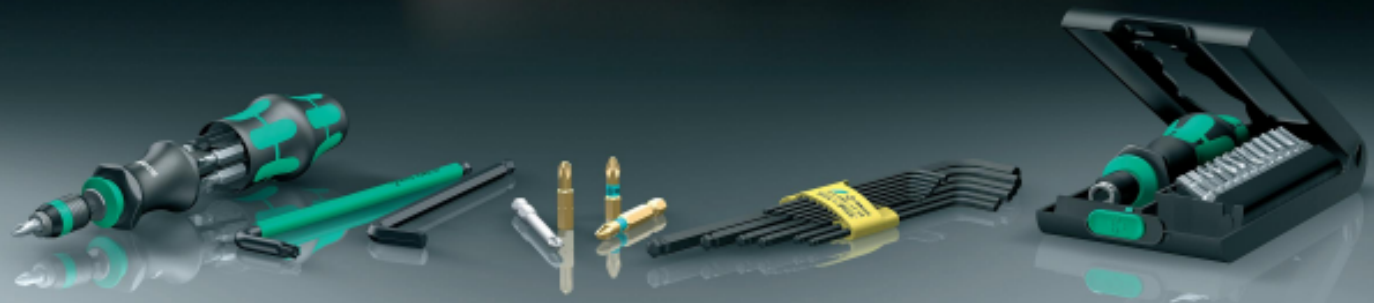
Wera

MRO Support Tool Program

Precision engineered tools for the challenges of Aerospace maintenance operations.



Bits • Bit Holders and Adaptors • L-Keys • Torque tools • Kraftform Kompakt®

Of course, no one can accurately forecast the final effect of aviation upon the world.
We can go ahead a few years and show the general trend beyond that, but no one can tell just how far flying will take us.
Charles A. Lindbergh, 1927

When precision counts...

Count on Wera

With the increasing economic pressures on the global aerospace industry, Wera recognizes the importance of the maintenance operations of all carriers, whether they are passenger, commercial or military.

It is because of this pressure that Wera has become more focussed on the particular tools required to ensure that aircraft are professionally and safely maintained, and that the job is done in the most cost-efficient way possible.

There have been several traditional suppliers of fastening tools to the aerospace industry over the past few years, however Wera has chosen to improve on the status-quo.

Perhaps the best example of the innovative character of Wera, specifically related to the aerospace market, was the introduction of our patented TORQ-SET® Mplus screwdriver bits.

The uniquely improved geometry of the Mplus bits provides for better fit in the screws, higher torque transfer, and less cam-out. Most importantly for the MRO activities, the strongest benefit of the Mplus technology is seen during the removal of fasteners which have been in service and are probably filled with paint or in slightly less-than-perfect condition.

When you add the patented diamond-coating to the Mplus profile, you've got a combination that can handle the most stubborn removal challenge.

The diamond coating is available on most different styles of bits and provides the best cam-out resistance possible. It also means that technicians don't have to waste their energy pushing on the back of the drive tool to keep it engaged in the screw. Instead, the energy can be more efficiently used to turn the screws.

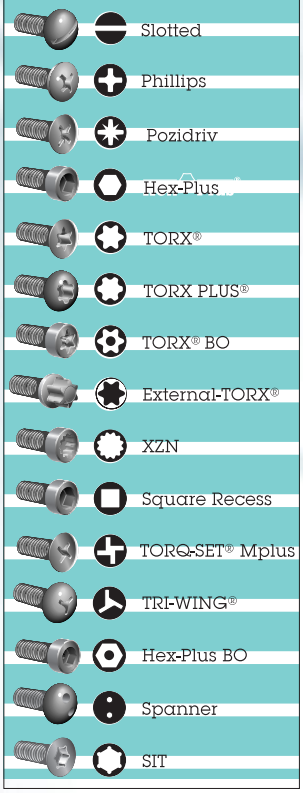
Wera also offers a complete range of precision milled bits for the Phillips recess. The milled profile (instead of the typical forged design) delivers the best possible fit in the recess as soon as paint or coatings cover the screw and allows for more torque to be applied during removal or installation, with less damage to fasteners as a result.

We are sure that you will find many useful solutions to your fastening challenges in the pages of our new Aerospace brochure. And if we can provide any additional technical assistance or if you have a particular challenge you can't find a solution for, please contact our local representatives and they will work with you to deliver ...

The Best Tools For The Job.

info

Wera bits range: Every little bit helps



The Cologne International Hardware Fair Practical World is the biggest event (every 2nd year in odd years) for many global tool manufacturers; especially for those operating in Germany. Wera is no exception.

The event draws people from all over the world, both buyers and sellers, so it is always a great chance to learn about "what's new", and to take advantage of the tremendous networking opportunity available.

Our mission is:

To produce the best tools for the job.

This mission stems from a clear responsibility to the professional end-user.

As a result, every year, Wera - as a specialist for screwdrivers, bits and adapters, continues to introduce the best tools for the job.

The Kraftform® screwdriver is the perfect example of this high standard. For the first time in the production of screwdrivers, ergonomic aspects were taken into consideration in the development of a tool.

The Kraftform® handle has become a favorite of many users worldwide since its introduction into the market in 1968, and it has been recognized by the industry several times. This handle revolutionized the market for screwdrivers, which was dominated at the time by cylindrical, wooden or plastic handles shaped with slots or ribs.

Today, the Kraftform® handle stands for innovation as well as tradition, and is the unmistakable trademark of the company Wera.

Besides working towards our objective of trying to develop the best tools for the job, we enjoy the extensive dialogue and co-operation with our customers. This relationship is critical to the development and production of Wera products.

The Wera stand – a very busy place, and always full of the latest innovations in screwdriving technology.

For both professional end-users in industry and for serious DIY-ers in the workshop, Wera tools are the only choice when looking for the best tools for the job, since Wera provides tools for better productivity, increased security and improved ergonomics.

More than 300 national and international patent registrations and pending patents are an indicator of the creativity and innovation power, with which the Germany-based family business pursues these goals. With more than 600 employees in Germany, the USA, Canada, Great Britain, Spain, Singapore and the Czech Republic, Wera has developed into a significant international organization. Despite this remarkable growth, some key characteristics have remained unchanged since the beginnings of the company in 1936, with only 3 people in that little shed in Wuppertal-Cronenberg.

Among these characteristics are a consistent focus on the user friendliness of our products, as well as the consistent dialogue with our customers and the pleasure that results from this collaboration.

The Wera stand: The unique combination of meeting areas, hands-on demonstration areas, and the full-service kitchen and bar provides for a unique and productive atmosphere!

Order your free Wera main catalog: www.weratools.com

In May 2005, Ian Parkhill (President - Wera Tools Inc.) unveiled the Wera Road-show at the first North American Sales Meeting. The Road-show is a unique promotional vehicle that our sales force will be sharing over the next few years, to introduce the range of Wera products to our key distributors and end-users, across North America. The unique and attention-getting Chevrolet SS-R pickup truck includes a custom-built tool box (courtesy of Kennedy Manufacturing of Van Wert, Ohio - Thanks Dave!), that contains a very extensive selection of samples, representing the key Wera product groups.

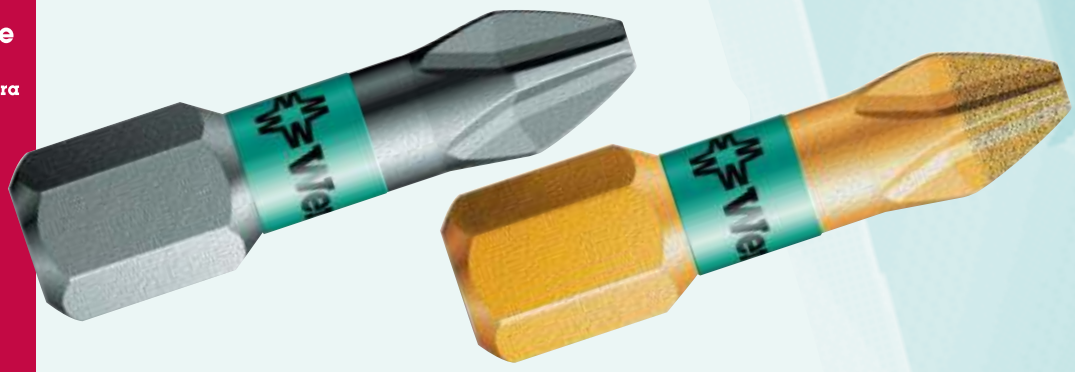
The Wera Bits Range

Proven quality for use in trade and industry.

The product range

The extensive range of Wera contains the best tools for different types of fasteners.

- ➔ Torsion and BiTorsion® bits for dramatically improved service life
- ➔ The Wera diamond coated bits provide safe, fast and cost-effective work
- ➔ Wera TORQ-SET® Mplus tools provide a 70 % higher torque transfer compared with conventional TORQ-SET® tools



Extensive range
The extensive range of Wera screwdriver bits contains the best tools for different types of fasteners.

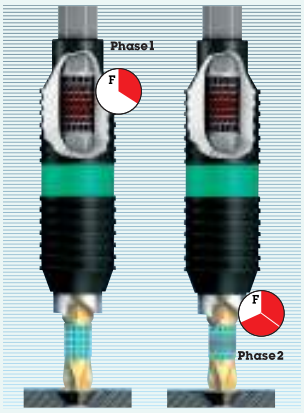
High quality
Wera bits are designed for tough applications found in trade and industry.
Through careful selection of materials and strictly controlled manufacturing processes, Wera bits fulfil the highest quality requirements.

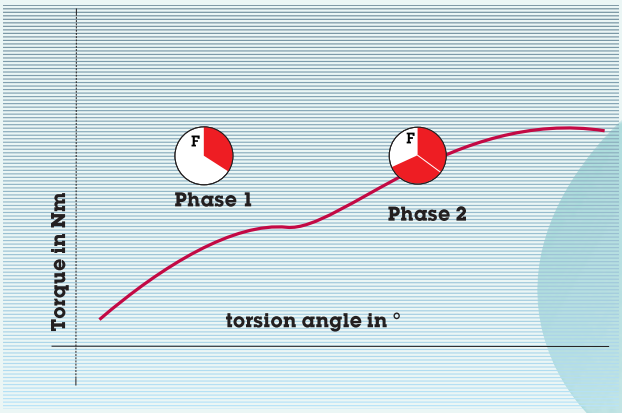
They provide the transfer of high torque values and deliver a long service life.

Improved productivity
Wera bits ensure the consistent transfer of high torque values, and deliver superb service life. As a result, the costs per fastening cycle are significantly reduced.

Phase 1: *Small peak loads will be absorbed by the Torsion zone of the adaptor.*

Phase 2: *Greater peak loads will be absorbed by the Torsion zone of the bit.*





Force – Torsion curve of Phase 1 / Phase 2
The double effect of the BiTorsion® System increases the service life of the entire system dramatically.

TORSION

Wera Torsion bits:
For a long service life.

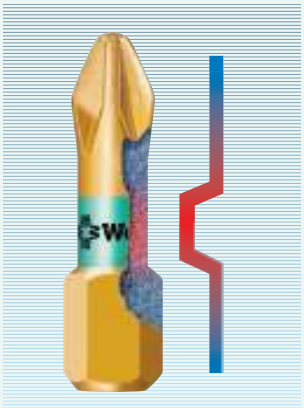
Wera was the first bit manufacturer to introduce Torsion bits to the market in 1989.

This innovative product represents a revolutionary technology in comparison with traditional style bits.

By diverting torque peaks into the Torsion zone of the bit, premature wear and tear is avoided and dramatically improved service life is achieved.

Those bits can be recognized by the letter " Z" in the article description (e. g. 851/4 TZ) and the steel grey colour.

Torsion bits can be found on pages 8, 11,12 and 13.



Hardening pattern of the BiTorsion® bit

BiTorsion®

The BiTorsion® system:
The ones with the coloured band.

Machine-driven screwdriver bits are quickly worn out due to severe and recurring torque load peaks. By using the BiTorsion® system, the lifespan of the tools can be significantly extended.

BiTorsion® bits have a softer Torsion zone, into which kinetic energy is absorbed from the drive tip during load peaks.

The BiTorsion® holder also has a Torsion zone, which helps to reduce the impact of damaging load peaks as well. The combined use of both the BiTorsion® bit and holder increases the service life of the tools considerably and thus ensures higher productivity.
BiTorsion® bits and holders can, however, be used independently of each other and with conventional tools.

BiTorsion® bits and holders can be easily recognized by the coloured band and by the letter "B" in the article description (e. g. 851/1 BDC).

BiTorsion® holders can be found on page 30. BiTorsion® bits can be found on pages 8, 11 and 15.

DIAMOND

Bits with Bite: Screwdriver bits with diamond coating.

The Wera diamond bit range features thousands of tiny diamond particles which are applied to the tip of the tool, with no negative effect on the fit of the tools in the fasteners. These particles "bite" into the recess of the screw and ensure that the tool is securely positioned in the head of the screw.

In addition, the diamond coating dramatically reduces the "cam-out" forces, which require the user to exert high pressure on the screw-driving tool to overcome. The diamond coated bits offer significant advantages, particularly when driving screws into delicate materials or around high-quality surfaces, as they provide safe, fast and, as a result, cost-effective work.

BiTorsion® bits with diamond coating are recognized by the letters "BDC" in the article description (e.g. 851/1 BDC), the gold colour and the coloured band.

Bits with diamond coating can be found on pages 8, 11, 15, 18 and 19.

Bits for Phillips screws

851/1 BDC bits BiTorsion

Application: For Phillips screws; reduces cam-out to more effectively removed seized fasteners

Drive: 1/4"-hexagon, DIN 3126-C 6,3, ISO 1173
Tip: DIN 5260-PH, ISO 8764-PH, diamond coated

Code		mm	inch	
056400	PH 1	25	1"	10
056402	PH 2	25	1"	10
056404	PH 3	25	1"	10

851/1 A bits

Application: For Phillips screws; extra hard

Drive: 1/4"-hexagon, DIN 3126-C 6,3, ISO1173
Tip: DIN 5260-PH, ISO 8764-PH, milled version

Code		mm	inch	∅	
134919	PH 1	25	1"	4,5	10
134920	PH 2	25	1"	6,0	10
134921	PH 3	25	1"	--	10

851/1 ADC bits

Application: For Phillips screws; reduces cam-out to more effectively removed seized fasteners

Drive: 1/4"-hexagon, DIN 3126-C 6,3, ISO1173
Tip: DIN 5260-PH, ISO 8764-PH, milled version, diamond coated

Code		mm	inch	∅	
134940	PH 1	25	1"	4,5	10
134941	PH 2	25	1"	6,0	10
134942	PH 3	25	1"	--	10

853/1 TZ bits, ACR TORSION

Application: For Phillips screws; reduces cam-out to more effectively removed seized fasteners

Drive: 1/4"-hexagon, DIN 3126-C 6,3, ISO 1173
Tip: DIN 5260-PH, ISO 8764-PH, ACR, professional quality

Code		mm	inch	
056660	PH 1	25	1"	10
056662	PH 2	25	1"	10
056664	PH 3	25	1"	10

851/1 Z bits

Application: For Phillips screws; extra tough

Drive: 1/4"-hexagon, DIN 3126-C 6,3, ISO 1173
Tip: DIN 5260-PH, ISO 8764-PH, professional quality

Code		mm	inch	
056500	PH 0	25	1"	10
072070	PH 1	25	1"	10
072072	PH 2	25	1"	10
072074	PH 3	25	1"	10
056535	PH 4	32	1 1/4"	10

851/2 Z bits

Application: For Phillips screws; extra tough

Drive: 5/16"-hexagon, DIN 3126-C 8, ISO 1173
Tip: DIN 5260-PH, ISO 8764-PH, professional quality

Code		mm	inch	∅	
057705	PH 1	32	1 1/4"	4,5	10
057710	PH 2	32	1 1/4"	6,0	10
057715	PH 3	32	1 1/4"	7,6	10
057720	PH 4	32	1 1/4"	--	10
057725	PH 4	38	1 1/2"	10,0	10

info

Diamond coating reduces the "cam out" forces, which require the user to exert high pressure on the screw-driving tool to overcome.

info

BiTorsion®

BiTorsion® bits have a softer Torsion zone, into which kinetic energy is absorbed from the drive tip during load peaks.

info

TORSION

By diverting torque peaks into the torsion zone of the bit, premature wear and tear is avoided and dramatically improved service life is achieved.

Bits for Phillips screws

851/4 BDC bits BiTorsion

Application: For Phillips screws; reduces cam-out to more effectively removed seized fasteners

Drive: 1/4"-hexagon, DIN 3126-E 3,6, ISO 1173
Tip: DIN 5260-PH, ISO 8764-PH, diamond coated

Code		mm	inch	
059530	PH 1	50	2"	10
059532	PH 2	50	2"	10
059534	PH 3	50	2"	10

Diamond coating reduces the "cam out" forces, which require the user to exert high pressure on the screw-driving tool to overcome.

BiTorsion® bits have a softer Torsion zone, into which kinetic energy is absorbed from the drive tip during load peaks.

851/4 ADC bits TORSION

Application: For Phillips screws; reduces cam-out to more effectively removed seized fasteners

Drive: 1/4"-hexagon, DIN 3126-E 3,6, ISO 1173
Tip: DIN 5260-PH, ISO 8764-PH, diamond coated

Code		mm	inch	∅ mm	
134950	PH 1	50	2"	4,5	10
134951	PH 2	50	2"	6,0	10
134952	PH 3	50	2"	--	10

By diverting torque peaks into the torsion zone of the bit, premature wear and tear is avoided and dramatically improved service life is achieved.

851/4 TZ bits TORSION

Application: For Phillips screws; extra tough

Drive: 1/4"-hexagon, DIN 3126-E 6,3, ISO 1173
Tip: DIN 5260-PH, ISO 8764-PH, professional quality

Code		mm	inch	
059805	PH 1	50	2"	10
059810	PH 2	50	2"	10
059815	PH 3	50	2"	10

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Bits for Phillips screws

851/4 A bits TORSION

Application: For Phillips screws; extra hard
Drive: 1/4"-hexagon, DIN 3126-E 6,3, ISO 1173
Tip: DIN 5260-PH, ISO 8764-PH, professional quality, milled version

Code		mm	inch	⌀		
134930	PH 1	50	2"	4,5	10	
134931	PH 2	50	2"	6,0	10	
134932	PH 3	50	2"	-	10	

info TORSION

By diverting torque peaks into the torsion zone of the bit, premature wear and tear is avoided and dramatically improved service life is achieved.

851/4 Z bits

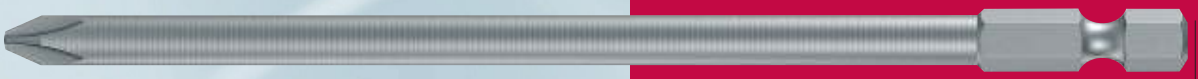
Application: For Phillips screws; extra tough
Drive: 1/4"-hexagon, DIN 3126-E 6,3, ISO 1173
Tip: DIN 5260-PH, ISO 8764-PH, professional quality

Code		mm	inch	⌀ mm		
059755	PH 1	70	2 3/4"	4,5	10	
059760	PH 1	89	3 1/2"	4,5	10	
059766	PH 1	152	6"	4,5	10	
059770	PH 2	70	2 3/4"	6,0	10	
059775	PH 2	89	3 1/2"	6,0	10	
059786	PH 2	152	6"	6,0	10	
059790	PH 3	70	2 3/4"	-	10	
059795	PH 3	89	3 1/2"	-	10	
059802	PH 3	152	6"	-	10	

851/4 reduced tip bits

Application: For Phillips screws; for narrow applications
Drive: 1/4"-hexagon, DIN 3126-E 6,3, ISO 1173
Tip: DIN 5260-PH, ISO 8764-PH, professional quality

Code		mm	inch	⌀ mm	
160899	PH 2	50	2"	3,0	10
160896	PH 2	152	6"	3,0	10



TIP

Extra long.

Bits of Wera Series 4 are available in different lengths. Slotted, Phillips, Pozidriv, TORX®, 70, 89, 110, 127 and 152 mm.

Bits for Phillips screws

853/4 ACR bits TORSION

Application: For Phillips screws; reduces cam-out

Drive: 1/4"-hexagon, DIN 3126-E 6,3, ISO 1173
Tip: DIN 5260-PH, ISO 8764-PH, ACR, professional quality

Code		mm	inch		
346285	PH 1	50	2"	3,5	10
346286	PH 2	50	2"	5,2	10
346287	PH 3	50	2"	5,8	10

853/4 Harpoon ACR bits

Application: For Phillips screws; reduces cam-out; for narrow applications

Drive: 1/4"-hexagon, DIN 3126-E 6,3, ISO 1173
Tip: DIN 5260-PH, ACR, professional quality

Code		mm	inch	Ø	
160901	PH 2	50	2"	3,3	10
160895	PH 2	70	2 3/4"	3,3	10
160908	PH 2	152	6"	3,3	10

851/7 Z bits

Application: For Phillips screws; extra tough

Drive: 7/16"-hexagon, DIN 3126-E 11,2, ISO 1173
Tip: DIN 5260-PH, ISO 8764-PH, professional quality

Code		mm	inch	Ø	
062805	PH 1	75	3"	4,5	5
062810	PH 2	75	3"	6,0	5
062815	PH 3	75	3"	8,0	5
062820	PH 4	75	3"	10,0	5

Bits for hexagon socket screws

840/1 Z bits Hex-Plus®

Application:
For hexagon socket screws
Drive: 1/4"-hexagon,

DIN 3126-C 6,3, ISO 1173
Tip: Hex-Plus, similar to ISO 2936, professional quality

Code	mm/inch	mm	inch	
056303	1,5	25	1"	10
056305	2,0	25	1"	10
056310	2,5	25	1"	10
056315	3,0	25	1"	10
056320	4,0	25	1"	10
056325	5,0	25	1"	10
056330	6,0	25	1"	10
056332	7,0	25	1"	10
056335	8,0	25	1"	10
056340	10,0	25	1"	10
135070	1/16"	25	1"	10
135071	5/64"	25	1"	10
135072	3/32"	25	1"	10
135078	7/64"	25	1"	10
135073	1/8"	25	1"	10
135069	9/64"	25	1"	10
135074	5/32"	25	1"	10
135075	3/16"	25	1"	10
135079	7/32"	25	1"	10
135076	1/4"	25	1"	10
135077	5/16"	25	1"	10
135068	3/8"	25	1"	10

840/2 Z bits Hex-Plus®

Application: For hexagon socket screws
Drive: 5/16"-hexagon,

DIN 3126-C 8, ISO 1173
Tip: Hex-Plus, similar ISO 2936, professional quality

Code	mm/inch	mm	inch	
057505	3	30	1 3/16"	10
057510	4	30	1 3/16"	10
057515	5	30	1 3/16"	10
057520	6	30	1 3/16"	10
057525	8	30	1 3/16"	10
057530	10	30	1 3/16"	10
221102	5/32"	30	1 3/16"	10
135083	3/16"	30	1 3/16"	10
135084	7/32"	30	1 3/16"	10
135080	1/4"	30	1 3/16"	10
135081	5/16"	30	1 3/16"	10
135082	3/8"	30	1 3/16"	10

840/4 Z bits Hex-Plus®

Application:
For hexagon socket screws
Drive: 1/4"-hexagon,

DIN 3126-E 3,6, ISO 1173
Tip: Hex-Plus, similar ISO 2936, professional quality

Code	mm/inch	mm	inch	⌀	
059603	2,0	50	2"	4,0	10
059604	2,5	50	2"	4,0	10
059605	3,0	50	2"	4,0	10
059630	3,0	89	3 1/2"	4,0	10
059610	4,0	50	2"	5,0	10
059631	4,0	89	3 1/2"	5,0	10
059615	5,0	50	2"	6,0	10
059632	5,0	89	3 1/2"	6,0	10
059620	6,0	50	2"	5,0	10
059633	6,0	89	3 1/2"	–	10
059625	8,0	50	2"	–	10
135091	5/64"	50	2"	3,0	10
135092	3/32"	50	2"	3,0	10
135093	7/64"	50	2"	3,5	10
135094	1/8"	50	2"	4,0	10
135095	9/64"	50	2"	4,5	10
135096	5/32"	50	2"	5,0	10
135097	3/16"	50	2"	6,0	10
135098	7/32"	50	2"	–	10
135099	1/4"	50	2"	–	10

Bits for TORX® socket screws

867/1 TORX® BDC bits BiTorsion®

Application: For TORX® socket screws; reduces cam-out to more effectively removed seized fasteners

Drive: 1/4"- hexagon, DIN 3126-C 6,3, ISO 1173
Tip: TORX®, diamond coated

Code		mm	inch	
066100	TX 10	25	1"	10
066102	TX 15	25	1"	10
066104	TX 20	25	1"	10
066106	TX 25	25	1"	10
066108	TX 30	25	1"	10
066110	TX 40	25	1"	10

867/1 TORX® KK bits

Application: For TORX® socket screws; for "off angle applications"

Drive: 1/4"-hexagon, DIN 3126-C 6,3, ISO 1173
Tip: Ballpoint TORX®

Code		mm	inch	
066060	TX 10	25	1"	10
066061	TX 15	25	1"	10
066062	TX 20	25	1"	10
066063	TX 25	25	1"	10
066064	TX 30	25	1"	10
066065	TX 40	25	1"	10

info

BiTorsion®

BiTorsion® bits have a softer Torsion zone, into which kinetic energy is absorbed from the drive tip during load peaks.

info

Diamond coating reduces the "cam out" forces, which require the user to exert high pressure on the screw-driving tool to overcome.

Bits for TORX® socket screws

867/1 Z TORX® bits

Application: For TORX® socket screws
Drive: 1/4"-hexagon,
DIN 3126-C 6,3, ISO 1173
Tip: TORX®, professional quality

Code		mm	inch	⌀ mm	
066492	TX 5	25	1"	3,0	10
066493	TX 6	25	1"	3,0	10
066494	TX 7	25	1"	3,0	10
066495	TX 8	25	1"	3,0	10
066496	TX 9	25	1"	3,0	10
066485	TX 10	25	1"	4,0	10
066486	TX 15	25	1"	4,0	10
066487	TX 20	25	1"	5,0	10
066488	TX 25	25	1"	5,0	10
066489	TX 27	25	1"	6,0	10
066490	TX 30	25	1"	6,0	10
066491	TX 40	25	1"	–	10
066325	TX 45	35	1 3/8"	8,0	10
066330	TX 50	35	1 3/8"	9,0	10

867/1 Z TORX® W bits

Application:
For TORX® socket screws; "wedges" into TORX®-recess to firmly hold the fastener to the bit
Drive: 1/4"-hexagon,
DIN 3126-C 6,3, ISO 1173
Tip: TORX®, conical form, professional quality
(W=Wedge TORX®)

Code		mm	inch	
066450	TX 10	25	1"	10
066455	TX 15	25	1"	10
066460	TX 20	25	1"	10
066465	TX 25	25	1"	10
066470	TX 27	25	1"	10
066475	TX 30	25	1"	10
066480	TX 40	25	1"	10

867/1 H TORX® bits

Application: For TORX® socket screws
Drive: 1/4"-hexagon,
DIN 3126-C 6,3, ISO 1173
Tip: TORX®, professional quality, extra hard

Code		mm	inch	⌀	
135150	TX 5	25	1"	3,0	10
135152	TX 6	25	1"	3,0	10
135154	TX 7	25	1"	3,0	10
135156	TX 8	25	1"	3,0	10
135158	TX 9	25	1"	3,0	10
135160	TX 10	25	1"	4,0	10
135161	TX 15	25	1"	4,0	10

TIP

TORX® AND TORX® WEDGE

Small difference ... big advantage
No change to the screw, but TORX® WEDGE drivers are slightly tapered. They wedge into standard TORX® recesses to give very positive self-alignment with truly wobble-free stick-fit driving. Easy, one-handed installation is assured.

Please see article 867/1 Z TORX® W.

867/2 Z TORX® bits

Application: For TORX® socket screws

Drive: 5/16"-hexagon, DIN 3126-C 8, ISO 1173
Tip: TORX® professional quality

Code		mm	inch	mm	
066901	TX 20	35	1 3/8"	4,5	10
066900	TX 25	35	1 3/8"	5,8	10
066902	TX 27	35	1 3/8"	5,8	10
066905	TX 30	35	1 3/8"	6,0	10
066910	TX 40	35	1 3/8"	7,0	10
066915	TX 45	35	1 3/8"	–	10
066920	TX 50	35	1 3/8"	–	10
066925	TX 55	35	1 3/8"	12,0	10
136220	TX 60	35	1 3/8"	14,0	10

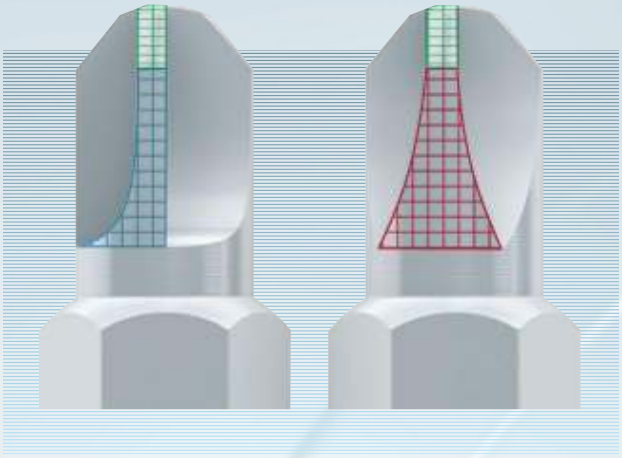
867/4 Z TORX® bits

Application: For TORX® socket screws
Drive: 1/4"-hexagon, DIN 3126-E 6,3, ISO 1173

Tip: TORX®, professional quality

Code		mm	inch	mm	
135204	TX 4	50	2"	3,0	10
135205	TX 5	50	2"	3,0	10
308428	TX 6	50	2"	3,0	10
134740	TX 6	70	2 3/4"	3,0	10
332600	TX 6	89	3 1/2"	3,0	10
328448	TX 6	152	6"	3,0	10
060131	TX 8	50	2"	3,0	10
060098	TX 8	70	2 3/4"	3,0	10
060185	TX 8	89	3 1/2"	3,0	10
060195	TX 8	152	6"	3,0	10
060132	TX 10	50	2"	4,0	10
060100	TX 10	70	2 3/4"	4,0	10
060186	TX 10	89	3 1/2"	4,0	10
060196	TX 10	152	6"	4,0	10
060133	TX 15	50	2"	4,0	10
060105	TX 15	70	2 3/4"	4,0	10
060187	TX 15	89	3 1/2"	4,0	10
060197	TX 15	152	6"	4,0	10
060134	TX 20	50	2"	4,5	10
060110	TX 20	70	2 3/4"	4,5	10
060188	TX 20	89	3 1/2"	4,5	10
060198	TX 20	152	6"	4,5	10
060135	TX 25	50	2"	6,0	10
060115	TX 25	70	2 3/4"	6,0	10
060189	TX 25	89	3 1/2"	6,0	10
060199	TX 25	152	6"	6,0	10
060136	TX 27	50	2"	6,0	10
060120	TX 27	70	2 3/4"	6,0	10
060190	TX 27	89	3 1/2"	6,0	10
060200	TX 27	152	6"	6,0	10
060137	TX 30	50	2"	6,0	10
060125	TX 30	70	2 3/4"	6,0	10
060191	TX 30	89	3 1/2"	6,0	10
060201	TX 30	152	6"	6,0	10
060138	TX 40	50	2"	–	10
060130	TX 40	70	2 3/4"	–	10
060192	TX 40	89	3 1/2"	–	10
060202	TX 40	152	6"	–	10

Bits for TORQ-SET®-screws



Wera TORQ-SET® Mplus tools provide much longer service life, especially in maintenance applications.

The TORQ-SET® screw system is widespread in the aviation industry. The Wera TORQ-SET® Mplus profile provides a 70% higher torque transfer compared with the conventional TORQ-SET® profile.

This remarkable improvement has been achieved through greatly strengthened flanks of the profile, and a more precise fit of the tool in the TORQ-SET® screw is also guaranteed. The best choice to remove seized or damaged screws is the diamond coated design of the Wera TORQ-SET® Mplus profile.

The diamond particles bite securely into the head of the screw and therefore guarantee secure positioning. As a result, the damaging cam-out forces are greatly reduced.

871/1 DC TORQ-SET® Mplus bits

Application:
For TORQ-SET®-screws, reduces cam-out to more effectively removed seized fasteners

Drive: ¼"-hexagon, DIN 3126-C 6,3, ISO 1173
Tip: TORQ-SET® Mplus, similar ISO 7994, diamond coated

Code		mm	inch	mm	
066638	4	25	1 "	4,7	10
066640	6	25	1"	4,7	10
066642	8	25	1"	6,0	10
066644	10	25	1"	6,0	10
066646	¼"	32	1 ¼"	11,0	10

Diamond coating reduces the "cam out" forces, which require the user to exert high pressure on the screw-driving tool to overcome.

871/1 TORQ-SET® Mplus bits, 25 mm

Application:
For TORQ-SET®-screws
Drive: ¼"-hexagon, DIN 3126-C 6,3, ISO 1173

Tip: TORQ-SET® Mplus similar ISO 7994, professional quality

Code		mm	inch	mm	
066618	0	25	1"	4,7	10
066619	1	25	1"	4,7	10
066620	2	25	1"	4,7	10
066622	3	25	1"	4,7	10
066624	4	25	1"	4,7	10
066626	5	25	1"	4,7	10
066628	6	25	1"	4,7	10
066630	8	25	1"	6,0	10
066632	10	25	1"	6,0	10
066633	¼"	25	1"	–	10

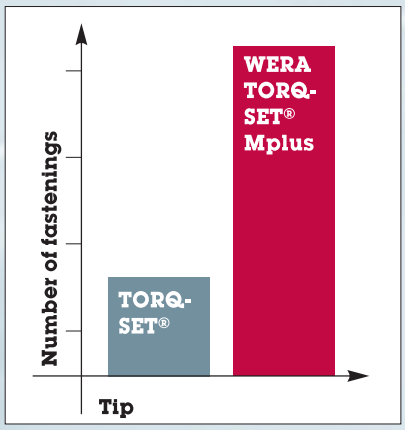
871/1 TORQ-SET® Mplus bits, 32 mm

Application:
For TORQ-SET®-screws
Drive: ¼"-hexagon, DIN 3126-C 6,3, ISO 1173

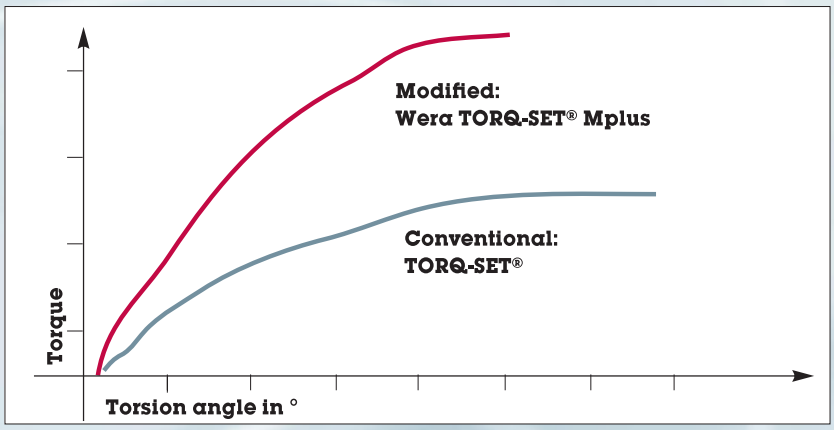
Tip: TORQ-SET® Mplus similar ISO 7994, professional quality

066634	¼"	32	1 ¼"	11,0	10
066635	5/16"	32	1 ¼"	11,0	10

TORQ-SET® = reg. Trademark of Phillips Screw Company.



A comparison of the tool life shows a noticeable performance improvement.



Force-Torsion curve of both profiles (average value).

871/2 TORQ-SET® Mplus bits

Application:
For TORQ-SET®-screws

Drive: 5/16"-hexagon, DIN 3126-C 8, ISO 1173
Tip: TORQ-SET® Mplus, similar ISO 7994, professional quality

Code		mm	inch		
066650	8	32	1 1/4"		5
066652	10	32	1 1/4"		5
066654	1/4"	32	1 1/4"		5
066656	5/16"	32	1 1/4"		5
066658	3/8"	32	1 1/4"		5

871/4 DC TORQ-SET® Mplus bits

Application:
For TORQ-SET®-screws; reduces cam-out to more effectively removed seized fasteners

Drive: 1/4"-hexagon, DIN 3126-E 6,3, ISO 1173
Tip: TORQ-SET® Mplus, similar ISO 7994, diamond coated

Code		mm	inch	∅	
324901	2	50	2"	4,7	10
066688	4	50	2"	4,7	10
066690	6	50	2"	4,7	10
066692	8	50	2"	6,0	10
066694	10	50	2"	6,0	10
066696	1/4"	50	2"	11,0	10
344515	5/16"	50	2"	11,0	10

871/4 TORQ-SET® Mplus bits

Application:
For TORQ-SET®-screws
Drive: 1/4"-hexagon, DIN 3126-E 6,3, ISO 1173

Tip: TORQ-SET® Mplus, similar ISO 7994, professional quality

Code		mm	inch	∅	
066660	2	50	2"	4,7	10
066683	2	89	3 1/2"	4,7	5
066662	3	50	2"	4,7	10
066684	3	89	3 1/2"	4,7	5
066664	4	50	2"	4,7	10
066685	4	89	3 1/2"	4,7	5
066666	5	50	2"	4,7	10
066668	6	50	2"	4,7	10
066676	6	70	2 3/4"	4,7	5
066686	6	89	3 1/2"	4,7	5
066670	8	50	2"	6,0	10
066678	8	70	2 3/4"	6,0	5
066687	8	89	3 1/2"	6,0	5
066672	10	50	2"	6,0	10
066680	10	70	2 3/4"	6,0	5
066682	10	89	3 1/2"	6,0	5
066674	1/4"	50	2"	11,0	10
221110	5/16"	50	2"	11,0	10

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www.wera.de, www.weratools.com

Bits for TORQ-SET®-screws

871/6 TORQ-SET® Mplus bits

Application:
For TORQ-SET® screws,
Drive: 5/16"-hexagon,
DIN 3126-E 8, ISO 1173

Tip: TORQ-SET® Mplus,
similar to ISO 7994,
professional quality

Code		mm	inch	mm	
066700	8	35	1 3/8"	6,0	5
066702	10	35	1 3/8"	6,0	5
066704	1/4"	35	1 3/8"	11,0	5

871/7 TORQ-SET® Mplus bits

Application:
For TORQ-SET® screws
Drive: 7/16"-hexagon,
DIN 3126-E 11,2, ISO 1173

Tip: TORQ-SET® Mplus,
similar ISO 7994,
professional quality

Code		mm	inch	mm	
066740	1/4"	35	1 3/8"	11,0	5
066742	5/16"	35	1 3/8"	11,0	5
066744	3/8"	35	1 3/8"	11,0	5
066746	7/16"	35	1 3/8"	11,0	5
221210	5/16"	89	3 1/2"	11,0	10
221211	3/8"	89	3 1/2"	11,0	10
221212	7/16"	89	3 1/2"	11,0	10

871/19 TORQ-SET® Mplus bits

Application: For TORQ-SET®
screws
Drive: 5/8"-hexagon,
similar DIN 3126-E16

Tip: TORQ-SET® Mplus,
similar ISO 7994,
professional quality

Code		mm	inch	
066750	1/2"	40	1 9/16"	5
066752	9/16"	40	1 9/16"	5
066754	5/8"	40	1 9/16"	5

Bits for TRI-WING®-screws

875/1 TRI-WING® bits, 25 mm

Application:
For TRI-WING®-screws
Drive: ¼"-hexagon,

DIN 3126-C 6,3, ISO 1173
Tip: TRI-WING®,
professional quality

Code		mm	inch	mm	
066758	0	25	1"	4,7	10
066760	1	25	1"	4,7	10
066762	2	25	1"	4,7	10
066764	3	25	1"	4,7	10
066766	4	25	1"	6,2	10
066768	5	25	1"	6,2	10

875/6 TRI-WING® bits

Application:
For TRI-WING® screws
Drive: $^{5}/_{16}$"-hexagon,

DIN 3126-E 8, ISO 1173
Tip: TRI-WING®,
professional quality

Code		mm	inch	mm	
066790	6	35	1 $^{3}/_{8}$"	11,0	5
066792	7	35	1 $^{3}/_{8}$"	11,0	5
066794	8	35	1 $^{3}/_{8}$"	12,5	5

875/1 TRI-WING® bits, 32 mm

Application:
For TRI-WING®-screws
Drive: ¼"-hexagon,

DIN 3126-C 6,3, ISO 1173
Tip: TRI-WING®,
professional quality

Code		mm	inch	mm	
066770	6	32	1 $^{1}/_{4}$"	11,0	10
066772	7	32	1 $^{1}/_{4}$"	11,0	10
066774	8	32	1 $^{1}/_{4}$"	12,5	10

875/4 TRI-WING® bits

Application:
For TRI-WING®-screws
Drive: ¼"-hexagon,

DIN 3126-E 6,3, ISO 1173
Tip: TRI-WING®,
professional quality

Code		mm	inch	
066785	1	89	3 $^{1}/_{2}$"	5
066786	2	89	3 $^{1}/_{2}$"	5
066787	3	89	3 $^{1}/_{2}$"	5
066780	4	50	2"	10
066788	4	89	3 $^{1}/_{2}$"	5
066782	5	50	2"	10
066784	6	50	2"	10

TIP

The TRI-WING® screw system.

The TRI-WING® screw system is mostly found at aviation engineering and provides increased safety due to its three-flank system. The asymmetrical arrangement of the profile flanks prevents the use of any incorrect tools and unauthorized dismantling is thereby prevented. Wera TRI-WING® tools are manufactured from high-quality tool steel, which in association with careful hardening technology guarantees a long service life. The use of Wera TRI-WING® tools means safe and cost-effective screwdriving.

Bits for Hi-Torque® screws

700 A HTS

Application: For Hi-Torque® screws

Drive: 1/4"-square socket, DIN 3121-G 6,3

Code		mm	inch	
040030	0	25	1"	5
040031	1	25	1"	5
040032	2	25	1"	5
040033	3	25	1"	5
040034	4	25	1"	5

700 B HTS

Application: For Hi-Torque® screws

Drive: 3/8"-square socket, DIN 3121-G 10

Code		mm	inch	
040040	3	25	1"	5
040041	4	25	1"	5
040042	5	32	1 1/4"	5
040043	6	32	1 1/4"	5

700 C HTS

Application: For Hi-Torque® screws

Drive: 1/2"-square socket, DIN 3121-G12,5

Code		mm	inch	
040045	7	42	1 5/8"	5
040046	8	42	1 5/8"	5
040047	9	42	1 5/8"	5
040048	10	42	1 5/8"	5
040049	12	60	2 3/8"	5

800/1 HTN

Application: For Hi-Torque® screws

Drive: 1/4"-hexagon, DIN 3126-C 6,3, ISO 1173

Code		mm	inch	
055950	1	32	1 1/4"	5
055951	2	32	1 1/4"	5
055952	3	32	1 1/4"	5
055953	4	32	1 1/4"	5

L-Keys

A wide range of quality tools.

The product range

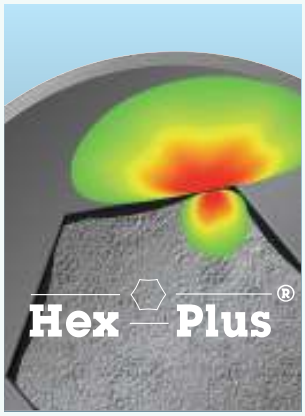
As a specialist for industrial screwdriving applications, Wera offers an extensive program

- ➔ for all hexagon socket screws from 1,5 mm to 27 mm,
- ➔ from $^1/_{16}$" to 10",
- ➔ for TORX® and TORX PLUS® sizes and for special screws like XZN or Ribe
- ➔ in many lengths, with or without ballpoint on long arm.

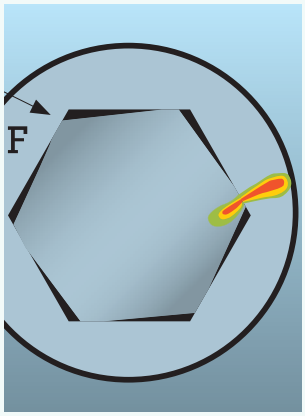
Higher Torque
Increased safety and higher torque transmission through the use of selected Wera-material and unique hardening technologies.

The long lever arm of L-keys often exposes the tip of the tool and the screw-head to very high torque loads.

However, Wera's extensive experience with narrow tolerance manufacturing techniques, careful material selection and refined hardening technologies delivers better working results and safety on the job.



Hex-Plus tools have an increased contact surface. Thus, Hex-Plus reduces the notching effect inside the socket.



Conventional hex keys have a small contact surface along a narrow line. The notching effect grinds the inside of the screw-head and destroys it.

The quality ranges
L-keys from Wera can be found in three quality levels.

The SPKL series offers the most advantages: manufactured from high quality round bits material, they feature an ergonomic rubber sleeve that provides a safe and comfortable grip.

The chrome plated version features an extensive range of L-keys for all hexagon socket screws. **BlackLaser® L-keys** guarantee precise fit and corrosion protection.

All Wera L-keys are manufactured from high quality material, carefully machined to the tightest manufacturing tolerances.

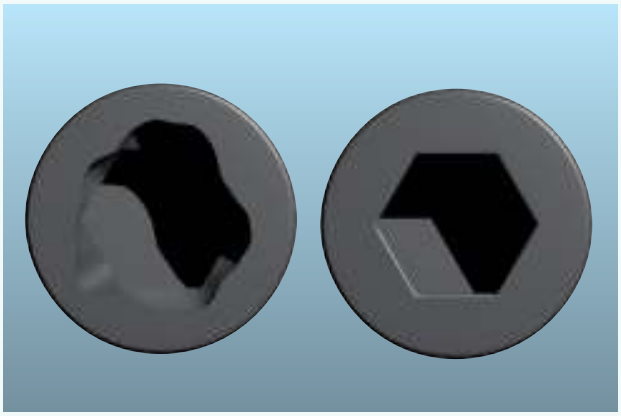
Better geometry
Hex-Plus reduces the damaging "notching" effect inside the socket.

Anyone who works with hexagon socket screws is familar with the problem of "rounded" screw recesses.

The reason for this problem is the contact of the sharp edges of a hex key inside of the screw profile.

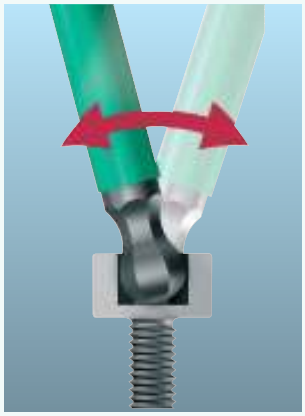
Conventional hex keys have a small contact surface along a narrow line. The notching effect grinds the inside of the screw-head and destroys it.

Hex-Plus tools have an increased contact surface. Thus, Hex-Plus reduces the notching effect inside the socket.



The notching effect grinds the inside of the screw-head and destroys it.

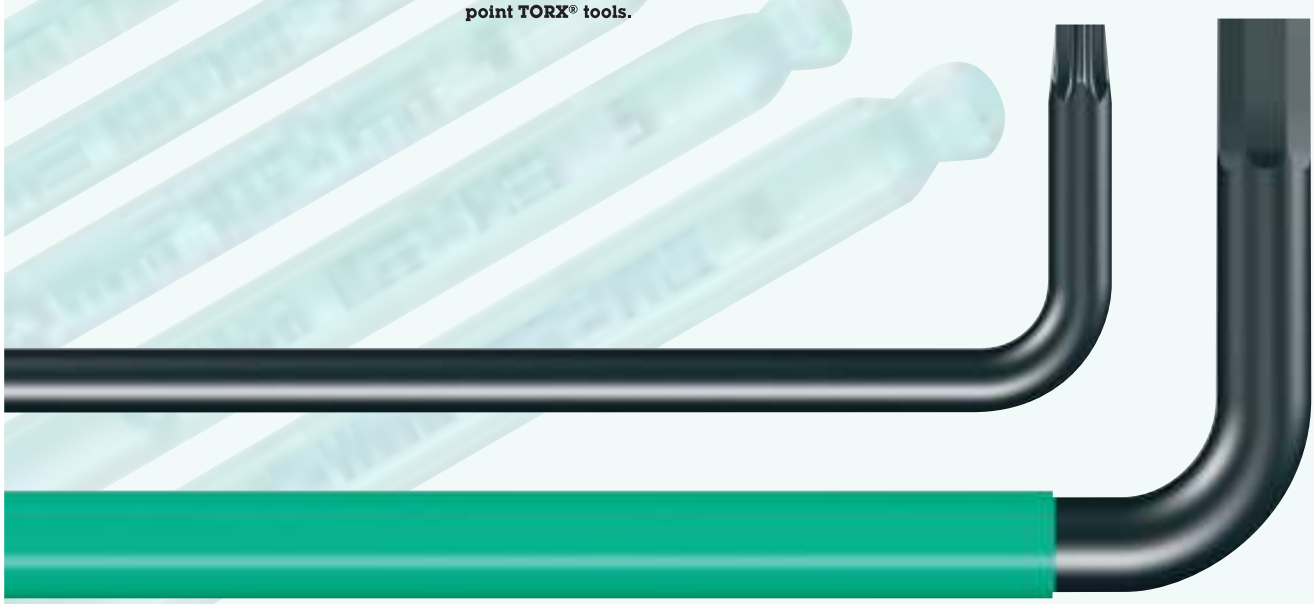
Hex Plus reduces the notching effect inside the socket.



This ball-shaped head provides great flexibility for "off angle" applications.

Solutions

Similar in function to the well-proven long arm ballpoint tools for hexagon socket screws, Wera was the first manufacturer world-wide to develop ballpoint TORX® tools.



Hex-Plus

Gives longer life to hexagon socket screws.

950 SPKL Long Arm Ballpoint Hex Key, Imperial

Application: For hexagon socket screws
Blade: BlackLaser®, durable plastic sleeve

Tip: Hex-Plus, similar to ISO 2936, Ballpoint hexagon on long arm

Code		L1	L2	L1	L2	
	inch	mm	mm	inch	inch	
022519	5/64"	101	16	4"	5/8"	10
022520	3/32"	112	19	4 7/16"	3/4"	10
022521	1/8"	123	21	4 7/8"	27/32"	10
022522	5/32"	137	24	5 3/8"	1"	10
022523	3/16"	154	27	6 1/16"	1 1/16"	10
022524	7/32"	172	31	6 3/4"	1 1/4"	10
022525	1/4"	185	34	7 1/4"	1 5/16"	10
022526	5/16"	195	37	7 11/16"	1 7/16"	10
022527	3/8"	224	42	9"	1 11/16"	10

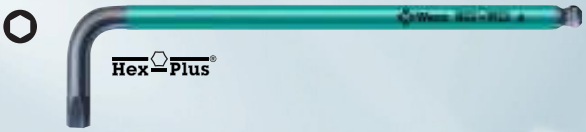
950 PKL Long Arm Ballpoint Hex Key, Metric

Application: For hexagon socket screws
Blade: Chrome plated

Tip: Hex-Plus, similar to ISO 2936, Ballpoint hexagon on long arm

Code		L1	L2	L1	L2	
	mm	mm	mm	inch	inch	
022050	*1,5	90	14	3 1/2"	9/16"	10
022052	2,0	100	16	4"	5/8"	10
022054	2,5	112	18	4 7/16"	23/32"	10
022056	3,0	126	20	5"	25/32"	10
022058	4,0	140	25	5 1/2"	1"	10
022060	5,0	160	28	6 5/16"	1 3/32"	10
022062	6,0	180	32	7 1/16"	1 1/4"	10
022063	7,0	190	34	7 1/2"	1 5/16"	10
022064	8,0	200	36	8"	1 7/16"	10
022066	10,0	219	40	8 11/16"	1 9/16"	10
022067	12,0	248	45	10"	1 3/4"	5

950 SPKL Long Arm Ballpoint Hex Key, Metric



Application: For hexagon socket screws
Blade: BlackLaser®, durable plastic sleeve

Tip: Hex-Plus, similar to ISO 2936, Ballpoint hexagon on long arm

Code		L1	L2	L1	L2	
	mm	mm	mm	inch	inch	
022500	1,5	90	14	3 1/2"	9/16"	10
022502	2,0	101	16	4"	5/8"	10
022504	2,5	112	19	4 7/16"	3/4"	10
022506	3,0	123	21	4 7/8"	27/32"	10
022508	4,0	137	24	5 3/8"	1"	10
022510	5,0	154	27	6 1/16"	1 1/16"	10
022512	6,0	172	31	6 3/4"	1 1/4"	10
022514	8,0	195	37	7 11/16"	1 7/16"	10
022516	10,0	224	42	9"	1 11/16"	10

950 PKL BM Long Arm Ballpoint Hex Key, Metric

Application: For hexagon socket screws
Blade: BlackLaser®

Tip: Hex-Plus, similar to ISO 2936, Ballpoint hexagon on long arm

Code		L1	L2	L1	L2	
	mm	mm	mm	inch	inch	
027101	*1,5	90	14	3 1/2"	9/16"	10
027102	2,0	100	16	4"	5/8"	10
027103	2,5	112	18	4 7/16"	23/32"	10
027104	3,0	126	20	5"	25/32"	10
027105	4,0	140	25	5 1/2"	1"	10
027106	5,0	160	28	6 5/16"	1 3/32"	10
027107	6,0	180	32	7 1/16"	1 1/4"	10
027110	7,0	190	34	7 1/2"	1 5/16"	10
027108	8,0	200	36	8"	1 7/16"	10
027109	10,0	219	40	8 11/16"	1 9/16"	10
027111	12,0	248	45	10"	1 3/4"	5

For the entire range of Wera Hex-Plus L-Keys and L-Key-sets please see main catalog.

967 PKL Long Arm Ballpoint TORX® Key

Application: For TORX® screws
Blade: BlackLaser®

Tip: TORX®, Ballpoint TORX® on long arm

Code		L1 mm	L2 mm	L1 inch	L2 inch	
024100	**TX 9	80	16	3 1/8"	5/8"	5
024105	**TX 10	86	17	3 3/8"	21/32"	5
024200	TX 15	90	18	3 1/2"	23/32"	5
024202	TX 20	96	19	3 3/4"	3/4"	5
024204	TX 25	104	21	4 1/8"	27/32"	5
024206	TX 27	112	22	4 7/16"	29/32"	5
024208	TX 30	122	24	4 13/16"	1"	5
024210	TX 40	132	27	5 3/16"	1 1/16"	5
024212	TX 45	143	29	5 3/8"	1 5/32"	5
024214	TX 50	156	32	6 1/8"	1 1/4"	5
024216	TX 55	171	34	6 3/4"	1 5/16"	5
024218	TX 60	190	38	7 1/2"	1 1/2"	5

967 SPKL BO Resis-TORX® Key

Application: For Resis-TORX® (Tamper-resistant TORX®) socket screws

Blade: BlackLaser®, durable plastic sleeve
Tip: TORX® BO, Ballpoint TORX® on long arm

Code		L1 mm	L2 mm	L1 inch	L2 inch	
024300	*TX 9	79	16	3 1/8"	5/8"	5
024302	**TX 10	85	17	3 3/8"	21/32"	5
024304	TX 15	90	18	3 1/2"	23/32"	5
024306	TX 20	96	19	3 3/4"	3/4"	5
024308	TX 25	104	21	4 1/8"	27/32"	5
024310	TX 27	112	22	4 7/16"	29/32"	5
024312	TX 30	122	24	4 13/16"	1"	5
024314	TX 40	132	27	5 3/16"	1 1/16"	5
024316	TX 45	143	29	5 5/8"	1 5/32"	5
024318	TX 50	156	32	6 1/8"	1 1/4"	5
024320	TX 55	171	34	6 3/4"	1 5/16"	5
024322	TX 60	190	38	7 1/2"	1 1/2"	5

967 TORX® Key

Application: For TORX® screws
Blade: BlackLaser®

Tip: TORX®, Ballpoint TORX® on long arm

Code		L1 mm	L2 mm	L1 inch	L2 inch	
024001	TX 6	42	16	1 5/8"	5/8"	5
024002	TX 7	48	16	1 7/8"	5/8"	5
024003	TX 8	48	16	1 7/8"	5/8"	5
024004	TX 9	48	16	1 7/8"	5/8"	5
024005	TX 10	51	17	2"	21/32"	5
024008	TX 15	54	18	2 1/8"	23/32"	5
024010	TX 20	57	19	2 1/4"	3/4"	5
024012	TX 25	60	20	2 3/8"	25/32"	5
024013	TX 27	64	21	2 1/2"	27/32"	5
024015	TX 30	70	24	2 3/4"	1"	5
024020	TX 40	76	26	3"	1 1/32"	5
024025	TX 45	83	29	3 1/4"	1 5/32"	5
024030	TX 50	95	32	3 3/4"	1 1/4"	5
024035	TX 55	108	35	4 1/4"	1 3/8"	5
024040	TX 60	120	38	4 3/4"	1 1/2"	5

* Regular hexagon profile
** Product without ball-end at the long arm
TORX® = reg. Trademark of CAMCAR, Div. of Textron, Rockford IL

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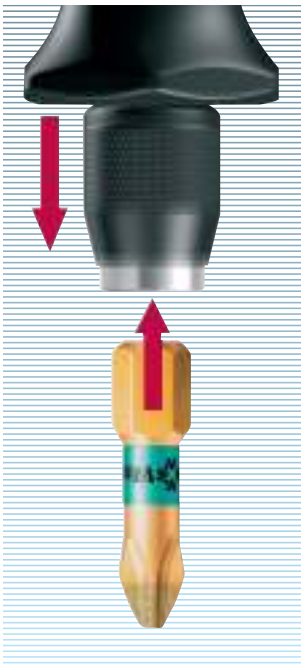
Bit Holders and Adaptors:

For a Secure Connection.

Universal holders are the connection between screwdriving machines and the bits. In addition they allow the use of cost-effective standard tools.

Wera offers a wide range for each drive style, in magnetic and non-magnetic design, with snap ring or the advantageous Wera quick-release chuck.

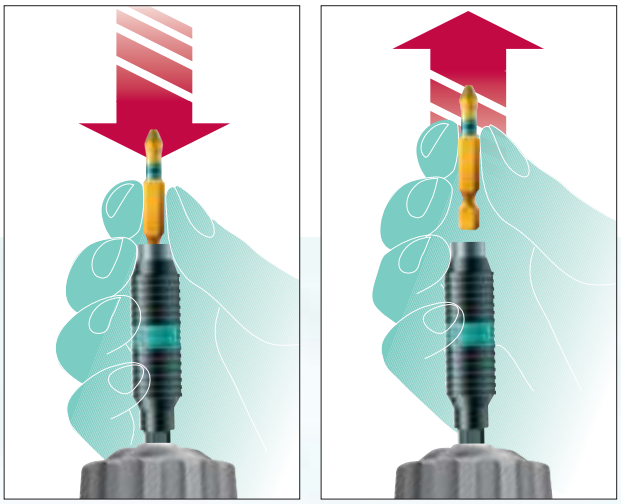
Universal bit holders with quick-release chuck
The Wera quick-release bit holder provides a secure, wobble-free connection between holder and bit, which can be quickly released again, when the bit needs changing.



Wera quick-release bit holders are constructed so that the outer sleeve is pushed forwards when the bit is changed.

Adaptors
The Wera adaptor range is a very extensive range. With these Wera products, the user is able to convert from $^1/_4$"-, $^3/_8$"- and $^1/_2$"-square drive, to hex drive and vice versa, in proven Wera quality so that the connection always remains secure.

With the new Rapidaptor®, Wera introduces a convincing further development of the proved quick-release holders, for the Rapidaptor® technology combines five decisive product advantages.



The Rapidaptor®:

Fast-installation and self-locking

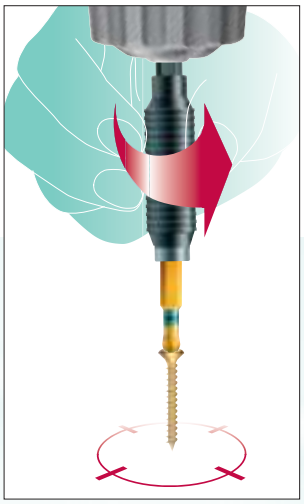
The bit can be inserted into the Rapidaptor® holder without adjusting the clamping sleeve. The self-locking system is activated as soon as the bit touches the screw's recess: A secure and wobble-free connection is guaranteed.

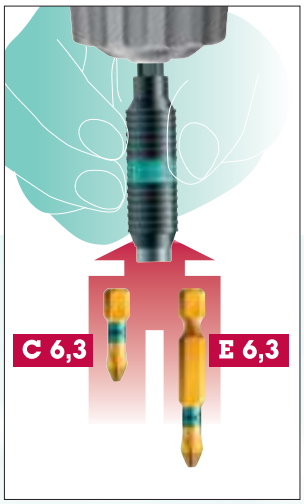
Rapid-in and self-lock – simply quicker

Fast-removal

By pushing the clamping sleeve forward the bit can be easily changed: The spring-loaded mechanism unlocks the bit and lifts it away from the magnet. As a result, tooling changes are easy and fast. Rapid-out makes the changing even of small bits (e. g. PH 0 or TX 5) problem-free, without the need for any extra tools.

Rapid-out – simply easier





The product range

Wera offers a wide range of bitholders for each drive style:

→ magnetic and non-magnetic

→ with snap ring, quick-release chuck or Rapidaptor® technology

The adaptor range is a very extensive range: the user is able to convert from

→ 1/4"-, to 3/8"- and 1/2"- square drive, to hex drive and vice versa

Free-spinning

The free-spinning outer sleeve gives the user an additional "grip-point" to help stabilize any powered screw-driving machines during the screw-driving process. Obviously, this makes it much easier to insert the tool into the screw's recess, and also helps to prevent the tool from slipping out of the screw head.

Rapid-spin – simply safer

Universal hold

The new Rapidaptor® adaptor can be used with 1/4" bits of the Wera Series 1 (DIN 3126-C 6,3) as well as 1/4" bits of the Wera Series 4 (E 6,3). In other words, whether the bits being used are insert or power types, the Rapidaptor® will hold them securely.

Universal – simply more flexible

One-hand use

Installation or removal of bits from the Rapidaptor® bit holder is quickly accomplished, using only one hand! This means faster, more ergonomic and more efficient work.

One-hand use – simply more economical

Bit Holders and Adaptors

897/4 R Rapidaptor® BiTorsion® Bit Holder C + E 6,3 with strong permanent magnet and quick-release chuck fits for bits Wera series 1 and 4

Code	Article No.	DIN 3126	inch		inch	DIN 3126	Length mm	Length inch	Length mm	Ø	
053923	897/4 R	D 6,3 F 6,3	1/4"		1/4"	E 6,3	75	3"	15,0	5	

888/4/1 K Rapidaptor® Universal Bit Holder C + E 6,3 with quick-release chuck fits for bits Wera series 1 and 4

Code	Article No.	DIN 3126	inch		inch	DIN 3126	Length mm	Length inch	Length mm	Ø	
052500	888/4/1 K	D 6,3 F 6,3	1/4"		1/4"	E 6,3	50	2"	15,0	5	

889/4/1 K Rapidaptor® Universal Bit Holder C + E 6,3 with strong permanent magnet and quick-release chuck fits for bits Wera series 1 and 4

Code	Article No.	DIN 3126	inch		mm/ inch	DIN 3126	Length mm	Length inch	Length mm	Ø	
052502	889/4/1 K	D 6,3 F 6,3	1/4"		1/4"	E 6,3	50	2"	15,0	5	

894 Universal Bit Holder with quick-release chuck

Code	Article No.	DIN 3126	inch		inch	DIN 3126	Length mm	Length inch	Length mm	Ø	
053520	894/4/1	D 6,3	1/4"		1/4"	E 6,3	75	3"	14,3	5	
053522	894/4/1 K	D 6,3	1/4"		1/4"	E 6,3	51	2"	14,3	5	

895 Universal Bit Holder with strong permanent magnet and quick-release chuck

Code	Article No.	DIN 3126	inch		inch		Length mm	Length inch	Length mm	Ø	
053870	895/4/1	D 6,3	1/4"			1/4"	E 6,3	77	3"	14,3	5
053872	895/4/1 K	D 6,3	1/4"			1/4"	E 6,3	52	2"	14,3	5

890 Universal Bit Holder with retaining ring

Code	Article No.	DIN 3126	inch		inch	DIN 3126	Length mm	Length inch	Length mm	Ø	
052575	890/4/1	D 6,3	1/4"		1/4"	E 6,3	57	2 1/4"	11,1	5	

892 Universal Bit Holder with retaining ring

Code	Article No.	DIN 3126	inch		inch	DIN 3126	Length mm	Length inch	Length mm	Ø	
053710	892/4/1	D 6,3	1/4"		1/4"	E 6,3	45	1 3/4"	10,8	5	

899 Universal Bit Holder Sleeve made from stainless steel, retaining ring and strong permanent magnet

Code	Article No.	DIN 3126	inch		inch	DIN 3126	Length mm	Length inch	Length mm	Ø	
053457	899/4/1K	D 6,3	1/4"		1/4"	E 6,3	50	2"	10,5	5	
053455	899/4/1	D 6,3	1/4"		1/4"	E 6,3	75	3"	10,5	5	
053459	899/4/1	D 6,3	1/4"		1/4"	E 6,3	100	4"	10,5	5	
053458	899/4/1	D 6,3	1/4"		1/4"	E 6,3	152	6"	10,5	5	

870 Adaptors

Application: For impact sockets and power use

Input: Hexagon, DIN 3126
Output: Square drive , DIN 3120

Code	Article No.	DIN 3120 DIN 3121	inch		DIN 3126 inch		Length mm	Length inch	
311517	870/4	A 6,3	1/4"		1/4"	E 6,3	50	2"	10
050205	870/4	E 6,3	1/4"		1/4"	E 6,3	50	2"	5
050210		E 6,3	1/4"		1/4"	E 6,3	100	4"	5
050215		E 10	3/8"		1/4"	E 6,3	50	2"	5
050220		E 10	3/8"		1/4"	E 6,3	100	4"	5
050405	870/6	E 6,3	1/4"		5/16"	E 8	75	3"	5
050410		E 10	3/8"		5/16"	E 8	75	3"	5
050415		E 12,5	1/2"		5/16"	E 8	75	3"	5
050505	870/7	E 10	3/8"		7/16"	E 11,2	75	3"	5
050510		E 12,5	1/2"		7/16"	E 11,2	75	3"	5

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Adaptors

784 A 1/4"-Adaptors
With quick-release chuck

■ 1/4"

Application: For insert bits

Input: Female square socket DIN 3121-G 6,3
Output: Female hexagon, DIN 3126-D 6,3

Code	Article No.	inch	mm	inch	
042750	784 A/1	1/4"	30	1 3/16"	5

784 B 3/8"-Adaptors
With quick-release chuck

■ 3/8"

Application: For insert bits

Input: Female square socket DIN 3121-G 10
Output: Female hexagon, DIN 3126-D 6,3/D 8

Code	Article No.	inch	mm	inch	
042755	784 B/1	1/4"	43	1 5/8"	5
042765	784 B/2	5/16"	50	2"	5

784 C 1/2"-Adaptors
With quick-release chuck

■ 1/2"

Application: For insert bits

Input: Female square socket DIN 3121-G 12,5
Output: Female hexagon, DIN 3126-D 6,3/D 8

Code	Article No.	inch	mm	inch	
042760	784 C/1	1/4"	50	2"	5
042768	784 C/2	5/16"	50	2"	5

780 A 1/4"-Adaptors

■ 1/4"

Application: For insert bits

Input: 1/4"-square socket DIN 3121-G 6,3
Output: Female hexagon DIN 3126-D 6,3/D 8

Code	Article No.	inch	mm	inch	
042605	780 A/1	1/4"	25	1"	5
042620	780 A/1L	1/4"	60	2 3/8"	5
042615	780 A/2	5/16"	25	1"	5

780 B 3/8"-Adaptors

■ 3/8"

Application: For insert bits

Input: 3/8"-square socket
DIN 3121-G 10
Output: Female hexagon
DIN 3126-D 6,3/D 8/D11,2

Code	Article No.	inch	mm	inch	
042655	780 B/1	1/4"	30	1 3/16"	5
344511*	780 B/1-S	1/4"	30	1 3/16"	5
042657**	780 B/1 L	1/4"	65	2 9/16"	5
042665	780 B/2	5/16"	30	1 3/16"	5
344512*	780 B/2-S	5/16"	30	1 3/16"	5
042667**	780 B/3	7/16"	33	1 5/16"	5

780 C 1/2"-Adaptors

■ 1/2"

Application: For insert bits

Input: 1/2"- square socket
DIN 3121-G 12,5
Output: Female hexagon
DIN 3126-D 6,3/D 8/D11,2/D 16

Code	Article No.	inch	mm	inch	
042705	780 C/1	1/4"	35	1 3/8"	5
344513*	780 C/1-S	1/4"	35	1 3/8"	5
042715	780 C/2	5/16"	35	1 3/8"	5
344514*	780 C/2-S	5/16"	35	1 3/8"	5
042717**	780 C/3	7/16"	38	1 1/2"	5
042718**	780 C/4	5/8"	38	1 1/2"	5

*Larger diameter retaining rings used for heavy-duty applications.
**With set screw for heavy duty applications.

Torque Tools

In control with The Best Tools For The Job.

The best results when fastening can only be achieved by controlling the tightening of the screw.

You will find the right tool for your fastening requirements on the following pages.

The precision of our torque tools ensures safe and accurate work. Damaged screw heads and costly drilling and re-tapping are therefore avoided.

High precision!
The uncertainty of this tool is ±6 percent.
This complies with the requirements of EN ISO 6789.

Pre-setting of torque
By turning the set up ring the desired torque can be quickly and easily set. With each 180° turn the torque value will be changed and the set up ring will engage tactile.

Clockwise direction increases and anti-clockwise decreases the torque value. When the pre-set torque value is reached, the adjustable torque screwdriver releases mechanically and provides both audible and tactile feedback to the operator by "slipping over". Further tightening of the screw is impossible.

Easy-to-read scale
The pre-set torque value can easily be read on the lasered scale.

Unlimited loosening value
In order to guarantee the effective loosening of screws the loosening strength is not limited.

For the Rapidaptor® quick-release chuck please see page 28-29.

Adjustable torque wrench

The design of the Wera 7000 series – the classic torque wrench.

Users value the robust design, the simple setting mechanism and the rapid switch-over of the ratchet head.

The product range

Wera offers a wide range of torque tools:

- ➔ adjustable torque screwdrivers
- ➔ torque wrenches with reversible ratchet
- ➔ torque wrenches with push-through ratchet
- ➔ torque wrenches with mushroom head ratchet

Simple change of direction through switch-over of the ratchet head

The Kraftform®-handle
The Kraftform® handle 1 shaped by the hand, provides a tremendous grip, with the unique multi-component (soft 2 and hard 3 "zones") composition providing optimal contact zones for the muscles of the hand.

As a result, the Kraftform® handle provides better turning power, with less effort.

For torque values greater than 3 Nm or 25 in. lbs. the Kraftform® pistol handle 4 is the right choice. It provides a safe and comfortable fit in the hand and high power transfer.

Of course, the design of the 7000 series offers these advantages, together with an efficient handle, a reinforced casing design and an expanded range of measurement scale.

The scale which can be easily read facilitates the correct setting of the default value

7400 Series

Kraftform® adjustable torque screwdrivers

Series 7400 Kraftform® adjustable torque screwdrivers with Rapidaptor® quick-release chuck

Construction: With quick-release bitholder Rapidaptor® for insert and power bits
Accuracy: ±6 % (EN ISO 6789)

Application: For 1/4" - bits DIN 3126-C 6,3 and E 6,3
Handle: Kraftform®, with anti-roll protection, multi-component

Code	Article No.	Drive	Range	Graduation	Length mm	Length inch	
074700	7440	1/4"	0.3-1.2 Nm	0.05 Nm	155	6"	1
074701	7441	1/4"	1.2-3.0 Nm	0.10 Nm	155	6"	1
074710	7445	1/4"	2.5-11.5 in. lbs.	0.5 in. lbs.	155	6"	1 .
074711	7446	1/4"	11.0-29.0 in. lbs.	1.0 in. lbs.	155	6"	1

Series 7400 Kraftform® pistol handle, adjustable torque screwdrivers with Rapidaptor® quick-release chuck

Construction: With quick-release bitholder Rapidaptor® for insert and power bits
Accuracy: ±6 % (EN ISO 6789)
Application: For 1/4" - bits DIN 3126-C 6,3 and E 6,3
Handle: Kraftform® pistol handle, multi-component

Code	Article No.	Drive	Range	Graduation	A mm	A inch	B	
074702	7442	1/4"	3.0-6.0 Nm	0.25 Nm	150	6"	100	4"	1
074712	7447	1/4"	25.0-55.0 in. lbs.	2.5 in. lbs.	150	6"	100	4"	1

7000 Series

Adjustable torque wrenches

Torque Wrenches 7000 Series

Construction: With mushroom head ratchet; accuracy of ± 4% of reading

Application: For hexagon sockets, can be used in the right and left hand direction

			Main Scale		Secondary Scale			
Code	Article No.	Drive	Range	Graduation	Range	Graduation	Length	
075410	7002 C	1/2"	40 - 200 Nm	2 Nm	30 -150 lbf.ft	2 lbf.ft	440	1

Torque Wrenches 7000 Series

Construction: With reversible ratchet; accuracy of ± 4% reading

Application: For hexagon sockets; to be used in right hand direction

			Main Scale		Secondary Scale			
Code	Article No.	Drive	Range	Graduation	Range	Graduation	Length	
075394	7000 B	3/8"	8 - 60 Nm	1 Nm	5 - 45 lbf.ft.	1 lbf.ft.	305 mm	1
075400	7000 C	1/2"	8 - 60 Nm	1 Nm	5 - 45 lbf.ft.	1 lbf.ft.	305 mm	1
075405	7001 B	3/8"	20 - 100 Nm	1 Nm	15 - 80 lbf.ft.	1 lbf.ft.	340 mm	1
075401	7001 C	1/2"	20 - 100 Nm	1 Nm	15 - 80 lbf.ft.	1 lbf.ft.	340 mm	1
075402	7003 C	1/2"	40 - 200 Nm	2 Nm	30 -150 lbf.ft.	2 lbf.ft.	440 mm	1
075415	7005 C*	1/2"	60 - 300 Nm	5 Nm	45 -220 lbf.ft.	5 lbf.ft.	570 mm	1
075403	7006 E	3/4"	80 - 400 Nm	10 Nm	60 -295 lbf.ft.	10 lbf.ft.	685 mm	1

* With push-through ratchet. For both right and left direction.

Torque Wrenches 7000 Series

Construction: With push-through ratchet; accuracy of ± 4% of reading

Application: For hexagon sockets; can be used in right and left hand direction

			Main Scale		Secondary Scale			
Code	Article No.	Drive	Range	Graduation	Range	Graduation	Length	
075420	7007 E	3/4"	110 - 550 Nm	5 Nm	80 - 400 lbf.ft.	5 lbf.ft.	845 mm	1
075425	7008 E	3/4"	300 - 1000 Nm	10 Nm	220 - 750 lbf.ft.	10 lbf.ft.	1750 mm	1
075430	7009 F	1"	500 - 1500 Nm	10 Nm	370 -1100 lbf.ft.	10 lbf.ft.	2070 mm	1

Order your free Wera main catalog: www.wera.de, www.weratools.com

Kraftform Kompakt®

Compact tools for both manual and power screwdriving.

The product range

The Kraftform Kompakt® series offers tools:

- → for both manual and machine operation
- → engineered to the highest quality for professional use
- → packaged in unique, space-saving format.

Mobility and flexibility are the trends in our modern industrial world.

Over 90 % of service technicians need tools for both manual and power screwdriving (rechargeable battery, electro or pneumatic screwdrivers) in their work.

In both service and assembly, more and more work must be carried out directly on the workpiece. This will also determine whether hand or power tools can be used for the job.

Because of this, the users' demands with regard to the design of the tools they choose have changed.

With the Kraftform Kompakt® series, the user is fully equipped for both kinds of screwdriving with only one set of tools.

When the unique "bayonet" blade is lowered into the handle, fast and easy fastening is possible, even in the tightest spots!

By pushing the green collar, the bayonet blade can be extended from the handle, and the compact tool becomes a full-sized screwdriver.

If the collar is pushed again the bayonet blade can be taken completely out of the handle, and can be used as a power-tool bit adaptor. To easily replace the bayonet blade back into the handle, simply push down on the collar again.

The unique "bayonet" blade

Kraftform Kompakt® 25, 27
This tool has it all!
Integrated in handle: bit storage compartment for 6 bits. Spring-operated opening mechanism for bit storage compartment. The bayonet blade can be taken out of the handle and can be used as a power-tool bit adaptor. The Rapidaptor® quick-release chuck offers the user 5 significant advantages: Rapid-in, Rapid-out, Rapid-spin, Chuck-all, Single-hand (see pages 28-29).

Kraftform Kompakt® 61
Pouch with bitholding screwdriver and 89 mm long bits.

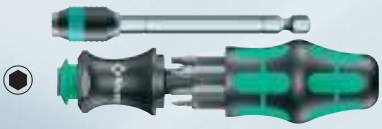
Kraftform Kompakt® 50
With bayonet blade.
Kraftform Kompakt® 50 is the right tool for all users who place the greatest emphasis on versatility.

Kraftform Kompakt® 71
A big-diameter Kraftform® handle, a power tool adaptor with quick-release chuck for machine use and 30 bits provide the user with all the tools he needs.

Kraftform Kompakt®

Compact tools for both manual and power screwdriving.

Kraftform Kompakt® 25
with pouch



Application: For 1/4"-hexagon insert bits, DIN 3126-C + E 6,3
Drive: 1/4"-hexagon with Rapidaptor® quick-release bitholder "bayonet"
Handle: Kraftform® with anti-roll protection, multi-component, integrated storage compartment

Content (bits):

Bits:
1 each **851/1 Z** PH 1; PH 2; PH 3
1 each **800/1 Z** 0,6 x 4,5; 1,0 x 5,5; 1,2 x 6,5

1 pouch for belt

Code	DIN 3126		A	B		
	inch		mm		inch	
051024	1/4"	D 6,3 F 6,3	100	118	4"	1

Kraftform Kompakt® 27
with pouch

Application: For 1/4"-hexagon insert bits, DIN 3126-C + E 6,3
Drive: 1/4"-hexagon with Rapidaptor® quick-release bitholder "bayonet"
Handle: Kraftform® with anti-roll protection, multi-component, integrated storage compartment

Content (bits):

Bits:
1 each **851/1 BDC** PH 1; PH 2; PH 3
1 each **800/1 BDC** 0,8 x 5,5; 1,0 x 5,5; 1,2 x 6,5

1 pouch for belt

Code	DIN 3126		A	B		
	inch		mm		inch	
051026	1/4"	D 6,3 F 6,3	100	118	4"	1

Kraftform Kompakt® 50 Imperial

14 pieces set

Code	Content:	
135951	1 bayonet bit holder 817 R Kraftform® with quick-release chuck,	1
	Bits:	
1 bit each	**867/1 Z BO**	TX 10; TX 15; TX 20; TX 25; TX 30; TX 40
1 bit each	**868/1 Z**	# 1; #2
1 bit each	**851/1 Z**	PH 1/25; PH 2/25
1 bit each	**800/1 Z**	0,6 x 4,5; 1,0 x 5,5

Kraftform Kompakt® 71 Security

32 pieces set

Code	Content:	
057111	1 Kraftform® bitholding screwdriver 816 R	1
	1 Universal bit holder 889/4/1 K Rapidaptor®	
	Bits:	
1 bit each	**840/1 Z BO**	SW 2; SW 2,5; SW 3; SW 4; SW 5; SW 6
1 bit each	**857/1 Z**	# 4; # 6; # 8; # 10
1 bit each	**867/1 Z BO**	TX 7; TX 8; TX 9; TX 10; TX 15; TX 20; TX 25; TX 30; TX 40
1 bit each	**871/1 Z**	# 6; # 8; # 10; # 1/4"
1 bit each	**875/1 Z**	# 1; # 2; # 3
1 bit each	**868/1 Z**	# 0; # 1; # 2; # 3

Kraftform Kompakt® 61 pouch with 89 mm long bits

17 pieces set

Code	Content:	
059296	1 Kraftform® bitholding screwdriver 816 R with quick-release chuck Rapidaptor®	1
	Bits (89 mm long):	
1 bit each	**867/4 Z BO**	TX 10; TX 15; TX 20; TX 25; TX 30
1 bit each	**871/4 Z**	#6; #8; #10
1 bit each	**875/4 Z**	#1; #2; #3; #4
1 bit each	**857/4 Z**	#4; #6; #8; #10

Kraftform Kompakt®

Compact tools for both manual and power screwdriving.

98/4/1 Kraftform® Handy-Ratchet

Drive: 1/4"-hexagon DIN 3126-D 6,3 + F 6,3 with quick-release chuck

Handle: Kraftform® with elastomer soft zones, needle bearing supported free turning ratchet, integrated switch for forward or reverse operation.

Code		A	B	A	B	
		mm	mm	inch	inch	
003263	1/4"	140	100	5 9/16"	4"	1

816 R Bitholding Screwdriver

with quick-release chuck Rapidaptor® magnetic

Application: For 1/4"-hexagon insert bits, DIN 3126-C + E 6,3
Drive: 1/4"-hexagon with Rapidaptor® quick-release bitholder

Handle: Kraftform® with anti-roll protection, three components

Code		DIN		
	inch	3126	mm	
051462	1/4"	D 6,3	117	5
		F 6,3		

817 R Bitholding Screwdriver

with Bayonet Holder

Application: For 1/4"-hexagon insert bits, DIN 3126-C + E 6,3
Drive: 1/4"-hexagon with Rapidaptor® quick-release bitholder "bayonet"

Handle: Kraftform® with anti-roll protection, three components

Code		DIN		A	
	inch	3126	mm	inch	
051482	1/4"	D 6,3	102	4 3/4"	2
		F 6,3			

810/1 Bitholding Screwdriver with retaining ring

Application: For 1/4"-hexagon insert bits, DIN 3126-C 6,3

Handle: Kraftform® with anti-roll protection, three components

Blade: Hexagon, mat nickel

Code		DIN	A	B	∅	A		
	inch	3126	mm		mm	inch		
051005	1/4"	D 6,3	120	112	10,5	4 3/4"	2	

810/2 Bitholding Screwdriver with retaining ring

Application: For 5/16"-hexagon insert bits, DIN 3126-C 8

Handle: Kraftform® with anti-roll protection, three components

Blade: Hexagon, mat nickel

Code		DIN	A	B	∅	A		
	inch	3126	mm		mm	inch		
051050	5/16"	D 8	120	112	14	4 3/4"	2	

Trademarks

ACR	Phillips Screw Company
Phillips Recess	Phillips Screw Company
Pozidriv	European Ind. Serv. Ltd.
SDS-Plus	Robert Bosch GmbH
TORX	Camcar Textron Inc.
TORX PLUS	Camcar Textron Inc.
TORQ-SET	Phillips Screw Company
TRI WING	Phillips Screw Company
XZN	Bauer + Schaurte
Hex-Plus	Wera Werk
Kraftform	Wera Werk
BiTorsion	Wera Werk
Kraftform Kompakt	Wera Werk
Rapidaptor	Wera Werk

Impressum

Subject to change without notice.

Fax

Screwdriver Bit Quotation Worksheet

please send to 0049 (0)202-4045111

Name _____ Title _____

Company _____

Address _____

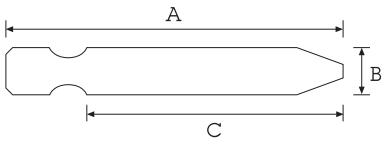
Phone _____ Fax _____

Style	Point Size
☐ Phillips	
☐ Phillips ACR	
☐ Slotted	
☐ TORX®	
☐ TORX PLUS®	
☐ Pozidriv	

Style	Point Size
☐ Freason/Reed Prince	
☐ Socket Head	
☐ Socket/Robertson	
☐ TORQ-SET®	
☐ Triple Square	
☐ Tri-Wing	
☐ Other	

Drive Type	Size
☐ Hex Insert	
☐ Hex Power	
☐ Treaded	
☐ Female Square	
☐ Other	

Dimensions

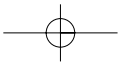


A. Overall Length	B. Body Diameter	C. Turned Length

Quantity _____

Applied or Driving Torque _____

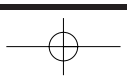
Additional Specifications _____



Wera Hotline

North America
01-800-267-5541
www.weratools.com

Europe
0049-(0)202-40 45 322
www.wera.de



Wera Worldwide

For further enquiries please contact us:

Wera Werk
Hermann Werner
GmbH & Co. KG
Korzerter Straße 21-25
42349 Wuppertal
Germany
Phone: +49(0)202-40 45-322
Fax: +49(0)202-40 36 34
E-Mail: info@wera.de
Web: www.wera.de

Wera Iberia
C./Mogoda, 1-5 (Edificio Nodus)
Pno. Ind. Can Salvatella
08210 Barberà del
Vallès/Barcelona
España
Phone: +34/93/7 29 72 40
Fax: +34/93/7 29 72 41
E-Mail: juan.pires@weraspain.com

Wera Tools Inc.
7-710 South Service Road
Stoney Creek, Ontario
Canada L8E 5S7
Phone: +1/(0)905/643-66 00
Fax: +1/(0)905/643-66 04
E-Mail: info@weratools.com

Wera Tools (UK) Ltd.
Unit 2, McGregor's Way
Turnoaks Business Park
Chesterfield S40 2WB
Great Britain
Phone: +44/(0)1246/27 77 56
Fax: +44/(0)1246/27 33 35
E-Mail: weratoolsukltd@btinternet.com

Wera bureau en France
10, rue Hohenbourg
F-67530 Ottrott
France
Phone: +33/(0)3/88 95 81 63
Fax: +33/(0)3/88 95 81 63
E-Mail:
bernard.bloquet@wanadoo.fr

Wera Asia
360 Orchard Road
#09-05 International Building
Singapore 238869
Rep. Singapore
Phone: +65/6/7361565
Fax: +65/6/736 2938
E-Mail: weraasia@singnet.com.sg

A-5021 Salzburg
Alpen-MayKestag GmbH
Phone: +43/(0)662/44 90 1-0
E-Mail: verkauf@alpenmaykestag.com

B-1050 Bruxelles
BELTRACY S.A.
Phone: +32/(0)2/54 36 89 0
E-Mail: info@beltracy.be

CH-1026 Denges
Metalsa
Phone:+41/(0)21/8045050
E-Mail: info@metalsa.ch

CZ-18082 Praha 8
ABQ Agency s.r.o.
Phone: +420/284 84 04 40
E-Mail: ab.efekt@comp.cz

DK-2730 Herlev
HJS Værktøjsagentur A/S
Phone: +45/44 84 40 44
E-Mail: hjs@hjs.dk

EST-11415 Tallinn
AS MECRO
Phone: +372/(0)6/201111
E-Mail: mecro@mecro.ee

FIN-01511 Vantaa
Wihuri Oy Autola
Phone: +358/(0)9/415815
E-Mail: kurt.backman@autola.wihuri.fi

GR-16561 Glyfada
Costas J. Kessissoglou
Phone: 0030/210/96 37 52 0
E-Mail: kessi@hol.gr

H-1101 Budapest
FAIRTOOL KFT
Phone: 0036/1/26 08 02 5
E-Mail: fairtool@fairtool.hu

ISRAEL Tel Aviv 61573
Tenegal Agencies
Phone: +972/(0)3/5617411
E-Mail: menahem@tenegal.com

I-21040 Venegono Inf. (VA)
ETR-Eurotrade
Phone: +39/0331/86 49 60
E-Mail: info@etreurotrade.it

NL-6660 AC Elst
Biegel & Bollentin BV
Phone: +31/481/351295
E-Mail: postmaster@biegel.nl

N-0787 Oslo
Morgenstierne Verktøy AS
Phone: +47/22/49 28 00
E-Mail: tools@morgenstierne.no

PL-61-315 Poznań
Biuro Handlowe
Arkadiusz Baraniok
Phone: +48/(0)61/8798298
E-Mail: info@baraniok.com.pl

RUS-119454 Moskau
German Tools GmbH
Phone: +7 095 737 3389
E-Mail: info@german-tools.ru

S-163 53 Spånga
Hansson & Frife AB
Phone: +46/(0)8/7602510
E-Mail: hansson.frife@esma.se

Wera Werk
Hermann Werner GmbH & Co. KG
Korzerter Straße 21-25
42349 Wuppertal
Germany
Phone: +49(0)2 02-40 45-322
Fax: +49(0)2 02-40 36 34
E-Mail: info@wera.de
Internet: www.wera.de
www.weratools.com

www.wera.de
www.weratools.com

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Wera Werk
Hermann Werner GmbH & Co. KG
Korzerter Straße 21-25
42349 Wuppertal
Germany
Phone: +49(0)2 02-40 45-322
Fax: +49(0)2 02-40 36 34
E-Mail: info@wera.de
Internet: www.wera.de
www.weratools.com

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