



**Tools** That  
**Work**



2012 Catalog



# Who We Are

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



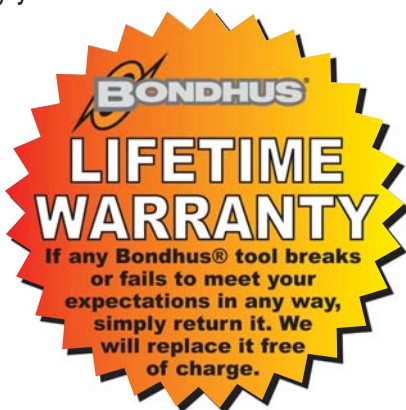
In 1964, John Bondhus began manufacturing the original "Balldriver<sup>®</sup>" ball end hex tool which he invented. Since that time, we have taken great pride in being the industry leader in designing and manufacturing innovative, timesaving tools. We have built our business by providing Bondhus customers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

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

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

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

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



## Bondhus Professional Quality Tools Provide Superior Value

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

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

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

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

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

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



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

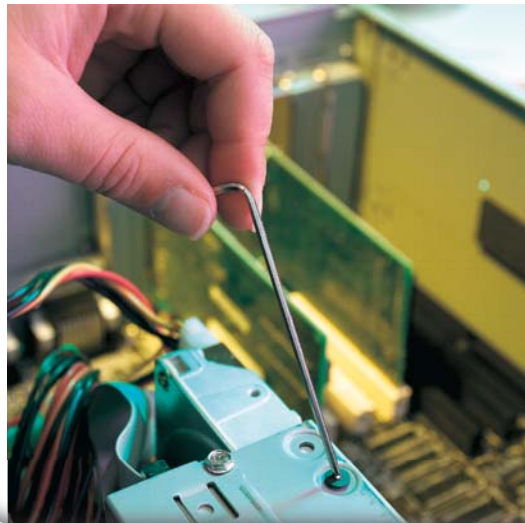
# L-Wrenches



## Color Coded

- Inch
- Metric
- Star

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



High Torque Steel:

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

## FINISH OPTIONS:



Corrosion-resistant finish:

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



Next generation chrome finish:

Traditional plated tool look with superior protection and durability.

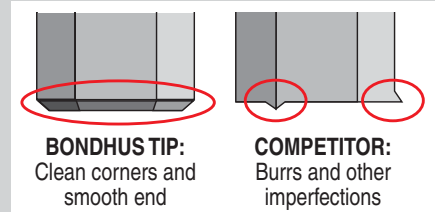


Real 14 karat gold finish:

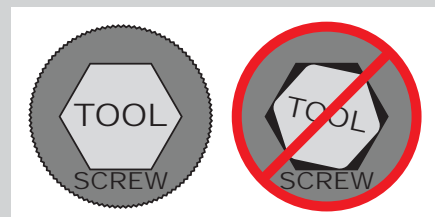
Superior protection and durability over traditional chrome and the look and shine of real gold.

## More than just another L-Wrench

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



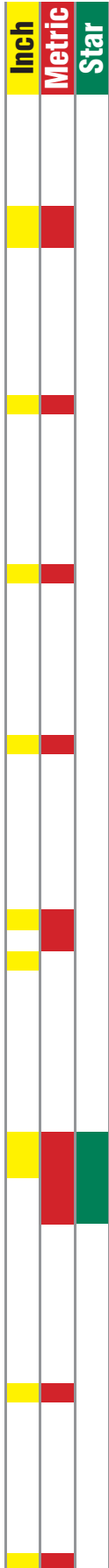
Bondhus chamfers every Hex and Star Tip tool we make. This process eliminates burrs and imperfections in the tool's tip that can prevent the tool from fitting properly or seating fully within the screw head.



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



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



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

## ProGuard™ Ball End



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

## ProGuard™ Ball End Stubby



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

## ProGuard™ ProHold® Tip Ball End



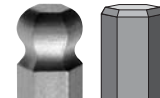
PART#	MODEL#	PCS	CONTENTS	QTY	LIST
20499	PBLX22	22	74937 (.050-3/8") + 74999 (1.5-10mm)	1	

## ProGuard™ Hex End



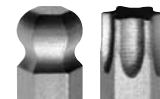
PART#	MODEL#	PCS	CONTENTS	QTY	LIST
22199	HLX22	22	12137 (.050-3/8") + 12199 (1.5-10mm)	1	

## ProGuard™ Ball End and Hex End



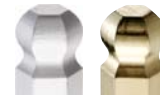
PART#	MODEL#	PCS	CONTENTS	QTY	LIST
14130	BLF34	34	10937 (.050-3/8") + 10999 (1.5-10mm) + 12550 (Hex Fold Up 5/64-5/32", 1.5-5mm)	1	
14187	BLF16M	16	10999 (1.5-10mm) + 12587 (Hex Fold Up 2-8mm)	1	
14189	BLF22	22	10937 (.050-3/8") + 12589 (Hex Fold Up 5/64-1/4")	1	

## ProGuard™ Ball End and Star Tip



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

## BriteGuard™ and GoldGuard™ Ball End



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

## GoldGuard™ Ball End



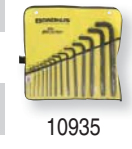
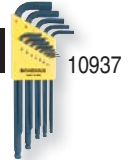
PART#	MODEL#	PCS	CONTENTS	QTY	LIST
20899	BLX22G	22	37937 (.050-3/8") + 38099 (1.5-10mm)	1	

## Ball End L-Wrenches - ProGuard™ Finish -

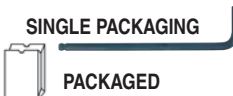
- Ball End inserts into a screw at a 25° angle
- Ball End saves time by quickly funneling tool into screw
- 25° angle allows natural hand and wrist movement
- Superior Ball End strength and working angle
- Works in hard to reach places



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



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



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

*Did you know...?*

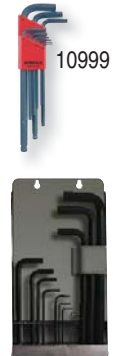
Bondhus Ball End tips are designed to be the perfect balance between angle and strength. Ball End strength is maximized, while still providing a consistent full 25° working angle.

## Ball End L-Wrenches - ProGuard™ Finish -

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



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



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

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

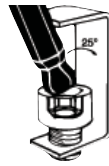
### Did you know...?

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

# ProHold® Tip Ball End L-Wrenches

## - ProGuard™ Finish -

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

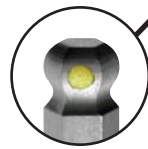


ProGuard™ finish delivers superior corrosion protection



Yellow=Inch

Red=Metric



ProHold® Tip holds screws securely

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

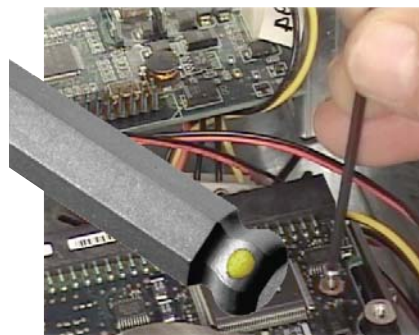


Singles	SIZE	INCH	MM	INCH	MM	PART#	QTY	LIST EA	PART#	QTY	LIST EA
<b>LONG Inch</b>	.050	2.8	72	0.53	13	75902	25		75702	5	
	1/16	3.0	76	0.56	14	75903	25		75703	5	
	5/64	3.2	81	0.61	15	75904	25		75704	5	
	3/32	3.4	86	0.65	16	75905	25		75705	5	
	7/64	3.6	90	0.70	18	75906	25		75706	5	
	1/8	3.8	95	0.75	19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

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



ProHold® button holds screw tight on the tool EVERY TIME



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



# Stubby Ball End L-Wrenches

## - ProGuard™ Finish -

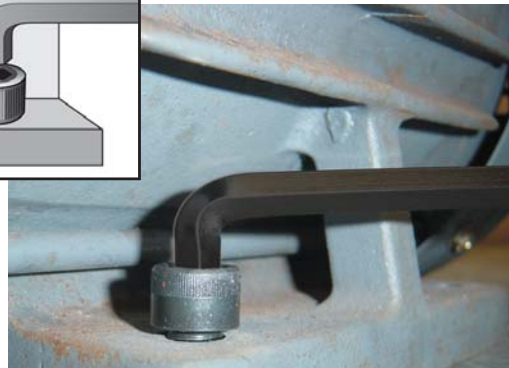
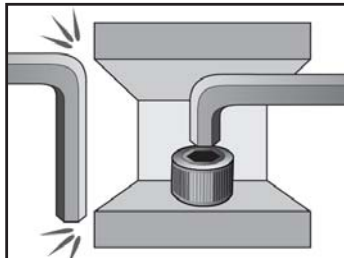
- Fits into tight spaces standard hex keys can not
- Eliminates the need to trim and file the short arm
- Tighter inside radius means full smooth entry into screw head
- Chamfered short arm eliminates burrs
- Ball End inserts into a screw at a 25° angle



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



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



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

# Hex End L-Wrenches

- ProGuard™ Finish -

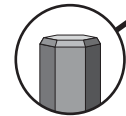
- Chamfered tool tips eliminate burrs and help tools seat in screw head
- Sharp corners transfer more torque to the screw and reduce stripping
- Precision machined for ease of use and superior fit

ProGuard™ finish delivers superior corrosion protection



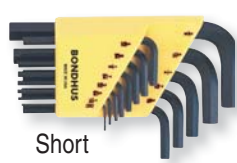
Yellow=Inch

Red=Metric



Hex End Tips

Long



Short

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

## In Metal Box

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



12344

## In Pouch

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



12347



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

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

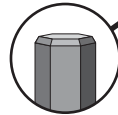
For more individual sizes available packaged, in bulk, or singles see page 11

# Hex End L-Wrench Singles

## - ProGuard™ Finish -

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

ProGuard™ finish delivers superior corrosion protection



Hex End Tips



PACKAGED

SINGLE PACKAGING

BULK



TAGGED/BARCODED

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



PACKAGED

SINGLE PACKAGING

BULK



TAGGED/BARCODED

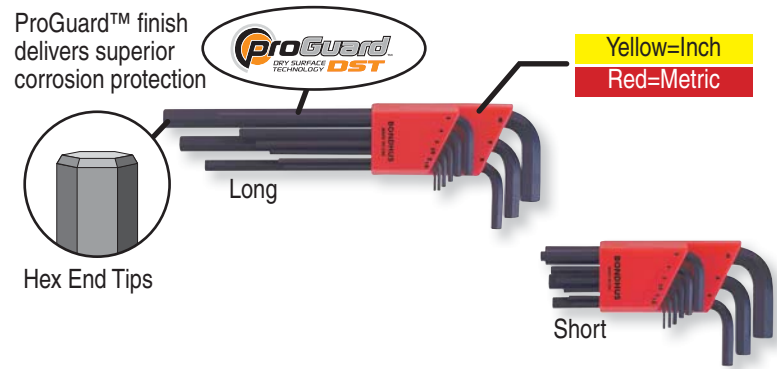
Singles	SIZE	INCH	MM	INCH	MM	PART#	QTY	LIST EA	PART#	QTY	LIST EA	PART#	QTY	LIST EA
<b>SHORT Inch</b>	.028	1.2	31	0.22	6	12200	10		13800	100		15800	10	
	.035	1.2	31	0.34	9	12201	10		13801	100		15801	10	
	.050	1.6	42	0.53	13	12202	10		13802	100		15802	10	
	1/16	1.8	45	0.56	14	12203	10		13803	100		15803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

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

# Hex End L-Wrenches

## - ProGuard™ Finish -

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



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

### In Metal Box

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



12394

### In Pouch

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



12397

*Did you know...?*

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

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

# Hex End L-Wrench Singles

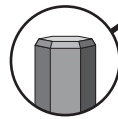
## - ProGuard™ Finish -

ProGuard™ finish delivers superior corrosion protection



# L-Wrenches

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



Hex End Tips



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

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

For sets see page 12

# Tamper Resistant Hex End L-Wrenches

- ProGuard™ Finish -

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

ProGuard™ finish delivers superior corrosion protection



Tamper Resistant Hex Tips



Tamper Resistant Hex Tips

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



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



48332

# Tamper Resistant Star Tip L-Wrenches

- ProGuard™ Finish -

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

ProGuard™ finish delivers superior corrosion protection



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

Tamper Resistant Star Tips



Tamper Resistant Star Tips

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



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

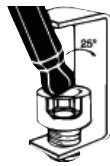
*Did you know...?*  
ProGuard™ Dry Surface Technology is the world's best corrosion protection. The tool user does not have to work with rusty tools. ProGuard™ protection delivers up to 5 times the corrosion resistance of any other Hex or Star Tip tool finish.

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

## Ball End L-Wrenches

- BriteGuard™ Finish -

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



BriteGuard™ finish delivers superior corrosion protection



Ball End Tips

Yellow=Inch

Red=Metric



25° Working angle

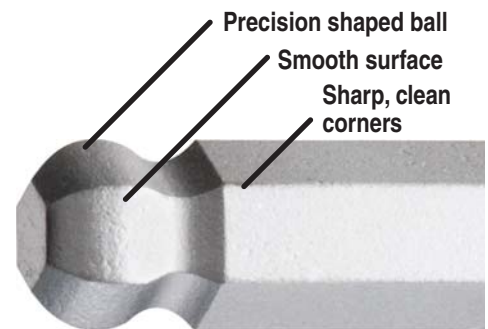
Sets	PART#	MODEL#	PCS	LENGTH	CONTENTS	QTY	LIST
<b>Inch</b>	16938	BLX10B	10	Long	1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4"	1	
	16936	BLX12B	12	Long	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16"	1	
	16937	BLX13B	13	Long	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32,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



17099



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



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

*Did you know...?*

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

# Stubby Ball End L-Wrenches

## - BriteGuard™ Finish -

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



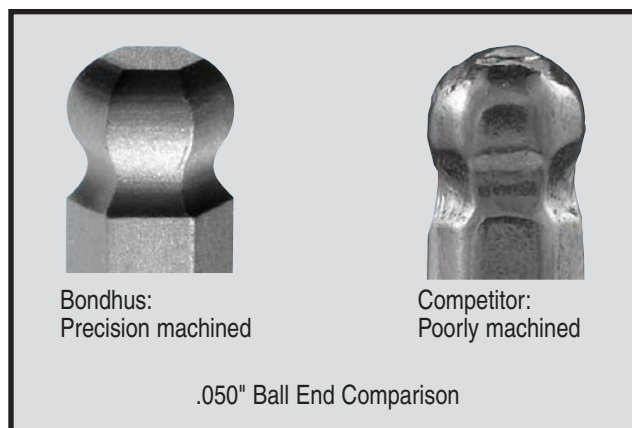
Sets	PART#	MODEL#	PCS	LENGTH	CONTENTS	QTY	LIST
<b>Inch</b>	16738	SBLX10B	10	Long	1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4"	1	
	16737	SBLX13B	13	Long	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8"	1	
<b>Metric</b>	16792	SBLX7MB	7	Extra Long	1.5, 2, 2.5, 3, 4,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



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

*Did you know...?*

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





# Hex End L-Wrenches

## - BriteGuard™ Finish -

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

BriteGuard™ finish delivers superior corrosion protection



Yellow=Inch

Red=Metric

Hex End Tips

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



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

# Ball End L-Wrenches

## - GoldGuard™ Finish -

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

GoldGuard™ finish.  
Real 14 karat Gold



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



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

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

## Hex End L-Wrenches

### - GoldGuard™ Finish -

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

GoldGuard™ finish.  
Real 14 karat Gold

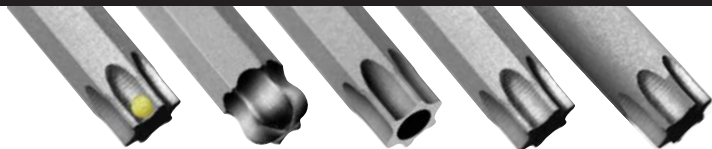


Sets	PART#	MODEL#	PCS	LENGTH	CONTENTS	QTY	LIST
<b>Inch</b>	38138	HLX10G	10	Long	1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4"	1	
	38136	HLX12G	12	Long	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16"	1	
	38137	HLX13G	13	Long	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32,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



Singles	SIZE INCH				SIZE MM				PART#				QTY LIST EA								
	INCH	MM	INCH	MM	PART#	QTY	LIST	EA	PART#	QTY	LIST	EA	PART#	QTY	LIST	EA					
<b>Inch</b>	<b>Long</b>																				
	.028	2.6	66	0.22	6	28100	50		38100	10			.028	1.2	31	0.22	6	28200	50	38200	10
	.035	2.7	68	0.34	9	28101	50		38101	10			.035	1.2	31	0.34	9	28201	50	38201	10
	.050	2.8	72	0.53	13	28102	50		38102	10			.050	1.6	42	0.53	13	28202	50	38202	10
	1/16	3.0	76	0.56	14	28103	50		38103	10			1/16	1.8	45	0.56	14	28203	50	38203	10
	5/64	3.2	81	0.61	15	28104	50		38104	10			5/64	1.9	48	0.61	15	28204	50	38204	10
	3/32	3.4	86	0.65	16	28105	50		38105	10			3/32	2.0	51	0.65	16	28205	50	38205	10
	7/64	3.6	90	0.70	18	28106	50		38106	10			7/64	2.1	54	0.70	18	28206	50	38206	10
	1/8	3.8	95	0.75	19	28107	50		38107	10			1/8	2.3	58	0.75	19	28207	50	38207	10
	9/64	4.0	101	0.80	20	28108	50		38108	10			9/64	2.4	61	0.80	20	28208	50	38208	10
	5/32	4.2	107	0.84	21	28109	50		38109	10			5/32	2.5	64	0.84	21	28209	50	38209	10
	3/16	4.5	114	0.94	24	28110	50		38110	10			3/16	2.8	70	0.94	24	28210	50	38210	10
	7/32	4.9	124	1.03	26	28111	25		38111	5			7/32	3.0	77	1.03	26	28211	25	38211	5
	1/4	5.3	133	1.13	29	28112	25		38112	5			1/4	3.3	83	1.13	29	28212	25	38212	5
	5/16	6.0	152	1.25	32	28113	25		38113	5			5/16	3.8	96	1.25	32	28213	25	38213	5
	3/8	6.8	171	1.38	35	28114	25		38114	5			3/8	4.3	108	1.38	35	28214	25	38214	5
	7/16	7.5	191	1.50	38	-	-		38115	1			7/16	4.8	121	1.50	38	-	-	38215	1
	1/2	8.3	210	1.63	41	-	-		38116	1			1/2	5.3	133	1.63	41	-	-	38216	1
	9/16	9.0	229	1.75	44	-	-		38117	1			9/16	5.8	146	1.75	44	-	-	38217	1
5/8	9.8	248	1.88	48	-	-		38118	1			5/8	6.3	159	1.88	48	-	-	38218	1	
3/4	11.3	286	2.13	54	-	-		38119	1			3/4	7.3	184	2.13	54	-	-	38219	1	
<b>Metric</b>	<b>Long</b>																				
	.71	2.6	66	0.22	6	29147	50		39147	10			.71	1.2	31	0.22	6	28247	50	38247	10
	.89	2.7	68	0.34	9	29148	50		39148	10			.89	1.2	31	0.34	9	28248	50	38248	10
	1.27	2.8	72	0.53	13	29149	50		39149	10			1.27	1.6	42	0.53	13	28249	50	38249	10
	1.5	3.0	77	0.53	14	29150	50		39150	10			1.5	1.7	44	0.53	14	28250	50	38250	10
	2.0	3.2	82	0.61	16	29152	50		39152	10			2.0	1.9	49	0.61	16	28252	50	38252	10
	2.5	3.5	88	0.69	17	29154	50		39154	10			2.5	2.1	54	0.69	17	28254	50	38254	10
	3.0	3.9	98	0.75	19	29156	50		39156	10			3.0	2.4	61	0.75	19	28256	50	38256	10
	3.5	3.9	100	0.85	21	29158	50		39158	1			3.5	2.6	65	0.85	21	28258	50	38258	1
	4.0	4.3	110	0.87	22	29160	50		39160	10			4.0	2.7	68	0.87	22	28260	50	38260	10
	4.5	4.5	114	1.00	25	29162	50		39162	1			4.5	2.9	73	1.00	25	28262	50	38262	1
	5.0	4.7	119	1.06	27	29164	50		39164	5			5.0	3.1	78	1.06	27	28264	50	38264	5
	5.5	4.9	124	1.14	29	29166	25		39166	1			5.5	3.3	83	1.14	29	28266	25	38266	1
	6	5.5	139	1.22	31	29168	25		39168	5			6	3.5	88	1.22	31	28268	25	38268	5
	7	5.5	140	1.30	33	29170	25		39170	1			7	3.7	93	1.30	33	28270	25	38270	1
	8	6.0	152	1.38	35	29172	25		39172	5			8	3.9	98	1.38	35	28272	25	38272	5
	9	6.2	159	1.46	37	29174	25		39174	1			9	4.0	102	1.46	37	28274	25	38274	1
	10	6.7	171	1.54	39	29176	10		39176	5			10	4.3	109	1.54	39	28276	10	38276	5
	11	7.9	200	1.63	42	29178	10		39178	1			11	4.5	115	1.63	42	28278	10	38278	1
12	8.7	220	1.73	44	29180	10		39180	1			12	4.8	122	1.73	44	28280	10	38280	1	
14	10.2	260	2.15	55	-	-		39184	1			14	5.4	136	2.15	55	-	-	38284	1	
17	11.0	280	2.42	61	-	-		39186	1			17	6.1	156	2.42	61	-	-	38286	1	
19	11.6	295	2.70	69	-	-		39188	1			19	6.9	175	2.72	69	-	-	38288	1	

# Star Tip Tools



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



Color Coded

■ Star



High Torque Steel:

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

## FINISH OPTIONS:

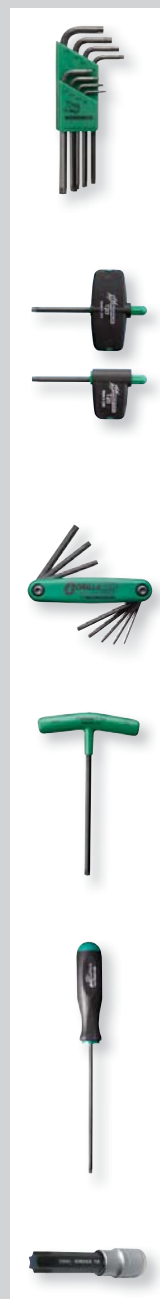


Corrosion-resistant finish:

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

## Bondhus Star Tip Tools

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



L-Wrenches 21-22

Wing and Flag Tools 23

Fold Ups 26-27

T-Handles 33

Screwdrivers 38-39

Socket Bits 45-46

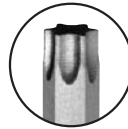
\*TORX® is a registered trademark of Acument Intellectual Properties, LLC

# Star Tip L-Wrenches

## - ProGuard™ Finish -

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

ProGuard™ finish delivers superior corrosion protection



Star Tips

## L-Wrenches

Tools are in color coded cases for easy recognition

Green=Star

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



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

# ProHold® Star Tip L-Wrenches

## - ProGuard™ Finish -

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

ProGuard™ finish delivers superior corrosion protection



The ProHold® Star Tip holds screw securely

Tools are in color coded cases for easy recognition

Green=Star

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



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

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

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

# BallStar™ Tip L-Wrenches

## - ProGuard™ Finish -

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



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



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

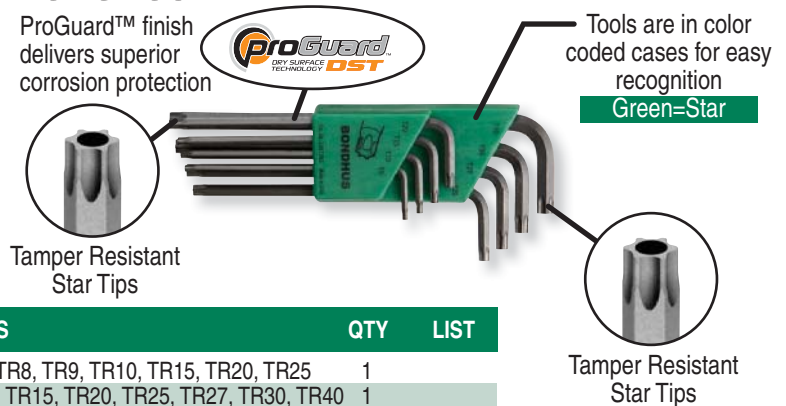
*Did you know...?*

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

# Tamper Resistant Star Tip L-Wrenches

## - ProGuard™ Finish -

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



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



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

*Did you know...?*

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

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

# Star Tip Wing Tools

- ProGuard™ Finish -

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

ProGuard™ finish delivers superior corrosion protection



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



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

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



# Star Tip Flag Tools

- ProGuard™ Finish -

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

ProGuard™ finish delivers superior corrosion protection



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



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

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



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

# Fold Ups



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

## Color Coded

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



High Torque Steel:

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

## FINISH OPTIONS:



Corrosion-resistant finish:

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



Next generation chrome finish:

Traditional plated tool look with superior protection and durability.



Real 14 karat gold finish:

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

## Designed with the Tool User in mind

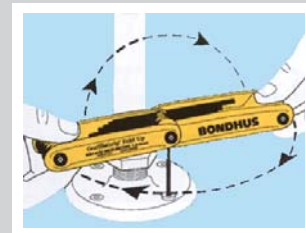
A Bondhus Fold Up is a tool for life. When designing the GorillaGrip® Fold Up, Bondhus engineers eliminated the problems of the average folding tool. GorillaGrip® Fold Up tools are stronger, more comfortable and easier to use.



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



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



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



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

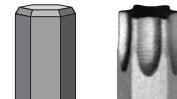


# GorillaGrip® Fold Up Multi Packs

## - ProGuard™ Finish -

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

Inch	Metric	Star



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

12522

# Hex End GorillaGrip® Fold Ups

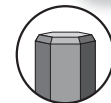
## - ProGuard™ Finish -

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



ProGuard™ finish delivers superior corrosion protection

Yellow=Inch  
Red=Metric  
Orange=Inch/Metric



Hex End Tips



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



12587



12550

# Ball End GorillaGrip® Fold Ups

## - ProGuard™ Finish -

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



ProGuard™ finish delivers superior corrosion protection

Yellow=Inch  
Red=Metric



Ball End Tips



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



12894

# Star Tip GorillaGrip® Fold Ups

- ProGuard™ Finish -

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



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

# Tamper Resistant GorillaGrip® Star Tip Fold Ups

- ProGuard™ Finish -

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



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

# Utility GorillaGrip® Fold Ups

- ProGuard™ Finish -

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



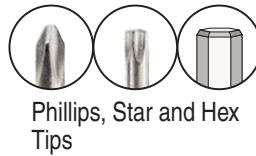
Sets	PART#	MODEL#	PCS	CONTENTS	QTY	LIST
Utility	12540	HFU5	5	PH #1; Slotted 3/16"; Hex 4, 5, 6mm	1	
	12543	RFU5	5	PH #1, #2; Slotted 3/16"; Square #1, #2	1	
	12545	AFU5	5	PH #1, #2; Slotted 1/8, 3/16"; Awl	1	
	12547	FU5	5	PH #1, #2; Slotted 1/8, 3/16, 1/4"	1	

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

# Hawg Buddy GorillaGrip® Motorcycle Fold Up

## - BriteGuard™ Finish -

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



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

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

# Cycle Buddy GorillaGrip® Motorcycle Fold Up

## - GoldGuard™ Finish -

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

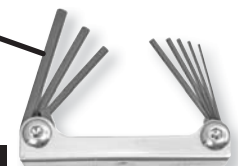


Set	PART#	MODEL#	PCS	CONTENTS	QTY	LIST
	12594	FUCB6	6	PH #2; Hex 3, 4, 5, 6, 8mm	1	

# Metal Fold Ups

## - ProGuard™ Finish -

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





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

# T-Handles



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

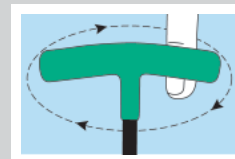
## Color Coded

-  Inch
-  Metric
-  Star



## A Better T-Handle

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



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



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



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



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



High Torque Steel:

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

## FINISH OPTIONS:



Corrosion-resistant finish:

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

# Ball End T-Handles - ProGuard™ Finish -

# T-Handles

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

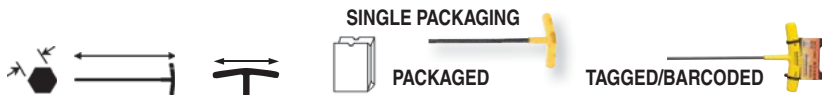
ProGuard™ finish delivers superior corrosion protection



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

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

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



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



13148

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

## Molded T-Handle Stands

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

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



Set stand on bench or mount on wall.

*Did you know...?*

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

# ProHold® Tip Ball End T-Handles

## - ProGuard™ Finish -

T-Handles

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



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



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

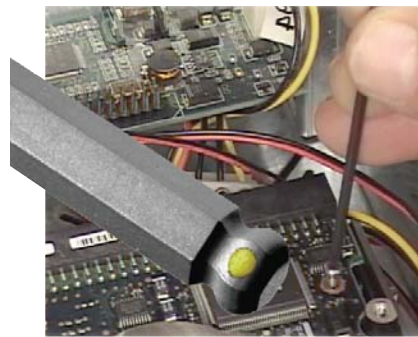


75148

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



ProHold® button holds screw tight on the tool EVERY TIME



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

# Hex End T-Handle Sets

## - ProGuard™ Finish -

T-Handles

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



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

✓ Comes with stand 17936 Inch or 17935 Metric



13389



13390



13348

### Bondhus



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

### Competitor



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



For singles see page 32

# Hex End T-Handle Singles

## - ProGuard™ Finish -

T-Handles

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



**SINGLE PACKAGING**

PACKAGED TAGGED/BARCODED

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

**SINGLE PACKAGING**

PACKAGED TAGGED/BARCODED

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

**SINGLE PACKAGING**

PACKAGED TAGGED/BARCODED

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

**SINGLE PACKAGING**

PACKAGED TAGGED/BARCODED

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

For sets see page 31

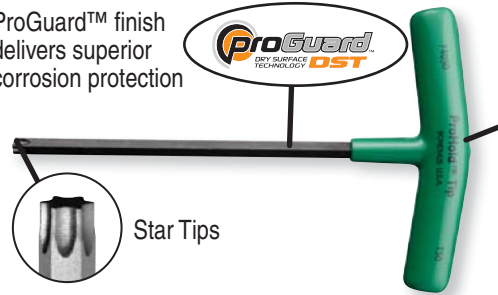


# Star Tip T-Handles

## - ProGuard™ Finish -

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

ProGuard™ finish delivers superior corrosion protection



Handles are color coded for easy recognition  
**Green=Star**



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

✓ Comes with stand 17934



SINGLE PACKAGING

PACKAGED

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

*Did you know...?*

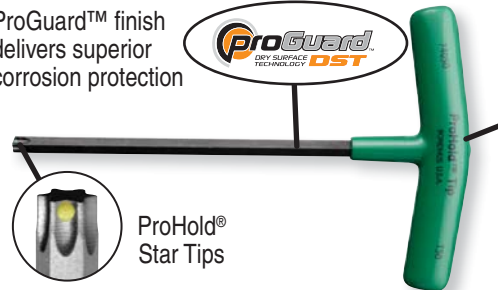
Bondhus Star Tip and Star Plus Tip tools fit Star, Star Plus and TORX® brand screws.

# ProHold® Star Tip T-Handles

## - ProGuard™ Finish -

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

ProGuard™ finish delivers superior corrosion protection



Handles are color coded for easy recognition  
**Green=Star**



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

✓ Comes with stand 17934



SINGLE PACKAGING

PACKAGED

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

*Did you know...?*

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

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

# Screwdrivers



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

## Color Coded

- Inch
- Metric
- Star



High Torque Steel:

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

## FINISH OPTIONS:



Corrosion-resistant finish:

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



Next generation chrome finish:

Traditional plated tool look with superior protection and durability.



Real 14 karat gold finish:

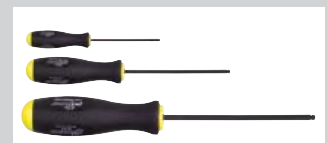
Superior protection and durability over traditional chrome and the look and shine of real gold.

## Attention to Detail

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



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



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



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



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

# Ball End Screwdrivers

## - ProGuard™ Finish -

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



Handles are color coded for easy recognition

Yellow=Inch  
Red=Metric



10637

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

Singles	Standard					Long																	
	SIZE	INCH	MM	INCH	MM	PART#	QTY	LIST	EA	PART#	QTY	LIST	EA	SIZE	INCH	MM	INCH	MM	PART#	QTY	LIST	EA	
<b>Inch</b>	<b>Standard</b>					<b>Long</b>																	
	.050	2.4	60	4.1	104	10602	2			40602	2			-	-	-	-	-	-	-	-	-	-
	1/16	2.5	64	4.7	118	10603	2			40603	2			-	-	-	-	-	-	-	-	-	-
	5/64	2.6	67	4.8	122	10604	2			40604	2			5/64	4.3	110	6.5	164	10704	2			
	3/32	2.8	71	5.2	132	10605	2			40605	2			3/32	4.8	122	7.2	184	10705	2			
	7/64	2.9	74	5.3	136	10606	2			40606	2			7/64	5.9	151	8.4	212	10706	2			
	1/8	3.1	80	6.6	168	10607	2			40607	2			1/8	6.4	164	9.9	252	10707	2			
	9/64	3.3	83	6.8	171	10608	2			40608	2			9/64	6.9	176	10.4	264	10708	2			
	5/32	3.6	91	7.9	201	10609	2			40609	2			5/32	7.4	189	11.8	299	10709	2			
	3/16	3.7	94	8.0	204	10610	2			40610	2			3/16	7.9	202	12.3	312	10710	2			
	7/32	4.2	107	9.0	230	10611	2			40611	2			7/32	8.4	214	13.3	337	10711	2			
	1/4	5.0	126	9.8	249	10612	2			40612	2			1/4	8.9	227	13.7	349	10712	2			
	5/16	5.6	142	10.4	265	10613	2			40613	2			5/16	9.5	241	14.3	364	10713	2			
	3/8	6.5	164	11.3	287	10614	2			40614	2			3/8	9.9	252	14.8	376	10714	2			
7/16	7.6	194	12.5	317	10615	1			-	-			-	-	-	-	-	-	-	-	-	-	
1/2	8.6	217	13.4	340	10616	1			-	-			-	-	-	-	-	-	-	-	-	-	
<b>Metric</b>	<b>Standard</b>					<b>Long</b>																	
	1.27	2.4	60	4.1	104	10649	2			40649	2			-	-	-	-	-	-	-	-	-	-
	1.5	2.6	66	4.7	120	10650	2			40650	2			-	-	-	-	-	-	-	-	-	-
	2.0	2.8	72	5.0	127	10652	2			40652	2			2.0	4.0	102	6.2	157	10752	2			
	2.5	2.7	69	5.1	130	10654	2			40654	2			2.5	4.3	110	6.7	171	10754	2			
	3.0	3.3	83	6.7	171	10656	2			40656	2			3.0	6.2	158	9.7	247	10756	2			
	3.5	3.5	88	6.9	176	10658	1			-	-			-	-	-	-	-	-	-	-	-	-
	4.0	3.7	95	8.1	205	10660	2			40660	2			4.0	7.0	179	11.4	288	10760	2			
	4.5	4.3	109	8.6	218	10662	1			-	-			-	-	-	-	-	-	-	-	-	-
	5.0	4.3	109	8.6	219	10664	2			40664	2			5.0	7.8	198	12.1	308	10764	2			
	5.5	5.0	126	9.3	236	10666	1			-	-			-	-	-	-	-	-	-	-	-	-
	6	5.4	137	10.2	260	10668	2			40668	2			6	8.6	218	13.4	341	10768	2			
	7	5.7	145	10.5	268	10670	1			-	-			-	-	-	-	-	-	-	-	-	-
	8	6.4	162	11.2	286	10672	2			40672	2			8	9.3	237	14.2	360	10772	2			
9	6.9	175	11.7	298	10674	1			-	-			-	-	-	-	-	-	-	-	-	-	
10	7.3	184	12.1	307	10676	2			40676	2			10	10.2	259	15.0	382	10776	2				

For Extra Long and Custom Length singles see page 36

# Ball End Screwdriver Extra Long and Custom Length Singles

## - ProGuard™ Finish -

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



Ball End Tips

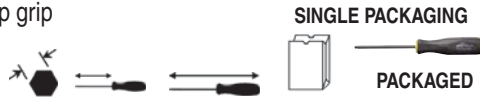
ProGuard™ finish delivers superior corrosion protection



Handles are color coded for easy recognition

Yellow=Inch

Red=Metric



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

Customer must specify "out of handle length"

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

Customer must specify "out of handle length"

Handles are color coded for easy recognition

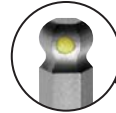
Yellow=Inch

Red=Metric

# ProHold® Ball End Screwdrivers

## - ProGuard™ Finish -

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



ProHold® Tip holds screws securely

ProGuard™ finish delivers superior corrosion protection



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



Singles	SIZE	INCH	MM	INCH	MM	PART#	QTY	LIST EA
<b>Inch</b>	.050	3.2	81	4.1	104	74602	2	
	1/16	3.3	84	4.7	118	74603	2	
	5/64	3.5	88	4.8	122	74604	2	
	3/32	3.7	94	5.2	132	74605	2	
	7/64	2.9	74	5.3	136	74606	2	
	1/8	3.1	80	6.6	168	74607	2	
	9/64	3.3	83	6.8	171	74608	2	
	5/32	3.6	91	7.9	201	74609	2	
	3/16	3.7	94	8.0	204	74610	2	
	7/32	4.2	107	9.0	230	74611	2	
	1/4	4.7	118	9.8	249	74612	2	
	5/16	5.6	142	10.4	265	74613	2	
	3/8	6.5	164	11.3	287	74614	2	

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

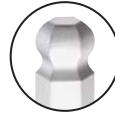
# Ball End Screwdrivers

## - BriteGuard™ Finish -

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



BriteGuard™ finish delivers superior corrosion protection



Ball End Tips

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

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



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

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

# Ball End Screwdrivers

## - GoldGuard™ Finish -

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



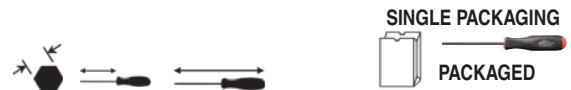
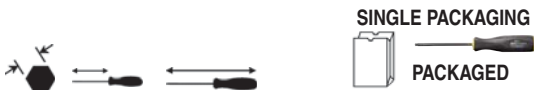
GoldGuard™ finish. Real 14 karat Gold



Ball End Tips

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

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



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

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

# Star Tip Screwdrivers

## - ProGuard™ Finish -

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



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

SINGLE PACKAGING



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

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

# ProHold® Star Tip Screwdrivers

## - ProGuard™ Finish -

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



Sets	PART#	MODEL#	PCS	CONTENTS	QTY	LIST
<b>Star</b>	75534	PHTSX8	8	T9, T10, T15, T20, T25, T27, T30, T40	1	

SINGLE PACKAGING



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

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

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

# Ball Star Tip Screwdrivers

## - ProGuard™ Finish -

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



ProGuard™ finish delivers superior corrosion protection



Handles are color coded for easy recognition  
**Green=Star**



Ball Star Tip

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

SINGLE PACKAGING



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

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

# Tamper Resistant Star Tip Screwdrivers

## - ProGuard™ Finish -

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

ProGuard™ finish delivers superior corrosion protection



Handles are color coded for easy recognition  
**Green=Star**



Tamper Resistant Star Tip

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

SINGLE PACKAGING



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

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

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

# Square Ball End Screwdrivers

## - ProGuard™ Finish -

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



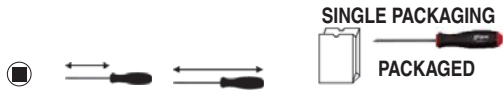
ProGuard™ finish delivers superior corrosion protection



Square Ball Tip

Ergonomic handle design

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



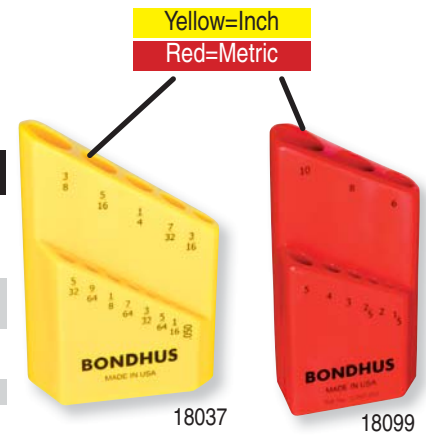
Singles	SIZE	INCH	MM	INCH	MM	PART#	QTY	LIST EA
	SQ0	3.5	90	7.0	178	11600	2	
	SQ1	3.8	95	7.2	183	11601	2	
	SQ2	4.0	102	8.3	212	11602	2	
	SQ3	4.0	102	8.3	212	11603	2	
	SQ4	4.5	115	8.8	225	11604	2	



## Bondhex™ Cases

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

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



## About the Bondhex™ Case

### For Ball End, Hex and Star Tip L-Wrenches

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

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





# Hollow Shaft Nut Drivers

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



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

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

SINGLE PACKAGING



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



48492

## Lifetime Warranty

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

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

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



# Socket Bits



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



High Torque Steel:

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

## FINISH OPTIONS:



Corrosion-resistant finish:

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

## ProHold® Socket Bit Technology

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



Bit sizes are clearly printed in white ink.



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



Bits are suitable for use with standard or impact sockets.

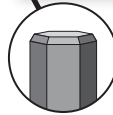
# Socket Bits

# Hex End Socket Bits

## - ProGuard™ Finish -

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

ProGuard™ finish delivers superior corrosion protection



Hex End Tips



Molded Black Case



Clamshell Package

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

Metric	43298	PHX9M/S-2	9	2"/50mm	Sockets & Bits	Transparent Clamshell	4, 5, 6, 7, 8, 10, 12, 14, 17mm	1	
	43646	PHX6M/S-6	6	6"/150mm	Sockets & Bits	Transparent Clamshell	4, 5, 6, 7, 8, 10mm	1	
	33298	PHX9M-2	9	2"/50mm	Bits Only	Transparent Clamshell	4, 5, 6, 7, 8, 10, 12, 14, 17mm	1	
	33646	PHX6M-6	6	6"/150mm	Bits Only	Transparent Clamshell	4, 5, 6, 7, 8, 10mm	1	
	30298	PHX9M/S-2C	9	2"/50mm	Sockets & Bits	Molded Black Case	4, 5, 6, 7, 8, 10, 12, 14, 17mm	1	
	30646	PHX6M/S-6C	6	6"/150mm	Sockets & Bits	Molded Black Case	4, 5, 6, 7, 8, 10mm	1	
	23246	PHX6M-2C	6	2"/50mm	Bits Only	Molded Black Case	4, 5, 6, 7, 8, 10mm	1	
	23298	PHX9M-2C	9	2"/50mm	Bits Only	Molded Black Case	4, 5, 6, 7, 8, 10, 12, 14, 17mm	1	
	23296	PHX9ML-2C	9	2"/50mm	Bits Only	Molded Black Case	5, 6, 7, 8, 10, 12, 14, 17, 19mm	1	



BIT ONLY



SOCKET AND BIT



BIT ONLY



SOCKET AND BIT

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

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

# Ball End Socket Bits

## - ProGuard™ Finish -

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



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

Singles	SIZE	BIT ONLY			SOCKET AND BIT			Singles	SIZE	BIT ONLY			SOCKET AND BIT		
		PART#	QTY	LIST EA	PART#	QTY	DRIVE			LIST EA	PART#	QTY	DRIVE	LIST EA	
<b>Inch</b>	<b>2" Long</b>		<b>50mm Long</b>					<b>Metric</b>	<b>2" Long</b>		<b>50mm Long</b>				
	1/8	31407	1	43407	1	3/8"	3.0		31456	1	43456	1	3/8"		
	5/32	31409	1	43409	1	3/8"	4.0		31460	1	43460	1	3/8"		
	3/16	31410	1	43410	1	3/8"	5.0		31464	1	43464	1	3/8"		
	7/32	31411	1	43411	1	3/8"	6		31468	1	43468	1	3/8"		
	1/4	31412	1	43412	1	3/8"	7		31470	1	43470	1	3/8"		
	5/16	31413	1	43413	1	3/8"	8		31472	1	43472	1	3/8"		
	3/8	31414	1	43414	1	3/8"	9		31474	1	43474	1	3/8"		
	5/16	-	-	43913	1	1/2"	10		31476	1	43476	1	3/8"		
	3/8	-	-	43914	1	1/2"	12		31480	1	43480	1	3/8"		
	1/2	31416	1	43916	1	1/2"	12		-	-	43980	1	1/2"		
	9/16	31417	1	43917	1	1/2"	14		31484	1	43984	1	1/2"		
5/8	31418	1	43918	1	1/2"	17	31486	1	43986	1	1/2"				
3/4	31419	1	43919	1	1/2"	19	31488	1	43988	1	1/2"				
<b>Inch</b>	<b>6" Long</b>		<b>150mm Long</b>					<b>Metric</b>	<b>6" Long</b>		<b>150mm Long</b>				
	1/8	31607	1	43807	1	3/8"	3.0		31656	1	43856	1	3/8"		
	5/32	31609	1	43809	1	3/8"	4.0		31660	1	43860	1	3/8"		
	3/16	31610	1	43810	1	3/8"	5.0		31664	1	43864	1	3/8"		
	7/32	31611	1	43811	1	3/8"	6		31668	1	43868	1	3/8"		
	1/4	31612	1	43812	1	3/8"	7		31670	1	43870	1	3/8"		
	5/16	31613	1	43813	1	3/8"	8		31672	1	43872	1	3/8"		
	3/8	31614	1	43814	1	3/8"	9		31674	1	43874	1	3/8"		
	1/2	31616	1	43716	1	1/2"	10		31676	1	43876	1	3/8"		
	9/16	31617	1	43717	1	1/2"	12		31680	1	43780	1	1/2"		
	5/8	31618	1	43718	1	1/2"	14		31684	1	43784	1	1/2"		
	3/4	31619	1	43719	1	1/2"	17		31686	1	43786	1	1/2"		
						19	31688	1	43788	1	1/2"				

# Star Tip Socket Bits

## - ProGuard™ Finish -

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

ProGuard™ finish delivers superior corrosion protection



Star Tips



Molded Black Case



Clamshell Package

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

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

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

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

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

# Socket Bit Combo Set - ProGuard™ Finish -

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



## Star & Metric Hex

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

# Hextenders

- Extend tool reach
- Allows blades to be coupled with Hex or Star tools
- Extra length can be achieved using multiple Hextender/Blade combinations



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



Hextender attaches blades to tools

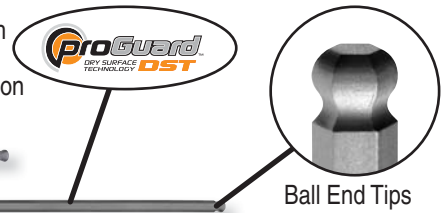
*Did you know...?*  
 You can extend tool reach with Bondhus' exclusive Hextender which saves time because any like sized blades can be coupled together to create a tool length for every need.

# Ball End Blades

## - ProGuard™ Finish -

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

ProGuard™ finish delivers superior corrosion protection



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



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



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



Singles	SIZE	INCH	MM	PART#	QTY	LIST EA
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Extra Long						
Inch	.050	12.0	305	3602	1	
	1/16	12.0	305	3603	1	
	5/64	12.0	305	3604	1	
	3/32	12.0	305	3605	1	
	7/64	12.0	305	3606	1	
	1/8	12.0	305	3607	1	
	9/64	12.0	305	3608	1	
	5/32	12.0	305	3609	1	
	3/16	12.0	305	3610	1	
	7/32	12.0	305	3611	1	
	1/4	12.0	305	3612	1	
	5/16	12.0	305	3613	1	
	3/8	12.0	305	3614	1	
	7/16	12.0	305	3615	1	
	1/2	12.0	305	3616	1	

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

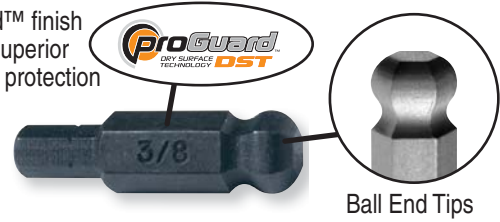
Extra Long						
Metric	1.5	12.0	305	3650	1	
	2.0	12.0	305	3652	1	
	2.5	12.0	305	3654	1	
	3.0	12.0	305	3656	1	
	4.0	12.0	305	3660	1	
	5.0	12.0	305	3664	1	
	6	12.0	305	3668	1	
	8	12.0	305	3672	1	
	10	12.0	305	3676	1	

# Ball End Insert Bits

- ProGuard™ Finish -

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

ProGuard™ finish delivers superior corrosion protection



Ball End Tips

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

SINGLE PACKAGING

PACKAGED

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

SINGLE PACKAGING

PACKAGED

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

# Ball End Power Bits

- ProGuard™ Finish -

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

ProGuard™ finish delivers superior corrosion protection



Ball End Tips

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

SINGLE PACKAGING

PACKAGED

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

SINGLE PACKAGING

PACKAGED

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



# Part Number Index

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

# Part Number Index

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

# Part Number Index

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

# Part Number Index






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

# Part Number Index

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

# NOTES

# Torque & Interchangeability

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

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

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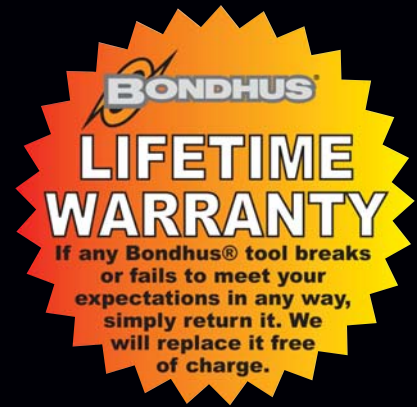


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