel:

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

Corrosion-resistant finish:

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

Star Tools

Star Key Sets



		ProHold® Star Tip			BallStar™ Tip			Star Tip			Tamper-Resistant Tip		
SIZE	PCS	PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA
T6 – T25	8				11331	LTX8S		31832	TLX8S		32432	TR-TL8S	
T9 – T40	8	71834	PHTX8		11332	LTX8		31834	TLX8		32434	TR-TL8	
T6 – T15	6				11346	LTX6							
Short Arm:													
T6 – T25	8							31732	TLXS8S				
T9 – T40	8							31734	TLXS8				

Star Key Sets in Pouch Short



SIZE	PCS	PART#	MODEL#	LIST EA
T10 – T50	9	12699	TLX9S	

Star Key Sets in Pouch Short



SIZE	PCS	PART#	MODEL#	LIST EA
T7 – T55	13	31737	TLX13S	

T-Handle Sets with Stand



SIZE	PCS	LENGTH	W/STAND	PART#	MODEL#	LIST EA	PART#	MODEL#	LIST EA
T9 – T40	8	Graduated	✓	74034	PHTTHX8		33034	TTHX8	

Screwdriver Sets



SIZE	PCS	PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA
T6 – T25	8							34532	TSX8S		33832	TR-SX8S	
T6 – T15	6				13546	STX6							
T9 – T40	8	75534	PHTSX8		13532	STX8		34534	TSX8		33834	TR-SX8	

GorillaGrip® Fold Ups



SIZE	PCS	PART#	MODEL#	LIST EA	PART#	MODEL#	LIST EA
T6 – T25	8	12632	TF8S				
T7 – T25	7				12636	TR-TF7S	
T9 – T40	8	12634	TF8	12638		TR-TF8	




Star Tools

Wing and Flag handle drivers are perfect for insertion and removal of insert tooling in oily environments

- Available in sizes T5 – T20
- Star and Star Plus
- Soft rubber outer coating for maximum comfort and grip
- Tough thermoplastic core
- Protanium® steel and ProGuard™ Finish




Wing Handle Set



Star Tip **Star Plus Tip**

SIZE	PCS	PART#	MODEL#	LIST EA	PART#	MODEL#	LIST EA
T6 – T20	7	34745	TWX7		33945	TPWX7	

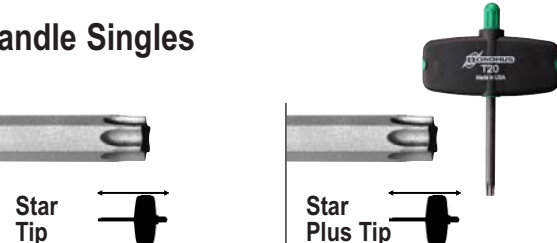
Flag Handle Set



Star Tip **Star Plus Tip**

SIZE	PCS	PART#	MODEL#	LIST EA	PART#	MODEL#	LIST EA
T6 – T20	7	34445	TFX7		35045	TPFX7	

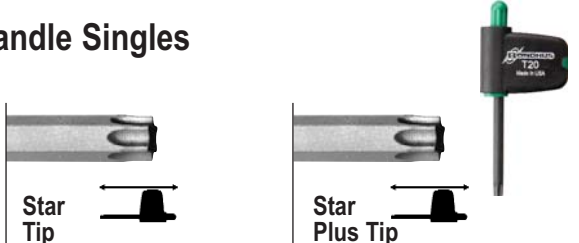
Wing Handle Singles



Star Tip **Star Plus Tip**

SIZE	QTY	PART#	INCH	MM	LIST EA	PART#	INCH	MM	LIST EA
T6	2	34706	1.5	37		33906	2.0	50	
T7	2	34707	1.5	37		33907	2.0	50	
T8	2	34708	1.5	37		33908	2.0	50	
T9	2	34709	1.5	37		33909	2.0	50	
T10	2	34710	1.5	37		33910	2.0	50	
T15	2	34715	1.5	37		33915	2.0	50	
T20	2	34720	1.5	37		33920	2.0	50	


Flag Handle Singles



Star Tip **Star Plus Tip**

SIZE	QTY	PART#	INCH	MM	LIST EA	PART#	INCH	MM	LIST EA
T5	2	34405	1.5	37					
T6	2	34406	1.5	37		35006	2.0	50	
T7	2	34407	1.5	37		35007	2.0	50	
T8	2	34408	1.5	37		35008	2.0	50	
T9	2	34409	1.5	37		35009	2.0	50	
T10	2	34410	1.5	37		35010	2.0	50	
T15	2	34415	1.5	37		35015	2.0	50	
T20	2	34420	1.5	37		35020	2.0	50	

T-Handle Singles — Graduated Lengths



ProHold® Tip **Star Tip**

SIZE	QTY	INCH	MM	PART#	LIST EA	PART#	LIST EA
T9	2	6.1	155	74009		33009	
T10	2	6.4	161	74010		33010	
T15	2	6.6	168	74015		33015	
T20	2	6.9	174	74020		33020	
T25	2	7.1	180	74025		33025	
T27	2	7.4	187	74027		33027	
T30	2	7.6	193	74030		33030	
T40	2	7.9	199	74040		33040	
T45	2	8.1	206	74045		33045	
T50	2	8.4	213	74050		33050	
T55	2	8.6	218	74055		33055	



Star Tools

Star Key Singles

			ProHold® Star Tip			BallStar™ Tip			Star Tip			Tamper-Resistant Tip			Star Tip Short					
			Tagged/Barcoded			Tagged/Barcoded			Tagged/Barcoded			Tagged/Barcoded			Tagged/Barcoded					
SIZE	INCH	MM	QTY	PART#	LIST EA	QTY	PART#	LIST EA	QTY	PART#	LIST EA	QTY	PART#	LIST EA	SIZE	INCH	MM	QTY	PART#	LIST EA
T5						5	11706		5	31806		2	32406		T5	0.9	23	5	31705	
T6	2.1	55													T6	1.1	29	5	31706	
T7	2.4	61													T7	1.4	35	5	31707	
T8	2.6	67													T8	1.6	42	5	31708	
T9	2.9	74	5	71809		5	11709		5	31809		2	32409		T9	1.9	48	5	31709	
T10	3.2	80	5	71810		5	11710		5	31810		2	32410		T10	2.2	55	5	31710	
T15	3.3	84	5	71815		5	11715		5	31815		2	32415		T15	2.3	59	5	31715	
T20	3.6	91	5	71820		5	11720		5	31820		2	32420		T20	2.6	66	5	31720	
T25	3.8	98	5	71825		5	11725		5	31825		2	32425		T25	2.8	72	5	31725	
T27	4.2	106	5	71827		5	11727		5	31827		2	32427		T27	3.2	81	5	31727	
T30	4.6	116	5	71830		5	11730		5	31830		2	32430		T30	3.6	90	5	31730	
T40	4.9	125	5	71840		5	11740		5	31840		2	32440		T40	3.9	99	5	31740	
T45	5.4	138	2	71845		1	11745		2	31845					T45	3.9	98	2	31745	
T50	6.2	156	2	71850		1	11750		2	31850					T50	3.8	97	2	31750	
T55	6.7	171	2	71855		1	11755		2	31855					T55	3.8	95	2	31755	
T60	7.2	182	2	71860					2	31860					T60	3.7	93	2	31760	

Screwdriver Singles

				ProHold® Tip		Tamper-Resistant Tip						Star Tip	
SIZE	QTY	INCH	MM	PART#	LIST EA	PART#	LIST EA	SIZE	QTY	INCH	MM	PART#	LIST EA
T6	1	4.3	108				33806	T5	2	4.0	102	34505	
T7	1	4.5	114				33807	T6	2	4.3	108	34506	
T8	1	4.8	121				33808	T7	2	4.5	114	34507	
T9	1	4.9	124	75509			33809	T8	2	4.8	121	34508	
T10	1	5.0	128	75510			33810	T9	2	4.9	124	34509	
T15	1	5.1	131	75515			33815	T10	2	5.0	128	34510	
T20	1	5.4	138	75520			33820	T15	2	5.1	131	34515	
T25	1	5.7	144	75525			33825	T20	2	5.4	138	34520	
T27	1	5.8	147	75527			33827	T25	2	5.7	144	34525	
T30	1	6.0	153	75530			33830	T27	2	5.8	147	34527	
T40	1	6.3	159	75540			33840	T30	2	6.0	153	34530	
T45	1	6.5	166	75545				T40	2	6.3	159	34540	
T50	1	6.8	172	75550				T45	1	6.5	166	34545	
T55	1	7.0	178	75555				T50	1	6.8	172	34550	
T60	1	7.3	185	75560				T55	1	7.0	178	34555	
								T60	1	7.3	185	34560	

				BallStar™ Tip	
SIZE	QTY	INCH	MM	PART#	LIST EA
T6	2	2.6	62	12706	
T7	2	2.6	62	12707	
T8	2	2.6	62	12708	
T9	2	2.6	62	12709	
T10	2	2.8	69	12710	
T15	2	2.9	73	12715	
T20	2	3.2	81	12720	
T25	2	3.4	87	12725	
T27	2	3.8	97	12727	
T30	2	4.2	106	12730	
T40	2	4.6	117	12740	
T45	1	5.2	132	12745	
T50	1	6.0	153	12750	
T55	1	6.8	172	12755	



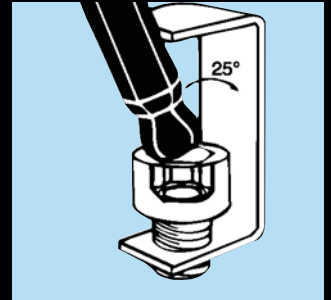
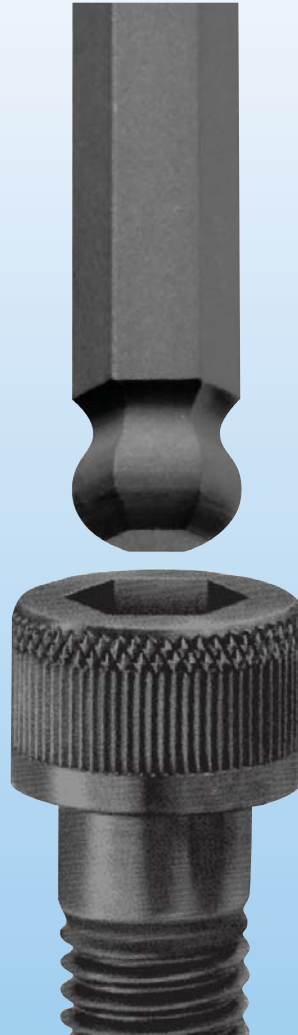
Ball End Tools



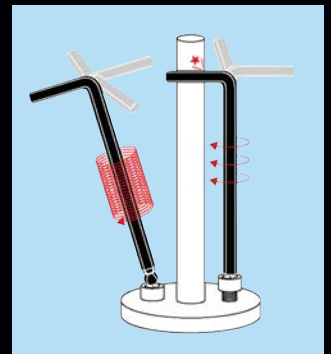
Balldriver[®] tools are tremendous time savers

High quality machining means:

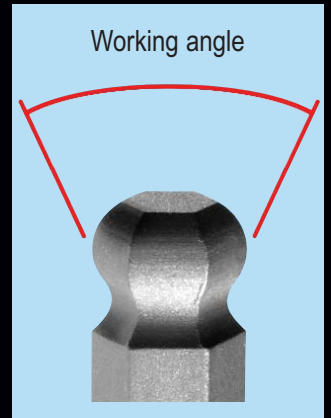
- Smooth rotational action
- Extended tip life
- Reduced fastener wear



Ball end tools insert into screw head quickly, from up to a 25° angle, even when working in blind locations



Work efficiently, even near obstructions



Engineered to deliver the perfect balance between tip strength and working angle

Color Coded

- Inch
- Metric
- Star

ProJenium High Torque Steel:

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

ProGuard Corrosion-resistant finish:

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

Ball End Tool Sets

Ball end Hex Key Sets

Inch Sizes

Inch Sizes													ProHold® Tip	ProGuard™	GoldGuard™	BliteGuard™	Stubby	PCS	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						PART#	MODEL#	LIST EA	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		✓				8	10932	BLX8	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		✓				12	10936	BLX12	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			✓			12	37936	BLX12G	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				✓		12	16936	BLX12B	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	PH	✓				13	74937	PBLX13	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		✓				13	10937	BLX13	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			✓			13	37937	BLX13G	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				✓		13	16937	BLX13B	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		✓				13	16537	SBLX13	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				✓		13	16737	SBLX13B	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		✓				13	in metal box	MBLX13	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	PH	✓				15	10933	MBLX13	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		✓				10	in vinyl roll up pouch	BLX15	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		✓				10	74938	PBLX10	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		✓				10	10938	BLX10	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			✓			10	37938	BLX10G	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		✓				10	16938	BLX10B	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				✓		10	16538	SBLX10	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				✓		10	16738	SBLX10B	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		✓				7	10945	BLX7	



Metric Sizes

Metric Sizes													ProHold® Tip	ProGuard™	GoldGuard™	BliteGuard™	Stubby	PCS	Extra Long			Long					
1.27	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	7.0	8.0	9.0	10.0						PART#	MODEL#	LIST EA	PART#	MODEL#	LIST EA		
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		✓				15				10995	BLX15M		
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			✓			15				38095	BLX15MG		
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				✓		15	17095	BLX15MB					
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			✓			6				10946	BLX6M		
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				✓		6				38046	BLX6MG		
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	PH	✓				6	17046	BLX6MB					
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		✓				7				74992	PBLX7M		
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		✓				7				10992	BLX7M		
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		✓				7				16592	SBLX7M		
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				✓		7	16792	SBLX7MB					
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				✓		7				38092	BLX7MG		
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	PH	✓				7	17092	BLX7MB					
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		✓				9				74999	PBLX9M		
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		✓				9				10999	BLX9M		
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		✓				9				16599	SBLX9M		
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				✓		9	16799	SBLX9MB					
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			✓			9				38099	BLX9MG		
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				✓		9	17099	BLX9MB					
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		✓				13				in metal box	10989	MBLX13M	












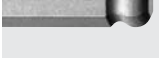







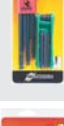













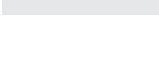






Ball End Tool Sets

Double Packs and Multi Packs

Combinations of our most popular sets







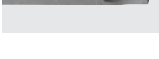




- Two sets per package
- Tip selections include Balldriver®, Hex, Star and ProHold® tips

TIPS	INCH SIZE	METRIC SIZE	STAR SIZE	TOOLS	PART#	MODEL #	LIST EA
   		1.5 - 10mm Ball end hex key set		16pcs	14187	BLF16	
 		2 - 8mm Hex tip GorillaGrip® fold up		22pcs	14189	BLF22	
 		.050 - 3/8 Ball end hex key set		22pcs	20199	BLX22	
 		5/64 - 1/4 Hex tip GorillaGrip® fold up		21pcs	20196	BLX21	
 		.050 - 5/16 Ball end hex key set		22pcs	20899	BLX22G <i>(with GoldGuard™ finish)</i>	
 		.050 - 3/8 Ball end GoldGuard™ hex key set		22pcs	20399	BLX22GB <i>(with BriteGuard™/GoldGuard™ finish)</i>	
 		.050 - 3/8 Ball end hex key set		22pcs	20599	SBLX22	
 		.050 - 3/8 Stubby Ball end hex key set		22pcs	20499	PBLX22	
 		.050 - 3/8 Ball end hex key set with ProHold® tip		17pcs	14126	BLF17S	
 		1.5 - 10mm Ball end hex key set	T6 - T25 GorillaGrip® fold up	17pcs	14128	BLF17	
 		1.5 - 10mm Ball end hex key set	T9 - T40 GorillaGrip® fold up	17pcs	22199	HLX22	
 		.050 - 3/8 Hex key Set		22pcs	22199	HLX22	

Triple Packs

Balldriver®, Hex & Star Tips

Three tool sets per package — two hex key sets and one GorillaGrip® Fold Up

TIPS	INCH SIZE	METRIC SIZE	STAR SIZE	TOOLS	PART#	MODEL #	LIST EA
 		.050 - 3/8 Ball end hex key set		34pcs	14130	BLF34	
 		5/64 - 5/32 and 1.5 - 5mm hex GorillaGrip® fold up		30pcs	14132	BLF30TS	
 		.050 - 3/8 Ball end hex key set	T6 - T25 Star GorillaGrip® fold up	30pcs	14138	BLF30T	
 		.050 - 3/8 Ball end hex key set	T9 - T40 Star GorillaGrip® fold up	30pcs	14138	BLF30T	

Ball End Tool Sets

T-Handle Sets



Inch Sizes



SIZE	PCS	PART#	MODEL #	LIST EA
3/32 – 3/8	10	13138	BTX10*	
5/32 – 3/8	6	13146	BTX60	
3/32 – 3/8	10	13190	BTX10/S†*	

Metric Sizes

SIZE	PCS	PART#	MODEL #	LIST EA
4 – 10mm	5	13148	BTX50M	
2 – 10mm	8	13187	BTX80M*	
2 – 10mm	8	13189	BTX80M/S†*	

*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.

† With stand

GorillaGrip® Sets



Inch Sizes



SIZE	PCS	PART#	MODEL #	LIST EA
3/16 – 3/8	5	12894	BF5	

Metric Sizes

SIZE	PCS	PART#	MODEL #	LIST EA
5 – 10mm	5	12897	BF5M	

Power Bit Sets

Inch Sizes



SIZE	PCS	PART#	MODEL #	LIST EA
5/64 – 1/2	12	10836	BHX12	

Metric Sizes

SIZE	PCS	PART#	MODEL #	LIST EA
2 – 12mm	9	10899	BHX9M	

BallStar™ Screwdriver Sets



SIZE	PCS	PART#	MODEL #	LIST EA
T9 – T40	8	13532	STX8	
T6 – T15	6	13546	STX6	

Screwdriver Sets

Inch Sizes



SIZE	PCS	PART#	MODEL #	LIST EA
.050 – 5/32	8	10632	BSX8S	
7/64 – 5/16	8	10633	BSX8	
.050 – 3/8	13	10637	BSX13	
5/64 – 3/16	7	10645	BSX7	
5/64 – 3/8	11	10737	BSX11L	

Metric Sizes

SIZE	PCS	PART#	MODEL #	LIST EA
------	-----	-------	---------	---------

Insert Bit Sets

Inch Sizes



SIZE	PCS	PART#	MODEL #	LIST EA
5/64 – 1/2	12	11036	BIX12	

Metric Sizes

SIZE	PCS	PART#	MODEL #	LIST EA
2 – 12mm	9	11099	BIX9M	

BallStar™ Key Sets



SIZE	PCS	PART#	MODEL #	LIST EA
T6 – T25	8	11331	LTX8S	
T9 – T40	8	11332	LTX8	
T6 – T15	6	11346	LTX6	



Stubby Tools



Low profile short arm allows entry into tight spots



Smaller inside radius for tight spaces

Ball end tip on long arm for fast insertion or extraction

Standard hex key can't fit in tight spots



Stubby hex keys eliminate the need to trim and file the short arm. A trimmed hex key introduces burrs, and still does not have the tight radius of a dedicated Stubby wrench.

Color Coded

- Inch
- Metric

ProJenium High Torque Steel:

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

ProGuard Corrosion-resistant finish:

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

Stubby Tools

Stubby Balldriver® Sets with ProGuard™ finish



Inch Sizes



Balldriver® Tip Long

SIZE	PCS	PART#	MODEL #	LIST EA
.050 – 3/8	13	16537	SBLX13	
1/16 – 1/4	10	16538	SBLX10	

Metric Sizes



Balldriver® Tip Long

SIZE	PCS	PART#	MODEL #	LIST EA
1.5 – 6mm	7	16592	SBLX7M	
1.5 – 10mm	9	16599	SBLX9M	

Stubby Balldriver® Sets with BriteGuard™ finish



Inch Sizes



Balldriver® Tip Long

SIZE	PCS	PART#	MODEL #	LIST EA
.050 – 3/8	13	16737	SBLX13B	
1/16 – 1/4	10	16738	SBLX10B	

Metric Sizes



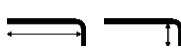
Balldriver® Tip Extra Long

SIZE	PCS	PART#	MODEL #	LIST EA
1.5 – 6mm	7	16792	SBLX7MB	
1.5 – 10mm	9	16799	SBLX9MB	

Stubby Balldriver® Singles with ProGuard™ finish



Inch Sizes



Balldriver® Tip Long

Tagged/Barcoded

Bulk

SIZE	INCH	MM	INCH	MM	QTY	PART#	LIST EA	QTY	PART#	LIST EA
.050	2.8	72	.19	5	5	16502		50	26502	
1/16	3.0	76	.16	4	5	16503		50	26503	
5/64	3.2	81	.27	7	5	16504		50	26504	
3/32	3.4	86	.29	7	5	16505		50	26505	
7/64	3.6	90	.30	8	5	16506		50	26506	
1/8	3.8	95	.32	8	5	16507		50	26507	
9/64	4.0	101	.33	8	5	16508		50	26508	
5/32	4.2	107	.35	9	5	16509		50	26509	
3/16	4.5	114	.39	10	5	16510		50	26510	
7/32	4.9	124	.46	12	2	16511		25	26511	
1/4	5.3	133	.46	12	2	16512		25	26512	
5/16	6.0	152	.57	14	2	16513		25	26513	
3/8	6.8	171	.71	18	2	16514		25	26514	

Metric Sizes



Balldriver® Tip Long

Tagged/Barcoded

Bulk

SIZE	INCH	MM	INCH	MM	QTY	PART#	LIST EA	QTY	PART#	LIST EA
1.27	2.8	72	.19	5	5	16549		50	26549	
1.5	3.0	77	.25	6	5	16550		50	26550	
2.0	3.2	82	.27	7	5	16552		50	26552	
2.5	3.5	88	.28	7	5	16554		50	26554	
3	3.9	98	.32	8	5	16556		50	26556	
4	4.3	110	.35	9	5	16560		50	26560	
5	4.7	119	.40	10	2	16564		25	26564	
6	5.5	139	.47	12	2	16568		25	26568	
8	6.0	162	.57	14	2	16572		25	26572	
10	6.7	187	.72	18	2	16576		25	26576	

Stubby Balldriver® Singles with BriteGuard™ finish



Inch Sizes



Balldriver® Tip Long

Tagged/Barcoded

Bulk

SIZE	INCH	MM	INCH	MM	QTY	PART#	LIST EA	QTY	PART#	LIST EA
.050	2.8	72	.19	5	5	16702		50	26702	
1/16	3.0	76	.16	4	5	16703		50	26703	
5/64	3.2	81	.27	7	5	16704		50	26704	
3/32	3.4	86	.29	7	5	16705		50	26705	
7/64	3.6	90	.30	8	5	16706		50	26706	
1/8	3.8	95	.32	8	5	16707		50	26707	
9/64	4.0	101	.33	8	5	16708		50	26708	
5/32	4.2	107	.35	9	5	16709		50	26709	
3/16	4.5	114	.39	10	5	16710		50	26710	
7/32	4.9	124	.46	12	2	16711		25	26711	
1/4	5.3	133	.46	12	2	16712		25	26712	
5/16	6.0	152	.57	14	2	16713		25	26713	
3/8	6.8	171	.71	18	2	16714		25	26714	

Metric Sizes



Balldriver® Tip Extra Long

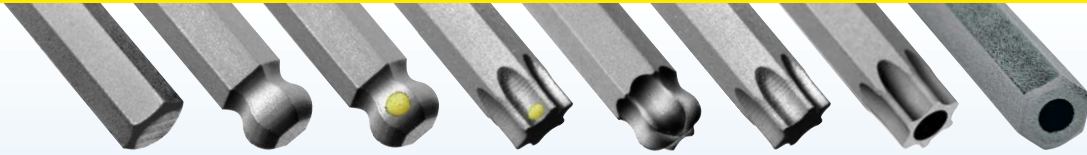
Tagged/Barcoded

Bulk

SIZE	INCH	MM	INCH	MM	QTY	PART#	LIST EA	QTY	PART#	LIST EA
1.27	2.8	72	.19	5	5	16749		50	26749	
1.5	3.5	90	.25	6	5	16750		50	26750	
2.0	3.9	100	.27	7	5	16752		50	26752	
2.5	4.4	112	.28	7	5	16754		50	26754	
3	5.0	126	.32	8	5	16756		50	26756	
4	5.6	142	.35	9	5	16760		50	26760	
5	6.3	160	.40	10	2	16764		25	26764	
6	6.8	172	.47	12	2	16768		25	26768	
8	7.7	195	.57	14	2	16772		25	26772	
10	8.4	224	.72	18	2	16776		25	26776	



Hex Key Tools



Chamfered tips for fast insertion and full tool engagement in the screw head

Twist-to-Lock case keeps keys organized by size

Sizes are printed on the case, making it easy to locate tools

Cases marked and color coded

Color Coded

- Inch
- Metric
- Star

ProJenium High Torque Steel:

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

ProGuard Corrosion-resistant finish:

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

Sorts and prevents loose or lost hex keys

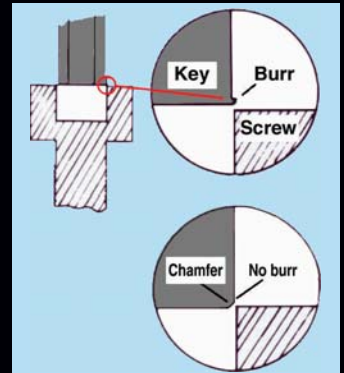


Twist to lock keys securely in place



Case may be used to increase leverage

Chamfered Bondhus key slides easily into screw head



Burr prevents key from fitting

Many other hex key sets available in sizes from: .028 to 3/4" and .71 to 19mm. Available in metal box or pouch.

Hex and Star wrenches are also available

Hex Key Sets

Extra Long, Long, Short & Stubby



Hex Key Sets

Inch Sizes

SIZE	LENGTH	Tip Type			PCS	ProHold® Tip			Balldriver® Tip			Hex Tip		
		ProGuard™	GoldGuard™	BriteGuard™		PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA
.050 – 5/32	Long	✓			8				10932	BLX8		12132	HLX8	
	Short	✓			8							12232	HLX8S	
.050 – 5/16	Long	✓			12				10936	BLX12		12136	HLX12	
	Long		✓		12				37936	BLX12G		38136	HLX12G	
	Long			✓	12				16936	BLX12B		16136	HLX12B	
	Short	✓			12							12236	HLX12S	
	Short			✓	12							16236	HLX12SB	
.050 – 3/8	Long	✓			13	74937	PBLX13		10937	BLX13		38236	HLX12SG	
	Long		✓		13				37937	BLX13G		12137	HLX13	
	Long			✓	13				16937	BLX13B		38137	HLX13G	
	Short	✓			13							16137	HLX13B	
	Short			✓	13							12237	HLX13S	
	Short			✓	13							16237	HLX13SB	
	Short			✓	13							38237	HLX13SG	
	Stubby	✓			13				16537	SBLX13				
	Stubby			✓	13				16737	SBLX13B				
	1/16 – 1/4	Long	✓			10	74938	PBLX10		10938	BLX10		12138	HLX10
Long			✓		10				37938	BLX10G		38138	HLX10G	
Long				✓	10				16938	BLX10B		16138	HLX10B	
Short		✓			10							12238	HLX10S	
Short				✓	10							16238	HLX10SB	
Short				✓	10							38238	HLX10SG	
Stubby		✓			10				16538	SBLX10				
Stubby				✓	10				16738	SBLX10B				
5/64 – 3/16	Long	✓			7				10945	BLX7		12145	HLX7	
	Short	✓			7							12245	HLX7S	

Metric Sizes


SIZE	LENGTH	Tip Type			PCS	ProHold® Tip			Balldriver® Tip			Hex Tip		
		ProGuard™	GoldGuard™	BriteGuard™		PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA
1.5 – 5mm	Long		✓		6				38046	BLX6MG		39146	HLX6MG	
	Extra Long			✓	6				17046	BLX6MB		17146	HLX6MB	
	Long	✓			6				10946	BLX6M		12146	HLX6M	
	Short	✓			6							12246	HLX6MS	
	Short			✓	6							16246	HLX6MSB	
1.5 – 6mm	Long		✓		7							38246	HLX6MSG	
	Extra Long			✓	7				38092	BLX7MG		39192	HLX7MG	
	Long	✓			7	74992	PBLX7M		17092	BLX7MB		17192	HLX7MB	
	Short	✓			7				10992	BLX7M		12192	HLX7M	
	Short			✓	7							12292	HLX7MS	
	Short			✓	7							16292	HLX7MSB	
	Stubby	✓			7				16592	SBLX7M		38292	HLX7MSG	
	Stubby			✓	7				16792	SBLX7MB				
1.5 – 10mm	Long		✓		9				38099	BLX9MG		39199	HLX9MG	
	Extra Long			✓	9				17099	BLX9MB		17199	HLX9MB	
	Long	✓			9	74999	PBLX9M		10999	BLX9M		12199	HLX9M	
	Short	✓			9							12299	HLX9MS	
	Short			✓	9							16299	HLX9MSB	
	Short			✓	9							38299	HLX9MSG	
	Stubby	✓			9				16599	SBLX9M				
1.27 – 10mm	Long	✓			15				10995	BLX15M		12195	HLX15M	
	Long		✓		15				38095	BLX15MG		39195	HLX15MG	
	Extra Long			✓	15				17095	BLX15MB		17195	HLX15MB	

Hex Keys

Balldriver® & Hex Singles with ProGuard™ finish

Long

Inch Sizes



			ProHold® Tip Long			Balldriver® Tip Long			Hex Tip Long								
			Tagged/Barcoded			Bulk			Tagged/Barcoded			Bulk					
SIZE	INCH	MM	QTY	PART#	LIST EA	QTY	PART#	LIST EA	QTY	PART#	LIST EA	QTY	PART#	LIST EA	QTY	PART#	LIST EA
.028	2.6	66										10	15900		100	13900	
.035	2.7	68										10	15901		100	13901	
.050	2.8	72	5	75702		25	75902		10	15702		100	12902		100	13902	
1/16	3.0	76	5	75703		25	75903		10	15703		100	12903		100	13903	
5/64	3.2	81	5	75704		25	75904		10	15704		100	12904		100	13904	
3/32	3.4	86	5	75705		25	75905		10	15705		100	12905		100	13905	
7/64	3.6	90	5	75706		25	75906		10	15706		100	12906		100	13906	
1/8	3.8	95	5	75707		25	75907		10	15707		100	12907		100	13907	
9/64	4.0	101	5	75708		25	75908		10	15708		100	12908		100	13908	
5/32	4.2	107	5	75709		25	75909		10	15709		100	12909		100	13909	
3/16	4.5	114	5	75710		25	75910		10	15710		100	12910		100	13910	
7/32	4.9	124	2	75711		10	75911		5	15711		50	12911		50	13911	
1/4	5.3	133	2	75712		10	75912		5	15712		50	12912		50	13912	
5/16	6.0	152	2	75713		10	75913		5	15713		50	12913		50	13913	
3/8	6.8	171	2	75714		10	75914		5	15714		50	12914		50	13914	
7/16	7.5	191							1	15715		25	12915		25	13915	
1/2	8.3	210							1	15716		25	12916		25	13916	
9/16	9.0	229							1	15717		10	12917		10	13917	
5/8	9.8	248							1	15718		10	12918		10	13918	
3/4	11.3	287							1	15719		5	12919		5	13919	

Metric Sizes

See page 32 for larger sizes.

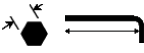
			ProHold® Tip Long			Balldriver® Tip Long			Hex Tip Long								
			Tagged/Barcoded			Bulk			Tagged/Barcoded			Bulk					
SIZE	INCH	MM	QTY	PART#	LIST EA	QTY	PART#	LIST EA	QTY	PART#	LIST EA	QTY	PART#	LIST EA	QTY	PART#	LIST EA
0.71	2.6	66										10	15947		100	13947	
0.89	2.7	68										10	15948		100	13948	
1.27	2.8	72	5	75749		25	75949		10	15749		100	12949		100	13949	
1.5	3.0	77	5	75750		25	75950		10	15750		100	12950		100	13950	
2.0	3.2	82	5	75752		25	75952		10	15752		100	12952		100	13952	
2.5	3.5	88	5	75754		25	75954		10	15754		100	12954		100	13954	
3.0	3.9	98	5	75756		25	75956		10	15756		100	12956		100	13956	
3.5	3.9	100							1	15758		100	12958		100	13958	
4.0	4.3	109	5	75760		25	75960		10	15760		100	12960		100	13960	
4.5	4.5	114							1	15762		100	12962		100	13962	
5.0	4.7	119	2	75764		25	75964		5	15764		100	12964		100	13964	
5.5	4.9	124							1	15766		50	12966		50	13966	
6	5.5	139	2	75768		10	75968		5	15768		50	12968		50	13968	
7	5.5	150							1	15770		50	12970		50	13970	
8	6.0	162	2	75772		10	75972		5	15772		50	12972		50	13972	
9	6.3	175							1	15774		50	12974		50	13974	
10	6.7	187	2	75776		10	75976		5	15776		50	12976		50	13976	
11	7.9	200							1	15778		25	12978		25	13978	
12	8.7	220							1	15780		25	12980		25	13980	
14	10.2	259							1	15784		10	12984		10	13984	
17	11.0	280							1	15786		10	12986		10	13986	
19	11.6	295							1	15788		5	12988		5	13988	

See page 32 for larger sizes.

Hex Keys

Balldriver® & Hex Singles with ProGuard™ finish Short & Stubby

Inch Sizes

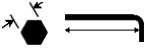


Hex Tip Short
Tagged/Barcoded | Bulk

SIZE	INCH	MM	QTY	PART#	LIST EA	QTY	PART#	LIST EA
.028	1.2	31	10	15800		100	13800	
.035	1.2	31	10	15801		100	13801	
.050	1.6	42	10	15802		100	13802	
1/16	1.8	45	10	15803		100	13803	
5/64	1.9	48	10	15804		100	13804	
3/32	2.0	51	10	15805		100	13805	
7/64	2.1	54	10	15806		100	13806	
1/8	2.3	58	10	15807		100	13807	
9/64	2.4	61	10	15808		100	13808	
5/32	2.5	64	10	15809		100	13809	
3/16	2.8	70	10	15810		100	13810	
7/32	3.0	77	5	15811		50	13811	
1/4	3.3	83	5	15812		50	13812	
5/16	3.8	96	5	15813		50	13813	
3/8	4.3	108	5	15814		50	13814	
7/16	4.8	121	1	15815		50	13815	
1/2	5.3	133	1	15816		50	13816	
9/16	5.8	146	1	15817		25	13817	
5/8	6.3	159	1	15818		20	13818	
3/4	7.3	184	1	15819		15	13819	

Metric Sizes

See page 32 for larger sizes.




Hex Tip Short
Tagged/Barcoded | Bulk

SIZE	INCH	MM	QTY	PART#	LIST EA	QTY	PART#	LIST EA
.71	1.2	31	10	15847		100	13847	\$0.21
.89	1.2	31	10	15848		100	13848	0.21
1.27	1.6	42	10	15849		100	13849	0.12
1.5	1.7	44	10	15850		100	13850	0.12
2.0	1.9	49	10	15852		100	13852	0.14
2.5	2.1	54	10	15854		100	13854	0.15
3.0	2.4	61	10	15856		100	13856	0.15
3.5	2.6	65	1	15858		100	13858	0.17
4.0	2.7	68	10	15860		100	13860	0.17
4.5	2.9	73	1	15862		100	13862	0.30
5.0	3.1	78	5	15864		100	13864	0.30
5.5	3.3	83	1	15866		50	13866	0.44
6	3.5	88	5	15868		50	13868	0.44
7	3.7	93	1	15870		50	13870	0.76
8	3.9	98	5	15872		50	13872	0.76
9	4.0	102	1	15874		50	13874	1.34
10	4.3	109	5	15876		50	13876	1.34
11	4.5	115	1	15878		50	13878	3.40
12	4.8	122	1	15880		50	13880	3.40
14	5.4	136	1	15884		25	13884	4.68
17	6.1	156	1	15886		20	13886	5.19
19	6.9	175	1	15888		15	13888	8.82

See page 32 for larger sizes.


Inch Sizes



Balldriver® Tip Stubby Long
Tagged/Barcoded | Bulk

SIZE	INCH	MM	INCH	MM	QTY	PART#	LIST EA	QTY	PART#	LIST EA
.050	2.8	72	.19	5	5	16502		50	26502	
1/16	3.0	76	.16	4	5	16503		50	26503	
5/64	3.2	81	.27	7	5	16504		50	26504	
3/32	3.4	86	.29	7	5	16505		50	26505	
7/64	3.6	90	.30	8	5	16506		50	26506	
1/8	3.8	95	.32	8	5	16507		50	26507	
9/64	4.0	101	.33	8	5	16508		50	26508	
5/32	4.2	107	.35	9	5	16509		50	26509	
3/16	4.5	114	.39	10	5	16510		50	26510	
7/32	4.9	124	.46	12	2	16511		25	26511	
1/4	5.3	133	.46	12	2	16512		25	26512	
5/16	6.0	152	.57	14	2	16513		25	26513	
3/8	6.8	171	.71	18	2	16514		25	26514	

Metric Sizes



Balldriver® Tip Stubby Long
Tagged/Barcoded | Bulk


SIZE	INCH	MM	INCH	MM	QTY	PART#	LIST EA	QTY	PART#	LIST EA
1.27	2.8	72	.19	5	5	16549		50	26549	
1.5	3.0	77	.25	6	5	16550		50	26550	
2.0	3.2	82	.27	7	5	16552		50	26552	
2.5	3.5	88	.28	7	5	16554		50	26554	
3	3.9	98	.32	8	5	16556		50	26556	
4	4.3	110	.35	9	5	16560		50	26560	
5	4.7	119	.40	10	2	16564		25	26564	
6	5.5	139	.47	12	2	16568		25	26568	
8	6.0	162	.57	14	2	16572		25	26572	
10	6.7	187	.72	18	2	16576		25	26576	



Hex Keys

Balldriver® & Hex Singles with BriteGuard™ finish Long & Extra Long


Inch Sizes



Balldriver® Tip Long
Tagged/Barcoded

SIZE	INCH	MM	Tagged/Barcoded			Bulk		
			QTY	PART#	LIST EA	QTY	PART#	LIST EA
.028	2.6	66						
.035	2.7	68						
.050	2.8	72	10	16902		50	26902	
1/16	3.0	76	10	16903		50	26903	
5/64	3.2	81	10	16904		50	26904	
3/32	3.4	86	10	16905		50	26905	
7/64	3.6	90	10	16906		50	26906	
1/8	3.8	95	10	16907		50	26907	
9/64	4.0	101	10	16908		50	26908	
5/32	4.2	107	10	16909		50	26909	
3/16	4.5	114	10	16910		50	26910	
7/32	4.9	124	5	16911		25	26911	
1/4	5.3	133	5	16912		25	26912	
5/16	6.0	152	5	16913		25	26913	
3/8	6.8	171	5	16914		25	26914	
7/16	7.5	191	1	16915				
1/2	8.3	210	1	16916				
9/16	9.0	229	1	16917				
5/8	9.8	248	1	16918				
3/4	11.3	286	1	16919				


Metric Sizes



Balldriver® Tip Extra Long
Tagged/Barcoded

SIZE	INCH	MM	Tagged/Barcoded			Bulk		
			QTY	PART#	LIST EA	QTY	PART#	LIST EA
.71	2.6	66						
.89	2.7	68						
1.27	2.8	72	10	17049		50	27049	
1.5	3.5	90	10	17050		50	27050	
2.0	3.9	100	10	17052		50	27052	
2.5	4.4	112	10	17054		50	27054	
3.0	5.0	126	10	17056		50	27056	
3.5	5.2	133	1	17058		50	27058	
4.0	5.6	142	10	17060		50	27060	
4.5	5.9	151	1	17062		50	27062	
5.0	6.3	160	5	17064		50	27064	
5.5	6.8	172	1	17066		25	27066	
6	6.8	172	5	17068		25	27068	
7	7.2	184	1	17070		25	27070	
8	7.7	195	5	17072		25	27072	
9	8.0	209	1	17074		25	27074	
10	8.4	224	5	17076		10	27076	
11	7.9	200	1	17078		10	27078	
12	8.7	220	1	17080		10	27080	
14	10.2	260	1	17084				
17	11.0	280	1	17086				
19	11.6	295	1	17088				


Inch Sizes



Hex Tip Long
Tagged/Barcoded

SIZE	INCH	MM	Tagged/Barcoded			Bulk		
			QTY	PART#	LIST EA	QTY	PART#	LIST EA
.028	2.6	66	10	16100		50	26100	
.035	2.7	68	10	16101		50	26101	
.050	2.8	72	10	16102		50	26102	
1/16	3.0	76	10	16103		50	26103	
5/64	3.2	81	10	16104		50	26104	
3/32	3.4	86	10	16105		50	26105	
7/64	3.6	90	10	16106		50	26106	
1/8	3.8	95	10	16107		50	26107	
9/64	4.0	101	10	16108		50	26108	
5/32	4.2	107	10	16109		50	26109	
3/16	4.5	114	10	16110		50	26110	
7/32	4.9	124	5	16111		25	26111	
1/4	5.3	133	5	16112		25	26112	
5/16	6.0	152	5	16113		25	26113	
3/8	6.8	171	5	16114		25	26114	
7/16	7.5	191	1	16115				
1/2	8.3	210	1	16116				
9/16	9.0	229	1	16117				
5/8	9.8	248	1	16118				
3/4	11.3	286	1	16119				

Metric Sizes



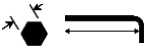
Hex Tip Extra Long
Tagged/Barcoded

SIZE	INCH	MM	Tagged/Barcoded			Bulk		
			QTY	PART#	LIST EA	QTY	PART#	LIST EA
.71	2.6	66	10	17147		50	27147	
.89	2.7	68	10	17148		50	27148	
1.27	2.8	72	10	17149		50	27149	
1.5	3.5	90	10	17150		50	27150	
2.0	3.9	100	10	17152		50	27152	
2.5	4.4	112	10	17154		50	27154	
3.0	5.0	126	10	17156		50	27156	
3.5	5.2	133	1	17158		50	27158	
4.0	5.6	142	10	17160		50	27160	
4.5	5.9	151	1	17162		50	27162	
5.0	6.3	160	5	17164		50	27164	
5.5	6.8	172	1	17166		25	27166	
6	6.8	172	5	17168		25	27168	
7	7.2	184	1	17170		25	27170	
8	7.7	195	5	17172		25	27172	
9	8.0	209	1	17174		25	27174	
10	8.4	224	5	17176		10	27176	
11	7.9	200	1	17178		10	27178	
12	8.7	220	1	17180		10	27180	
14	10.2	260	1	17184				
17	11.0	280	1	17186				
19	11.6	295	1	17188				

Hex Keys

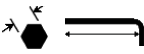
Balldriver® & Hex Singles with BriteGuard™ finish Short & Stubby

Inch Sizes




Hex Tip Short			Tagged/Barcoded			Bulk		
SIZE	INCH	MM	QTY	PART#	LIST EA	QTY	PART#	LIST EA
.028	1.2	31	10	16200		50	26200	
.035	1.2	31	10	16201		50	26201	
.050	1.6	42	10	16202		50	26202	
1/16	1.8	45	10	16203		50	26203	
5/64	1.9	48	10	16204		50	26204	
3/32	2.0	51	10	16205		50	26205	
7/64	2.1	54	10	16206		50	26206	
1/8	2.3	58	10	16207		50	26207	
9/64	2.4	61	10	16208		50	26208	
5/32	2.5	64	10	16209		50	26209	
3/16	2.8	70	10	16210		50	26210	
7/32	3.0	77	5	16211		25	26211	
1/4	3.3	83	5	16212		25	26212	
5/16	3.8	96	5	16213		25	26213	
3/8	4.3	108	5	16214		25	26214	
7/16	4.8	121	1	16215				
1/2	5.3	133	1	16216				
9/16	5.8	146	1	16217				
5/8	6.3	159	1	16218				
3/4	7.3	184	1	16219				

Metric Sizes




Hex Tip Short			Tagged/Barcoded			Bulk		
SIZE	INCH	MM	QTY	PART#	LIST EA	QTY	PART#	LIST EA
.71	1.2	31	10	16247		50	26247	
.89	1.2	31	10	16248		50	26248	
1.27	1.6	42	10	16249		50	26249	
1.5	1.7	44	10	16250		50	26250	
2.0	1.9	49	10	16252		50	26252	
2.5	2.1	54	10	16254		50	26254	
3.0	2.4	61	10	16256		50	26256	
3.5	2.6	65	1	16258		50	26258	
4.0	2.7	68	10	16260		50	26260	
4.5	2.9	73	1	16262		50	26262	
5.0	3.1	78	5	16264		50	26264	
5.5	3.3	83	1	16266		25	26266	
6	3.5	88	5	16268		25	26268	
7	3.7	93	1	16270		25	26270	
8	3.9	98	5	16272		25	26272	
9	4.0	102	1	16274		25	26274	
10	4.3	109	5	16276		10	26276	
11	4.5	115	1	16278		10	26278	
12	4.8	122	1	16280		10	26280	
14	5.4	136	1	16284				
17	6.1	154	1	16286				
19	6.9	175	1	16288				

Inch Sizes



Balldriver® Tip Stubby Long						Tagged/Barcoded			Bulk		
SIZE	INCH	MM	INCH	MM		QTY	PART#	LIST EA	QTY	PART#	LIST EA
.050	2.8	72	.19	5		5	16702		50	26702	
1/16	3.0	76	.16	4		5	16703		50	26703	
5/64	3.2	81	.27	7		5	16704		50	26704	
3/32	3.4	86	.29	7		5	16705		50	26705	
7/64	3.6	90	.30	8		5	16706		50	26706	
1/8	3.8	95	.32	8		5	16707		50	26707	
9/64	4.0	101	.33	8		5	16708		50	26708	
5/32	4.2	107	.35	9		5	16709		50	26709	
3/16	4.5	114	.39	10		5	16710		50	26710	
7/32	4.9	124	.46	12		2	16711		25	26711	
1/4	5.3	133	.46	12		2	16712		25	26712	
5/16	6.0	152	.57	14		2	16713		25	26713	
3/8	6.8	171	.71	18		2	16714		25	26714	

Metric Sizes




Balldriver® Tip Stubby Extra Long						Tagged/Barcoded			Bulk		
SIZE	INCH	MM	INCH	MM		QTY	PART#	LIST EA	QTY	PART#	LIST EA
1.27	2.8	72	.19	5		5	16749		50	26749	
1.5	3.5	90	.25	6		5	16750		50	26750	
2.0	3.9	100	.27	7		5	16752		50	26752	
2.5	4.4	112	.28	7		5	16754		50	26754	
3	5.0	126	.32	8		5	16756		50	26756	
4	5.6	142	.35	9		5	16760		50	26760	
5	6.3	160	.40	10		2	16764		25	26764	
6	6.8	172	.47	12		2	16768		25	26768	
8	7.7	195	.57	14		2	16772		25	26772	
10	8.4	224	.72	18		2	16776		25	26776	

Hex Keys

Hex Singles with GoldGuard™ finish Long & Short Singles


Inch Sizes



Hex Tip Long
Tagged/Barcoded

SIZE	INCH	MM	Tagged/Barcoded			Bulk		
			QTY	PART#	LIST EA	QTY	PART#	LIST EA
.028	2.6	66	10	38100		50	28100	
.035	2.7	68	10	38101		50	28101	
.050	2.8	72	10	38102		50	28102	
1/16	3.0	76	10	38103		50	28103	
5/64	3.2	81	10	38104		50	28104	
3/32	3.4	86	10	38105		50	28105	
7/64	3.6	90	10	38106		50	28106	
1/8	3.8	95	10	38107		50	28107	
9/64	4.0	101	10	38108		50	28108	
5/32	4.2	107	10	38109		50	28109	
3/16	4.5	114	10	38110		50	28110	
7/32	4.9	124	5	38111		25	28111	
1/4	5.3	133	5	38112		25	28112	
5/16	6.0	152	5	38113		25	28113	
3/8	6.8	171	5	38114		25	28114	
7/16	7.5	191	1	38115				
1/2	8.3	210	1	38116				
9/16	9.0	229	1	38117				
5/8	9.8	248	1	38118				
3/4	11.3	286	1	38119				


Metric Sizes



Hex Tip Long
Tagged/Barcoded

SIZE	INCH	MM	Tagged/Barcoded			Bulk		
			QTY	PART#	LIST EA	QTY	PART#	LIST EA
.71	2.6	66	10	39147		50	29147	
.89	2.7	68	10	39148		50	29148	
1.27	2.8	72	10	39149		50	29149	
1.5	3.0	77	10	39150		50	29150	
2.0	3.2	82	10	39152		50	29152	
2.5	3.5	88	10	39154		50	29154	
3.0	3.9	98	10	39156		50	29156	
3.5	3.9	100	1	39158		50	29158	
4.0	4.3	109	10	39160		50	29160	
4.5	4.5	114	1	39162		50	29162	
5.0	4.7	119	5	39164		50	29164	
5.5	4.9	124	1	39166		25	29166	
6	5.5	139	5	39168		25	29168	
7	5.5	150	1	39170		25	29170	
8	6.0	162	5	39172		25	29172	
9	6.3	175	1	39174		25	29174	
10	6.7	187	5	39176		10	29176	
11	7.9	200	1	39178		10	29178	
12	8.7	220	1	39180		10	29180	
14	10.2	260	1	39184				
17	11.0	280	1	39186				
19	11.6	295	1	39188				


Inch Sizes



Hex Tip Short
Tagged/Barcoded

SIZE	INCH	MM	Tagged/Barcoded			Bulk		
			QTY	PART#	LIST EA	QTY	PART#	LIST EA
.028	1.2	31	10	38200		50	28200	
.035	1.2	31	10	38201		50	28201	
.050	1.6	42	10	38202		50	28202	
1/16	1.8	45	10	38203		50	28203	
5/64	1.9	48	10	38204		50	28204	
3/32	2.0	51	10	38205		50	28205	
7/64	2.1	54	10	38206		50	28206	
1/8	2.3	58	10	38207		50	28207	
9/64	2.4	61	10	38208		50	28208	
5/32	2.5	64	10	38209		50	28209	
3/16	2.8	70	10	38210		50	28210	
7/32	3.0	77	5	38211		25	28211	
1/4	3.3	83	5	38212		25	28212	
5/16	3.8	96	5	38213		25	28213	
3/8	4.3	108	5	38214		25	28214	
7/16	4.8	121	1	38215				
1/2	5.3	133	1	38216				
9/16	5.8	146	1	38217				
5/8	6.3	159	1	38218				
3/4	7.3	184	1	38219				

Metric Sizes




Hex Tip Short
Tagged/Barcoded

SIZE	INCH	MM	Tagged/Barcoded			Bulk		
			QTY	PART#	LIST EA	QTY	PART#	LIST EA
.71	1.2	31	10	38247		50	28247	
.89	1.2	31	10	38248		50	28248	
1.27	1.6	42	10	38249		50	28249	
1.5	1.7	44	10	38250		50	28250	
2.0	1.9	48	10	38252		50	28252	
2.5	2.1	54	10	38254		50	28254	
3.0	2.4	61	10	38256		50	28256	
3.5	2.6	65	1	38258		50	28258	
4.0	2.7	68	10	38260		50	28260	
4.5	2.9	73	1	38262		50	28262	
5.0	3.1	78	5	38264		50	28264	
5.5	3.3	83	1	38266		25	28266	
6	3.5	88	5	38268		25	28268	
7	3.7	93	1	38270		25	28270	
8	3.9	98	5	38272		25	28272	
9	4.0	102	1	38274		25	28274	
10	4.3	109	5	38276		10	28276	
11	4.5	115	1	38278		10	28278	
12	4.8	122	1	38280		10	28280	
14	5.4	136	1	38284				
17	6.1	156	1	38286				
19	6.9	175	1	38288				

Hex Keys


Balldriver® Singles with GoldGuard™ finish Long

Inch Sizes



Balldriver® Tip Long Tagged/Barcoded			Bulk					
SIZE	INCH	MM	QTY	PART#	LIST EA	QTY	PART#	LIST EA
.050	2.8	72	10	37902		50	27902	
1/16	3.0	76	10	37903		50	27903	
5/64	3.2	81	10	37904		50	27904	
3/32	3.4	86	10	37905		50	27905	
7/64	3.6	90	10	37906		50	27906	
1/8	3.8	95	10	37907		50	27907	
9/64	4.0	101	10	37908		50	27908	
5/32	4.2	107	10	37909		50	27909	
3/16	4.5	114	10	37910		50	27910	
7/32	4.9	124	5	37911		25	27911	
1/4	5.3	133	5	37912		25	27912	
5/16	6.0	152	5	37913		25	27913	
3/8	6.8	171	5	37914		25	27914	
7/16	7.5	191	1	37915				
1/2	8.3	210	1	37916				
9/16	9.0	229	1	37917				
5/8	9.8	248	1	37918				
3/4	11.3	286	1	37919				


Metric Sizes



Balldriver® Tip Long Tagged/Barcoded			Bulk					
SIZE	INCH	MM	QTY	PART#	LIST EA	QTY	PART#	LIST EA
1.27	2.8	72	10	38049		50	28049	
1.5	3.0	77	10	38050		50	28050	
2.0	3.2	82	10	38052		50	28052	
2.5	3.5	88	10	38054		50	28054	
3.0	3.9	98	10	38056		50	28056	
3.5	3.9	100	1	38058		50	28058	
4.0	4.3	109	10	38060		50	28060	
4.5	4.5	114	1	38062		50	28062	
5.0	4.7	119	5	38064		50	28064	
5.5	4.9	124	1	38066		25	28066	
6	5.5	139	5	38068		25	28068	
7	5.5	150	1	38070		25	28070	
8	6.0	162	5	38072		25	28072	
9	6.3	175	1	38074		25	28074	
10	6.7	187	5	38076		10	28076	
11	7.9	200	1	38078		10	28078	
12	8.7	220	1	38080		10	28080	
14	10.2	260	1	38084				
17	11.0	280	1	38086				
19	11.6	295	1	38088				

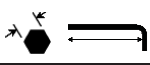
Hex Tamper Resistant Singles with ProGuard™ finish

Inch Sizes



SIZE	INCH	MM	QTY	PART#	LIST EA
3/32	3.4	86	5	48305	
1/8	3.8	95	5	48307	
5/32	4.2	107	5	48309	
3/16	4.5	114	5	48310	
7/32	4.9	124	5	48311	
1/4	5.3	133	5	48312	
5/16	6.0	152	5	48313	
3/8	6.8	171	2	48314	

Tamper Resistant Tip Long



SIZE	INCH	MM	QTY	PART#	LIST EA
2.5	3.5	88	5	48354	
3.0	3.9	98	5	48356	
4.0	4.3	109	5	48360	
5.0	4.7	119	5	48364	
6.0	5.5	139	5	48368	
8.0	6.0	162	5	48372	
10.0	6.7	187	2	48376	

Hex Tamper Resistant Sets with ProGuard™ finish



Hex Tamper Resistant Tip

SIZE	PCS	PART#	MODEL	LIST EA
3/32-3/8	8	48332	HTR8	

Hex Tamper Resistant Tip

SIZE	PCS	PART#	MODEL	LIST EA
2.5-8mm	6	48386	HTR6M	

Bondhex™ cases provide a convenient means of keeping hex keys neat and organized. Sizes are printed on the case and allow identification at a glance.

Cases are color coded yellow for inch, red for metric, and green for Star tools. Case can be used in conjunction with the tool to increase torque.



Inch Sizes

SIZE	QTY	PART#	DESC	LIST EA
.050 - 5/32	10	18032	Holds 8 Tools	
.050 - 5/16	10	18036	Holds 12 Tools	
.050 - 3/8	10	18037	Holds 13 Tools	
1/16 - 1/4	10	18038	Holds 10 Tools	
5/64 - 3/16	10	18045	Holds 7 Tools	

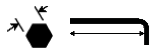
Metric Sizes

SIZE	QTY	PART#	DESC	LIST EA
1.5 - 5mm	10	18046	Holds 6 Tools	
1.5 - 10mm	10	18099	Holds 9 Tools	

Hex Keys

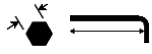
Balldriver® & Hex Singles with ProGuard™ finish Packaged Quantities Long & Short

Inch Sizes



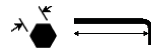
SIZE	INCH	MM	QTY	Balldriver® Tip Long		Hex Tip Long	
				PART#	LIST EA	PART#	LIST EA
.028	2.6	66	10			12100	
.035	2.7	68	10			12101	
.050	2.8	72	10	10902		12102	
1/16	3.0	76	10	10903		12103	
5/64	3.2	81	10	10904		12104	
3/32	3.4	86	10	10905		12105	
7/64	3.6	90	10	10906		12106	
1/8	3.8	95	10	10907		12107	
9/64	4.0	101	10	10908		12108	
5/32	4.2	107	10	10909		12109	
3/16	4.5	114	10	10910		12110	
7/32	4.9	124	5	10911		12111	
1/4	5.3	133	5	10912		12112	
5/16	6.0	152	5	10913		12113	
3/8	6.8	171	5	10914		12114	
7/16	7.5	191	1	10915		12115	
1/2	8.3	210	1	10916		12116	
9/16	9.0	229	1	10917		12117	
5/8	9.8	248	1	10918		12118	
3/4	11.3	287	1	10919		12119	
7/8	12.8	325	1			12120	
1	14.2	362	1			12121	
1 1/4	17.1	435	1			12125	
1 1/2	20.4	518	1			12129	

Metric Sizes



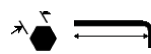
SIZE	INCH	MM	QTY	Balldriver® Tip Long		Hex Tip Long	
				PART#	LIST EA	PART#	LIST EA
.71	2.6	66	10			12147	
.89	2.7	68	10			12148	
1.27	2.8	72	10	10949		12149	
1.5	3.0	77	10	10950		12150	
2.0	3.2	82	10	10952		12152	
2.5	3.5	88	10	10954		12154	
3.0	3.9	98	10	10956		12156	
3.5	3.9	100	1	10958		12158	
4.0	4.3	109	10	10960		12160	
4.5	4.5	114	1	10962		12162	
5.0	4.7	119	5	10964		12164	
5.5	4.9	124	1	10966		12166	
6	5.5	139	5	10968		12168	
7	5.5	150	1	10970		12170	
8	6.0	162	5	10972		12172	
9	6.3	175	1	10974		12174	
10	6.7	187	5	10976		12176	
11	7.9	200	1	10978		12178	
12	8.7	220	1	10980		12180	
14	10.2	259	1	10984		12184	
17	11.0	280	1	10986		12186	
19	11.6	295	1	10988		12188	
22	13.0	330	1			12191	
24	14.5	370	1			12193	
27	—	—	—			—	—
32	17.1	435	1			12196	
36	20.5	520	1			12198	

Inch Sizes



SIZE	INCH	MM	QTY	Hex Tip Short	
				PART#	LIST EA
.028	1.2	31	10	12200	
.035	1.2	31	10	12201	
.050	1.6	42	10	12202	
1/16	1.8	45	10	12203	
5/64	1.9	48	10	12204	
3/32	2.0	51	10	12205	
7/64	2.1	54	10	12206	
1/8	2.3	58	10	12207	
9/64	2.4	61	10	12208	
5/32	2.5	64	10	12209	
3/16	2.8	70	10	12210	
7/32	3.0	77	5	12211	
1/4	3.3	83	5	12212	
5/16	3.8	96	5	12213	
3/8	4.3	108	5	12214	
7/16	4.8	121	1	12215	
1/2	5.3	133	1	12216	
9/16	5.8	146	1	12217	
5/8	6.3	159	1	12218	
3/4	7.3	184	1	12219	
7/8	8.2	210	1	12220	
1	9.2	235	1	12221	
1 1/4	11.2	286	1	12225	
1 1/2	13.2	336	1	12229	
1 3/4	13.5	343	1	12231	
2	15.3	387	1	12233	

Metric Sizes



SIZE	INCH	MM	QTY	Hex Tip Short	
				PART#	LIST EA
.71	1.2	31	10	12247	
.89	1.2	31	10	12248	
1.27	1.6	42	10	12249	
1.5	1.7	44	10	12250	
2.0	1.9	49	10	12252	
2.5	2.1	54	10	12254	
3.0	2.4	61	10	12256	
3.5	2.6	65	1	12258	
4.0	2.7	68	10	12260	
4.5	2.9	73	1	12262	
5.0	3.1	78	5	12264	
5.5	3.3	83	1	12266	
6	3.5	88	5	12268	
7	3.7	93	1	12270	
8	3.9	98	5	12272	
9	4.0	102	1	12274	
10	4.3	109	5	12276	
11	4.5	115	1	12278	
12	4.8	122	1	12280	
14	5.4	136	1	12284	
17	6.1	156	1	12286	
19	6.9	175	1	12288	
22	7.7	195	1	12291	
24	8.6	219	1	12293	
27	9.6	244	1	12295	
32	12.1	307	1	12296	
36	13.6	346	1	12298	

Star Keys

Star Key Sets with ProGuard™ finish

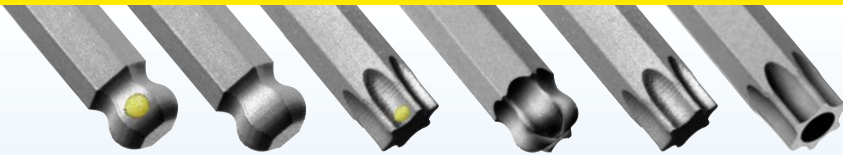


★	ProHold® Star Tip			BallStar™ Tip			Star Tip			Tamper-Resistant Tip				
	SIZE	PCS	PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA
	Long Arm:													
	T6 – T25	8				11331	LTX8S		31832	TLX8S		32432	TR-TL8S	
	T9 – T40	8	71834	PHTX8		11332	LTX8		31834	TLX8		32434	TR-TL8	
	T6 – T15	6				11346	LTX6							
	Short Arm:													
	T6 – T25	8							31732	TLXS8S				
	T9 – T40	8							31734	TLXS8				

Star Key Singles

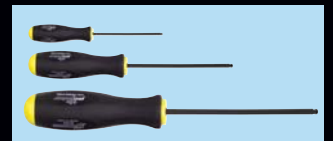
★				ProHold® Star Tip			BallStar™ Tip			Star Tip			Tamper-Resistant Tip			Star Tip Short					
	SIZE	INCH	MM	QTY	PART#	LIST EA	QTY	PART#	LIST EA	QTY	PART#	LIST EA	QTY	PART#	LIST EA	SIZE	INCH	MM	QTY	PART#	LIST EA
	Tagged/Barcoded																				
	T5																				
	T6	2.1	55				5	11706		5	31806		2	32406		T5	0.9	23	5	31705	
	T7	2.4	61				5	11707		5	31807		2	32407		T6	1.1	29	5	31706	
	T8	2.6	67				5	11708		5	31808		2	32408		T7	1.4	35	5	31707	
	T9	2.9	74	5	71809		5	11709		5	31809		2	32409		T8	1.6	42	5	31708	
	T10	3.2	80	5	71810		5	11710		5	31810		2	32410		T9	1.9	48	5	31709	
	T15	3.3	84	5	71815		5	11715		5	31815		2	32415		T10	2.2	55	5	31710	
	T20	3.6	91	5	71820		5	11720		5	31820		2	32420		T15	2.3	59	5	31715	
	T25	3.8	98	5	71825		5	11725		5	31825		2	32425		T20	2.6	66	5	31720	
	T27	4.2	106	5	71827		5	11727		5	31827		2	32427		T25	2.8	72	5	31725	
	T30	4.6	116	5	71830		5	11730		5	31830		2	32430		T27	3.2	81	5	31727	
	T40	4.9	125	5	71840		5	11740		5	31840		2	32440		T30	3.6	90	5	31730	
	T45	5.4	138	2	71845		1	11745		2	31845					T40	3.9	99	5	31740	
	T50	6.2	156	2	71850		1	11750		2	31850					T45	3.9	98	2	31745	
	T55	6.7	171	2	71855		1	11755		2	31855					T50	3.8	97	2	31750	
	T60	7.2	182	2	71860					2	31860					T55	3.8	95	2	31755	
																T60	3.7	93	2	31760	
	Bulk																				
	T5																				
	T6	2.1	55							25	32806		25	33406							
	T7	2.4	61							25	32807		25	33407							
	T8	2.6	67							25	32808		25	33408							
	T9	2.9	74	25	72809					25	32809		25	33409							
	T10	3.2	80	25	72810					25	32810		25	33410							
	T15	3.3	84	25	72815					25	32815		25	33415							
	T20	3.6	91	25	72820					25	32820		25	33420							
	T25	3.8	98	25	72825					25	32825		25	33425							
	T27	4.2	106	25	72827					25	32827		25	33427							
	T30	4.6	116	25	72830					25	32830		25	33430							
	T40	4.9	125	25	72840					25	32840		25	33440							
	T45	5.4	138	10	72845					10	32845										
	T50	6.2	156	10	72850					10	32850										
	T55	6.7	171	10	72855					10	32855										
	T60	7.2	182	10	72860					10	32860										

Screwdriver Tools



The ComfortGrip two component handle:

- A tough thermoplastic core for strength and resistance to splitting
- Molded-on rubber coating for superior grip
- Handle shape prevents rolling on surfaces angled up to 15°
- Available in very small sizes for delicate tasks (0.050", 1.27mm, T5)
- Much faster than ball end hex keys in assembly and frequent use applications



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 handles helps retain grip, even when hands are wet or oily

Color Coded

- Inch
- Metric
- Star



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



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

Screwdriver Sets

Ball End Sets

Inch Sizes

SIZE	PCS	ProHold® Tip ProGuard™ finish			Balldriver® Tip ProGuard™ finish			Balldriver® Tip GoldGuard™ finish			Balldriver® Tip BriteGuard™ finish		
		PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA
.050 – 5/32	8	74632	PBSX8S		10632	BSX8S		38632	BSX8SG		16632	BSX8SB	
.050 – 3/8	13	74637	PBSX13		10637	BSX13		38637	BSX13G		16637	BSX13B	
5/64 – 3/16	7				10645	BSX7							
5/64 – 3/8	11				10737	BSX11L							
7/64 – 5/16	8				10633	BSX8							

Metric Sizes

SIZE	PCS	ProHold® Tip ProGuard™ finish			Balldriver® Tip ProGuard™ finish			Balldriver® Tip GoldGuard™ finish			Balldriver® Tip BriteGuard™ finish		
		PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA
1.27 – 5mm	7				10687	BSX7M							
1.5 – 5mm	6	74686	PBSX6M		10686	BSX6M		38686	BSX6MG		16686	BSX6MB	
1.5 – 10mm	9	74699	PBSX9M		10699	BSX9M		38699	BSX9MG		16699	BSX9MB	
2 – 10mm	8				10733	BSX8ML							

Square Ball Set with ProGuard™ finish



SIZE	PCS	PART#	MODEL #	LIST EA
#0 – #3	4	11640	BRX4	

Star Sets with ProGuard™ finish

SIZE	PCS	ProHold® Tip			Ballstar™ Tip			Star Tip			Tamper-Resistant Tip		
		PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA
T6 – T25	8							34532	TSX8S		33832	TR-SX8S	
T6 – T15	6				13546	STX6							
T9 – T40	8	75534	PHTSX8		13532	STX8		34534	TSX8		33834	TR-SX8	



Screwdriver Singles

ProHold® & Balldriver® Tip Singles

Inch Sizes



**ProHold® Tip
ProGuard™ finish**

**Balldriver® Tip
ProGuard™ finish**

**Balldriver® Tip
BriteGuard™ finish**

**Balldriver® Tip
GoldGuard™ finish**

SIZE	QTY	INCH	MM	PART#	LIST EA	PART#	LIST EA	PART#	LIST EA	PART#	LIST EA
.050	2	2.4	60	74602		10602		16602		38602	
1/16	2	2.5	64	74603		10603		16603		38603	
5/64	2	2.6	67	74604		10604		16604		38604	
3/32	2	2.8	71	74605		10605		16605		38605	
7/64	2	2.9	74	74606		10606		16606		38606	
1/8	2	3.1	80	74607		10607		16607		38607	
9/64	2	3.3	83	74608		10608		16608		38608	
5/32	2	3.6	91	74609		10609		16609		38609	
3/16	2	3.7	94	74610		10610		16610		38610	
7/32	2	4.2	107	74611		10611		16611		38611	
1/4	2	5.0	126	74612		10612		16612		38612	
5/16	2	5.6	142	74613		10613		16613		38613	
3/8	2	6.5	164	74614		10614		16614		38614	
7/16	1	7.6	194			10615		16615		38615	
1/2	1	8.6	217			10616		16616		38616	

Metric Sizes



SIZE	QTY	INCH	MM	PART#	LIST EA	PART#	LIST EA	PART#	LIST EA	PART#	LIST EA
1.27	2	2.4	60	74649		10649		16649		38649	
1.5	2	2.6	86	74650		10650		16650		38650	
2.0	2	2.8	89	74652		10652		16652		38652	
2.5	2	2.7	99	74654		10654		16654		38654	
3.0	2	3.3	83	74656		10656		16656		38656	
3.5	1	3.5	88			10658					
4.0	2	3.7	95	74660		10660		16660		38660	
4.5	1	4.3	109			10662					
5.0	2	4.3	109	74664		10664		16664		38664	
5.5	1	5.0	126			10666					
6	2	5.4	137	74668		10668		16668		38668	
7	1	5.7	145			10670					
8	2	6.4	162	74672		10672		16672		38672	
9	1	6.9	175			10674					
10	2	7.3	184	74676		10676		16676		38676	

Square Ball Screwdrivers



**Square Ball
ProGuard™ finish**



SIZE	QTY	PART#	INCH	MM	LIST EA
#0	2	11600	3.5	90	
#1	2	11601	3.8	95	
#2	2	11602	4.0	102	
#3	2	11603	4.0	102	
#4	2	11604	4.5	115	

BallStar™ Tip Singles



**BallStar™ Tip
ProGuard™ finish**



SIZE	QTY	INCH	MM	PART#	LIST EA
T6	2	2.6	62	12706	
T7	2	2.6	62	12707	
T8	2	2.6	62	12708	
T9	2	2.6	62	12709	
T10	2	2.8	69	12710	
T15	2	2.9	73	12715	
T20	2	3.2	81	12720	
T25	2	3.4	87	12725	
T27	2	3.8	97	12727	
T30	2	4.2	106	12730	
T40	2	4.6	117	12740	
T45	1	5.2	132	12745	
T50	1	6.0	153	12750	
T55	1	6.8	172	12755	

Screwdriver Singles

Balldriver® Tip Singles with ProGuard™ finish

Inch Sizes

SIZE	Balldriver® Tip Long — 2 per pkg				Balldriver® Tip Extra Long — 1 per pkg				Balldriver® Tip Custom Length — 1 per pkg	
	PART#	INCH	MM	LIST EA	PART#	INCH	MM	LIST EA	PART#	LIST EA
.050					3702	11.1	283		193102	
1/16					3703	11.1	283		193103	
5/64	10704	4.3	110		3704	11.0	279		193104	
3/32	10705	4.8	122		3705	11.0	279		193105	
7/64	10706	5.9	151		3706	10.6	269		193106	
1/8	10707	6.4	164		3707	10.6	269		193107	
9/64	10708	6.9	176		3708	10.5	267		193108	
5/32	10709	7.4	189		3709	10.5	267		193109	
3/16	10710	7.9	202		3710	10.3	260		193110	
7/32	10711	8.4	214		3711	10.3	260		193111	
1/4	10712	8.9	227		3712	10.3	260		193112	
5/16	10713	9.5	241		3713	10.3	260		193113	
3/8	10714	9.9	252		3714	10.3	260		193114	
7/16					3715	10.5	267		193115	
1/2					3716	10.5	267		193116	

Metric Sizes

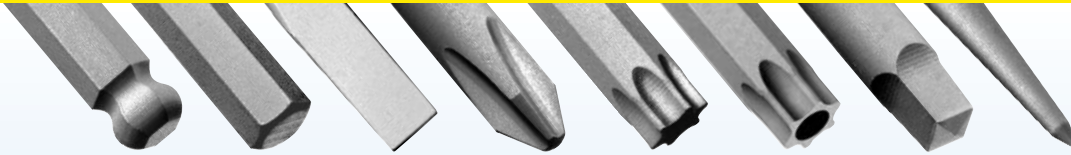
SIZE	PART#	INCH	MM	LIST EA	PART#	INCH	MM	LIST EA	PART#	LIST EA
1.5					3750	11.0	279		193150	
2.0	10752	4.0	102		3752	11.0	279		193152	
2.5	10754	4.3	122		3754	10.5	279		193154	
3	10756	6.2	158		3756	10.6	270		193156	
4	10760	7.0	179		3760	10.5	267		193160	
5	10764	7.8	198		3764	10.3	260		193164	
6	10768	8.6	218		3768	10.3	260		193168	
8	10772	9.3	237		3772	10.3	260		193172	
10	10776	10.2	259		3776	10.3	260		193176	

Star Tip Singles

SIZE	QTY	ProHold® Tip		Tamper-Resistant Tip		Star Tip	
		INCH	MM	PART#	LIST EA	PART#	LIST EA
T5							
T6	1	4.3	108			33806	
T7	1	4.5	114			33807	
T8	1	4.8	121			33808	
T9	1	4.9	124	75509		33809	
T10	1	5.0	128	75510		33810	
T15	1	5.1	131	75515		33815	
T20	1	5.4	138	75520		33820	
T25	1	5.7	144	75525		33825	
T27	1	5.8	147	75527		33827	
T30	1	6.0	153	75530		33830	
T40	1	6.3	159	75540		33840	
T45	1	6.5	166	75545			
T50	1	6.8	172	75550			
T55	1	7.0	178	75555			
T60	1	7.3	185	75560			
T5	2	4.0	102			34505	
T6	2	4.3	108			34506	
T7	2	4.5	114			34507	
T8	2	4.8	121			34508	
T9	2	4.9	124			34509	
T10	2	5.0	128			34510	
T15	2	5.1	131			34515	
T20	2	5.4	138			34520	
T25	2	5.7	144			34525	
T27	2	5.8	147			34527	
T30	2	6.0	153			34530	
T40	2	6.3	159			34540	
T45	1	6.5	166			34545	
T50	1	6.8	172			34550	
T55	1	7.0	178			34555	
T60	1	7.3	185			34560	



Fold Up Tools



GorillaGrip® Fold Ups



Handle is 40% stronger than steel handles

Comfortable to hold, and does not conduct heat or cold

Protected by 7 US and foreign patents

Color Coded

- Inch
- Metric
- Inch & Metric
- Star
- Utility

ProTanium High Torque Steel:

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

ProGuard Corrosion-resistant finish:

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



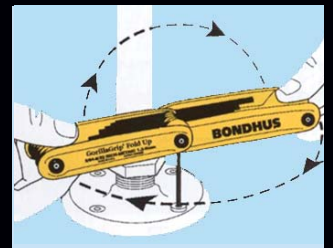
Patented Flutes:

Flutes allow for easy selection of one tool at a time



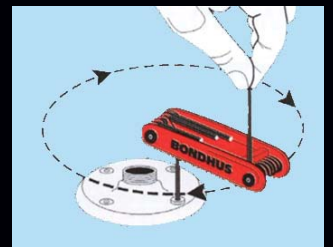
Quick Blade Selection:

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



Speed Wrench Feature:

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

Fold Up Sets

GorillaGrip® Fold Ups

Inch Sizes

SIZE	PCS	Balldriver® Tip			Hex Tip		
		PART#	MODEL#	LIST EA	PART#	MODEL#	LIST EA
.050 – 3/16	9				12591	HF9S	
5/64 – 1/4	9				12589	HF9	
3/16 – 3/8	5	12894	BF5		12585	HF5	

Metric Sizes

SIZE	PCS	PART#	MODEL#	LIST EA	PART#	MODEL#	LIST EA
1.5 – 6mm	7				12592	HF7MS	
2 – 8mm	7				12587	HF7M	
3 – 10mm	6				12595	HF6M	
5 – 10mm	5	12897	BF5M				

Inch/Metric Sizes

(5/64 – 5/32)	12				12550	HF12	
(1.5 – 5mm)							

GorillaGrip® Motorcycle Fold Ups

SIZE	PCS	PART#	MODEL#	LIST EA	PART#	MODEL#	LIST EA
(#2 Ph)	6	12594	FUCB6				
(3, 4, 5, 6, 8mm Hex)							
(T27, T40 Star)	8				12531	FUHB7	
(#2 Ph)							
(5/32, 3/16, 1/4, 5/16 Slotted)							

GorillaGrip® Utility Fold Ups

SIZE	PCS	PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA	PART#	MODEL #	LIST EA
(#1, #2 Ph)	5	12547	FU5										
(1/8, 3/16, 1/4 Slotted)													
(#1 Ph)													
(3/16 Slotted)	5				12540	HFU5							
(4, 5, 6mm Hex)													
(#1, #2 Ph)													
(3/16 Slotted)	5							12543	RFU5				
(#1, #2 Square)													
(#1, #2 Ph) (Awl)													
(1/8, 3/16 Slotted)	5										12545	AFU5	

GorillaGrip® Multipacks

TIP	INCH SIZE	METRIC SIZE	STAR SIZE	PCS	PART#	MODEL #	LIST EA
Hex	5/64 – 1/4	2 – 8mm		16	12522	HF16	
Hex & Star	5/64 – 1/4	2 – 8mm	T9 – T40	24	12533	HF24	
Hex & Star		2 – 8mm	T9 – T40	15	12544	HF15	



Metal Fold Ups

Inch Sizes

SIZE	PCS	PART#	MODEL#	LIST EA
.050 – 5/32	8	14590	MHF8	
.050 – 3/16	9	14591	MHF9S	
5/64 – 1/4	9	14589	MHF9	
3/16 – 3/8	5	14585	MHF5	

Metric Sizes

SIZE	PCS	PART#	MODEL#	LIST EA
1.5 – 6mm	7	14592	MHF7MS	
2 – 8mm	7	14587	MHF7M	
3 – 10mm	6	14595	MHF6M	

Star Sizes

SIZE	PCS	PART#	MODEL#	LIST EA
T6 – T25	8	14532	MTF8S	
T9 – T40	8	14534	MTF8	

GorillaGrip® Fold Ups

SIZE	PCS	PART#	MODEL#	LIST EA	PART#	MODEL#	LIST EA
T6 – T25	8	12632	TF8S				
T7 – T25	7				12636	TR-TF7S	
T9 – T40	8	12634	TF8		12638	TR-TF8	



Ball End Bits and Blades

Ball End Bits & Blades with ProGuard™ finish

Insert Bit Sets

1" / 25mm Balldriver® Insert Bits are designed for power tools having 1/4" retaining ring or magnetic hex adapters. They are ideal when assembly time is critical.



Inch Sizes



Balldriver® Tip

SIZE	PCS	PART#	MODEL#	LIST EA
5/64 – 1/2	12	11036	BIX12	

Metric Sizes

SIZE	PCS	PART#	MODEL#	LIST EA
2 – 12mm	9	11099	BIX9M	

Power Bit Sets

3" / 76mm Balldriver® Power Bits are designed for power tools with 1/4" ball detent hex adapters. Saves time and increases productivity.



Inch Sizes



Balldriver® Tip

SIZE	PCS	PART#	MODEL#	LIST EA
5/64 – 1/2	12	10836	BHX12	

Metric Sizes

SIZE	PCS	PART#	MODEL#	LIST EA
2 – 12mm	9	10899	BHX9M	

Balldriver® Insert Bit Singles

Inch Sizes



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

Metric Sizes



SIZE	QTY	PART#	INCH	MM	LIST EA
2	10	11052	1.0	25	
2.5	10	11054	1.0	25	
3	10	11056	1.0	25	
4	10	11060	1.0	25	
5	10	11064	1.0	25	
6	10	11068	1.0	25	
8	1	11072	1.5	38	
10	1	11076	1.5	38	
12	1	11080	1.5	38	

Balldriver® Power Bit Singles

Inch Sizes



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

Metric Sizes



SIZE	QTY	PART#	INCH	MM	LIST EA
2	10	10852	3.0	76	
2.5	10	10854	3.0	76	
3	10	10856	3.0	76	
4	10	10860	3.0	76	
5	10	10864	3.0	76	
6	10	10868	3.0	76	
8	1	10872	3.0	76	
10	1	10876	3.0	76	
12	1	10880	3.0	76	

Ball End Blades

Balldriver® Blade Singles with ProGuard™ finish

Ideal for use in socket wrenches, power tools or with a Hextender for added reach.

Quantity 1 per package.



Inch Sizes

SIZE	Standard Length				Long Length				Extra Long Length			
	PART#	INCH	MM	LIST EA	PART#	INCH	MM	LIST EA	PART#	INCH	MM	LIST EA
.050	0102	3.4	86						3602	12.0	305	
1/16	0103	3.5	91						3603	12.0	305	
5/64	0104	3.6	93		0404	5.3	135		3604	12.0	305	
3/32	0105	3.8	96		0405	5.8	147		3605	12.0	305	
7/64	0106	4.3	109		0406	7.3	186		3606	12.0	305	
1/8	0107	4.5	115		0407	7.8	199		3607	12.0	305	
9/64	0108	4.8	121		0408	8.4	214		3608	12.0	305	
5/32	0109	5.1	129		0409	8.9	227		3609	12.0	305	
3/16	0110	5.5	139		0410	9.7	246		3610	12.0	305	
7/32	0111	5.9	151		0411	10.2	259		3611	12.0	305	
1/4	0112	6.7	170		0412	10.7	272		3612	12.0	305	
5/16	0113	7.3	186		0413	11.3	286		3613	12.0	305	
3/8	0114	8.2	208		0414	11.7	297		3614	12.0	305	
7/16	0115	9.1	232						3615	12.0	305	
1/2	0116	10.1	255						3616	12.0	305	
9/16	0117	10.9	277									
5/8	0118	11.8	299									
3/4	0119	13.5	344									

Metric Sizes

SIZE	PART#	INCH	MM	LIST EA	PART#	INCH	MM	LIST EA	PART#	INCH	MM	LIST EA
1.5	0150	3.6	91						3650	12.0	305	
2.0	0152	3.8	98		0452	5.0	128		3652	12.0	305	
2.5	0154	4.2	107		0454	5.8	148		3654	12.0	305	
3.0	0156	4.6	118		0456	7.6	193		3656	12.0	305	
3.5	0158	4.8	123									
4.0	0160	5.2	133		0460	8.5	217		3660	12.0	305	
4.5	0162	5.5	140									
5.0	0164	5.8	148		0464	9.6	243		3664	12.0	305	
5.5	0166	6.1	155									
6	0168	6.7	170		0468	10.4	263		3668	12.0	305	
7	0170	7.3	184									
8	0172	7.8	199		0472	11.1	281		3672	12.0	305	
9	0174	8.4	214									
10	0176	9.0	229		0476	11.9	303		3676	12.0	305	
11	0178	9.6	245									
12	0180	10.5	267									
14	0184	12.5	318									
17	0186	13.6	346									
19	0188	14.5	368									

Hextender

Quantity 1 per package.

Inch Sizes

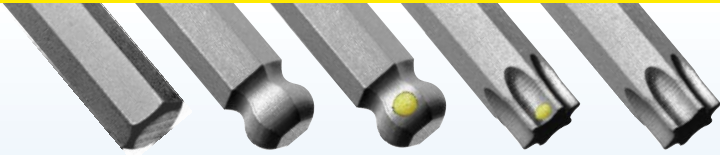
SIZE	INCH	MM	DIA	PART#	LIST EA
.050	.5	13	0.25	22302	
1/16	.5	13	0.25	22303	
5/64	.5	13	0.25	22304	
3/32	.5	13	0.25	22305	
7/64	.5	13	0.25	22306	
1/8	.5	13	0.31	22307	
9/64	.5	13	0.31	22308	
5/32	.75	19	0.37	22309	
3/16	.75	19	0.37	22310	
7/32	.75	19	0.50	22311	
1/4	.75	19	0.50	22312	
5/16	1.0	25	0.75	22313	
3/8	1.0	25	0.75	22314	

Metric Sizes

SIZE	INCH	MM	DIA	PART#	LIST EA
1.5	.5	13	0.25	22350	
2.0	.5	13	0.25	22352	
2.5	.5	13	0.25	22354	
3	.5	13	0.31	22356	
4	.75	19	0.37	22360	
5	.75	19	0.37	22364	
6	.75	19	0.50	22368	
8	1.0	25	0.75	22372	
10	1.0	25	0.75	22376	



T-Handle Tools



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



Color Coded

- Inch
- Metric
- Star



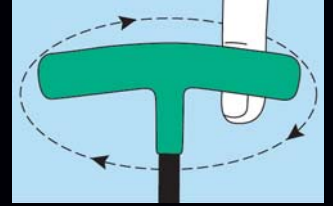
High Torque Steel:

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



Corrosion-resistant finish:

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



Heavy duty handle generates a flywheel effect for super fast insertion or removal of screws.

Handle is shaped for comfort and control, and is ergonomically superior to older style straight handles.

Available in 6, 9", and graduated blade lengths

Cushioned feel reduces fatigue



Handle sizes are engineered to match blade torque capabilities:

The 5/32, 3/16", 4 and 5mm blades, in ball end sets, have smaller handles to prevent over-torqueing.



The 3/32, 7/64, 1/8, 9/64" and 2, 2.5 and 3mm blades are always straight hex tips to prevent breakage. A T-Handle could easily over-torque and break smaller size ball end tips.

T-Handle Sets

Hex, Ball End & Star Sets with ProGuard™ finish



Inch Sizes

SIZE	PCS	LENGTH	W/STAND	ProHold® Tip			Balldriver® Tip			Hex Tip		
				PART#	MODEL#	LIST EA	PART#	MODEL#	LIST EA	PART#	MODEL#	LIST EA
3/32 – 1/4	8	Graduated										
"	"	8 6 inch									13332	HTX80
"	"	8 9 inch									15232	HTX80-6
"	"	8 9 inch									15332	HTX80-9
3/32 – 3/8	10	Graduated	✓				*13190	BTX10/S		†13390	HTX10/S	
"	"	10 "					*13138	BTX10		13338	HTX10	
"	"	10 6 inch	✓							†15290	HTX10/S-6	
"	"	10 "								15238	HTX10-6	
"	"	10 9 inch	✓							†15390	HTX10/S-9	
"	"	10 "								15338	HTX10-9	
5/32 - 3/8	6	Graduated		75146	PBTX60		13146	BTX60				

Metric Sizes

SIZE	PCS	LENGTH	W/STAND	ProHold® Tip			Balldriver® Tip			Hex Tip		
				PART#	MODEL#	LIST EA	PART#	MODEL#	LIST EA	PART#	MODEL#	LIST EA
2 – 6mm	6	Graduated										
"	"	6 6 inch									13348	HTX60M
"	"	6 9 inch									15248	HTX60M-6
"	"	6 9 inch									15348	HTX60M-9
2 – 10mm	8	Graduated	✓				*13189	BTX80M/S		†13389	HTX80M/S	
"	"	8 "					*13187	BTX80M		13387	HTX80M	
"	"	8 6 inch	✓							†15289	HTX80M/S-6	
"	"	8 "								15287	HTX80M-6	
"	"	8 9 inch	✓							†15389	HTX80M/S-9	
"	"	8 "								15387	HTX80M-9	
4 – 10mm	5	Graduated		75148	PBTX50M		13148	BTX50M				

*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.

† With stand

Star Sets with Stand

ProHold® Tip						
SIZE	PCS	LENGTH	W/STAND	PART#	MODEL#	LIST EA
T9 – T40	8	Graduated	✓	74034	PHTTHX8	

Star Tip						
SIZE	PCS	LENGTH	W/STAND	PART#	MODEL#	LIST EA
T9 – T40	8	Graduated	✓	33034	TTHX8	



Star Singles — Graduated Lengths

SIZE	QTY	INCH		MM		ProHold® Tip		Star Tip	
						PART#	LIST EA	PART#	LIST EA
T9	2	6.1	155	74009		33009			
T10	2	6.4	161	74010		33010			
T15	2	6.6	168	74015		33015			
T20	2	6.9	174	74020		33020			
T25	2	7.1	180	74025		33025			
T27	2	7.4	187	74027		33027			
T30	2	7.6	193	74030		33030			
T40	2	7.9	199	74040		33040			
T45	2	8.1	206	74045		33045			
T50	2	8.4	213	74050		33050			
T55	2	8.6	218	74055		33055			



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



T-Handle Singles

T-Handle Singles with ProGuard™ finish



Inch Sizes		Graduated Length ProHold® Tip				Graduated Length Balldriver® Tip				Graduated Length Hex Tip			
SIZE	QTY	PART#	INCH	MM	LIST EA	PART#	INCH	MM	LIST EA	PART#	INCH	MM	LIST EA
3/32	2					13205 Hex*	6.1	154		13305	4.2	105	
7/64	2					13206 Hex*	6.8	173		13306	4.4	112	
1/8	2					13207 Hex*	7.6	192		13307	4.6	118	
9/64	2					13208 Hex*	8.3	211		13308	4.9	124	
5/32	2	75109	9.1	231		13109	9.1	231		13309	5.2	132	
3/16	2	75110	9.8	250		13110	9.8	250		13310	5.6	141	
7/32	2	75111	10.3	262		13111	10.3	262		13311	6.1	154	
1/4	2	75112	10.8	275		13112	10.8	275		13312	6.5	165	
5/16	2	75113	11.4	289		13113	11.4	289		13313	7.4	189	
3/8	2	75114	11.8	300		13114	11.8	300		13314	8.3	211	

Metric Sizes		Graduated Length ProHold® Tip				Graduated Length Balldriver® Tip				Graduated Length Hex Tip			
SIZE	QTY	PART#	INCH	MM	LIST EA	PART#	INCH	MM	LIST EA	PART#	INCH	MM	LIST EA
2.0	2					13252 Hex*	5.9	150		13352	4.0	100	
2.5	2					13254 Hex*	6.8	172		13354	4.3	110	
3	2					13256 Hex*	7.7	196		13356	4.7	120	
4	2	75160	8.7	220		13160	8.7	220		13360	5.3	136	
5	2	75164	9.7	246		13164	9.7	246		13364	5.9	150	
6	2	75168	10.5	266		13168	10.5	266		13368	6.8	173	
8	2	75172	11.2	285		13172	11.2	285		13372	7.9	202	
10	2	75176	12.1	307		13176	12.1	307		13376	9.1	232	

* 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.

Inch Sizes		6" – Hex Tip				9" – Hex Tip			
SIZE	QTY	PART#	INCH	MM	LIST EA	PART#	INCH	MM	LIST EA
3/32	2	15205	6.0	152		15305	9.0	229	
7/64	2	15206	6.0	152		15306	9.0	229	
1/8	2	15207	6.0	152		15307	9.0	229	
9/64	2	15208	6.0	152		15308	9.0	229	
5/32	2	15209	6.0	152		15309	9.0	229	
3/16	2	15210	6.0	152		15310	9.0	229	
7/32	2	15211	6.0	152		15311	9.0	229	
1/4	2	15212	6.0	152		15312	9.0	229	
5/16	2	15213	6.0	152		15313	9.0	229	
3/8	2	15214	6.0	152		15314	9.0	229	
1/2	1	15216	6.0	152		15316	9.0	229	

Metric Sizes		6" – Hex Tip				9" – Hex Tip			
SIZE	QTY	PART#	INCH	MM	LIST EA	PART#	INCH	MM	LIST EA
2.0	2	15252	6.0	152		15352	9.0	229	
2.5	2	15254	6.0	152		15354	9.0	229	
3	2	15256	6.0	152		15356	9.0	229	
4	2	15260	6.0	152		15360	9.0	229	
5	2	15264	6.0	152		15364	9.0	229	
6	2	15268	6.0	152		15368	9.0	229	
8	2	15272	6.0	152		15372	9.0	229	
10	2	15276	6.0	152		15376	9.0	229	

T-Handle Stands



Molded T-handle Stands

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



Set stand on bench or mount on wall.

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

Part Number Index

PT#	PG#	LIST EA	PT#	PG#	LIST EA	PT#	PG#	LIST EA	PT#	PG#	LIST EA	PT#	PG#	LIST EA	PT#	PG#	LIST EA
0102	41		3652	41		10707	37		10958	32		12107	32		12220	32	
0103	41		3654	41		10708	37		10960	32		12108	32		12221	32	
0104	41		3656	41		10709	37		10962	32		12109	32		12225	32	
0105	41		3660	41		10710	37		10964	32		12110	32		12229	32	
0106	41		3664	41		10711	37		10966	32		12111	32		12231	32	
0107	41		3668	41		10712	37		10968	32		12112	32		12232	25	
0108	41		3672	41		10713	37		10970	32		12113	32		12233	32	
0109	41		3676	41		10714	37		10972	32		12114	32		12236	25	
0110	41		3702	37		10733	21, 35		10974	32		12115	32		12237	25	
0111	41		3703	37		10737	21, 35		10976	32		12116	32		12238	25	
0112	41		3704	37		10752	37		10978	32		12117	32		12245	25	
0113	41		3705	37		10754	37		10980	32		12118	32		12246	25	
0114	41		3706	37		10756	37		10984	32		12119	32		12247	32	
0115	41		3707	37		10760	37		10986	32		12120	32		12248	32	
0116	41		3708	37		10764	37		10988	32		12121	32		12249	32	
0117	41		3709	37		10768	37		10989	19		12125	32		12250	32	
0118	41		3710	37		10772	37		10992	19, 25		12129	32		12252	32	
0119	41		3711	37		10776	37		10995	19, 25		12132	25		12254	32	
0150	41		3712	37		10804	40		10999	19, 25		12136	25		12256	32	
0152	41		3713	37		10805	40		11004	40		12137	25		12258	32	
0154	41		3714	37		10806	40		11005	40		12138	25		12260	32	
0156	41		3715	37		10807	40		11006	40		12145	25		12262	32	
0158	41		3716	37		10808	40		11007	40		12146	25		12264	32	
0160	41		3750	37		10809	40		11008	40		12147	32		12266	32	
0162	41		3752	37		10810	40		11009	40		12148	32		12268	32	
0164	41		3754	37		10811	40		11010	40		12149	32		12270	32	
0166	41		3756	37		10812	40		11011	40		12150	32		12272	32	
0168	41		3760	37		10813	40		11012	40		12152	32		12274	32	
0170	41		3764	37		10814	40		11013	40		12154	32		12276	32	
0172	41		3768	37		10816	40		11014	40		12156	32		12278	32	
0174	41		3772	37		10836	21, 40		11016	40		12158	32		12280	32	
0176	41		3776	37		10852	40		11036	21, 40		12160	32		12284	32	
0178	41		10602	36		10854	40		11052	40		12162	32		12286	32	
0180	41		10603	36		10856	40		11054	40		12164	32		12288	32	
0184	41		10604	36		10860	40		11056	40		12166	32		12291	32	
0186	41		10605	36		10864	40		11060	40		12168	32		12292	25	
0188	41		10606	36		10868	40		11064	40		12170	32		12293	32	
0404	41		10607	36		10872	40		11068	40		12172	32		12295	32	
0405	41		10608	36		10876	40		11072	40		12174	32		12296	32	
0406	41		10609	36		10880	40		11076	40		12176	32		12298	32	
0407	41		10610	36		10899	21, 40		11080	40		12178	32		12299	25	
0408	41		10611	36		10902	32		11099	21, 40		12180	32		12522	39	
0409	41		10612	36		10903	32		11331	15, 21, 33		12184	32		12531	39	
0410	41		10613	36		10904	32		11332	15, 21, 33		12186	32		12533	39	
0411	41		10614	36		10905	32		11346	15, 21, 33		12188	32		12540	39	
0412	41		10615	36		10906	32		11600	36		12191	32		12543	39	
0413	41		10616	36		10907	32		11601	36		12192	25		12544	39	
0414	41		10632	21, 35		10908	32		11602	36		12193	32		12545	39	
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3607	41		10668	36		10935	19		11740	17, 33		12209	32		12699	15	
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3611	41		10676	36		10945	19, 25		12100	32		12213	32		12709	17, 36	
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3613	41		10687	21, 35		10949	32		12102	32		12215	32		12715	17, 36	
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3616	41		10705	37		10954	32		12105	32		12218	32		12727	17, 36	
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32827	33		34560	17, 37		38115	30		38656	36		74010	16, 43		75711	26	
32830	33		34706	16		38116	30		38660	36		74015	16, 43		75712	26	
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32845	33		34708	16		38118	30		38668	36		74025	16, 43		75714	26	
32850	33		34709	16		38119	30		38672	36		74027	16, 43		75749	26	
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Torque & Interchangeability

Hex Size Inch	Torque Capacity**				Screw Interchangeability				
	Bondhus Straight Hex		Bondhus Balldriver® 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	3.39	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	13	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.



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