

Tooling Catalog



Boeing Distribution Services



The aerospace industry is one of the most technically demanding industries in the world. Materials that are tough to machine and specifications that are extremely precise make a highly capable tool-making partner essential to getting aerospace components built the way they have to be.

Comprehensive tool solutions for the manufacture of such aerospace components as airframes, landing gear, avionics and engines are just a few of the strategic objectives of Boeing Distribution Services. This not only involves producing carefully conceived standard products and special-purpose tools, it also requires machining capability.

STRATEGIC PARTNERSHIPS

Through close partnerships with industry-leading tool manufacturers, Boeing Distribution Services offers our customers direct access to thousands of tools for use in connection with aerospace components made of high tensile strength steels, heat-resistant alloys, compound and compound-layer materials.

As a consequence of the broad range of requirements in the processing of aerospace components, Boeing Distribution Services partners closely with every customer to develop optimized tool solutions for every single application. This means an increase in productivity and reductions in the costs of the manufacturing process.

BENEFITS TO YOU

- Reduction in downtime
- Optimized cutting process
- Optimized final results in terms of surface quality, tolerances and quality
- Tailored tool solutions

No matter what your tooling requirements may be, Boeing Distribution Services will help you find the right tool for the job.

After all, we are all united in a great mission: to help build aircraft and keep them soaring in the skies. Together, we're part of something bigger.

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TOOL CONTROL SYSTEM - BUILT-IN SAFETY

The overriding principle affecting all work in the aerospace industry is "safety first." Our Tool Control System was developed to ensure that no tools are left on board after maintenance and repair work. Today, the system is appreciated by employees in the automotive industry and other fields of industry for its convincing benefits. The system guarantees a high level of organization and security, protects high-grade, expensive tools from damage and is ideal wherever large numbers of tools are prone to "disappear" - in other words, a real value-for-money investment that soon pays for itself.



TOOL BOXES

CODE	NO	COLOR	KG
81097301	13217LGE	Luminous Yellow	15
81091302	13217 LOR	Luminous Orange	15
81091304	13217 LR	Luminous Red	15
81091306	13217 TS	Jet Black	15



TOOL TROLLEYS

TOOL TROLLEYS - 13217

- Extremely sturdy, tool trolley resilient to loads and made of polypropylene for professional use
- 5 easily removed lockable drawers with transparent covers, with end stops for the extendible rails, 3 different drawer heights
- Drawers can be inserted in any order, with one top cover and one front cover, both folding
- Top cover is fitted with napped foam to hold tools firmly in place
- One removable tray with 2 handles and 2 transparent drawer covers under the top cover
- Drawers can be used as separate tool boxes using the transparent cover
- Tool case and drawers can be individually marked
- 2 smooth-running twin castors on the telescopic-handle side
- Adaptable for vertical transport using 4 castors, R 13217 Set of castors (sold separately)
- Extendible telescopic handle facilitates transport
- 2 carrying handles at the sides
- Resistant to Skydrol, acetone, petrol and hydraulic fluids
- 3 locking positions with padlock
- Carrying capacity 60 k



Tool Trolley TTS Premium 91P/6R



96 83 01 00



96 83 01 01



96 83 01 02



96 83 01 03



96 83 01 04



96 83 01 05



Tool Box 13216/4

Code: 81091004

13214 WT/LR - LINE MAINTENANCE SET IN TOOL TROLLEY # 13217

Code: 98814900

Weight: 26.5kg

Metric for helicopter



No 13217-1 LR



	No 13		Sizes: 5.5; 6; 7; 8; 9; 10; 12; 13; 14; 15; 17; 19; 20; 21; 22; 24; 27; 30 mm		No 443	○○	5/16"; 3/8"
	No 16		Sizes 3.2; 3.5; 4; 4.5; 5 mm		No 10767/9		Sizes: 1.5; 2; 2.5; 3; 4; 5; 6; 8; 10 mm
	No 25		Sizes: 7 x 8; 9 x 10; 12 x 13; 17 x 19 mm		No 104		120 x 2; 120 x 3; 120 x 4; 120 x 5 mm
	No 40	○	1/4" Sizes: 4; 4.5 mm		No 109		Sizes: 2; 5
	No 40D	○	1/4" Sizes 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm		No 4622		Size 1 (1.0 x 5.5 x 100 mm)
	No 40L	○	1/4" Sizes: 4.5 mm		No 4632		Sizes: 1; 2; 3
	No 40DL	○	1/4" Sizes: 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm		No 11095/20		0.05-1 mm
	No 402	○	1/4" Sizes: 6; 7; 8; 9; 10 mm		No 12921M	∅	57 mm
	No 405QR/2	○	1/4"; 54 mm		No 12922E	∅	6 mm
	No 405QR/6	○	1/4"; 150 mm		No 12053		
	No 407QR	○	1/4"; 38 mm		No 12320		
	No 409M	○	3/8"; 1/4"		No 4008-1	○	
	No 415QR N	○	1/4"		No 65 16 5 200		
	No 415SGB	○	1/4"		No 65 32 5 170		
	No 412	○○	1/4" X 1/4"		No 12321		
	No 45	○	3/8" Sizes: 15; 17; 19; 21; 22; 24 mm		No 65 51 6 240		
	No 46	○	3/8" Sizes: 15; 17; 19; 21 mm		No 65 64 2 175		
	No 427QR/3	○	3/8"; 76 mm		No 65 75 1 220		
	No 427QR/10	○	3/8"; 240 mm		No 66 00 5 160		
	No 428QR	○	3/8"; 46 mm		No 12900		
	No 431	○	1/4"; 3/8"		No 10960		500g
	No 432M	○	1/2"; 3/8"		No 10956	∅	35 mm
	No 435QR N	○	3/8"		No 12600		270g
					No 13126-2		
					No 453	○	3/8"
					No 12931		3 m

13214a WT/LR - LINE MAINTENANCE SET IN TOOL TROLLEY # 13217






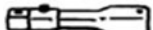








































Code: 98814905

Weight: 27kg

For the maintenance of aircraft and helicopters, 122 tools



No 13217-1 LR

	No 13a	SW 3/16; 13/64; 7/32; 15/64; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 25/32; 13/16; 7/8; 15/16; 1; 1 1/16; 1 1/8"	
	No 25a	SW 1/4 x 5/16; 5/16 x 11/32; 3/8 x 7/16; 1/2 x 9/16"	
	No 40aD	1/4" SW 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"	○
	No 40DL	1/4" SW 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"	○
	No 402a	1/4" SW 1/4; 5/16; 3/8; 7/16; 1/2"	○
	No 405QR/2	1/4" 54 mm	■ ○
	No 405QR/6	1/4" 150 mm	■ ○
	No 407QR	1/4" 38 mm	■ ○
	No 409M	3/8" 1/4"	■ ○
	No 415QR N	1/4"	■
	No 415SGB	1/4"	○
	No 412	1/4"	○ ○
	No 443	5/16" 3/8"	○ ○
	No 453	3/8"	■
	No 104	120 x 2; 120 x 3; 120 x 4; 120 x 5 mm	
	No 10767a/13	SW 0,050; 1/16; 5/64; 3/32; 7/64; 1/8; 9/64; 5/32; 3/16; 7/32; 1/4; 5/16; 3/8"	
	No 65 32 5 170		
	No 65 64 2 175		
	No 66 00 5 160		
	No 10960	500g	
	No 12053		
	No 12321		
	No 12900		
	No 12922E	∅ 6 mm	∅
	No 13126-2		
	No 45a	3/8" SW 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 15/16; 1"	○
	No 46a	3/8" SW 5/8; 11/16; 3/4; 7/8"	○
	No 427QR/3	3/8" 76 mm	■ ○
	No 427QR/10	3/8" 240 mm	■ ○
	No 428QR	3/8" 46 mm	■ ○
	No 431	1/4" 3/8"	■ ○
	No 432M	1/2" 3/8"	■ ○
	No 435QR N	3/8"	■
	No 4008-1		
	No 109	Gr. 2; 5	
	No 4622	Gr. 1 (1,0 x 5,5 x 100 mm) Gr. 3 (1,2 x 8,0 x 150 mm)	
	No 4632	Gr. 1; 2; 3	
	No 65 16 5 200		
	No 65 51 6 240		
	No 65 75 1 220		
	No 10956	∅ 35 mm	∅
	No 11095/20	0.05-1 mm	
	No 12320		
	No 12600	270 g	
	No 12921M	∅ 57 mm	∅
	No 12931	3 m	



13214a - LINE MAINTENANCE SET IN TOOL BOX # 13216/4

Code: 98814801

Weight: 27.2 kg

For the maintenance of aircraft and helicopters, 122 tools



No 13216/4

	No 13a	SW 3/16; 13/64; 7/32; 15/64; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 25/32; 13/16; 7/8; 15/16; 1; 1 1/16; 1 1/8"	
	No 25a	SW 1/4 x 5/16; 5/16 x 11/32; 3/8 x 7/16; 1/2 x 9/16"	
	No 40aD	1/4" SW 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"	○
	No 40aDL	1/4" SW 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"	○
	No 402a	1/4" SW 1/4; 5/16; 3/8; 7/16; 1/2"	○
	No 405QR/2	1/4" 54 mm	■ ○
	No 405QR/6	1/4" 150 mm	■ ○
	No 407QR	1/4" 38 mm	■ ○
	No 409M	3/8" 1/4"	■ ○
	No 415QR N	1/4"	■
	No 415SGB	1/4"	○
	No 412	1/4"	○ ○
	No 443	5/16" 3/8"	○ ○
	No 453	3/8"	■
	No 104	120 x 2; 120 x 3; 120 x 4; 120 x 5 mm	
	No 10767a/13	SW 0,050; 1/16; 5/64; 3/32; 7/64; 1/8; 9/64; 5/32; 3/16; 7/32; 1/4; 5/16; 3/8"	
	No 65 32 5 170		
	No 65 64 2 175		
	No 66 00 5 160		
	No 10960	500g	
	No 12053		
	No 12321		
	No 12900		
	No 12922E	∅ 6 mm	
	No 13126-2		
	No 45a	3/8" SW 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 15/16; 1"	○
	No 46a	3/8" SW 5/8; 11/16; 3/4; 7/8"	○
	No 427QR/3	3/8" 76 mm	■ ○
	No 427QR/10	3/8" 240 mm	■ ○
	No 428QR	3/8" 46 mm	■ ○
	No 431	1/4" 3/8"	■ ○
	No 432M	1/2" 3/8"	■ ○
	No 435QR N	3/8"	■
	No 4008-1		
	No 109	Gr. 2; 5	
	No 4622	Gr. 1 (1,0 x 5,5 x 100 mm) Gr. 3 (1,2 x 8,0 x 150 mm)	
	No 4632	Gr. 1; 2; 3	
	No 65 16 5 200		
	No 65 51 6 240		
	No 65 75 1 220		
	No 10956	∅ 35 mm	
	No 11095/20	0.05-1 mm	
	No 12320		
	No 12600	270 g	
	No 12921M	∅ 57 mm	
	No 12931	3 m	
	No 8050	Size 6 (4x); Size 12 (6x)	



ROLLER CABINETS

JET+ 6-DRAWER ROLLER CABINETS - 3 MODULES PER DRAWER - SAFETY RANGE

Code: JET.6GM3S

Supplied with the SAFETY LOCK SYSTEM preventing simultaneous opening of several drawers:

- 1 open drawer at a time to prevent cabinet from tipping over
- 6 drawers = 15 modules distributed in the 60 and 130 mm wall drawers
 - 4 drawers 60 mm wall = 12 modules
 - 1 drawer 130 mm wall = 3 modules
 - 1 drawer 270 mm wall
- 130 and 270 mm drawers can be fitted with modules
- 6 partitions for 60 mm drawers
- 2 partitions for 130 mm drawers
- Total load in the drawers: 140 kg
- Wall storage capacity: 155 liters
- Overall dimensions (including wheels and worktop): L.774 x D.546 x H.971 mm
- Usable drawer size: L.569 x D.421 x H.60 / 130 / 210 / 270 mm
- 4 wheels 125 mm diameter: 2 fixed, 2 castors, 1 with brake
- Color: Black 9004
- Weight: 75.50 kg



JET+ 8-DRAWER ROLLER CABINETS - 3 MODULES PER DRAWER - SAFETY RANGE

Code: JET.8GM3S

Supplied with the SAFETY LOCK SYSTEM preventing simultaneous opening of several drawers:

- 1 open drawer at a time to prevent cabinet from tipping over
- 8 drawers = 24 modules distributed in the 60 and 130 mm wall drawers
 - 6 drawers 60 mm wall = 18 modules
 - 2 drawers 130 mm wall = 6 modules
- 10 partitions for 60 mm drawers
- Total load in the drawers: 170 kg
- Wall storage capacity: 150 liters
- Overall dimensions (including wheels and worktop): L.774 x D.546 x H.971 mm
- Usable drawer size: L.569 x D.421 x H.60 / 130 / 210 / 270 mm
- 4 wheels 125 mm diameter: 2 fixed, 2 castors, 1 with brake
- Color: Black 9004
- Weight: 79.50 kg



SEALED ROLLER CHEST

IP67 STANAG 4280 DEF STAN 81-41 (NIV. J)

Code: BV.FC1

High density injected polypropylene resistant to extreme conditions of use. For military and aerospace use.

- Totally sealed and resists to shock, dust and industrial fluids
- Several padlock clasps available
- Stainless steel hinge pins
- Gap-free clasps and sealing gasket
- Resists pressure differences. Manual depressurizing valve
- Handle designed for maximum comfort
- Temperature tolerance: -33°/+90°
- Telescopic handle and side handles for easier use
- Stackable
- Customizable identification plate
- Inner dimensions (LxWxD): 517x277x217 mm
- Outer dimensions (LxWxD): 546x347x247 mm



IP67 STANAG 4280 DEF STAN 81-41 (NIV. J) MIL-STD 810F

Code: BV.FC2

High density injected polypropylene resistant to extreme conditions of use. For military and aerospace use.

- Totally sealed and resists to shock, dust and industrial fluids
- Several padlock clasps available
- Stainless steel hinge pins
- Gap-free clasps and sealing gasket
- Resists pressure differences. Manual depressurizing valve
- Handle designed for maximum comfort
- Temperature tolerance: -33°/+90°
- Telescopic handle and side handles for easier use
- Stackable
- Customizable identification plate
- Inner dimensions (LxWxD): 538x405x250 mm
- Outer dimensions (LxWxD): 627x475x292 mm



SEALED ROLLER CHEST

IP67 STANAG 4280 DEF STAN 81-41 (NIV. J) MIL-STD 810F

Code: BV.FC3

High density injected polypropylene resistant to extreme conditions of use. For military and aerospace use.

- Totally sealed and resists to shock, dust and industrial fluids
- Several padlock clasps available
- Stainless steel hinge pins
- Gap-free clasps and sealing gasket
- Resists pressure differences. Manual depressurizing valve
- Handle designed for maximum comfort
- Temperature tolerance: -33°/+90°
- Telescopic handle and side handles for easier use
- Stackable
- Customizable identification plate
- Inner dimensions (LxWxD): 580x440x330 mm
- Outer dimensions (LxWxD): 670x510x372 mm



SEALED ROLLER TOOL CHEST

Code: BV.FC4 A: 581mm B: 381mm C: 455mm D: 59mm E: 396mm 14kg

High density injected polypropylene resistant to extreme conditions of use. For military and aerospace use.

- Totally sealed and resists to shock, dust and industrial fluids
- Several padlock clasps available
- Stainless steel hinge pins
- Easy-to-use clasps
- Resists pressure differences
- 2 lateral handles & telescopic handle
- Temperature tolerance: -33°/+90°
- Customizable identification plate
- 4 60mm high drawers + worktop
- Tools accessible from the front or the top
- Outer dimensions (LxWxD): 581x381x455 mm



152-PIECE ENGINE MECHANICS SET

Display SKU ID: CU.AE50

- Each foam module is also available per unit
- Set designed for complete in-hangar overhauls as well as servicing work between overhauls on wide-body aircraft fitted with SNECMA, GE, PW or RR engines: AIRBUS A3xx, BOEING 7xx, Mc Donnell Douglas DCxx
- Weight: 17.8kg



CODE	QUANTITY	DESCRIPTION
PM.MODMCUAE50-01	1	
34_ CU.AE50	6	
440	17	
64.3/8X7/16	1	12-point ratchet ring wrench
PM.MODMCUAE50-02	1	
603F	1	
55A	10	
PM.MODMCUAE50-03	1	
R.210	1	1/4" extension 100 mm
R.215	1	1/4" extension 150 mm
R.232	1	1/4" - 3/8" coupler
R.236A	1	Short nut runner
R.240A	1	1/4" universal joint
R.151	1	1/4" Standard ratchet
J.240A	1	3/8" universal joint
J.151A	1	3/8" Standard ratchet
J.115	1	Crank with metal handle
J.145	1	Hinged metallic handle
J.120A	1	Sliding tee
J.210	1	Junior extension 125 mm
J.215	1	Junior extension 250 mm
J.230	1	3/8" - 1/4" coupler
RB	10	1/4" Sockets : RB.1/2 - RB.1/4 - RB.11/32 - RB.3/16 - RB.3/8 - RB.5/16 - RB.7/16 - RB.7/32 - RB.9/16 - RB.9/32
JB	12	3/8" Sockets : JB.1/2 - JB.1/4 - JB.11/16 - JB.11/32 - JB.13/16 - JB.3/4 - JB.3/8 - JB.5/16 - JB.5/8 - JB.7/16 - JB.7/8 - JB.9/16
JF	7	3/8" Drive hinged sockets : J.11/16F - J.7/16F - J.1/2F - J.3/4F - J.3/8F - J.5/8F - J.9/16F
J.LA	10	3/8" Long sockets: J.1/2LA - J.1/4LA
PM.MODMCUAE50-04	1	
86H.JU6	6	Keys on mount 5/32" to 3/8"

CODE	QUANTITY	DESCRIPTION
86H.JU7	7	Keys on mount 1/16" to 1/4"
AN	4	Round blade slotted screwdriver 2.5 x 75 - 3.5 x 75 - 4 x 100 mm
ANP	2	Stubby screwdriver Phillips® PH1 x 35 - 2 x 35 mm
APZ.A	1	Double head offset screwdriver
APZ.B	1	Double head offset screwdriver
ARZ.5.5	1	
AW	4	Forged hexagonal slotted head screwdriver 4 x 100 - 5.5 x 150 - 6.5 x 150 - 8 x 200 mm
AWP	4	Phillips® screwdriver PH 1-2-3-4
CLE.MDAM100A	6	
251A	9	
PM.MODMCUAE50-05	1	
181A.25CPE	1	Lockable multi-grip pliers
1830.1	1	Extra-soft silk brush
187.18CPE	1	Sheathed combination pliers
189.17CPE	1	Sheathed round-nose pliers
192.16CPE	1	Piano wire diagonal cutters
193.16CPE	1	Sheathed straight half-round nose "telephone" pliers
195.20CPE	1	Sheathed angled half-round nose pliers
200C.26	1	Riveting hammer for graphite handle
200C.30	1	Riveting hammer for graphite handle
208A.40CBA	1	Adaptable bit mallet heavy series
231	1	Three-square scraper
234	1	Scriber
410.S	1	Connector pliers
445.10R	1	Locking-wire pliers
803.300M	1	Flexible stainless 2-sided rule
804	1	Feeler gauge, 19 blades
834.R2	1	Inspection mirror 55 mm

118-PIECE ELECTRICIANS SET

Display SKU ID: CU.AE51

- Each foam module is also available per unit
- Major and minor in-hanger overhaul and servicing of electrical equipment including control interconnections and relays, lighting and audiovisual3.
- Weight: 6.88kg



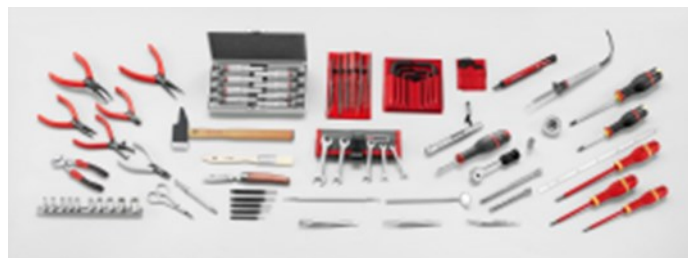
CODE	QUANTITY	DESCRIPTION
834.R2	1	Inspection mirror 55 mm
PM.MODMCUAE51-01	1	
251A	9	
841A.4	1	Scissors without sheath
34	13	
113A.8C	1	Adjustable wrench 10"
840.1	1	Electricians knife with wire stripper
826.1	1	Flexible mechanical finger
804	1	Feeler gauge, 19 blades
200H.26	1	
208A.32CBA	1	Interchangeable-tip mallets
234	1	Scriber
PM.MODMCUAE51-02	1	
836	1	Pen light
163	1	Wire cutter and stripper
445.8R	1	Locking-wire pliers
188.16CPE	1	Sheathed flat-nose pliers
189.17CPE	1	Sheathed round-nose pliers
410.S	1	Connector pliers
193.16CPE	1	Sheathed straight half-round nose "telephone" pliers
183.20CPE	1	Sheathed angled half-round nose pliers
405.15	1	Precision diagonal cutters, axial cut
180.CPE	1	Multi-grip pliers with ergonomic sheath
PM.MODMCUAE51-03	1	
AS.6L160T2A	6	
ES.134T	1	

CODE	QUANTITY	DESCRIPTION
ES.148T	1	
EP.101T	1	
82.JU10	10	
APB.1X40	1	
AN	2	Screwdriver for slotted head screw 2.5 x 75 and 3.5 x 75 mm
ANPOX75	1	Screwdrivers for Phillips® PH head 0
AW	4	Screwdriver for slotted head screw 4 x 100 - 5.5 x 150 - 6.5 x 150 - 8 x 200 mm
AWP	2	Screwdrivers for Phillips® PH head 1-2
PM.MODMCUAE51-04	1	
1230.30	1	Extra-soft silk brush
144	1	Very flat nose straight tweezers
R.240A	1	1/4" universal joint
R.151	1	Ratchet 1/4"
R.EL	5	
R.235	1	
R.215	1	1/4" extension 150 mm
R.216	1	1/4" wobble extension 150 mm
R.120A	1	1/4" sliding tee
R.236A	1	1/4" short nut runner
834.R1	1	Inspection mirror 36 mm
1830.1	1	Dual-rating soldering iron (20/40W)
839A.0	1	Desoldering pump
803.300M	1	Flexible stainless 2-sided rule
BV.21-10	1	Iron holder

86-PIECE FLIGHT INSTRUMENTS SET

Display SKU ID: CU.AE52

- Each foam module is also available per unit
- In-hanger inspection and servicing of console instrumentation, electrical, electro-mechanical and electronic modules and systems function indicators
- Weight: 3.49kg



CODE	QUANTITY	DESCRIPTION
PM.MODMCUAE52-01	1	
176A.CPY	1	Multi-grip pliers with ergonomic sheath
194.12	1	Fine wire strippers
402	1	Sheathed half-round nose pliers
403	1	Sheathed electro type half-round nose pliers
405.10	1	
421	1	Electro type sheathed stubby flat nose pliers
431.MT	1	Short nose narrow Micro-Tech® pliers
A.VE	3	
AWP	2	Screwdrivers for Phillips® PH head 1-2
AEF.J3	1	Micro-Tech® screwdrivers (in case)
AS.6L160T2A	6	
22	5	
PM.MODMCUAE52-02	1	
1230.30	1	Soldering iron 30 W
139	1	Cutting tweezers for extra fine wires
142.2	1	Tweezers with 15° offset cleared noses
144	1	Very flat nose straight tweezers

CODE	QUANTITY	DESCRIPTION
200H.26	1	Riveting hammer
251A	5	Drift punches 1 - 1.5 - 2 - 2.5 - 3 mm
RB	10	
R.150A	1	Palm control ratchet without handle 1/4"
R.151	1	Ratchet 1/4"
R.210	1	1/4" extension 100 mm
R.215	1	1/4" extension 150 mm
R.236A	1	1/4" short nut runner
R.240A	1	1/4" universal joint
803.300M	1	Flexible stainless 2-sided rule
826.0	1	
82H.JU10	10	Roll of offset hexagonal keys 1/16" to 3/8"
834	1	Inspection mirror
836	1	Pen light
835A	1	Spring hook
839A.0	1	Desoldering pump
840.1	1	Electricians knife with wire stripper
841	1	
1830.1	1	Extra-soft silk brush

130-PIECE EQUIPMENT MAINTENANCE SET

Display SKU ID: CU.AE54

- Each foam module is also available per unit
- Cabin layout, maintenance and repairs on passenger and cargo airliners: lighting, trim, seats, and air-conditioning systems
- Weight: 8.68kg



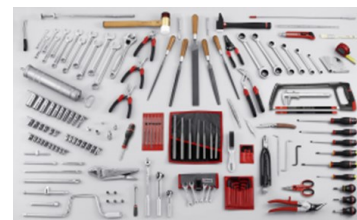
CODE	QUANTITY	DESCRIPTION
PM.MODMCUAE54-01	1	
34	13	
39H	4	
44	4	Open-end wrenches: 1/2 x 9/16 - 3/4 x 13/16 - 5/8 x 11/16 - 7/8 x 1 5/16
64	3	12-point ratchet ring wrenches: 1/4 x 5/16 - 3/8 x 7/16 - 1/2 x 9/16
PM.MODMCUAE54-02	1	
176A.CPY	1	
188.16CPE	1	Sheathed flat-nose pliers
192.16CPE	1	Piano wire diagonal cutters
193.16CPE	1	Sheathed straight half-round nose "telephone" pliers
405.12	1	Precision diagonal cutters
410.S	1	Connector pliers
445.8R	1	Locking-wire pliers
82H.JU10	10	Roll of offset hexagonal keys 1/16" to 3/8"
AN	3	Screwdriver for slotted head screw 2.5 x 75 and 3.5 x 75 mm
ANP	3	Screwdrivers 1 x 35 and 2 x 35 mm
AW	3	Screwdrivers for Phillips® PH head 0-1-2
AWP2X125	1	
APZ.B	1	Angled screwdrivers
PM.MODMCUAE54-03	1	
J.115Z	1	3/8" metal-grip speed brace
J.120A	1	3/8" drive sliding tee
J.145	1	3/8" metal-grip hinged handle
J.151A	1	
J.210	1	3/8" extension 125 mm
J.215	1	3/8" extension 250 mm

CODE	QUANTITY	DESCRIPTION
J.230	1	3/8" - 1/4" coupler
J.240A	1	3/8" universal joint
R.120A	1	1/4" drive sliding tee
R.140A	1	1/4" drive hinged adaptor
R.151	1	
R.210	1	1/4" extension 100 mm
R.215	1	1/4" extension 150 mm
R.232	1	1/4" - 3/8" coupler
R.240A	1	1/4" universal joint
RB	10	
JB	12	
J.3/8LA	1	
J.7/16LA	1	
PM.MODMCUAE54-04	1	
BV.21-10	1	Iron holder
1230.30	1	Dual-rating soldering iron (20/40W)
200H.26	1	
248	3	Long-reach drift punches 2 - 3 - 4 mm
256.2.5	1	
803.300M	1	Stainless steel flexible rule 300 mm
836	1	Pen light
839A.0	1	Desoldering pump
841	1	
843	1	Dual-blade electricians knife

168-PIECE STOP-OVER MECHANICS SET

Display SKU ID: CU.AE56 and JETGXL.UAE56

- Supplied in foam modules and JET.8GXLS
- Servicing of engine accessories, airframes, electrical equipment and circuits
- Weight: 16.96kg



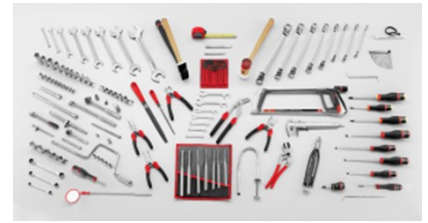
CODE	QUANTITY	DESCRIPTION
PM.MODMCUAE56-01	1	
64	6	Ring wrenches:1/2 x 9/16" - 1/4 x 5/16" - 3/4 x 13/16" - 3/8 x 7/16" - 5/8 x 11/16" - 7/8 x 15/16"
22	5	
440	12	
PM.MODMCUAE56-02	1	
376A	1	Manual oil syringe
603F	1	Hacksaw frame
668B.12	10	
AS.6L160T2A	6	
CAR.MD200A	1	
DRD.MD200A	1	
PAM.B250A	1	
RD.MD200A	1	
TRI.MD200A	1	
MAN	1	
PM.MODMCUAE56-03	1	
EP.101T	1	
EP.102T	1	
ES.134T	1	
ES.148T	1	
J.115	1	3/8" metal-grip speed brace
J.120A	1	3/8" drive sliding tee
J.151A	1	
J.210	1	3/8" extension 125 mm
J.230	1	3/8" - 1/4" coupler
J.240A	1	3/8" universal joint
R.120A	1	Sliding tee
R.140A	1	Hinged handle
R.210	1	1/4" extension 100 mm
R.217	1	1/4" extension 250 mm
R.232	1	1/4" - 3/8" coupler
R.236A	1	Short nut runner
RB	10	
JB	12	
J.IA	10	
PM.MODMCUAE56-04	1	
163	1	Wire cutter and stripper

CODE	QUANTITY	DESCRIPTION
180.CPE	1	Multi-grip pliers with ergonomic sheath
188.16CPE	1	Sheathed flat-nose pliers
192.16CPE	1	Piano wire diagonal cutters
193.16CPE	1	Sheathed straight half-round nose "telephone" pliers
445.10R	1	Locking-wire pliers
500A	1	
82H.JU10	1	Roll of offset hexagonal keys 1/16" to 3/8"
AN	4	Stubby screwdriver 4 x 35 and 6.5 x 35
ANP	2	
APZ.B	1	Double head offset screwdriver
ARZ.5.5	1	
AW	3	Screwdrivers for slotted head screw 4 x 100 -5.5 x 150 and 6.5 x 150 mm
AWP	4	Screwdrivers for Phillips® PH head 1-2
PM.MODMCUAE56-05	1	
113A.10C	1	Adjustable wrench 10"
142.1	1	Straight mode tweezers with cleared nose
154.C	1	
1830.1	1	Extra-soft silk brush
200H.32	1	Riveting hammer for graphite handle
208A.40CBA	1	Adaptable bit mallet heavy series
234	1	Scriber
256.4	1	Precision center punch 4 mm
263.G19	1	Chisel
803.300M	1	Flexible stainless 2-sided rule
804	1	Feeler gauge, 19 blades
805.1	1	Vernier caliper to 1/10 mm
826.1	1	Flexible mechanical finger
827.1	1	Extra-thin flexible magnetic finger
840.1	1	Electricians knife with wire stripper
841	1	
844.S18	1	
882A	1	Metal shears
893.316	1	Locking tape measure 3 m
248	7	

132-PIECE MAJOR CHECK SET

Display SKU ID: CU.AE57

- Each foam module is also available per unit
- For regular major overhauls of engines, undercarriage, airframes and hydraulic systems of wide-body aircraft: Airbus, Boeing, McDonnell Douglas
- Weight: 14.43kg



CODE	QUANTITY	DESCRIPTION
PM.MODM.CUAE57-01	1	
44	8	
64	3	Ring wrenches: 1/2 x 9/16" - 1/4 x 5/16" - 3/8 x 7/16"
55A	8	
34	7	Open end wrenches 1/4" - 11/16" - 3/8" - 5/16" - 5/8" - 7/16" - 9/32"
PM.MODM.CUAE57-02	1	
410.S	1	Connector pliers
445.10R	1	Locking-wire pliers
180.CPE	1	Multi-grip pliers with ergonomic sheath
187.16CPE	1	Sheathed combination pliers
188.16CPE	1	Sheathed flat-nose pliers
192.16CPE	1	Piano wire diagonal cutters
193.16CPE	1	Sheathed straight half-round nose "telephone" pliers
EP.101T	1	
EP.102T	1	
ES.134T	1	
ES.148T	1	
AN3X75	1	Screwdrivers for slotted heads 3 x 75 mm
ANP2X35	1	Stubby screwdriver for Phillips® PH 2 heads
APZ.B	1	Offset screwdriver for Phillips® heads
AW4X100	1	
AW	4	Screwdriver for slotted head screw 4 x 100 - 5.5 x 150 - 6.5 x 150 - 8 x 200 mm
AWP	3	Screwdrivers for Phillips® PH head 1-2-3
PM.MODM.CUAE57-03	1	
DRD.MD200EMA	1	
RD.MD150EMA	1	

CODE	QUANTITY	DESCRIPTION
248	7	
200H.32	1	Riveting hammer
208A.40CBA	1	Adaptable bit mallet heavy series
234	1	Scriber
256.2.5	1	
263.G19	1	
PM.MODM.CUAE57-04	1	
J.115	1	3/8" metal-grip speed brace
J.120A	1	3/8" drive sliding tee
J.145	1	3/8" metal-grip hinged handle
J.151A	1	
J.210	1	3/8" extension 125 mm
J.215	1	3/8" extension 250 mm
J.230	1	3/8" - 1/4" coupler
J.240A	1	3/8" universal joint
R.120A	1	1/4" drive sliding tee
R.140A	1	1/4" drive hinged adaptor
R.210	1	1/4" extension 100 mm
R.151	1	
R.215	1	1/4" extension 150 mm
R.232	1	1/4" - 3/8" coupler
R.235	1	
R.236A	1	
R.240A	1	1/4" universal joint
JB	12	
J.LA	10	
RB	10	
PM.MODM.CUAE57-05	1	
603F	1	
804	1	Feeler gauge, 19 blades
805.1	1	Vernier caliper to 1/10 mm
826.1	1	Flexible mechanical finger
82H.JU10	10	Roll of offset hexagonal keys 1/16" to 3/8"
834.R2	1	Articulated mirror
893316	1	Locking tape measure 3 m

DETECTION BAG - RFID TOOL BOX

Advanced FOD Solutions for High Tech Sectors

- Detection Bag is a self-standing fabric tool box, used with RFID-chip tools, ensuring tool traceability in the work space by automatic scanning inventory
- The bag scans its content automatically when opened, closed or moved - never forget your tools in your work space
- Each action is notified to the user by a light and sound signal, as well as a message on the backlit display
- The most advanced solution for tracing your tools in sensitive areas



SAFETY IS NOT AN OPTION RISK REDUCTION IN YOUR WORKPLACE

SAFETY SOLUTIONS

RFID SOLUTION

- Tools directly detectable thanks to a seamlessly integrated chip
- Optimized traceability - no more lost tools in high-risk areas
- Automated management of your tooling and its inventory with RFID Facom-CribMaster technologies
- Over 700 product references in the range
- Detectable with a UV lamp, the Fluo range is a simple and unique answer to find your tools when working in dark areas
- Reinforces safety by reducing the risks of accidents due to lost tools

FLOU SOLUTION

- Detectable with a UV lamp, the Fluo range is a simple and unique answer to find your tools when working in dark areas
- Reinforces safety by reducing the risks of accidents due to lost tools
- Over 400 product references in the range

SLS SOLUTION

- Designed by FACOM specifically to preserve comfort in all conditions and the levels of performance of its standard tools
- FACOM's ring system is made of metal to withstand extreme shocks, temperatures, and other harsh working conditions
- Safety Lock System, over 300 secured tools in the range



RATCHETS, SOCKETS, SOCKET SETS 1/4"

1/4" SOCKET; STANDARD LENGTH; INCHES 12-POINT; BOLT CLEARANCE

ASME B 107.1

FedSpec GGG-W 641

SAE AS 954-E

SIZE	STAHLWILLE CODE*	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
5/32	01530010	40 AD 5/32	/	/	/
3/16	01530012	40 AD 3/16	TMD6	6700DZ 3/16	R3/16EF
7/32	01530014	40 AD 7/32	TMD7	6700DZ 7/32	R7/32E
1/4	01530016	40 AD 1/4	TMD8	6700DZ 1/4	R1/4E
9/32	01530018	40 AD 9/32	TMD9	6700DZ 9/32	R9/32E
5/16	01530020	40 AD 5/16	TMD10	6700DZ 5/16	R5/16E
11/32	01530022	40 AD 11/32	TMD11	6700DZ 11/32	R11/32E
3/8	01530024	40 AD 3/8	TMD12	6700DZ 3/8	R3/8E
13/32	/		/	/	R13/32E
7/16	01530028	40 AD 7/16	TMD14	6700DZ 7/16	R7/16E
1/2	01530032	40 AD 1/2	TMD16	6700DZ 1/2	R1/2E
9/16	01530034	40 AD 9/16	TMD18	6700DZ9/16	R9/16E



*Stahlwille - Made in Germany

1/4" SOCKET; STANDARD LENGTH; METRIC 12-POINT; BOLT CLEARANCE

ASME B 107.5M

FedSpec GGG-W 641

SAE AS 954-E

DIN 3124/ISO2725-1

DIN/EN3709

SIZE	STAHLWILLE CODE*	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
5	01030005	40 D 5	TMMD5	A6700DM-5	/
5.5	01020055	40 D 5.5	TMMD5.5	A6700DM-5,5	R5,5E
6	01030006	40 D 6	TMMD6	A6700DM-6	R6E
7	01030007	40 D 7	TMMD7	A6700DM-7	R7E
8	01030008	40 D 8	TMMD8	A6700DM-8	R8E
9	01030009	40 D 9	TMMD9	A6700DM-9	R9E
10	01030010	40 D 10	TMMD10	A6700DM-10	R10E
11	01030011	40 D 11	TMMD11	A6700DM-11	R11E
12	01030012	40 D 12	TMMD12	A6700DM-12	R12E
13	01030013	40 D 13	TMMD13	A6700DM-12	R13E
14	01030014	40 D 14	TMMD14	A6700DM-14	R14E



*Stahlwille - Made in Germany

RATCHETS, SOCKETS, SOCKET SETS 1/4"

1/4" SOCKET; LONG; INCHES 12-POINT; BOLT CLEARANCE

ASME B 107.1

FedSpec GGG-W 641

SAE AS 954-E

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
5/32	01640010	40ADL 5/32	/	/	/
3/16	01640012	40 ADL 3/16	STMD6	A6800DZ-3/16	R 3/16EL
7/32	01640014	40 ADL 7/32	STMD7	A6800DZ-7/32	R 7/32EL
1/4	01640016	40 ADL 1/4	STMD8	A6800DZ-1/4	R 1/4EL
9/32	01640018	40 ADL 9/32	STMD9	A6800DZ-9/32	R9/32EL
5/16	01640020	40 ADL 5/16	STMD10	A6800DZ-5/16	R 5/16EL
11/32	01640022	40 ADL 11/32	STMD11	A6800DZ-11/32	R 11/32EL
3/8	01640024	40 ADL 3/8	STMD12	A6800DZ-3/8	R 3/8EL
7/16	01640028	40 ADL 7/16	STMD14	A6800DZ-7/16	R 7/16EL
1/2	01640032	40 ADL 1/2	STMD16	A6800DZ-1/2	R 1/2EL
9/16	01640034	40 ADL 9/16	STMD18	A6800DZ-9/16	R 9/16EL



1/4" SOCKET; LONG; METRIC 12-POINT; BOLT CLEARANCE

ASME B 107.5M

FedSpec GGG-W 641

SAE AS 954-E

DIN 3124/ISO2725-1

DIN/EN3709

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
4	/	/	/	A6800DM-4	/
5	01240005	40aDL 5	STMMD5	A6800DM-5	/
5.5	01240055	40aDL 5,5	STMMD5,5	A6800DM-5,5	/
6	01240006	40aDL 6	STMMD6	A6800DM-6	/
7	01240007	40aDL 7	STMMD7	A6800DM-7	/
8	01240008	40aDL 8	STMMD8	A6800DM-8	/
9	01240009	40aDL 9	STMMD9	A6800DM-9	/
10	01240010	40aDL 10	STMMD10	A6800DM-10	/
11	01240011	40aDL 11	STMMD11	A6800DM-11	/
12	01240012	40aDL 12	STMMD12	A6800DM-12	/
13	01240013	40aDL 13	STMMD13	A6800DM-13	/
14	01240014	40aDL 14	STMMD14	A6800DM-14	/



RATCHETS, SOCKETS, SOCKET SETS 1/4"

1/4" SOCKET; SEMI-DEEP; INCHES 12-POINT; BOLT CLEARANCE

SAE AS 954-E

S.B.A.C. AS 40605/40606

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
3/16	/	/	TMDS6	/	/
7/32	01650014	40ADV	TMDS7	/	/
1/4	01650016	40ADV	TMDS8	/	/
9/32	01650018	40ADV	TMDS9	/	/
5/16	01650020	40ADV	TMDS10	/	/
11/32	/	/	TMDS11	/	/
3/8	/	/	TMDS12	/	/
7/16	/	/	TMDS14	/	/
1/2	/	/	TMDS16	/	/
9/16	/	/	TMDS18	/	/



1/4" SOCKET; SEMI-DEEP; METRIC 12-POINT; BOLT CLEARANCE

SAE AS 954-E

S.B.A.C. AS 40605/40606

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
5	/	/	TMMDS5	/	/
5.5	/	/	TMMDS5,5	/	/
6	/	/	TMMDS6	/	/
7	/	/	TMMDS7	/	/
8	/	/	TMMDS8	/	/
9	/	/	TMMDS9	/	/
10	/	/	TMMDS10	/	/
11	/	/	TMMDS11	/	/
12	/	/	TMMDS12	/	/
13	/	/	TMMDS13	/	/
14	/	/	TMMDS14	/	/



1/4" UNIFLEX SOCKET; STANDARD LENGTH; INCHES 12-POINT; BOLT CLEARANCE

ASME B 107.1

SAE AS 954

HPQ® high performance steel, chrome plated

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
3/16	/	/	TMU61A	A6710DZ-3/16	R3/16F
7/32	01540014	402 A	TMU71A	A6710DZ-7/32	R7/32F
1/4	01540016	402 A	TMU81A	A6710DZ-1/4	R1/4F
9/32	01540018	402 A	TMU91A	A6710DZ-9/32	R9/32F
5/16	01540020	402 A	TMU101A	A6710DZ-5/16	R5/16F
11/32	01540022	402 A	TMU111A	A6710DZ-11/32	R11/32F
3/8	01540024	402 A	TMU121A	A6710DZ-3/8	R3/8F
7/16	01540028	402 A	TMU141A	A6710DZ-7/16	R7/16F
1/2	01540032	402 A	TMU161A	A6710DZ-1/2	R1/2F
9/16	/	/	TMU181A	A6710DZ-9/16	R9/16F



RATCHETS, SOCKETS, SOCKET SETS 1/4"

1/4" UNIFLEX SOCKET; STANDARD LENGTH; METRIC 12-POINT; BOLT CLEARANCE

ASME B 107.1

SAE AS 954

HPQ® high performance steel, chrome plated

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
5	/	/	TMUM5A	/	/
6	01140006	402	TMUM6A	A6710DM-6	/
7	01140007	402	TMUM7A	A6710DM-7	/
8	01140008	402	TMUM8A	A6710DM-8	/
9	01140009	402	TMUM9A	A6710DM-9	/
10	01140010	402	TMUM10A	A6710DM-10	/
11	/	/	/	A6710DM-11	/
12	/	/	TMUM12A	A6710DM-12	/
13	/	/	TMUM13A	A6710DM-13	/
14	/	/	/	A6710DM-14	/



1/4" SPLINE SOCKET; STANDARD LENGTH; INCHES 12-POINT; BOLT CLEARANCE

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
7/32	01011007	40aSP7	TES 7B	/	/
1/4	01011008	40aSP8	TES 8B	/	/
9/32	01011009	40aSP9	TES 9B	/	/
5/16	01011010	40aSP10	TES 10B	/	/
3/8	01011012	40aSP12	TES 12B	/	/
7/16	01011014	40aSP14	TES 14B	/	/



1/4" SPLINE SOCKET; LONG; INCHES 12-POINT; BOLT CLEARANCE

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
7/32	01021007	40aLSP7	TEL7B	/	/
1/4	01021008	40aLSP8	TEL8B	/	/
5/16	01021010	40aLSP10	TEL10B	/	/



1/4" SPLINE UNIFLEX SOCKET; STANDARD LENGTH; INCHES 12-POINT; BOLT CLEARANCE

ASME B 107.1

SAE AS 954

HPQ® high performance steel, chrome plated

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/4	01542016	402aSP8	TESU8	/	/
5/16	01542020	402aSP10	TESU10	/	/



RATCHETS, SOCKETS, SOCKET SETS 1/4"

1/4" IN HEX SOCKET; STUBBY; INCHES 6-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
9/64	/	/	TMAXS4,5E	/	/
5/32	/	/	TMAXS5E	/	/
3/16	/	/	TMAXS6E	/	/
7/32	/	/	TMAXS7E	/	/
1/4	/	/	TMAXS8E	/	/
5/16	/	/	TMAXS10E	/	/
3/8	/	/	TMAXS12E	/	/



1/4" IN HEX SOCKET; STUBBY; METRIC 12-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
3	01120003	44K 3	TMAMXS3E	/	/
4	01120004	44K 4	TMAMXS4E	/	/
5	01120005	44K 5	TMAMXS5E	/	/
6	01120006	44K 6	TMAMXS7E	/	/
8	01120008	44K 8	/	/	/



1/4" IN HEX SOCKET; STANDARD LENGTH; INCHES 6-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/16	1450004	44a 1/16	TMA2E	/	/
5/64	1450005	44a5/64	TMA2,5E	/	/
3/32	1450006	44a 3/32	TMA3E	/	/
7/64	1450007	44a 7/64	TMA3,5E	/	/
1/8	1450008	44a 1/8	TMA4E	A6709Z-1/8	RT.1/8
9/64	1450009	44a 9/64	TMA4,5E	A6709Z-9/64	/
5/32	1450010	44a 5/32	TMA5E	A6709Z-5/32	RT.5/32
3/16	1450012	44a 3/16	TMA6E	A6709Z-3/16	RT.3/16
7/32	1450014	44a 7/32	TMA7E	/	/
1/4	1450016	44a 1/4	TMA8E	/	RT.1/4



1/4" IN HEX SOCKET; STANDARD LENGTH; METRIC 6-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
2	/	/	TMAM2E	/	RT.2
2,5	/	/	TMAM2,5E	/	RT.2,5
3	01050003	44	TMAM3E	6709M-3	RT.3
4	01050004	44	TMAM4E	6709M-4	RT.4
5	01050005	44	TMAM5E	6709M-5	RT.5
6	01050006	44	TMAM6E	6709M-6	RT.6
7	/	/	/	/	RT.7
8	/	/	/	6709M-8	RT.8
10	/	/	/	/	RT.10



RATCHETS, SOCKETS, SOCKET SETS 1/4"

1/4" IN HEX SOCKET; EXTRA LONG 6 1/16"; INCHES 6-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
5/32	/	/	FA5LE	/	/
3/16	/	/	FA6LE	/	/
7/32	/	/	FA7LE	/	/
1/4	/	/	FA8LE	/	/
5/16	/	/	FA10LE	/	/
3/8	/	/	FA12LE	/	/



1/4" TORX® INSIDE

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
T8	01350008	44KTX	TTX8B	6709 TORX-T8	/
T9	01350009	44KTX	/	6709 TORX-T9	/
T10	01350010	44KTX	TTX10B	6709 TORX-T10	RX.10
T15	01350015	44KTX	TTX15B	6709 TORX-T15	RX.15
T20	01350020	44KTX	TTX20B	6709 TORX-T20	RX.20
T25	01350025	44KTX	TTX25B	6709 TORX-T25	RX.25
T27	01350027	44KTX	TTX27B	6709 TORX-T27	RX.27
T30	01350030	44KTX	TTX30B	6709 TORX-T30	RX.30
T40	01350040	44KTX	TTX40B	6709 TORX-T40	RX.40



1/4" TORX® INSIDE; TAMPER RESISTANT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
T6	/	/	/	/	/
T7	/	/	/	/	/
T8	01350008	44KTXB	TTXR8E	6709 TORX-R-T8	/
T9	01350009	44KTXB	/	/	/
T10	01350010	44KTXB	TTXR10E	6709 TORX-T10	/
T15	01350015	44KTXB	TTXR15E	6709 TORX-T15	/
T20	01350020	44KTXB	TTXR20E	6709 TORX-T20	/
T25	01350025	44KTXB	TTXR25E	6709 TORX-T25	/
T27	01350027	44KTXB	/	/	/
T30	01350030	44KTXB	/	/	/
T40	01350040	44KTXB	/	/	/



1/4" UNIVERSAL JOINT; STANDARD LENGTH

DIN 3123/ISO 3316 HPQ® high performance steel, chrome plated

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/4 X 1/4	/	/	TMU8B	6966	R240
1/4 X 1/4	11020000	407	/	/	/
1/4 X 1/4	11021000	407QR*	/	/	/
1/4 X 1/4	/	/	TMUL8	SBS65	/



*Quick Release safety lock, patent

RATCHETS, SOCKETS, SOCKET SETS 1/4"

1/4" - 1/2" ADAPTOR

DIN 3123/ISO 3316 HPQ® high performance steel

SIZE FEMALE	SIZE MALE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/4	3/8	11030002	409	TA3	7765	R232
1/4	1/2	11030003	410	/	/	/
3/8	1/4	12030001	431	GFAT1E	7764	J230
3/8	1/2	12030003	432	GAF2A	8164-1/2	J232
1/2	3/8	13030002	513	GSAF1F	8165-1/2	S230



1/4" ADAPTOR; MAGNETIC RETAINER

SIZE FEMALE	SIZE MALE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/4	3/8	11030010	409M	/	7767	D.169RJ
3/8	1/2	12030010	432M	/	8167	D.169JS
1/2	3/4	13030010	514M	/	8967	D.196SK



1/4" EXTENSION

DIN 3123/ISO 3316

Patented

*Quick Release

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
50	11011001	405QR-2*	TMXKL2	/	/
100	11011006	405QR-4*	/	/	R210RC
160	11011002	405QR-6*	TMXKL60A	/	R215RC
254	/	/	/	/	R217RC
280	/	/	TMXKL110A	/	/
330	11011013	405QR-13*	/	/	/
356	11011014	405QR-14*	/	/	/
610	/	/	TMXKL240A	/	/



1/4" EXTENSION

*Knurled

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE
50	11010001	405-2
100	11010006	405-4
160	11010002	405-6
254	11010010	405-10
356	11010014	405-14

SIZE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1	TMX1	/	/
2	TMXK2*	6960	R209
3	TMXK3*	/	/
4	TMXK4*	6961	R210
6	TMXK60	6962	R215
8	TMXK80	/	/
10	/	/	R217
11	TMXK110*	/	/
14	TMXK140*	6962L	/
24	TMX240	/	/
36	TMX360*	/	/



RATCHETS, SOCKETS, SOCKET SETS 1/4"

1/4" EXTENSION; WOBBLE-DRIVE

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1	/	/	TMXWP1	/	/
2	11010011	405W	TMXWP2	6960W	R209S
4	11010016	405W	TMXWP4	/	R210S
6	11010012	405W	TMXWP6	6962W	/
8	/	/	TMXWP8	/	/
10	11010020	405W	/	/	/
11	/	/	TMXWP11	/	/
14	11010024	405W	/	/	/



1/4" SLIDING T-HANDLE

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
4 1/2	11071000	404QR	/	/	/
4 1/2	11070000	404	TM5	/	R120A
5	/	/	/	6954	/



1/4" DRIVE HANDLE

*Female Square

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1 3/4	/	/	TM40ASA	/	/
6	11051010	400QR	TM4CSA*	/	R236A
6	11050010	400	/	6956*	/
6	11050011	40Drall*	/	/	/
10	/	/	TM9CSA*	/	R227A



1/4" BREAKER BAR

*Comfort Grip

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
6	11061010	403	TM10G	6958	R140A
6	/	/	/	/	/
6 1/2	/	/	THBB10*	/	/
9	/	/	TM9G	/	/



1/4" RATCHET; STEEL HANDLE

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
112	/	/	T72	/	/
117	11 11 10 30	415SG-QR N	/	/	/



RATCHETS, SOCKETS, SOCKET SETS 1/4"

1/4" RATCHET; SOFT HANDLE

*Quick Release

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
108	/	/	/	/	R161
117	11 11 10 40	415QRL N	/	/	/
130	/	/	/	6950	/
175	/	/	THR72	/	/



1/4" RATCHET; LONG HANDLE

*Quick Release

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
153	11110153	415QR-L*	/	/	/
229	/	/	TRLL72	/	/



1/4" SPEEDER BRACE

*Detachable Palm Head

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
360	/	/	/	/	R110
410	/	/	/	6952	/
440	11100001	413*	/	/	/
480	/	/	S4	/	/



40aDL/10CL SOCKET SET WITH CLIP STRIP; 12-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE
10 Sockets: 3/16; 7/32; 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16"; 1 clip strip No 40CL-2	96016410	40aDL/10CL

SIZE	BAHCO CODE
7 Sockets: 3/16, 7/32, 1/4, 11/32, 3/8, 7/16, 1/2; Rail-187	6729SZ



RATCHETS, SOCKETS, SOCKET SETS 1/4"

1/4" STAHLWILLE SOCKET SET; QUICK RELEASE; 37 PIECES

Code: 96015205

40aD/30/7QR

Sturdy stackable ABS plastic case; 37 pieces

- 1 Socket with Hexagon No 40a: Size 1/8"
- 11 Sockets with Bi-Hexagon No 40aD:
Sizes 5/32; 3/16; 7/32; 1/4; 9/32; 5/16; 11/32;
3/8; 7/16; 1/2; 9/16"
- 11 Sockets with Bi-Hexagon, Long, No 40aDL:
Sizes 5/32; 3/16; 7/32; 1/4; 9/32; 5/16; 11/32;
3/8; 7/16; 1/2; 9/16"
- 7 UNIFLEX Sockets with Bi-Hexagon No 402a:
Sizes 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2"
- 1 Ratchet No 415SG-QR
- 3 Extensions No 405/2QR (2x) (54 mm),
No 405/6QR (150 mm)
- 1 Universal Joint No 407QR
- 1 Drive Handle No 400QR
- 1 Bit-Holder No 412



1/4" STAHLWILLE SOCKET SET; QUICK RELEASE; 19 PIECES

Code: 96015205

40aD/12/7QR

Sturdy stackable ABS plastic case; 19 pieces

- 1 Socket with Hexagon No 40a: Size 1/8"
- 11 Sockets with Bi-Hexagon No 40aD:
Sizes 5/32; 3/16; 7/32; 1/4; 9/32; 5/16; 11/32;
3/8; 7/16; 1/2; 9/16"
- 1 Ratchet No 415SG-QR
- 3 Extensions No 405/2QR (2x) (54 mm),
No 405/6QR (150 mm)
- 1 Universal Joint No 407QR
- 1 Drive Handle No 400QR
- 1 Bit-Holder No 412



RATCHETS, SOCKETS, SOCKET SETS 3/8"

3/8" SOCKET; STANDARD LENGTH; INCHES 12-POINT; BOLT CLEARANCE

ASME B 107.1 FedSpec GGG-W 641 SAE AS 954-E (test loads)

HPQ® high performance steel, chrome plated

SIZE	STAHLWILLE CODE*	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/4	02410016	45a	F081	A7400DZ-1/4	J1/4
5/16	02410020	45a	F101	A7400DZ-5/16	J5/16
11/32	02410022	45a	F111	/	/
3/8	02410024	45a	F121	A7400DZ-3/8	J3/8
7/16	02410028	45a	F141	A7400DZ-7/16	J7/16
1/2	02410032	45a	F161	A7400DZ-1/2	J1/2
17/32	/	/	/	A7400DZ-17/32	/
9/16	02410034	45a	F181	A7400DZ-9/16	J9/16
19/32	02410035	45a	/	A7400DZ-19/32	/
5/8	02410036	45a	F201	A7400DZ-5/8	J5/8
11/16	02410038	45a	F221	A7400DZ-11/16	J11/16
3/4	02410040	45a	F241	A7400DZ-3/4	J3/4
13/16	02410042	45a	F261	A7400DZ-13/16	J13/16
7/8	02410044	45a	F281	A7400DZ-7/8	J7/8
15/16	02410046	45a	F301	/	J15/16
1	02410048	45a	F321	/	J1



*Stahlwille - Made in Germany

3/8" SOCKET; STANDARD LENGTH; METRIC 12-POINT; BOLT CLEARANCE

ASME B 107.5M

DIN 3124/ISO2725-1

E DIN/EN3709

SAE AS 954-E (test loads)

HPQ® high performance steel, chrome plated

SIZE	STAHLWILLE CODE*	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
7	02410007	45	/	A7400DM-7	J7
8	02410008	45	FM8	A7400DM-8	J8
9	02410009	45	FM9	A7400DM-9	J9
10	02410010	45	FM10	A7400DM-10	J10
11	02410011	45	FM11	A7400DM-11	J11
12	02410012	45	FM12	A7400DM-12	J12
13	02410013	45	FM13	A7400DM-13	J13
14	02410014	45	FM14	A7400DM-14	J14
15	02410015	45	FM15	A7400DM-15	J15
16	02410016	45	FM16	A7400DM-16	J16
17	02410017	45	FM17	A7400DM-17	J17
18	02410018	45	FM18	A7400DM-18	J18
19	02410019	45	FM19	A7400DM-19	J19
20	02410020	45	FM20	A7400DM-20	J20
21	02410021	45	FM21	A7400DM-21	J21
22	02410022	45	FM22	A7400DM-22	J22
23	/	/	FM23	/	J23
24	02410024	45	FM24	/	J24
26	/	/	FM26	/	/



*Stahlwille - Made in Germany

RATCHETS, SOCKETS, SOCKET SETS 3/8"

3/8" SOCKET; LONG; INCHES 12-POINT; BOLT CLEARANCE

ASME B 107.1 FedSpec GGG-W 641 SAE AS 954-E (test loads) HPQ® high performance steel, chrome plated

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/4	02420016	46a	SF081	A7402DZ-1/4	J1/4LA
5/16	02420020	46a	SF101	A7402DZ-5/16	J.5/16LA
3/8	02420024	46a	SF121	A7402DZ-3/8	J.3/8LA
7/16	02420028	46a	SF141	A7402DZ-7/16	J.7/16LA
1/2	02420032	46a	SF161	A7402DZ-1/2	J.1/2LA
9/16	02420034	46a	SF181	A7402DZ-9/16	J.9/16LA
19/32	02420035	46a	SF191	A7402DZ-19/32	/
5/8	02420036	46a	SF201	A7402DZ-5/8	J.5/8LA
11/16	02420038	46a	SF221	A7402DZ-11/16	J.11/16LA
3/4	02420040	46a	SF241	A7402DZ-3/4	J.3/4LA
13/16	02420042	46a	SF261	A7402DZ-13/16	J.13/16LA
7/8	02420044	46a	SF281	A7402DZ-7/8	J.7/8LA
15/16	02420046	46a	SF301	/	J.15/16LA
1	02420048	46a	SF321	/	J.1'LA



3/8" SOCKET; LONG; METRIC 12-POINT; BOLT CLEARANCE

ASME B 107.5M FedSpec GGG-W 641 DIN 3124/ISO2725-1 E DIN/EN3709 SAE AS 954-E (test loads)

HPQ® high performance steel, chrome plated

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
6	/	/	SFM6	/	/
7	/	/	SFM7	A7402DM-7	J.7LA
8	02020008	46	SFM8	A7402DM-8	J.8LA
9	/	/	SFM9	A7402DM-9	J.9LA
10	02020010	46	SFM10	A7402DM-10	J.10LA
11	02020011	46	SFM11	A7402DM-11	J.11LA
12	02020012	46	SFM12	A7402DM-12	J.12LA
13	02020013	46	SFM13	A7402DM-13	J.13LA
14	02020014	46	SFM14	A7402DM-14	J.14LA
15	02020015	46	SFM15	A7402DM-15	J.15LA
16	02020016	46	SFM16	A7402DM-16	J.16LA
17	02020017	46	SFM17	A7402DM-17	J1.7LA
18	02020018	46	SFM18	A7402DM-18	J.18LA
19	02020019	46	SFM19	A7402DM-19	J.19LA
20	/	/	SFM20	/	J.20LA
20,8-13/16 1*	02020208	46	/	/	/
21	02020021	46	SFM21	/	J.21LA
22	02020022	46	/	/	J.22LA
24	/	/	/	/	J.24LA



*With rubber insert for spark plugs

RATCHETS, SOCKETS, SOCKET SETS 3/8"

3/8" SOCKET; SEMI-DEEP; INCHES 12-POINT; BOLT CLEARANCE

SAE AS 954-E

S.B.A.C. AS 40610/40611

ASME B 107.1

SAE AS 954-E (test loads)

HPQ® high performance steel, chrome plated

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/4	02620016	460a	FDS081	/	/
5/16	02620020	460a	FDS101	/	/
3/8	02620024	460a	FDS121	/	/
7/16	02620028	460a	FDS141	/	/
1/2	02620032	460a	FDS161	/	/
9/16	/	/	FDS181	/	/



3/8" SOCKET; SEMI-DEEP; METRIC 12-POINT; BOLT CLEARANCE

Chrome plated

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
8	/	/	FSMS8	/	/
9	/	/	FSMS9	/	/
10	/	/	FSMS10	/	/
12	/	/	FSMS12	/	/
13	/	/	FSMS13	/	/
14	/	/	FSMS14	/	/
15	/	/	FSMS15	/	/
16	/	/	FSMS16	/	/
17	/	/	FSMS17	/	/
18	/	/	FSMS18	/	/
19	/	/	FSMS19	/	/



3/8" UNIFLEX SOCKET; STANDARD LENGTH; INCHES 12-POINT; BOLT CLEARANCE

ASME B 107.1

SAE AS 954

HPQ® high performance steel, chrome plated

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
5/16	02440020	47a	FU10B	A7410DZ	/
3/8	02440024	47a	FU12B	A7410DZ	J.3/8F
7/16	02440028	47a	FU14B	A7410DZ	J.7/16F
1/2	02440032	47a	FU16B	A7410DZ	J.1/2F
9/16	02440034	47a	FU18B	A7410DZ	J.9/16F
5/8	02440036	47a	FU20B	A7410DZ	J.5/8F
11/16	02440038	47a	FU22B	A7410DZ	J.11/16F
3/4	02440040	47a	FU24B	A7410DZ	J.3/4F



RATCHETS, SOCKETS, SOCKET SETS 3/8"

3/8" UNIFLEX SOCKET; STANDARD LENGTH; METRIC 12-POINT; BOLT CLEARANCE

ASME B 107.1

SAE AS 954

HPQ® high performance steel, chrome plated

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
10	02040010	47	FUM10A	/	/
11	02040011	47	/	/	/
12	02040012	47	FUM12A	/	/
13	02040013	47	FUM13A	/	/
14	02040014	47	FUM14A	/	/
15	02040015	47	FUM15A	/	/
16	02040016	47	FUM16A	/	/
17	02040017	47	FUM17A	/	/
18	02040018	47	FUM18A	/	/
19	02040019	47	FUM19A	/	/



3/8" SPLINE SOCKET; STANDARD LENGTH; INCHES 12-POINT; BOLT CLEARANCE

MS-33787

MIL-W-8982

HPQ® high performance steel, chrome plated

SIZE	SPLINE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
3/8	12	02011012	45aSP	FES120B	/	/
7/16	14	02011014	45aSP	FES140B	/	/
1/2	16	02011016	45aSP	FES160B	/	/
9/16	18	/	/	FES180B	/	/
5/8	20	/	/	FES200B	/	/



3/8" SPLINE SOCKET; DEEP; INCHES 12-POINT; BOLT CLEARANCE

MS-33787

MIL-W-8982

For Disassembling Jet Engines, Series CFM 56

HPQ® high performance steel, gunmetal finish

SIZE	SPLINE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
7/16	14	22410028	45aPSP	IMFES	/	/



3/8" SPLINE SOCKET; DEEP; INCHES 12-POINT; BOLT CLEARANCE

MS-33787

MIL-W-8982

SIZE	SPLINE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
3/8	12	02021012	46aSP	FEL120	/	/
7/16	14	02021014	46aSP	FEL140	/	/
1/2	16	/	/	FEL160	/	/
9/16	18	/	/	FEL180	/	/
5/8	20	/	/	FEL200	/	/



RATCHETS, SOCKETS, SOCKET SETS 3/8"

3/8" SPLINE SOCKET; UNIVERSAL; 12-POINT; BOLT CLEARANCE

DIN 7422 For socket head screws

SIZE	SPLINE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
3/8	12	/	/	FESU120	/	/
7/16	14	/	/	FESU140	/	/
1/2	16	/	/	FESU160	/	/
9/16	18	/	/	FESU180	/	/



3/8" INHEX SOCKET; STUBBY; INCHES 6-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
7/32	/	/	FAXS7E	/	/
1/4	/	/	FAXS8E	/	/
5/16	/	/	FAXS10E	/	/
3/8	/	/	FAXS12E	/	/



3/8" INHEX SOCKET; STUBBY; METRIC 12-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
7	/	/	FAMXS7E	/	/
8	/	/	FAMXS8E	/	/
9	/	/	FAMXS9E	/	/
10	/	/	FAMXS10E	/	/



3/8" INHEX SOCKET; STANDARD LENGTH; INCHES 6-POINT

DIN 7422 For socket head screws

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/8	02450008	49a	FA4E	/	JT.1/8
9/64	02450009	49a	FA4,5E	/	/
5/32	02450010	49a	FA5E	/	JT.5/32
3/16	02450012	49a	FA6E	/	JT.3/16
7/32	02450014	49a	FA7E	/	JT.7/32
1/4	02450016	49a	FA8E	/	JT.1/4
5/16	02450020	49a	FA10E	/	JT.5/16
3/8	02450024	49a	FA12E	/	/



RATCHETS, SOCKETS, SOCKET SETS 3/8"

3/8" INHEX SOCKET; STANDARD LENGTH; METRIC 6-POINT

DIN 7422 For socket head screws

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
3	02050003	49	/	/	JT3
4	02050004	49	FAM4E	/	JT4
5	02050005	49	FAM5E	/	JT5
6	02050006	49	FAM6E	/	JT6
7	02050007	49	FAM7E	/	JT7
8	02050008	49	FAM8E	/	JT8
9	02050009	49	FAM9E	/	/
10	02050010	49	FAM10E	/	JT10
11	/	/	FAM11E	/	/
12	/	/	FAM12E	/	/
13	/	/	FAM13E	/	/
14	/	/	FAM14E	/	/



3/8" INHEX SOCKET; EXTRA LONG; INCHES 6-POINT

SIZE	STAHLWILLE	STAHLWILLE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
5/32	/	/	FA5LE	/	/
3/16	/	/	FA6LE	/	/
7/32	/	/	FA7LE	/	/
1/4	/	/	FA8LE	/	/
5/16	/	/	FA10LE	/	/
3/8	/	/	FA12LE	/	/



3/8" TORX® SOCKET; STANDARD LENGTH

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
T9	02100009	49TX	/	/	/
T10	02100010	49TX	FTX10E	/	JX.10
T15	02100015	49TX	FTX15E	/	JX.15
T20	02100020	49TX	FTX20E	7409TORX-T20	JX.20
T25	02100025	49TX	FTX25E	7409TORX-T25	JX.25
T27	02100027	49TX	FTX27E	7409TORX-T27	JX.27
T30	02100030	49TX	FTX30E	7409TORX-T30	JX.30
T40	02100040	49TX	FTX40E	7409TORX-T40	JX.40
T45	02100045	49TX	FTX45E	7409TORX-T45	JX.45
T50	/	/	FTX50E	7409TORX-T50	JX.50
T55	/	/	FTX55E	/	JX.55
T60	/	/	FTX60E	/	/



RATCHETS, SOCKETS, SOCKET SETS 3/8"

3/8" TORX® SOCKET; TEMPER RESISTENT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
T27	/	/	FTXR27E	7409TORX-R-T27	/
T30	/	/	FTXR30E	7409TORX-R-T30	/
T40	/	/	FTXR40E	7409TORX-R-T40	/
T45	/	/	FTXR45E	7409TORX-R-T45	/
T50	/	/	FTXR50E	7409TORX-R-T50	/



3/8" TORX® SOCKET; LONG

SIZE	BAHCO CODE
T25-L	7409TORX-T25-L
T27-L	7409TORX-T27-L
T30-L	7409TORX-T30-L
T40-L	7409TORX-T40-L
T45-L	7409TORX-T45-L
T50-L	7409TORX-T50-L



3/8" UNIVERSAL JOINT; STANDARD LENGTH

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
3/8	12021000*	428QR*	FUL8A*	/	/
3/8	12020000	428	FU8A	7768	J.240A



*Quick Release

3/8" ADAPTOR

DIN 3123/ISO 3316

HPQ® high performance steel

SIZE FEMALE	SIZE MALE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/4	3/8	11030002	409	TA3	7765	R.232
1/4	1/2	11030003	410	/	/	/
3/8	1/4	12030001	431	GFAT1E	7764	J.230
3/8	1/2	12030003	432	GAF2AQ	8164-1/2	J.232
1/2	3/8	13030002	513	GSAF1E	/	S.230



3/8" ADAPTOR; MAGNETIC RETAINER

SIZE FEMALE	SIZE MALE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/4	3/8	11030010	409M	/	7767	D.169RJ
3/8	1/2	12030010	432M	/	8167	D.169JS
1/2	3/4	13030010	514M	/	8967	D.196SK



RATCHETS, SOCKETS, SOCKET SETS 3/8"

3/8" EXTENSION; QUICK RELEASE

DIN 3123/ISO 3316

Patented

*Quick Release

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
3	12011001	427QR*	FXKL3A	/	/
5	/	/	/	/	J.210RC
6	12011002	427QR*	FXKL6A	/	/
8	/	/	FXKL8A	/	/
10	12011003	427QR*	/	/	J.215RC
11	/	/	FXKL11A	/	/
12	/	/	FXKL12A	/	/
20	/	/	/	/	J217RC
24	/	/	FXKL24A	/	/



3/8" EXTENSION; STANDARD

*Knurled

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1.5	12010005	427	FX1*	/	/
2	/	/	FX2*	/	J.208
3	12010001	427	FXK3*	7760	J.209
4	/	/	FXK4*	/	/
5	12010006	427	/	7761	J.210
6	12010002	427	FXK6*	/	/
8	/	/	/	7759	/
10	12010003	427	/	7762	J.215
11	/	/	FXK11*	/	/
18	12010004	427	FXK18*	/	/
20	/	/	/	/	J217
24	/	/	FX24A*	/	/
36	/	/	FX36*	/	/



3/8" EXTENSION; WOBBLE-DRIVE

*Knurled

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1.5	/	/	FXW1*	/	/
3	12010007	427W	FXWK3*	7760-W	J.209S
4	/	/	FXWK4*	/	/
5	12010008	427W	/	/	J.210S
6	12010009	427W	FXWK6*	7761-W	/
11	/	/	FXWK11*	/	/

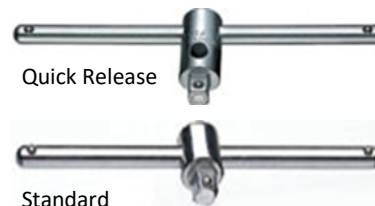


RATCHETS, SOCKETS, SOCKET SETS 3/8"

3/8" SLIDING T-HANDLE

*Quick Release

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
160	/	/	/	7754	/
165	12071000	425QR*	/	/	/
165	12070000	425	/	/	/
200	/	/	F5L	/	J.120A



3/8" DRIVE HANDLE

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
110	/	/	F40B	/	/
150	/	/	/	7757	/
260	/	/	SGF50BR	/	/



3/8" BREAKER BAR

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
240	/	/	F10LC	/	/
253	12061010	424	/	7758	J.140A
295	/	/	F12LA	/	/
330	/	/	FHBB12	/	/



3/8" RATCHET; STEEL HANDLE

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
190	/	/	F80	/	/
193	12110030	435SG-QR	/	/	/



3/8" RATCHET; SOFT HANDLE

* 80 Teeth Quick Release

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
193	12111010	435	/	/	/
193	12111020	435QR N*	/	/	/
210	/	/	/	7750SL	JL.161
215	/	/	/	7755	/
240	/	/	FHR80*	/	/
310	/	/	FHL80	/	/

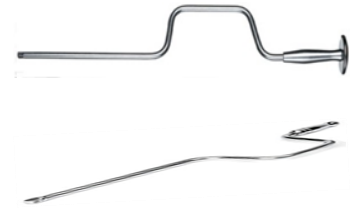


RATCHETS, SOCKETS, SOCKET SETS 3/8"

3/8" SPEEDER BRACE

*Detachable Palm Head

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
386.5	12100010	421			
408	12100002	453*	/	/	/
420	/	/	/	/	J.115
435	/	/	/	7752	/
450	/	/	F4LB	/	/
480	/	/	F4LBK	/	/



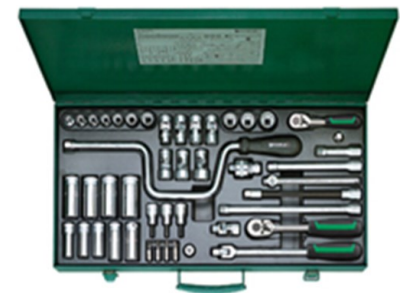
3/8" STAHLWILLE SOCKET SET; 46 PIECES

Code: 96024113

45a/33/13

Sturdy sheet steel case; 46 pieces

- 10 Sockets with Bi-Hexagon No 45a: Sizes 1/4; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4"
- 2 Sockets with Bi-Hexagon, long, with rubber insert, No 4600: Size 16 mm - 5/8"; No 46: Size 20.8 mm - 13/16"
- 7 Sockets with Bi-Hexagon, long, No 46a: Sizes 3/8; 7/16; 1/2; 9/16; 11/16; 3/4; 7/8"
- 7 UNIFLEX Sockets with Bi-Hexagon No 47a: Sizes 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4"
- 3 INHEX Sockets No 49a: Sizes 1/8; 5/32; 3/16"
- 4 Bits for Phillips Recessed-Head Screws Phillips-Recess® 1231: Size 1; 1232: Size 2; 1233: Size 3; 1234: Size 4
- 2 Ratchets No 415, No 435
- 1 Ratchet Adaptor No 445
- 3 Extensions No 427/3 (76 mm), No 427/6 (160 mm), No 427/10 (240 mm)
- 1 Flexible Extension No 434 (194 mm)
- 1 Adaptor No 409
- 1 Speeder Brace No 421
- 1 Flexible Handle No 424
- 1 T-Handle No 425
- 1 Universal Joint No 428
- 1 Bit-Holder No 443



3/8" STAHLWILLE SOCKET SET; 33 PIECES

Code: 96021122

45ma/28/5

Sturdy stackable ABS plastic case; 33 pieces

- 28 Sockets with Bi-Hexagon No 45: Sizes 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22 mm; No 45a: Sizes 1/4; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8"
- 1 Ratchet No 435
- 2 Extensions No 427/3 (76 mm), No 427/10 (240 mm)
- 1 T-Handle No 425
- 1 Universal Joint No 428



RATCHETS, SOCKETS, SOCKET SETS 3/8"

3/8" STAHLWILLE SOCKET SET; 22 PIECES

Code: 96025206

45a/14/8QR

Sturdy stackable ABS plastic case; 22 pieces

- 14 Sockets with Bi-Hexagon No 45a: Sizes 1/4; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8; 15/16; 1"
- 1 Ratchet No 435SG-QR
- 3 Extensions No 427/3QR (76 mm), No 427 6QR (160 mm), No 427/10QR (240 mm)
- 1 Universal Joint No 428QR
- 2 Bit-Holders No 442, No 443
- 1 Speeder Brace No 453



3/8" STAHLWILLE SOCKET SET; 30 PIECES

Code: 96025207

45a/22/8QR

Sturdy stackable ABS plastic case; 30 pieces

- 14 Sockets with Bi-Hexagon No 45a: Sizes 1/4; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8; 15/16; 1"
- 8 UNIFLEX Sockets with Bi-Hexagon No 47a: Sizes 5/16; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4"
- 1 Ratchet No 435SG-QR
- 3 Extensions No 427/3QR (76 mm), No 427/6QR (160 mm), No 427/10QR (240 mm)
- 1 Universal Joint No 428QR
- 2 Bit-Holders No 442, No 443
- 1 Speeder Brace No 453



RATCHETS, SOCKETS, SOCKET SETS 3/8"

3/8" BAHCO SOCKET SET; 17 PIECES

Code: A7440DZE

- A7400DZ
- 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8"
- 7755 - 3/8"
- 7758
- 7761



3/8" BAHCO SOCKET SET; 20 PIECES

Code: A7535DZE

- A7400DZ
- 1/4, 5/16, 3/8, 7/16, 1/2, 17/32, 9/16, 19/32, 5/8, 11/16, 3/4, 13/16, 7/8"
- 7755 - 3/8"
- 7758
- 7754
- 7752
- 7760: 55 Long
- 7762: 250 Long
- 7766



3/8" BAHCO SOCKET SET; 34 PIECES

Code: 7429JDE

- A7400DZ
- 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22
- 7755 - 3/8"
- 7757
- 7754
- 7409F
- 7409PH
- 7409M
- 7760, 7762: 75 + 250
- 7407H
- 7766



RATCHETS, SOCKETS, SOCKET SETS 1/2"

1/2" SOCKET; STANDARD LENGTH; INCHES 12-POINT; BOLT CLEARANCE

ASME B 107.1 FedSpec GGG-W 641 SAE AS 954-E (test loads)

HPQ® high performance steel, chrome plated

SIZE	STAHLWILLE CODE*	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
3/8	03410024	50a	SW121A	7800DZ-3/8	S.3/8
7/16	03410028	50a	SW141A	7800DZ-7/16	S.7/16
1/2	03410032	50a	SW161A	7800DZ-1/2	S.1/2
9/16	03410034	50a	SW181A	7800DZ-9/16	S.9/16
19/32	03410035	50a	/	7800DZ-19/32	S.19/32
5/8	03410036	50a	SW201	7800DZ-5/8	S.5/8
21/32	/	/	/	/	S.21/32
11/16	03410038	50a	SW221	7800DZ-11/16	S.11/16
3/4	03410040	50a	SW241	7800DZ-3/4	S.3/4
25/32	03410041	50a	/	7800DZ-25/32	S.25/32
13/16	03410042	50a	SW261	7800DZ-13/16	S.13/16
7/8	03410044	50a	SW281	7800DZ-7/8	S.7/8
15/16	03410046	50a	SW301	7800DZ-15/16	S.15/16
31/32	/	/	/	/	S.31/32
1	03410048	50a	SW321	7800DZ-1	S.1'
1 1/16	03410050	50a	SW341	7800DZ-1.1/16	S.1'1/16
1 1/8	03410052	50a	SW361	7800DZ-1.1/8	S.1'1/8
1 3/16	03410054	50a	SW381	7800DZ-.3/16	S.1'3/16
1 1/4	03410056	50a	SW401	7800DZ-1.1/4	S.1'1/4
1 5/16	03410058	50a	SW421	/	/
1 3/8	03410060	50a	SW441	/	/
1 7/16	03410062	50a	SW461	/	/
1 1/2	03410064	50a	SW481	/	/



*Stahlwille - Made in Germany

1/2" SOCKET; STANDARD LENGTH; METRIC 12-POINT; BOLT CLEARANCE

ASME B 107.5M DIN 3124/ISO2725-1 E DIN/EN3709

HPQ® high performance steel, chrome plated

SIZE	STAHLWILLE CODE*	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
8	03010008	50	/	7800DM-8	S8
9	03010009	50	/	7800DM-9	S9
10	03010010	50	SW101A	7800DM-10	S10
11	03010011	50	SWM111A	7800DM-11	S11
12	03010012	50	SWM121A	7800DM-12	S12
13	03010013	50	SWM131A	7800DM-13	S13
14	03010014	50	SWM141A	7800DM-14	S14
15	03010015	50	SWM151A	7800DM-15	S15
16	03010016	50	SWM161	7800DM-16	S16
17	03010017	50	SWM171	7800DM-17	S17
18	03010018	50	SWM181	7800DM-18	S18
19	03010019	50	SWM191	7800DM-19	S19
20	03010020	50	SWM201	7800DM-20	S20
21	03010021	50	SWM211	7800DM-21	S21
22	03010022	50	SWM221	7800DM-22	S22
23	03010023	50	SWM231	7800DM-23	S23
24	03010024	50	SWM241	7800DM-24	S24
25	03010025	50	SWM251	7800DM-25	S25
26	03010026	50	SWM261	7800DM-26	S26
27	03010027	50	SWM271	7800DM-27	S27
28	03010028	50	SWM281	7800DM-28	S28
29	03010029	50	SWM291	7800DM-29	S29
30	03010030	50	SWM301	7800DM-30	S30
31	03010031	50	SWM311	/	S31
32	03010032	50	SWM321	7800DM-32	S32
33	03010033	50	/	/	/
34	03010034	50	/	/	S34
36	/	50	/	7800DM-36	/



*Stahlwille - Made in Germany

RATCHETS, SOCKETS, SOCKET SETS 1/2"

1/2" SOCKET; LONG; INCHES 12-POINT; BOLT CLEARANCE

ASME B 107.1 FedSpec GGG-W 641 SAE AS 954-E (test loads) HPQ® high performance steel, chrome plated

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
3/8	03420024	51a	S121A	/	/
7/16	03420028	51a	S141A	/	/
1/2	03420032	51a	S161A	/	S.1/2LA
9/16	03420034	51a	S181A	/	S.9/16LA
5/8	03420036	51a	S201	/	S.5/8LA
11/16	03420038	51a	S221	/	S.11/16LA
3/4	03420040	51a	S241	/	S.3/4LA
13/16	03420042	51a	S261	/	S.13/16LA
7/8	03420044	51a	S281	/	S.7/8LA
15/16	03420046	51a	S301	/	S.15/16LA
1	03420048	51a	S321	/	S.1'LA
1 1/16	03420050	51a	S341	/	S.1'1/16LA
1 1/8	03420052	51a	S361	/	S.1'1/8LA
1 3/16	03420054	51a	S381	/	/
1 1/4	03420056	51a	S401	/	S.1'1/4LA
1 5/16	03420058	51a	S421	/	/
1 3/8	03420060	51a	S441	/	/
1 7/16	03420062	51a	S461	/	/
1 1/2	03420064	51a	S481	/	/



1/2" SOCKET; LONG; METRIC 12-POINT; BOLT CLEARANCE

ASME B 107.5M DIN 3124/ISO2725-1 E DIN/EN3709 E DIN/EN3710 HPQ® high performance steel, chrome plated

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
10	03020010	51	SM10A	7805DM	/
11	/	51	SM11A	/	/
12	/	51	SM12A	7805DM	S.12LA
13	03020013	51	SM13A	7805DM	S.13LA
14	03020014	51	SM14A	7805DM	S.14LA
15	03020015	51	SM15A	7805DM	S.15LA
16	/	/	SM16	7805DM	S.16LA
16-5/8*	03020016	51	/	/	/
17	03020017	51	SM17	7805DM	S.17LA
18	03020018	51	SM18	7805DM	S.18LA
19	03020019	51	SM19	7805DM	S.19LA
20	/	/	SM20	/	/
20,8-13/16 1*	/	51	/	/	/
21	03020021	51	SM21	7805DM	S.21LA
22	03020022	51	SM22	7805DM	S.22LA
23	/	/	SM23	/	S.23LA
24	03020024	51	SM24	7805DM	S.24LA
25	/	/	SM25	/	/
26	03020026	51	SM26	7805DM	S.26LA
27	03020027	51	SM27	7805DM	S.27LA
28	/	/	SM28	/	S.28LA
29	/	/	SM29	/	S.29LA
30	03020030	51	SM30	7805DM	S.30LA
31	/	/	SM31	/	/
32	03020032	51	SM32	/	S.32LA



*With rubber insert for spark plugs

RATCHETS, SOCKETS, SOCKET SETS 1/2"

1/2" SPLINE SOCKET; STANDARD LENGTH; INCHES 12-POINT; BOLT CLEARANCE

MS-33787 HPQ® high performance steel, gunmetal finish

SIZE	SPLINE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
3/8	12	03012024	50aPSP	/	/	/
7/16	14	03012028	50aPSP	/	/	/
1/2	16	/	/	SES161B	/	/
9/16	18	03012034	50aPSP	SES181B	/	/
5/8	20	/	/	SES201B	/	/
11/16	22	/	/	SES221B	/	/
3/4	24	/	/	SES241B	/	/
13/16	26	/	/	SES261B	/	/
7/8	28	/	/	SES281B	/	/
15/16	30	/	/	SES301B	/	/



1/2" SPLINE SOCKET; INCHES 12-POINT; BOLT CLEARANCE

SIZE	SPLINE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
7/16	14	03013028	50aPLSP	/	/	/



1/2" SPLINE SOCKET; EXTRA DEEP; INCHES 12-POINT; BOLT CLEARANCE

For the brakes on A320/A321 HPQ® high performance steel, gunmetal finish

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
25/32	03421041	51aP	/	/	/



1/2" INHEX SOCKET; STANDARD LENGTH; INCHES 6-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
3/16	/	/	/	7809Z-3/16	/
7/32	03450014	54a	/	/	/
1/4	03450016	54a	/	7809Z-1/4	ST.1/4
5/16	03450020	54a	SA10E	7809Z-5/16	ST.5/16
3/8	03450024	54a	SA12E	7809Z-3/8	ST.3/8
7/16	03450028	54a	SA14E	7809Z-7/16	ST.7/16
1/2	03450032	54a	SA16E	7809Z-1/2	ST.1/2
9/16	03450034	54a	SA18E	7809Z-17/32	ST.9/16
19/32	/	/	/	7809Z-9/16	/
5/8	03540036	54a	SA20E	7809Z-5/8	ST.5/8
3/4	03450040	54a	SA24E	/	ST.3/4



RATCHETS, SOCKETS, SOCKET SETS 1/2"

1/2" INHEX SOCKET; STANDARD LENGTH; METRIC 6-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
4	03050004	54	/	7809M-4	STM4
5	03050005	54	/	7809M-5	STM5
6	03050006	54	SAM6E	7809M-6	STM6
7	03050007	54	/	7809M-7	STM7
8	03050008	54	SAM8E	7809M-8	STM8
9	/	/	/	7809M-9	STM9
10	03050010	54	SAM10E	7809M-10	STM10
12	03050012	54	SAM12E	7809M-12	STM12
14	03050014	54	SAM14E	7809M-14	STM14
17	03050017	54	SAM17E	7809M-17	STM17
19	03050019	54	SAM19E	7809M-19	STM19



1/2" TORX® SOCKET; STANDARD LENGTH

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
T15	/	/	/	/	/
T20	03100020	54TX	/	7809TORX-T20	SXM.20
T25	03100025	54TX	/	7809TORX-T25	SXM.25
T27	03100027	54TX	/	7809TORX-T27	SXM.27
T30	03100030	54TX	/	7809TORX-T30	SXM.30
T40	03100040	54TX	/	7809TORX-T40	SXM.40
T45	03100045	54TX	/	7809TORX-T45	SXM.45
T50	03100050	54TX	/	7809TORX-T50	SXM.50
T55	03100055	54TX	STX55E	7809TORX-T55	SXM.55
T60	03100060	54TX	STX60E	7809TORX-T60	SXM.60
T70	03100070	54TX	STX70E	/	/



1/2" TORX® SOCKET; TEMPER RESISTENT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
T20	03110020	54TXB	/	/	/
T25	03110025	54TXB	/	/	/
T27	03110027	54TXB	/	/	/
T30	03110030	54TXB	/	/	/
T40	03110040	54TXB	/	/	/
T45	03110045	54TXB	/	/	/
T50	03110050	54TXB	/	/	/
T55	03110055	54TXB	/	/	/
T60	03110060	54TXB	/	/	/



RATCHETS, SOCKETS, SOCKET SETS 1/2"

1/2" TORX® SOCKET; LONG

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
T40	03131240	1054TX	FTXEL40E	7809TORX-T40-120	SX.40LA
T45	03131245	1054TX	FTXEL45E	7809TORX-T45-120	SX.45LA
T70	03131270	1054TX	/	7809TORX-T70-140	SX.70LA



1/2" UNIVERSAL JOINT; STANDARD LENGTH

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/2	13021000	510QR*	S8	/	/
1/2	13020000	510	/	8166-1/2	S.240A



*Quick Release

1/2" ADAPTOR

DIN 3123/ISO 3316 HPQ® high performance steel

SIZE FEMALE	SIZE MALE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/4	3/8	11030002	409	TA3	7765	R.232
1/4	1/2	11030003	410	/	/	/
3/8	1/4	12030001	431	GFAT1E	7764	J.230
3/8	1/2	12030003	432	GAF2A	8164-1/2	J.232
1/2	3/8	13030002	513	GSAF1F	8165-1/2	S.230
1/2	3/4	13030005	514	GLA12B	8964	S.232B
1/2	1"	58522089	7789-1	/	/	/



1/2" ADAPTOR; MAGNETIC RETAINER

SIZE FEMALE	SIZE MALE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/4	3/8	11030010	409M	/	7767	D.169RJ
3/8	1/2	12030010	432M	/	8167	D.169JS
1/2	3/4	13030010	514M	/	8967	D.196SK



1/2" EXTENSION

DIN 3123/ISO 3316 Patented *Quick Release

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
52	13011001	509QR*	/	/	/
75	13011004	509QR*	SXLBP3'	/	/
130	13011002	509QR*	/	8160-B	/
155	/	/	SXLBP6'	/	/
250	/	/	/	/	S.210RC
255	13011003	509QR*	SXLBP10'	/	S.215RC
500	/	/	/	/	S.217RC

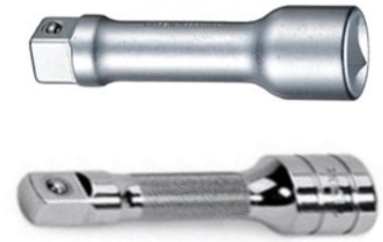


RATCHETS, SOCKETS, SOCKET SETS 1/2"

1/2" EXTENSION; STANDARD

*Knurled

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
52	13001001	509	SX2*	/	S.206
75	13010004	510	SXK3*	/	/
125	/	/	/	/	/
130	13010002	511	SXK5*	/	S.208
200	/	/	SXK8*	/	/
250	/	/	/	/	/
255	13010003	512	/	/	S.210
280	/	/	SXK11*	/	/
380	/	/	SX15*	/	/
420	/	/	/	/	S.215
508	/	/	SX20*	/	/
610	/	/	SX24*	/	/
840	/	/	/	/	S.217
915	/	/	SX36*	/	/



1/2" EXTENSION; WOBBLE-DRIVE

*Knurled

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
50	/	/	SXW2*	/	/
52	13010005	509W	/	/	/
75	13010006	509W	SXWK3*	8159W	/
125	/	/	/	8160W	/
130	13010007	509W	SXWK5*	/	S.205S
200	/	/	SXWK8*	/	/
250	/	/	/	8162W	/
255	13010008	509W	/	/	S.210S
280	/	/	SXWK11*	/	/
420	/	/	/	/	S.215S



1/2" SLIDING T-HANDLE

*Quick Release

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
300	13071000	*506QR	/	/	/
300	13070000	506	S12L	8154-1/2	/
408	/	/	/	/	S.120A



RATCHETS, SOCKETS, SOCKET SETS 1/2"

1/2" BREAKER BAR

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
275	/	/	/	/	S.140A
349.5	/	/	/	/	S.141A
390	/	/	8158-1/2	/	/
397	13061012	504-15	/	/	/
469	13061018	504-18	/	/	/
600	13061024	504-24	/	/	/



1/2" RATCHET; STEEL HANDLE

*Quick Release

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
265	13110030	512SG-QR*	/	/	/
260	/	/	S80	/	/



Quick Release



Steel Handle

1/2" RATCHET; SOFT HANDLE

*Quick Release

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
210	/	/	/	/	/
265.5	13111110	512G	/	/	S.161B
265.5	12111020	512QR N*	/	/	/
270	/	/	/	8150-1/2	/
300	/	/	SHR80A	/	/



1/2" SPEEDER BRACE

*Detachable Palm Head **Locking Type *** PVC Handle

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
402	/	/	/	/	S.110***
417	/	/	/	8152-1/2	/
456	13100002	501B*	/	/	/
456	13100010	501	/	/	/
480	/	/	SL4**	/	/
480	/	/	S4	/	/



RATCHETS, SOCKETS, SOCKET SETS 1/2"

1/2" STAHLWILLE SOCKET SET; 40 PIECES

Code: 96033501

87a

Sturdy sheet steel case; 40 pieces

- 15 Sockets with Bi-Hexagon No 50a: Sizes 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8; 15/16; 1; 1 1/16; 1 1/8; 1 3/16; 1 1/4"
- 2 Sockets, long, rubber insert No 51: Sizes 16 mm - 5/8"; 20.8 mm - 13/16"
- 5 INHEX Sockets No 54a: Sizes 7/32; 1/4; 5/16; 3/8; 1/2 "
- 12 Combination Spanners No 13a: Sizes 1/4; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 5/8; 11/16; 3/4; 13/16; 7/8"
- 1 Ratchet No 512
- 3 Extensions No 509/2 (52 mm), No 509/5 (130 mm), No 509/10 (255 mm)
- 1 T-Handle No 506
- 1 Universal Joint No 510



1/2" STAHLWILLE SOCKET SET; 23 PIECES

Code: 96035125

50a/17/6

Sturdy sheet steel case; 23 pieces

- 17 Sockets with Bi-Hexagon No 50a: Sizes 3/8; 7/16; 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 25/32; 13/16; 7/8; 15/16; 1; 1 1/16; 1 1/8; 1 3/16; 1 1/4"
- 1 Ratchet No 512
- 3 Extensions No 509/2 (52 mm), No 509/5 (130 mm), No 509/10 (255 mm)
- 1 T-Handle No 506
- 1 Universal Joint No 510



1/2" STAHLWILLE SOCKET SET; 45 PIECES

Code: 96030140

50ma/39/6N

Sturdy sheet steel case; 45 pieces

- 39 Sockets with Bi-Hexagon No 50: sizes 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25; 26; 27; 28; 30; 32; 34 mm; No 50a: sizes 3/8; 7/16; 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 25/32; 13/16; 7/8; 15/16; 1; 1 1/16; 1 1/8; 1 3/16; 1 1/4"
- 1 Ratchet No 512
- 3 Extensions No 509/3 (75 mm), No 509/5 (130 mm), No 509/10 (255 mm)
- 1 T-Handle No 506
- 1 Universal Joint No 510



COMBINATION SPANNERS

COMBINATION SPANNER; STANDARD LENGTH; INCHES 12-POINT

ASME B 107.100 SAE AS954G

SIZE	STAHLWILLE CODE*	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
3/16	40481212	13a	/	/	/
13/64	40481313	13a	/	/	/
7/32	40481414	13a	/	/	/
15/64	40481515	13a	/	/	/
1/4	40481616	13a	OEX8B	111Z-1/4	440.1/4
9/32	40481818	13a	/	/	/
5/16	404825020	13a	OEX10B	111Z-5/16	440.5/16
11/32	40482222	13a	OEX11B	/	440.11/32
3/8	40482424	13a	OEX12B	111Z-3/8	440.3/8
7/16	40482828	13a	OEX14B	111Z-7/16	440.7/16
1/2	40483232	13a	OEX16B	111Z-1/2	440.1/2
9/16	40483434	13a	OEX18B	111Z-9/16	440.9/16
19/32	40483535	13a	/	/	/
5/8	40483636	13a	OEX20B	111Z-5/8	440.5/8
11/16	40483838	13a	OEX22B	111Z-11/16	440.11/16
3/4	40484040	13a	OEX24B	111Z-3/4	440.3/4
25/32	40484141	13a	/	/	/
13/16	40484242	13a	OEX26B	111Z-13/16	440.13/16
7/8	40484444	13a	OEX28B	111Z-7/8	440.7/8
15/16	40484646	13a	OEX30B	111Z-15/16	440.15/16
1"	40484848	13a	OEX32B	111Z-1	440.1'
1 1/16	40485050	13a	OEX34B	111Z-1.1/16	4401'1/16
1 1/8	40485252	13a	OEX36B	111Z-1.1/8	440.1'1/8
1 3/16	40485454	13a	OEX38B	/	/
1 1/4	40485656	13a	OEX40B	111Z-1.1/4	4401'1/4
1 5/16	40485858	13a	OEX42B	111Z-1.5/16	440.1'5/16
1 3/8	40486060	13a	OEX44B	111Z-1.3/8	440.1'3/8
1 7/16	40486262	13a	OEX46B	111Z-1.7/16	440.1'7/16
1 1/2	40486464	13a	OEX48B	111Z-1.1/2	4401'1/2
1 9/16	/	13a	OEX50B	/	/
1 5/8	40486666	13a	OEX52B	111Z-1.5/8	/
1 11/16	/	13a	OEX54A	111Z-1.11/16	/
1 3/4	/	13a	OEX56A	111Z-1.3/4	/
1 13/16	40486969	13a	OEX58A	111Z-1.13/16	/
1 7/8	40487070	13a	OEX60A	111Z-1.7/8	/
2"	40487272	13a	OEX64A	111Z-2	/



COMBINATION SPANNERS

COMBINATION SPANNER; STANDARD LENGTH; METRIC 12-POINT

SIZE	STAHLWILLE CODE*	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
5.5	40085500	13	/	111M-5.5	440.5,5H
6	40080606	13	/	111M-6	440.6
7	40080707	13	/	111M-7	440.7
8	40080808	13	OEXM80B	111M-8	440.8
9	40080909	13	OEXM90B	111M-9	440.9
10	40081010	13	OEXM100B	111M-10	440.10
11	40081111	13	OEXM110B	111M-11	440.11
12	40081212	13	OEXM120B	111M-12	440.12
13	40081313	13	OEXM130B	111M-13	440.13
14	40081414	13	OEXM140B	111M-14	440.14
15	40081515	13	OEXM150B	111M-15	440.15
16	40081616	13	OEXM160B	111M-16	440.16
17	40081717	13	OEXM170B	111M-17	440.17
18	40081818	13	OEXM180B	111M-18	440.18
19	40081919	13	OEXM190B	111M-19	440.19
20	40082020	13	OEXM200B	111M-20	440.20
21	40082121	13	OEXM210B	111M-21	440.21
22	40082222	13	OEXM220B	111M-22	440.22
23	40082323	13	OEXM230B	111M-23	440.23
24	40082424	13	OEXM240B	111M-24	440.24
25	40082525	13	OEXM250B	111M-25	440.25
26	40082626	13	OEXM260B	111M-26	440.26
27	40082727	13	OEXM270B	111M-27	440.27
28	40082828	13	OEXM280B	111M-28	440.28
29	40082929	13	OEXM290B	111M-29	440.29
30	40083030	13	OEXM300B	111M-30	440.30
31	/	/	OEXM310	111M-31	/
32	40083232	13	OEXM320B	111M-32	440.32
33	/	/	/	111M-33	440.33
34	40083434	13	OEXM340B	111M-34	440.34
35	/	/	/	/	440.35
36	40083636	13	OEXM360B	111M-36	440.36
38	40083838	13	/	111M-38	440.38
41	40084141	13	/	111M-41	440.41



COMBINATION SPANNERS

COMBINATION SPANNER; EXTRA LONG; INCHES 12-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
3/8	/	/	OEXL12B	/	/
7/16	/	/	OEXL14B	/	/
1/2	/	/	OEXL16B	/	/
9/16	/	/	OEXL18B	/	/
5/8	/	/	OEXL20B	/	/
11/16	/	/	OEX22B	/	/
3/4	/	/	OEX24B	/	/
13/16	/	/	OEX26B	/	/
7/8	/	/	OEX28B	/	/
15/16	/	/	OEX30B	/	/
1"	/	/	OEX32B	/	/



COMBINATION SPANNER; EXTRA LONG; METRIC 12-

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
10	/	/	OEXLM10B	/	/
11	/	/	OEXLM11B	/	/
12	/	/	OEXLM12B	/	/
13	/	/	OEXLM13B	/	/
14	/	/	OEXLM14B	/	/
15	/	/	OEXLM15B	/	/
16	/	/	OEXLM16B	/	/
17	/	/	OEXLM17B	/	/
18	/	/	OEXLM18B	/	/
19	/	/	OEXLM19B	/	/



COMBINATION SPANNER HPQ FOR ENGINE DISASSEMBLY

Fed.Spec.GGG-W-636E

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/4	40571616	130a	/	/	/
9/32	40571818	130a	/	/	/
5/16	40572020	130a	/	/	/
11/32	40572222	130a	/	/	/
3/8	40572424	130a	/	/	/
7/16	40572828	130a	/	/	/
1/2	40573232	130a	/	/	/
9/16	40573434	130a	/	/	/



COMBINATION SPANNERS

COMBINATION SPANNERS; SPLINE DRIVE

MS-33787

MIL-W-8982

HPQ for engine disassembly

High performance steel

SIZE	SPLINE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/4	8	40571616	130aSP	OES8B	/	/
5/16	10	40572020	130aSP	OES10B	/	/
3/8	12	40572424	130aSP	OES12B	/	/
7/16	14	40572828	130aSP	OES14B	/	/
1/2	16	40573232	130aSP	OES16B	/	/
9/16	18	40573434	130aSP	OES18B	/	/
5/8	20	/	/	OES20B	/	/
11/16	22	/	/	OES22B	/	/
3/4	24	/	/	OES24B	/	/



COMBINATION SPANNER; MIDGET; INCHES 12-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
3/16	/	/	OXI6B	/	/
7/32	/	/	OXI7B	/	/
1/4	/	/	OXI8B	/	/
9/32	/	/	OXI9B	/	/
5/16	/	/	OXI10B	/	/
11/32	/	/	OXI11B	/	/
3/8	/	/	OXI12B	/	/
7/16	/	/	OXI14B	/	/
1/2	/	/	OXI16B	/	/
9/16	/	/	OXI18B	/	/
5/8	/	/	OXI20B	/	/
11/16	/	/	OXI22B	/	/
3/4	/	/	OXI24B	/	/



COMBINATION SPANNER; MIDGET; METRIC 12-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
6	/	/	OXIM6B	/	/
7	/	/	OXIM7B	/	/
8	/	/	OXIM8B	/	/
9	/	/	OXIM9B	/	/
10	/	/	OXIM10B	/	/
11	/	/	OXIM11B	/	/
12	/	/	OXIM12B	/	/
13	/	/	OXIM13B	/	/
14	/	/	OXIM14B	/	/
15	/	/	OXIM15B	/	/
16	/	/	OXIM16B	/	/
17	/	/	OXIM17B	/	/
18	/	/	OXIM18B	/	/
19	/	/	OXIM19B	/	/



COMBINATION SPANNERS

COMBINATION RATCHETING SPANNER; STANDARD LENGTH; INCHES 12-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/4	/	/	OEXR8	1RZ-1/4	/
5/16	/	/	OEXR10	1RZ-5/16	/
3/8	/	/	OEXR12	1RZ-3/8	/
7/16	/	/	OEXR14	1RZ-7/16	/
1/2	/	/	OEXR16	1RZ-1/2	/
9/16	/	/	OEXR18	1RZ-9/16	/
5/8	/	/	OEXR20	1RZ-5/8	/
11/16	/	/	OEXR22	1RZ-11/16	/
3/4	/	/	OEXR24	1RZ-3/4	/



COMBINATION RATCHETING SPANNER; STANDARD LENGTH; METRIC 12-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
6	/	/	OEXRM6	1RM-6	467.6
7	/	/	OEXRM7	1RM-7	467.7
8	41170808	17	OEXRM8	1RM-8	467.8
9	41170909	17	OEXRM9	1RM-9	467.9
10	41171010	17	OEXRM10	1RM-10	467.10
11	41171111	17	OEXRM11	1RM-11	467.11
12	41171212	17	OEXRM12	1RM-12	467.12
13	41171313	17	OEXRM13	1RM-13	467.13
14	41171414	17	OEXRM14	1RM-14	467.14
15	41171515	17	OEXRM15	1RM-15	467.15
16	41171616	17	OEXRM16	1RM-16	467.16
17	41171717	17	OEXRM17	1RM-17	467.17
18	41171818	17	OEXRM18	1RM-18	467.18
19	41171919	17	OEXRM19	1RM-19	467.19
20	/	/	OEXRM20	/	/
21	/	/	OEXRM21	1RM-21	467.21
22	/	/	OEXRM22	1RM-22	467.22
24	/	/	OEXRM24	1RM-24	467.24
27	/	/	/	1RM-27	467.27
30	/	/	/	1RM-30	467.30
32	/	/	/	1RM-32	467.32



DOUBLE RING SPANNERS

DOUBLE ENDED RING SPANNERS; EXTRA LONG 15° OFFSET; INCHES 12-POINT

SAE AS 954-E HPQ for engine disassembly High performance steel

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
7/32 X 1/4	41431416	220a	XDH78A	/	/
1/4 X 5/16	41431620	220a	XDH810B	/	/
5/16 X 3/8	/	/	XDH1012B	/	/
3/8 X 7/16	41432428	220a	XDH1214A	/	/
7/16 X 1/2	/	/	XDH1416A	/	/
1/2 X 9/16	41433234	220a	/	/	/
5/8 X 3/4	41433640	220a	XDH2024A	/	/
11/16 X 3/4	41433840	220a	XDH2226A	/	/
25/32 X 7/8	/	/	XDH2528	/	/



DOUBLE ENDED RING SPANNERS; EXTRA LONG 15° OFFSET; METRIC 12-POINT

SAE AS 954-E (test loads) (American sizes) HPQ for engine disassembly High performance steel

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
5.5 X 7	41035507	220	/	/	/
6 X 8	41030608	220	/	/	/
8 X 9	/	/	XDHM89	/	/
8 X 10	/	/	XDHM810	/	/
9 X 11	41030911	220	/	/	/
10 X 11	41031011	220	XDHM1011	/	/
10 X 12	/	/	XDHM1012	/	/
12 X 13	/	/	XDHM1213	/	/
12 X 14	41031214	220	XDHM1214	/	/
13 X 14	41031314	220	/	/	/
14 X 15	/	/	XDHM1415	/	/
14 X 17	/	/	XDHM1417	/	/
15 X 16	/	/	XDHM1516	/	/
17 X 19	41031719	220	XDHM1719	/	/
18 X 19	41031819	220	/	/	/
18 X 20	/	/	XDHM1820	/	/
19 X 22	41031922	220	/	/	/
20 X 22	41032022	220	/	/	/



DOUBLE RING SPANNERS

DOUBLE ENDED RING SPANNERS; EXTRA LONG 15° OFFSET; INCHES SPLINE DRIVE

MS-33787

MIL-W-8982

HPQ for engine disassembly

High performance steel

SIZE	SPLINE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
7/32 X 9/32	7 X 9	41160709	220aSP	XDES79A	/	/
1/4 X 5/16	8 X 10	41160810	220aSP	XDES810A	/	/
3/8 X 7/16	12 X 14	41161214	220aSP	XDES1214A	/	/
1/2 X 9/16	16 X 18	41161618	220aSP	XDES1618A	/	/
9/16 X 5/8	18 X 20	41161820	220aSP	XDES1820A	/	/
11/16 X 3/4	22 X 24	41152224	220aSP	XDES2224A	/	/
13/16 X 15/16	26 X 30	41162630	220aSP	XDES2630A	/	/
7/8 X 1"	28 X 32	41162832	220aSP	XDES2832A	/	/



OFFSET BOX SPANNERS 10°; SHORT HANDLE; INCHES 12-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
3/16 X 7/32	/	/	XS67A	/	/
1/4 X 5/16	41601620	180a	XS8140A	/	/
5/16 X 3/8	/	/	XS1012A	/	/
3/8 X 7/16	41602428	180a	XS1214A	/	/
7/16 X 1/2	/	/	XS1416A	/	/
1/2 X 9/16	41603234	180a	XS1618A	/	/
9/16 X 5/8	41603436	180a	XS1820A	/	/
5/8 X 3/4	/	/	XS2024A	/	/
11/16 X 13/16	/	/	XS2226A	/	/



RATCHETING BOX SPANNER 15° & 25°; STANDARD LENGTH; INCHES 12-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/4 X 5/16	/	/	/	/	65.65.1/4X5/16
5/16 X 3/8	/	/	BXOR1012	/	/
5/16 X 11/32	/	/	/	/	65.65.5/16X11/32
3/8 X 7/16	/	/	/	/	65.65.3/8X7/16
7/16 X 1/2	/	/	BXOR1416	/	/
1/2 X 9/16	/	/	/	/	65.65.1/2X9/16
9/16 X 5/8	/	/	BXOR1820	/	/
5/8 X 3/4	/	/	/	/	65.5/8X11/16
11/16 X 13/16	/	/	BXOR2224	/	/
3/4 X 13/16	/	/	/	/	65.3/4X13/16
7/8 X 15/16	/	/	/	/	65.7/8X15/16



DOUBLE RING SPANNERS

RATCHETING BOX SPANNER 15° & 25°; STANDARD LENGTH; METRIC 12-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
6 X 7	/	/	/	/	65.6X7
8 X 9	/	/	BXORM89	/	65.8X9
10 X 11	/	/	BXORM1011	/	65.10X11
12 X 13	/	/	BXORM1213	/	65.12X13
14 X 15	/	/	BXORM1415	/	65.14X15
16 X 17	/	/	BXORM1617	/	/
16 X 18	/	/	/	/	65.16X18
17 X 19	/	/	/	/	65.17X19
18 X 19	/	/	BXORM1819	/	/
21 X 23	/	/	/	/	65.21X23
22 X 24	/	/	/	/	65.22X24



RATCHETING BOX SPANNER 0°; STANDARD LENGTH; METRIC 12-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
6 X 7	/	/	/	1320RM	/
8 X 9	/	/	/	1320RM	/
10 X 11	/	/	/	1320RM	/
12 X 13	/	/	/	1320RM	/
14 X 15	/	/	/	1320RM	/
16 X 17	/	/	/	1320RM	/
18 X 19	/	/	/	1320RM	/



RATCHETING RING SPANNER 0°; STANDARD LENGTH; INCHES 12-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/4 X 5/16	41561620	25aN	R810C	/	/
5/16 X 11/32	41562022	25aN	R1011C	/	/
5/16 X 3/8	/	/	R1012C	/	/
3/8 X 7/16	41562428	25aN	R1214C	/	/
1/2 X 9/16	41563234	25aN	R1618C	/	/
5/8 X 11/16	41563638	25aN	R2022C	/	/
5/8 X 3/4	/	/	R2024C	/	/
3/4 X 13/16	/	/	R2426C	/	/
3/4 X 7/8	41564044	25aN	R2428C	/	/
13/16 X 15/16	41564246	25aN	R2630C	/	/
7/8 X 15/16	/	/	R2830C	/	/
15/16 X 1	/	/	R3032	/	/



DOUBLE RING SPANNERS

RATCHETING RING SPANNER 0°; STANDARD LENGTH; METRIC 12-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
7 X 8	41130708	25	RBM78C	/	/
8 X 10	/	/	RBM810C	/	/
9 X 10	41130910	25	RBM910C	/	/
10 X 11	41131011	25	RBM1011C	/	/
10 X 12	/	/	RBM1012C	/	/
12 X 13	41131213	25	RBM1213C	/	/
12 X 14	/	/	RBM1214C	/	/
14 X 15	41131415	25	RBM1415C	/	/
16 X 18	41131618	25	RBM1618C	/	/
17 X 19	41131719	25	RBM1719C	/	/



RATCHETING RING SPANNER 0° SPLINE; STANDARD LENGTH; INCHES 12-POINT

SIZE	SPLINE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/4 X 5/16	8 X 10	41570810	25aSP	RES810C	/	/
3/8 X 7/16	12 X 14	41571214	25aSP	RES1214C	/	/
1/2 X 9/16	16 X 18	41571618	25aSP	/	/	/
9/16 X 5/8	18 X 20	/	/	RES1820C	/	/
5/8 X 11/16	20 X 22	41572022	25aSP	/	/	/
3/4 X 7/8	24 X 28	41572428	25aSP	/	/	/
13/16 X 15/16	26 X 30	/	/	RES2630C	/	/



COMBINATION RATCHETING SPANNER 0°; STANDARD LENGTH; INCHES 12-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/4	/	/	/	1RZ	/
5/16	/	/	/	1RZ	/
3/8	/	/	OEXR12	1RZ	/
7/16	/	/	OEXR14	1RZ	/
1/2	/	/	OEXR16	1RZ	/
9/16	/	/	OEXR18	1RZ	/
5/8	/	/	OEXR20	1RZ	/
11/16	/	/	OEXR22	1RZ	/
3/4	/	/	OEXR24	1RZ	/



RING RATCHET SPANNERS

COMBINATION RATCHETING SPANNER 0°; STANDARD LENGTH; METRIC 12-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
6	/	/	/	/	467.6
7	/	/	/	/	467.7
8	41170808	17	OEXRM8	/	467.8
9	41170909	17	OEXRM9	/	467.9
10	41171010	17	OEXRM10	/	467.10
11	41171111	17	OEXRM11	/	467.11
12	41171212	17	OEXRM12	/	467.12
13	41171313	17	OEXRM13	/	467.13
14	41171414	17	OEXRM14	/	467.14
15	41171515	17	OEXRM15	/	467.15
16	41171616	17	OEXRM16	/	467.16
17	41171717	17	OEXRM17	/	467.17
18	41171818	17	OEXRM18	/	467.18
19	41171919	17	OEXRM19	/	467.19
21	/	/	/	/	467.21
22	/	/	/	/	467.22
24	/	/	/	/	467.24
27	/	/	/	/	467.27
30	/	/	/	/	467.30
32	/	/	/	/	467.32



COMBINATION RATCHETING SPANNER 15°; STANDARD LENGTH; INCHES 12-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/4	/	/	/	1RZ-1/4	/
5/16	/	/	/	1RZ-5/16	/
3/8	/	/	SOEXR12	1RZ-3/8	/
7/16	/	/	SOEXR14	1RZ-7/16	/
1/2	/	/	SOEXR16	1RZ-1/2	/
9/16	/	/	SOEXR18	1RZ-9/16	/
5/8	/	/	SOEXR20	1RZ-5/8	/
11/16	/	/	SOEXR22	1RZ-11/16	/
3/4	/	/	SOEXR24	1RZ-3/4	/



RING RATCHET SPANNERS

COMBINATION RATCHETING SPANNER 15°; STANDARD LENGTH; METRIC 12-POINT

SIZE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
6	/	/	/	1RM-6	467.6
7	/	/	/	1RM-7	467.7
8	/	/	OEXRM8	1RM-8	467.8
9	/	/	OEXRM9	1RM-9	467.9
10	/	/	OEXRM10	1RM-10	467.10
11	/	/	OEXRM11	1RM-11	467.11
12	/	/	OEXRM12	1RM-12	467.12
13	/	/	OEXRM13	1RM-13	467.13
14	/	/	OEXRM14	1RM-14	467.14
15	/	/	OEXRM15	1RM-15	467.15
16	/	/	OEXRM16	1RM-16	467.16
17	/	/	OEXRM17	1RM-17	467.17
18	/	/	OEXRM18	1RM-18	467.18
19	/	/	OEXRM19	1RM-19	467.19
21	/	/	/	1RM-21	467.21
22	/	/	/	1RM-22	467.22
24	/	/	/	1RM-24	467.24
27	/	/	/	1RM-27	467.27
30	/	/	/	1RM-30	467.30
32	/	/	/	1RM-32	467.32



RATCHET WRENCHES

FASTRATCH

Patent, specially suitable for union nuts. Using a single wrench, it is possible to tighten/loosen both metric and imperial nuts and bolts. Made of hardened and tempered stainless steel.

SIZE METRIC	SIZE INCHES	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
8	5/16	41100808	240	/	/	/
10	3/8	41101010	240	/	/	/
11	7/16	41101111	240	/	/	/
12	15/32	41101212	240	/	/	/
13	1/2	41101313	240	/	/	/
14	9/16	41101414	240	/	/	/
16	5/8	41101616	240	/	/	/
17	11/16	41101717	240	/	/	/
18	11/16	41101818	240	/	/	/
19	3/4	41101919	240	/	/	/



CROW RING SPANNER ADAPTER

CROW RING SPANNER; 1/4" DRIVE; INCHES

SIZE	SQUARE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
3/8	1/4	01490024	440a	AN85086B	/	/
7/16	1/4	01490028	440a	AN85087B	/	/
1/2	1/4	01490032	440a	AN85088B	/	/
9/16	1/4	01490034	440a	AN85089B	/	/

CROW RING SPANNER; 1/4" DRIVE; METRIC

SIZE	SQUARE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
8	1/4	0119008	440	/	/	/
9	1/4	0119009	440	/	/	/
10	1/4	0119010	440	/	/	/
11	1/4	0119011	440	/	/	/
12	1/4	0119012	440	/	/	/
13	1/4	0119013	440	/	/	/
14	1/4	0119014	440	/	/	/



CROW RING SPANNER; 3/8" DRIVE; INCHES

SIZE	SQUARE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE (CHROME-PLATED)
5/8	3/8	02490036	440a	AN850810B	/	J.5/8FL
11/16	3/8	02490038	440a	AN850811B	/	J.11/16FL
3/4	3/8	02490040	440a	AN850812B	/	J.3/4FL
13/16	3/8	02490042	440a	AN850813B	/	J.13/16FL
7/8	3/8	02490044	440a	AN850814B	/	J.7/8FL
15/16	3/8	02490046	440a	AN850815B	/	J.15/16FL
1"	3/8	02490048	440a	AN850816B	/	J.1PFL
1 1/16	3/8	02490050	440a	AN850817B	/	J.1P1/16FL



CROW RING SPANNER; 3/8" DRIVE; METRIC

SIZE	SQUARE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
12	3/8	/	/	ANM12	/	/
13	3/8	/	/	ANM13	/	/
14	3/8	/	/	ANM14	/	/
15	3/8	02190015	440	/	/	/
16	3/8	02190016	440	/	/	/
17	3/8	02190017	440	ANM17	/	/
18	3/8	02190018	440	/	/	/
19	3/8	02190019	440	ANM19	/	/
20	3/8	02190020	440	/	/	/
21	3/8	02190021	440	/	/	/
22	3/8	02190022	440	/	/	/
23	3/8	02190023	440	/	/	/
24	3/8	02190024	440	/	/	/
25	3/8	02190025	440	/	/	/
26	3/8	02190026	440	/	/	/
27	3/8	02190027	440	/	/	/



CROW RING SPANNER ADAPTER

CROW RING SPANNER; 1/2" DRIVE; INCHES

SIZE	SQUARE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1 1/8	1/2	03490052	440a	AN850818B	/	/
1.3/16	1/2	/	/	AN850819B	/	/
1 1/4	1/2	03490056	440a	AN850820B	/	/
1 5/16	1/2	03490058	440a	AN850821B	/	/
1 3/8	1/2	03490060	440a	AN850822B	/	/
1 7/16	1/2	03490062	440a	AN850823B	/	/
1 1/2	1/2	03490064	440a	AN850824B	/	/
1 9/16	1/2	03490065	440a	AN850825B	/	/
1 5/8	1/2	03490066	440a	AN850826B	/	/
1 11/16	1/2	/	/	AN850827B	/	/
1 3/4	1/2	03490068	440a	AN850828B	/	/
1 13/16	1/2	03490069	440a	AN850829B	/	/
1 7/8	1/2	/	/	AN850830B	/	/
1 15/16	1/2	/	/	AN850831B	/	/
2"	1/2	03490072	440a	AN850832B	/	/
2 1/8	1/2	/	/	AN850834B	/	/
2 3/16	1/2	/	/	AN850835B	/	/
2 1/4	1/2	03490076	440a	AN850836B	/	/
2 5/16	1/2	03490077	440a	/	/	/
2 3/8	1/2	03490078	440a	AN850838B	/	/
2 7/16	1/2	/	/	AN850839B	/	/
2 9/16	1/2	/	/	AN850841B	/	/
2 5/8	1/2	/	/	AN850842B	/	/
2 11/16	1/2	/	/	AN850843B	/	/
2 3/4	1/2	/	/	AN850844B	/	/
3 1/8	1/2	/	/	AN850845B	/	/



CROW RING SPANNER; 1/2" DRIVE; METRIC

SIZE	SQUARE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
28	1/2	03190028	440	/	/	/
30	1/2	03190030	440	/	/	/
32	1/2	03190032	440	/	/	/
34	1/2	03190034	440	/	/	/
36	1/2	03190036	440	/	/	/
38	1/2	03190038	440	/	/	/
40	1/2	03190040	440	/	/	/
41	1/2	03190041	440	/	/	/
42	1/2	03190042	440	/	/	/
46	1/2	03190046	440	/	/	/
50	1/2	03190050	440	/	/	/



CROW RING SPANNER ADAPTER

CROW RING SPANNER; 1/4" & 3/8" DRIVE; INCHES

EN 4108, for pipe unions with straight cylindrical involute toothing
Supersedes No 440 MJ

HPQ High performance steel, chrome plated
Caution! Modified settings on torque wrench

SIZE	SQUARE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
MJ10	1/4	01211010	440S MJ	/	/	/
MJ14	1/4	01211014	440S MJ	/	/	/
MJ16	3/8	01211016	440S MJ	/	/	/
MJ18	3/8	01211018	440S MJ	/	/	/
MJ20	3/8	01211020	440S MJ	/	/	/
MJ22	3/8	01211022	440S MJ	/	/	/
MJ24	3/8	01211024	440S MJ	/	/	/
MJ27	3/8	01211027	440S MJ	/	/	/
MJ30	3/8	01211030	440S MJ	/	/	/



ADAPTOR; 3/8" DRIVE; INCHES 12-POINT

SIZE	SQUARE	STAHLWILLE CODE (GUN FINISH)	STAHLWILLE HPQ CODE (GUN FINISH)	SNAP-ON CODE (CHROME-PLATED)	BAHCO CODE	FACOM CODE (CHROME-PLATED)
1/4	3/8	02470016	447a	FRDH81	/	J.1/4R
5/16	3/8	02470020	447a	FRDH101	/	J.5/16R
3/8	3/8	02470024	447a	FRDH121	/	J.3/8R
7/16	3/8	02470028	447a	FRDH141	/	J.7/16R
1/2	3/8	02470032	447a	FRDH161	/	J.1/2R
9/16	3/8	02470034	447a	FRDH181	/	J.9/16R
5/8	3/8	02470036	447a	FRDH201	/	J.5/8R



ADAPTOR; 3/8" DRIVE; METRIC 12-POINT

SIZE	SQUARE	STAHLWILLE CODE (GUN FINISH)	STAHLWILLE HPQ CODE (GUN FINISH)	SNAP-ON CODE (CHROME-PLATED)	BAHCO CODE	FACOM CODE (CHROME-PLATED)
7	3/8	02181007	447	/	/	J.7SPR
8	3/8	02181008	447	FRDHM8	/	J.8SPR
9	3/8	02181009	447	/	/	J.9SPR
10	3/8	02181010	447	FRDHM10	/	J.10SPR
12	3/8	/	/	FRDHM12	/	J.12SPR
13	3/8	02181013	447	FRDHM13	/	/
14	3/8	/	/	/	/	J.14SPR
15	3/8	/	/	FRDHM15	/	/
16	3/8	/	/	FRDHM16	/	J.16SPR
18	3/8	/	/	FRDHM18	/	J.18SPR
20	3/8	/	/	/	/	J.20SPR



CROW RING SPANNER ADAPTER

ADAPTOR; 3/8" & 1/2" DRIVE; INCHES; SPLINE DRIVE

MS-33787, MIL-W-8982

Caution! Modified settings on torque wrench

SIZE	SQUARE	SPLINE SIZE	STAHLWILLE CODE (GUN FINISH)	STAHLWILLE HPQ CODE (GUN FINISH)	SNAP-ON CODE (CHROME-PLATED)	BAHCO CODE	FACOM CODE
7/32	3/8	7	02480014	447aSP	FRES7	/	/
1/4	3/8	8	02480016	447aSP	FRES8	/	/
9/32	3/8	9	02480018	447aSP	FRES9	/	/
5/16	3/8	10	02480020	447aSP	FRES10	/	/
3/8	3/8	12	02480024	447aSP	FRES12	/	/
7/16	3/8	14	02480028	447aSP	FRES14	/	/
1/2	3/8	16	02480032	447aSP	FRES16	/	/
9/16	3/8	18	02480034	447aSP	FRES18	/	/
5/8	3/8	20	02480036	447aSP	FRES20	/	/
11/16	3/8	22	/	/	FRES22	/	/
3/4	3/8	24	/	/	FRES24	/	/
9/16	1/2	18	/	/	SRES18	/	/
5/8	1/2	20	/	/	SRES20	/	/
11/16	1/2	22	/	/	SRES22	/	/
3/4	1/2	24	/	/	SRES24	/	/
13/16	1/2	26	/	/	SRES26	/	/
7/8	1/2	28	/	/	SRES28	/	/
15/16	1/2	30	/	/	SRES30A	/	/



CROW FOOT SPANNER; 1/4" DRIVE; INCHES

SIZE	SQUARE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
1/4	1/4	/	/	TMCO8	/	/
5/16	1/4	/	/	TMCO10	/	/
3/8	1/4	01500024	540a	TMCO12	/	/
7/16	1/4	/	/	TMCO14	/	/
1/2	1/4	/	/	TMCO16	/	/
9/16	1/4	/	/	TMCO18	/	/



CROW FOOT SPANNER; 1/4" DRIVE; METRIC

SIZE	SQUARE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
7	1/4	/	/	TMCOM7	/	/
8	1/4	01200008	540a	TMCOM8	/	/
9	1/4	01200009	540a	TMCOM9	/	/
10	1/4	01200010	540a	TMCOM10	/	/
11	1/4	/	/	TMCOM11	/	/
12	1/4	/	/	TMCOM12	/	/
13	1/4	/	/	TMCOM13	/	/
14	1/4	/	/	TMCOM14	/	/



CROW FOOT SPANNER

CROW FOOT SPANNER; 3/8" DRIVE; INCHES

SIZE	SQUARE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
3/8	3/8	/	/	FCO12A	/	/
7/16	3/8	02500024	540a	FCO14A	/	/
1/2	3/8	02500028	540a	FCO16A	/	/
9/16	3/8	02500032	540a	FCO18A	/	/
5/8	3/8	02500034	540a	FCO20A	/	/
11/16	3/8	02500036	540a	FCO22A	/	/
3/4	3/8	02500040	540a	FCO24A	/	/
13/16	3/8	02500042	540a	FCO26A	/	/
7/8	3/8	02500044	540a	FCO28A	/	/
15/16	3/8	/	/	FCO30A	/	/
1"	3/8	02500048	540a	FCO32A	/	/
1 1/16	3/8	02500050	540a	FC34B	/	/
1 1/8	3/8	02500052	/	FC36A	/	/
1 3/16	3/8	02500054	540a	FC38A	/	/
1 1/4	3/8	02500056	/	FC40A	/	/
1 5/16	3/8	02500058	540a	FC42A	/	/
1 3/8	3/8	02500060	540a	FC44A	/	/
1 7/16	3/8	02500062	540a	FC46A	/	/
1 1/2	3/8	02500064	540a	FC48A	/	/
1 9/16	3/8	02500065	540a	FC50A	/	/
1 5/8	3/8	02500066	540a	FC52A	/	/
1 11/16	3/8	02500067	540a	FC54A	/	/
1 3/4	3/8	02500068	540a	FC56A	/	/
1 13/16	3/8	/	/	FC58A	/	/
1 7/8	3/8	02500070	540a	FC60A	/	/
1 15/16	3/8	/	/	FC62A	/	/
2"	3/8	2500072	540a	FC64A	/	/
2 1/16	3/8	/	/	FC66A	/	/
2 1/8	3/8	02500074	540a	FC68A	/	/
2 3/16	3/8	/	/	FC70A	/	/
2 1/4	3/8	02500076	540a	FC72A	/	/
2 5/16	3/8	/	/	FC74A	/	/
2 3/8	3/8	/	/	FC76A	/	/
2 7/16	3/8	/	/	FC78A	/	/
2 1/2	3/8	/	/	FC80A	/	/
2 9/16	3/8	/	/	FC82A	/	/
2 5/8	3/8	/	/	FC84A	/	/
2 11/16	3/8	/	/	FC86A	/	/
2 3/4	3/8	/	/	FC88A	/	/
2 13/16	3/8	/	/	FC90A	/	/
2 7/8	3/8	/	/	FC92A	/	/
2 15/16	3/8	/	/	FC94A	/	/
3"	3/8	/	/	FC96A	/	/



CROW FOOT SPANNER

CROW FOOT SPANNER; 3/8" DRIVE; METRIC

SIZE	SQUARE	STAHLWILLE CODE	STAHLWILLE HPQ CODE	SNAP-ON CODE	BAHCO CODE	FACOM CODE
9	3/8	/	/	FCOM9A	/	/
10	3/8	/	/	FCOM10A	/	/
11	3/8	02200011	540	FCOM11A	/	/
12	3/8	02200012	540	FCOM12A	/	/
13	3/8	02200013	540	FCOM13A	/	/
14	3/8	02200014	540	FCOM14A	/	/
15	3/8	02200015	540	FCOM15A	/	/
16	3/8	02200016	540	FCOM16A	/	/
17	3/8	02200017	540	FCOM17A	/	/
18	3/8	02200018	540	FCOM18A	/	/
19	3/8	02200019	540	FCOM19A	/	/
20	3/8	02200020	540	FCOM20A	/	/
21	3/8	02200021	540	FCOM21A	/	/
22	3/8	02200022	540	FCOM22A	/	/
23	3/8	02200023	540	FCOM23A	/	/
24	3/8	02200024	540	FCOM24A	/	/
25	3/8	02200025	540	/	/	/
26	3/8	02200026	540	/	/	/
27	3/8	02200027	540	/	/	/
28	3/8	02200028	540	/	/	/
30	3/8	02200030	540	/	/	/
32	3/8	02200032	540	/	/	/
34	3/8	02200034	540	/	/	/
36	3/8	02200036	540	/	/	/
40	3/8	02200040	540	/	/	/
41	3/8	02200041	540	/	/	/
42	3/8	02200042	540	/	/	/
46	3/8	02200046	540	/	/	/
50	3/8	02200050	540	/	/	/



CROW FOOT SPANNER


CROW FOOT SPANNER; 3/8" + 1/2" DRIVE; INCHES HEAVY DUTY

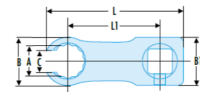
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9/16	3/8	02501034	540a HD	/	/	/
5/8	3/8	02501036	540a HD	/	/	/
11/16	3/8	02501038	540a HD	/	/	/
13/16	3/8	02501042	540a HD	/	/	/
7/8	3/8	02501044	540a HD	/	/	/
15/16	3/8	02501046	540a HD	SCO30	/	/
1"	3/8	02501048	540a HD	SCO32	/	/
1 1/16	3/8	02501050	540a HD	/	/	/
1 1/16	1/2	/	/	SCO34	/	/
1 1/8	3/8	02501052	540a HD	/	/	/
1 1/8	1/2	/	/	SCO36	/	/
1 3/16	1/2	/	/	SCO38	/	/
1 1/4	3/8	02501056	540a HD	/	/	/
1 1/4	1/2	/	/	SCO40	/	/
1 5/16	1/2	/	540a HD	SCO42	/	/
1 3/8	1/2	/	/	SCO44	/	/
1 7/16	3/8	02501062	540a HD	/	/	/
1 7/16	1/2	/	/	SCO46	/	/
1 1/2	1/2	02501064	540a HD	SCO48	/	/
1 5/8	1/2	/	/	SCO52	/	/
1 11/16	1/2	/	/	SCO54	/	/
1 3/4	1/2	/	/	SCO56	/	/
1 13/16	1/2	02501069	540a HD	SCO58	/	/
1 7/8	1/2	/	/	SCO60	/	/
2"	1/2	02501072	540a HD	SCO64	/	/
2 1/8	1/2	02501074	540a HD	SCO68	/	/
2 3/16	1/2	02501075	540a HD	/	/	/
2 1/4	1/2	02501076	540a HD	/	/	/






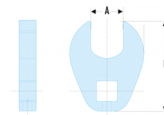
1/4 DRIVE

REFERENCES 						
	A ["]	B [mm]	C [mm]	L1 [mm]	L [mm]	gr
R.1/4FLA	1/4	11,9	4,5	36,3	36,3	13
R.5/16FLA	5/16	13,3	5,8	36,8	36,8	12,5
R.3/8FLA	3/8	15,7	7	38	38	14




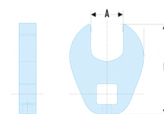
1/4 DRIVE

REFERENCES 				
	A ["]	Thickness (mm)	L [mm]	gr
R.1/4CF	1/4	5,5	23,1	9
R.5/16CF	5/16	5,5	24,8	14
R.3/8CF	3/8	5,5	26,4	16
R.7/16CF	7/16	5,5	28	18
R.1/2CF	1/2	5,5	29,6	23
R.9/16CF	9/16	5,5	31,2	25




1/4 DRIVE

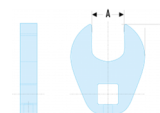
REFERENCES 				
	A ["]	Thickness (mm)	L [mm]	gr
R.7CF	7	5,5	23,6	9
R.8CF	8	5,5	24,9	14
R.9CF	9	5,5	25,9	16
R.10CF	10	5,5	26,8	14
R.11CF	11	5,5	28,7	18
R.12CF	12	5,5	29,8	23
R.13CF	13	5,5	30,3	25
R.14CF	14	5,5	32,3	27






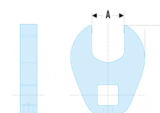
3/8 DRIVE

REFERENCES 				
	A ["]	Thickness [mm]	L [mm]	gr
J.3/8CF	3/8	8	32,3	27
J.7/16CF	7/16	8	33,1	29
J.1/2CF	1/2	8	35,8	32
J.9/16CF	9/16	8	40	35
J.5/8CF	5/8	8	42,1	41
J.11/16CF	11/16	8	47,5	45
J.3/4CF	3/4	8	48,5	50
J.13/16CF	13/16	8	50	52
J.7/8CF	7/8	8	51,3	54
J.15/16CF	15/16	8	52,8	59
J.1PCF	1	8	54,1	70
J.1P1/16CF	1 1/16	8	55,3	109
J.1P1/8CF	1 1/8	8	56	115
J1P3/16.CF	1 3/16	8	57,6	120
J.1P1/4CF	1 1/4	8	59,5	122
J.1P5/16CF	1 5/16	8	61,9	125
J.1P3/8CF	1 3/8	8	63,4	131



3/8 DRIVE

REFERENCES 				
	A ["]	Thickness [mm]	L [mm]	gr
J.8CF	8	8	33,8	20
J.9CF	9	8	33,6	22
J.10CF	10	8	33,8	20
J.11CF	11	8	34,8	32
J.12CF	12	8	37,4	35
J.13CF	13	8	37,9	37
J.14CF	14	8	38,5	40
J.15CF	15	8	41,1	45
J.16CF	16	8	42,2	49
J.17CF	17	8	43,6	54
J.18CF	18	8	48,9	56
J.19CF	19	8	49,5	61
J.20CF	20	8	52,5	63
J.21CF	21	8	53,4	65
J.22CF	22	8	56,3	68
J.23CF	23	8	59,4	75
J.24CF	24	8	60,7	80
J.27CF	27	8	59,8	90
J.30CF	30	8	62,4	100
J.32CF	32	8	61,8	110



MECHANICAL TORQUE WRENCHES WITH INTERCHANGEABLE INSERTS

730N—BASIC WRENCHES WITH TOOL CARRIER FOR INSERT TOOLS

- Click-type
- Mount for interchangeable insert tools
- QuickRelease safety lock
- Fast, accurate setting thanks to QuickSelect quick-action adjuster
- Dual stop signal
- Easy-to-read double scale with color coding to differentiate between N·m/ft·lb and ft·lb/in·lb scales
- The measuring element is only under load while force is being applied, no need for manual reset to zero
- Can be applied for either clockwise or anticlockwise tightening by turning the inserts over
- Any force applied to the tool after the 'click' or applied in the opposite direction to the current function - e.g. forcible loosening of a jammed screw - does not act on the trigger mechanism and cannot cause damage to it
- Two-component handle with ergonomically designed green softer layers (resistant to oils, grease, fuels, brake fluids and Skydrol)
- Calibration using PerfectControl calibrating unit No 7794 or calibration system No 7706
- Adjustment without disassembly
- With certificate
- Registered design
- Display deviation value $\pm 3\%$



TORQUE WRENCHES WITH INSERT TOOLS 9 X 12 MM

CODE	SIZE	HIGH-GRADE SCALE					L		
							mm	gr	
50181002	730N/2	2-20 Nm	20-180 in·lb	1 Nm	10 in·lb	0,2 Nm	275	737	
50181005	730N/5	10-50 Nm	7-37 ft·lb	5 Nm	1 ft·lb	0,25 Nm	330	831	
50181010	730N/10	20-100 Nm	15-75 ft·lb	10 Nm	2,5 ft·lb	0,5 Nm	386	988	
50581002	730Na/2	20-180 in·lb	1,5-15 ft·lb	10 in·lb	0,5 ft·lb	2 in·lb	275	737	
50581005	730Na/5	90-450 in·lb	7-37 ft·lb	50 in·lb	1 ft·lb	2,5 in·lb	330	831	
50581010	730Na/10	180-900 in·lb	15-75 ft·lb	100 in·lb	2,5 ft·lb	5 in·lb	386	988	

TORQUE WRENCHES WITH INSERT TOOLS 14,5 X 18 MM

CODE	SIZE	HIGH-GRADE SCALE					L		
							mm	gr	
50181020	730N/20	40-200 Nm	30-150 ft·lb	10 Nm	5 ft·lb	1 Nm	467	1264	
50181040	730N/40	80-400 Nm	60-300 ft·lb	20 Nm	10 ft·lb	2 Nm	607	1655	
50581020	730Na/20	350-1800 in·lb	30-150 ft·lb	100 in·lb	5 ft·lb	10 in·lb	467	1264	
50581040	730Na/40	800-3600 in·lb	60-300 ft·lb	20 ft·lb	100 in·lb	2 ft·lb	607	1655	

MECHANICAL TORQUE WRENCHES WITH INTERCHANGEABLE INSERTS

TORQUE WRENCHES WITH INSERT TOOLS 24,5 X 28 MM



CODE	SIZE	HIGH-GRADE SCALE					L	
							mm	gr
50181365	730NII/65	130-650 Nm	100-480 ft-lb	50 Nm	20 ft-lb	2,5 Nm	911	3504

BASIC WRENCH WITH TOOL CARRIER FOR SHELL TOOLS 24,5 X 28 MM

CODE	SIZE	HIGH-GRADE SCALE					L	
							mm	gr
50180080	730/80	160-800 Nm	120-600 ft-lb	20 Nm	20 ft-lb	/	970	5377

730 - SERVICE MANOSKOP® TORQUE WRENCHES WITH MOUNT FOR INSERT TOOLS

- Click-type
- Mount for interchangeable insert/shell tools
- QuickRelease safety lock (sizes 5-65)
- Rapid setting (sizes 2-65)
- Dual stop signal
- Twin scales N·m/ft·lb and N·m/in·lb (sizes 5-80)
- The measuring element is only under load while force is being applied, no need for manual reset to zero
- Can be applied for either clockwise or anticlockwise tightening by turning the inserts over
- Any force applied to the tool after the 'click' or applied in the opposite direction to the current function - e.g. forcible loosening of a jammed screw - does not act on the trigger mechanism and cannot cause damage to it.
- Calibration using Perfect Control calibrating unit No 7794 or calibration system No 7706. Adjustment without disassembly.
- With certificate
- Display deviation value $\pm 4\%$

TORQUE WRENCHES WITH INSERT TOOLS 9 X 12 MM

CODE	SIZE	HIGH-GRADE SCALE		L	
				mm	gr
50180002	730/2	2-20 Nm	0,5 Nm	178.5	315
50180004	730/4	8-40 Nm	1 Nm	222	395
50580001	730/a/2-1	17,5-87,5 in.lbs	2,5 in.lbs	178.5	315
50580002	730/a2	30-175 in.lbs	5 in.lbs	178.5	315
50580004	730/a4	70-350 in.lbs	10 in.lbs	222	395









730/2

MECHANICAL TORQUE WRENCHES WITH INTERCHANGEABLE INSERTS

730/80 - SERVICE MANOSKOP® TORQUE WRENCH WITH MOUNT FOR SHELL TOOLS



CODE	NM	FT.LBS.	NM	FT.LBS.		LF	L	
					mm	mm	mm	gr
50180080	160-800	120-600	20	20	24,5x28	990	970	5377

1299-BITS

For inside hexagon screws, for operating the adjusting screws on torque wrenches No 720, 721, 730 and 730N.

CODE		
08090002		Outside DIN 3126/ISO 1173



Snap-on

TORQUE WRENCH BODY; ADJ. CLICK TYPE, U.S.; 40-200 IN-LB RANGE

- Interchangeable heads permit ratcheting, fixed, or open end torquing capability with adjustable torque wrench bodies
- A push of the locking pin provides quick-change action, with a wide range of head styles to choose from
- Selection - there are two adjustable models for quickly setting desired torque
- Slim Profile - each torque body is thin enough and long enough to get into tight areas
- Micrometer Type Adjustment - ensures fast, accurate settings and changes

PRODUCT SPECIFICATIONS	
Description	U.S. Adj. Click Type Torque Wrench
Increments	.5 ft-lb
Length, inches	13
Model	Adjustable
Range	5-75 ft-lb
Shank Dia.	J (0.425")
Country Of Origin	USA
Brand	Snap-on



TORQUE WRENCHES WITH INSERT TOOLS 9 X 12 MM

CODE	RANGE	SCALE	INCREMENTS	LENGTH, INCHES
QC2175	5 - 75 ft-lb	5ft-lb	0.5ft-lb	13

MECHANICAL TORQUE WRENCHES WITH INTERCHANGEABLE INSERTS



MECHANICAL TORQUE WRENCHES WITH INTERCHANGEABLE HEADS

- Body chrome-plated
- Easy readable scale
- Accuracy +/- 3% clockwise
- Adjustable on the handle
- Scale in Nm
- Interchangeable heads
- Rounded handle



TORQUE WRENCHES WITH INSERT TOOLS 9 X 12 MM

CODE	HIGH-GRADE SCALE					OVERALL LENGTH	
						mm	gr
6852-20	2-20 Nm	/	1 Nm	/	/	335	800
7452-100	10-100 Nm	/	5 Nm	/	/	380	900

TORQUE WRENCHES WITH INSERT TOOLS 14,5 X 18 MM

CODE	HIGH-GRADE SCALE					OVERALL LENGTH	
						mm	gr
7852-200	20-200 Nm	/	10 Nm	/	/	493	1300
7852-340	70-340Nm	/	/	/	/	/	1300

MECHANICAL TORQUE WRENCHES WITH INTERCHANGEABLE INSERTS



S.306R - CLICK WRENCHES WITH ATTACHMENT 20 X 7 MM | S.306-100R

Norm. NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy: $\pm 4\%$
- Reliability of mechanism: 25 000 cycles
- End fitting: 9 x 12 or 14 x 18 mm for accessories (ratchets, polygon and open end bits)
- One-way wrenches usable for unscrewing by reversing the bits
- Sensitive and sound click when reaching torque
- Automatic reset
- Supplied with ISO 6789 calibration certificate
- Supplied in plastic protection tube



REFERENCES	OVERALL LENGTH [MM]	ATTACHMENT	CAPACITY [NM]	GRADUATION [NM]	KG
J.208-50D	337	9x12	10 - 50	0,5	0,780
S.208-100D	396	9x12	20 - 100	1,0	0,920
S.208-200D	466	14X18	40 - 200	2,0	1,110
S.208.340D	466	14X18	60 - 340	2,0	1,430

306D - CLICK WRENCHES WITHOUT ACCESSORIES

- Factory accuracy: $\pm 2\%$ except: R.306-25D - K.306A600 - K.306A1000 ($\pm 4\%$) R.304DA ($\pm 6\%$)
- Reliability of mechanism: 50 000 cycles (wrenches up to 200 Nm)
- Use possible with accessories
- End fitting: 9 x 12 or 14 x 18 mm
- Diameter: 30 mm
- One-way wrenches usable for unscrewing by reversing the bits
- Numbered wrenches supplied with ISO 6789 calibration certificate
- Supplied in plastic box



REFERENCES	OVERALL LENGTH [MM]	ATTACHMENT	BOX	CAPACITY [NM]	GRADUATION [NM]	KG
R.304DA	185	9 X 12	BP.102	1-5	0.05	0.29
R.306-25D	271	9 X 12	BP.D1	5-25	0.1	.45
J.306-50D	357	9 X 12	BP.D2	10-50	1	0.93
S.306-100D	437	9 X 12	BP.D2	20-100	1	1.05
S.306-200D	515	14 X 18	BP.D3	40-200	1	1.26
S.306-350D	725	14 X 18	BP.D3	70-350	2	1.79
K.306-600D	945	14 X 18	BP.D600	120-600	2	4.6
K.306-1000D	1280	Ø 30 mm	BP.D1000	200-1000	4	5.9

MECHANICAL TORQUE WRENCHES WITH INTERCHANGEABLE INSERTS



CLICK WRENCHES WITH ATTACHEMENT 20 X 7 MM

- Factory accuracy: $\pm 2\%$
- Reliability of mechanism: 50,000 cycles (wrenches --> 200 Nm)
- Use possible with accessories attachment 20 x 7 mm
- One-way wrenches usable for unscrewing by reversing the bits
- Numbered wrenches supplied with ISO 6789 calibration certificate
- Wrenches supplied in plastic protection tube



REFERENCES	OVERALL		GRADUATION	
	LENGTH [MM]	CAPACITY [NM]	[NM]	KG
S.306-100R	420	20-100	1	1.04
S.306-200R	510	40-200	1	1.3
S.306-300R	698	70-350	2	1.89

306D - CLICK WRENCHES WITHOUT ACCESSORIES - RFID

NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Tool with built-in RFID chip for workshop traceability
- Chip integration by Facom guarantees maximum detection and strength, while preserving the tool's ergonomics
- Radio frequency identification requires appropriate
- Factory accuracy: $\pm 6\%$
- Reliability of mechanism: 50,000 cycles
- Compact wrench for confined access.
- Ratchet with 72 teeth (5°) for use with sockets
- One-way wrench
- Numbered wrench supplied with ISO 6789 calibration certificate

REFERENCES	OVERALL		GRADUATION		ATTACHMENT MM
	LENGTH [MM]	CAPACITY [NM]	[NM]	KG	
S.306-100DRFID	437	20-100	1	1,07	9X12
S.306-200DRFID	515	40-200	1	1,28	14X18
S.306-350DRFID	725	70-350	2	1,81	14X18




TORQUE WRENCH WITH PERMANENTLY INSTALLED HEAD




721 - STANDARD MANOSKOP® TORQUE WRENCHES WITH PERMANENTLY INSTALLED RATCHET

- Click-type
- Rapid setting
- Dual stop signal
- Twin scales N-m/ft-lb
- The measuring element is only under load while force is being applied, no need for manual reset to zero
- Any force applied to the tool after the 'click' or applied in the opposite direction to the current function - e.g. forcible loosening of a jammed screw - does not act on the trigger mechanism and cannot cause damage to it
- All the sensitive components are protected by the sturdy tubular steel housing
- Calibration using PerfectControl calibrating unit No 7794 or calibration system No 7706
- Adjustment without disassembly
- With certificate
- Display deviation value $\pm 4\%$

CODE	SIZE	NM RANGE	FT. LBS. RANGE	"	OVERALL LENGTH MM	GR 
50200005	5	6-50	5-36	3/8	352	900
50200015	15	30-150	25-110	1/2	452	1395
50200020	20	40-200	30-150	1/2	483	1490
50200030	30	60-300	50-220	1/2	553	1720



721QR - STANDARD MANOSKOP® TORQUE WRENCH WITH PERMANENTLY INSTALLED QUICKRELEASE RATCHET

CODE	SIZE	NM RANGE	FT. LBS. RANGE	"	OVERALL LENGTH MM	GR 
50204115	15	30-150	25-110	1/2	452	1268
50201020	20	40-200	30-150	1/2	483	1250




TORQUE WRENCH WITH PERMANENTLY INSTALLED HEAD



730NR - SERVICE MANOSKOP® TORQUE WRENCHES WITH PERMANENTLY INSTALLED FINE-TOOTH RATCHET

- Clicking torque wrench with mount for interchangeable insert tools using QuickSelect quick-action adjuster
- QuickRelease safety lock
- Double stop signals
- Very clear twin scales with color coded N m/ft.lb and ft.lb/ inch.lb markings and long-term repeated accuracy
- Measuring element is only under load while force is being applied, no need for manual reset to zero
- All the sensitive components are protected by the sturdy housing
- The 2-component handle with its ergonomically designed green softer layers is resistant to oils, grease, fuels, brake fluids and Skydrol
- Any force applied to the tool after the "click" or applied in the opposite direction to the current function - e.g. forcible loosening of a jammed screw - does not act on the trigger mechanism and cannot cause damage to it
- The swap-over inserts can also be used to apply torque in an anticlockwise direction
- Easily adjustable without disassembly, e.g. using tester No 7707 W
- Guaranteed maximum accuracy deviation $\pm 3\%$
- With certificate
- Deviation of indication $\pm 4\%$

CODE	SIZE	NM RANGE	FT. LBS. RANGE	"	OVERALL LENGTH MM	GR 
96503105	5FK	180-50	7-37	3/8	364	973
96503110	10FK	20-100	15-75	1/2	420	1146
96503120	20FK	40-200	30-150	1/2	513,5	1583
96502140	40FK	80-400	60-300	3/4	657	2657
96502265	65FK	130-650	100-480	3/4	944	3698



TORQUE WRENCH WITH PERMANENTLY INSTALLED HEAD



TORQUE WRENCH; ADJ. CLICK TYPE; U.S., FIXED; 15-75 FT-LB; 3/8" DRIVE

CODE		NM	FT-LB	NM	IN-LB	OVERALL LENGTH IN
QD275A	3/8	/	15-75	/	0.5	14-9/16



ADJUSTABLE FIXED-RATCHET CLICK TYPE TORQUE WRENCH

CODE		FT-LB	NM	FT-LB	NM	OVERALL LENGTH MM
QD1RN6A	1/4	/	1-6	/	0.05	9-7/8
QD1RN25A	1/4	/	5-25	/	0.1	11-3/4
QD2RN25A	3/8	/	5-25	/	0.1	11-3/4
QD3R250A	1/2	50-250	/	1	/	24-3/16
QD4RN800	3/4	/	150-800	/	5	42-3/4



FLEX-RATCHET NEWTON METER ADJUSTABLE CLICK TYPE TORQUE WRENCH

CODE		FT.LB.	NM	FT.LB.	NM	OVERALL LENGTH MM
TQFRN68B	3/8	/	14-68	/	2.0	17-5/8
TQFRN130B	3/8	/	25-130	/	5.0	17-5/8
TQFRN350D	1/2	/	70-350	/	5.0	22-1/8



TORQUE WRENCH WITH PERMANENTLY INSTALLED HEAD



TORQUE WRENCH; ADJ. CLICK TYPE; NEWTON METER OR IN.LB, FIXED RATCHET

CODE		IN-LB	N•M	IN-LB	NM	OVERALL LENGTH IN
QD1R50	1/4	10-50	/	0.5	/	9-7/8
QD1RN6A	1/4	/	1-6	/	0.5	9-7/8
QD1R200	1/4	40-200	/	1	/	11-1/16
QD1RN25A	1/4	/	5-25	/	1	11-3/4



TORQUE WRENCH; ADJ. CLICK TYPE; U.S.; FIXED; IN-LB

CODE		NM	FT.LB	NM	FT.LB	OVERALL LENGTH IN
QD2FR75	3/8	/	5-75	/	0.5	15-3/4
QD2R100A	3/8	/	20-100	/	0.5	15-9/16
QD2RN100A	3/8	/	20-100	/	0.5	15-9/16
QD4R600A	3/4	/	120-600	/	5	42-3/4
QD5R1000A	1	/	20-1000	/	5	71
QD3RN350A	1/2	70-350	/	2	/	24-3/16



TORQUE WRENCH WITH PERMANENTLY INSTALLED HEAD



FIXED RATCHET HEAD WITH 40 TEETH / 9° ACTION

- Mechanical torque wrench
- Internal adjusting screw, external preset locking screw
- Presetting can be performed by the end user on suitable inspection instrument
- All in metal for higher strength and durability
- Accuracy: $\pm 4\%$ CW and CCW
- Fixed presetting, no scale
- ISO 6789

CODE		NM	OVERALL LENGTH MM	GR
7451P-30	3/8	4-30	183	447
7451P-100	3/8	10-100	306	707
7851P-200	1/2	35-200	530	1250
7851P-340	1/2	60-340	630	1450



TORQUE WRENCHES WITH SCALE; FIXED RATCHET HEAD WITH 32 TEETH / 11.25° ACTION

- Mechanical torque wrench
- Accuracy: $\pm 3\%$
- ISO 6789

CODE		NM	NM	OVERALL LENGTH MM	GR
7451-20	3/8	2-20	1	355	900
7451-60	3/8	10-60	5	415	1100
7451-100	3/8	10-100	5	415	1100
7851-100	1/2	10-100	5	415	1100
7851-200	1/2	20-200	10	515	1300
7851-340	1/2	70-340	20	515	1300



TORQUE WRENCHES WITH SCALE; METAL HANDLE; FIXED RATCHET HEAD

- Accuracy: $\pm 4\%$ CW and CCW

CODE		NM	FT-LB	LBS-IN	OVERALL LENGTH MM	GR
7455-5	1/4	1-5	.74-3.7	8.9-44.3	258	386
7455-15	3/8	3-15	2.2-11.1	26.5-132.8	258	409
7455-20	3/8	4-20	3-14.8	35.4-177	258	386
7455-25	3/8	5-25	3.7-18.4	44.3-221.3	286	431
7455-60	3/8	10-60	7.4-44.3	88.5-531	406	1135
7455-100	3/8	20-100	14.8-73.8	177-885	406	1135
7455-200	1/2	40-200	29.5-147.5	354-1770	483	1430
7455-300	1/2	60-300	44.3-221.3	531-2655	457	1453
7455-340	1/2	60-340	44.3-221.3	531-3009	620	1430
7455-500	3/4	100-500	73.8-368.8	885-4425	870	4676
7455-800	3/4	150-800	110.6-590	1328-7051	1067	5380
7455-1500	1"	300-1500	221.3-1106.4	2655-13275	1778	11395



TORQUE WRENCH WITH PERMANENTLY INSTALLED HEAD



J-S.208A - CLICK WRENCHES WITH REMOVABLE RATCHET

NORM: NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy: $\pm 4\%$
- Reliability of mechanism: 25,000 cycles
- End fitting: 9 x 12 or 14 x 18 mm for accessories (ratchets, polygon and open end bits)
- One-way wrenches usable for unscrewing by reversing the bits
- Sensitive and sound click when reaching torque
- Automatic reset
- Supplied with ISO 6789 calibration certificate
- Supplied in plastic protection tube with ratchet

CODE		NM		WRENCH	RATCHET	OVERALL LENGTH MM	GR
J.208A50	3/8	10-50	9 x 12	J.208-50D	J.372V	337	780
S.208A100	1/2	20-100	9 x 12	S208-100D	S-372V	396	920
S.208A200	1/2	40-200	14 x 18	S208-200D	S-382V	466	1110
S.208A340	1/2	60-340	14 x 18	S208-340D	S-382V	618	1430

R-J-S.208 - CLICK WRENCHES WITH FIXED RATCHET

NORM: NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy: $\pm 4\%$
- Reliability of mechanism: 25,000 cycles
- Ratchet with 72 teeth (5° increment) for use with sockets
- One-way wrenches
- Sensitive and sound click when reaching torque
- Automatic reset
- Supplied with ISO 6789 calibration certificate
- Supplied in plastic protection tube

CODE		NM	HIGH GRADE SCALE	OVERALL LENGTH	GR
R.208-25	1/4	5-25	0,1	300	500
J.208-50	3/8	10-50	0,5	357	900
S.208-100	1/2	20-100	1,0	416	1040
S.208-200	1/2	40-200	2,0	479	1220
S.208-340	1/2	60-340	2,0	632	1540



TORQUE WRENCH WITH PERMANENTLY INSTALLED HEAD



"LOW TORQUE" CLICK WRENCH WITH FIXED RATCHET

NORM: NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Factory Accuracy: $\pm 6\%$
- Reliability of mechanism: 50,000 cycles
- Compact wrench for confined access
- Ratchet with 72 teeth (5°) for use with sockets
- One-way wrench
- Numbered wrench supplied with ISO 6789 calibration certificate
- Supplied in a box, dim. (L. x W.): 205 x 120 mm
- Supplied in plastic protection tube



CODE		NM	BOX	HIGH GRADE SCALE	OVERALL LENGTH	GR	
R.306-5	1/4	1-5	BP.102	0.05	197	300	

"LOW TORQUE" CLICK WRENCH WITH FIXED RATCHET - RFID | R.306-5RFID

NORM: NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Tool with built-in RFID chip for workshop traceability
- Chip integration by Facom guarantees maximum detection and strength, while preserving the tool's ergonomics
- Radio frequency identification requires appropriate storage equipment
- Factory accuracy: $\pm 2\%$. - Reliability of mechanism: 50,000 cycles
- Click wrenches with dual lbf.in and N.m graduation
- Full metal wrenches with knurled handle
- Reversible model
- Numbered wrenches supplied with ISO 6789 calibration certificate



CODE		NM	BOX	HIGH GRADE SCALE	OVERALL LENGTH	GR	
R.306-5	1/4	1-5	/	0.05	215	360	

R-J-S.306U - CLICK WRENCHES WITH DUAL lbf.in OR lbf.ft AND N.M GRADUATION

NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- 72 tooth mechanism for 5° increments
- Factory accuracy: $\pm 2\%$
- Reliability of mechanism: 50,000 cycles.
- Click wrenches with dual lbf.in or lbf.ft and Nm graduation
- Reversible model
- Full metal wrenches with knurled handle
- Numbered wrenches supplied with ISO 6789 calibration certificate
- Supplied in plastic box with ratchet



CODE			FT. LBS	HIGH-GRADE SCALE FT. LBS	LBF.IN	HIGH-GRADE SCALE LBF. IN	OVERALL LENGTH	GR	
R.306U	1/4		9 X 12	/	40-200	1	285	460	
J.306U	3/8		9 X 12	/	200-1000	5	379	1050	
S.306U	1/2		14 X 18	30-250	1	/	600	1630	

SERVICE/SERIES MANOSKOP®



730D - TORQUE WRENCHES; INDICATING & CLICK-TYPE

- Tactile and acoustic trigger signal
- Mount for interchangeable insert tools
- QuickRelease safety lock
- Fast setting using convenient keypad
- Automatic compensation to achieve correct tightening torque even if a changed extension is entered
- Overload protection by means of acoustic and visual signals
- Automatic keypad lock prevents inadvertent changes
- Angle-controlled measurements without a reference arm using Angle Module No 7395-1
- Display also works for anticlockwise torque
- Units of measurement: Nm, ft-lb, in-lb
- Different tolerance limits can be set for each joint
- Visual red and green signals in the display confirm the status of the joint
- Additional security for presets (function mode, trigger or preset value, unit of measurement, tolerance, save, deviating extension) using PIN code
- Up to 7,500 measurements can be stored
- USB interface
- Automatic notification of the next calibration date
- Calibration using PerfectControl calibrating unit No 7794 or calibration system No 7706
- Two-component handle with ergonomically designed green softer layers (resistant to oils, grease, fuels, brake fluids and Skydrol)
- Includes certificate
- Comes in sturdy plastic case (sizes 40-100 in steel case)
- Patent
- Supplied with two 1.5 V AA batteries. AA/LR6, 1.2 V rechargeable cells may also be used
- Display deviation value $\pm 2\%$, ± 1 digit



CODE	SIZE	SETTING / DISPLAY			RESOLUTION	MM	B MM	H MM	OVERALL LENGTH			GR	GR WITH BOX
		NM	FT.LBS	IN.LBS					MM	LF MM	SF MM		
96501710	10	10-100	7,4-75	90-900	0,2/0,1 Nm; 0,2/0,1 ft-lb;	9x12	28	23	467	426.5	17.5	1085	1510
96501720	20	20-200	15-150	180-1800	0,5/0,1 Nm; 0,5/0,1 ft-lb; 5/1,0 in-lb	14x18	28	23	548	515	25	1361	1896
96501740	40	40-400	30-300	360-3600	1,0/0,1 Nm; 1,0/0,1 ft-lb; 10/1,0 in-lb	14x18	28	23	688	655	25	1765	5155
96501765	65*	65-650	48-480	580-5800	1,0/0,1 Nm; 1,0/0,1 ft-lb; 10/1,0 in-lb	14x18	30.6	25.6	892	889	55	3300	6000
96501965	11/65	65-650	48-480	580-5800	1,0/0,1 Nm; 1,0/0,1 ft-lb; 10/1,0 in-lb	22x28	30.6	25.6	870	837	25	3300	6000
96502080	80	80-800	60-600	720-7200	1,0/1,0 Nm; 1,0/1,0 ft-lb; 10/1,0 in-lb	22x28	30.6	25.6	1160	1157	55	4577	10500
96502100	100	100-1000	74-750	900-9000	1,0/1,0 Nm; 1,0/1,0 ft-lb; 10/1,0 in-lb	22x28	30.6	25.6	1344	1341	55	4995	11000

* Recommended ratchet insert tool No. 735/40HD

SERVICE/SERIES MANOSKOP®

730DR - TORQUE WRENCHES WITH REVERSIBLE RATCHET INSERT TOOL



CODE	SIZE	NM	FT.LBS	IN.LBS	SETTING / DISPLAY RESOLUTION	MM	"	GR	GR WITH BOX
96501810	10	10-100	7,4-75	90-900	0,2/0,1 Nm; 0,2/0,1 ft.-lb;	9x12	1/2	1232	1657
96501820	20	20-200	15-150	180-1800	0,5/0,1 Nm; 0,5/0,1 ft.-lb;	14x18	1/2	1663	2198
96501840	40	40-400	30-300	360-3600	1,0/0,1 Nm; 1,0/0,1 ft.-lb;	14x18	3/4	2232	4722
96501865	65*	65-650	48-480	580-5800	1,0/0,1 Nm; 1,0/0,1 ft.-lb;	14x18	3/4	3767	6530
96501850	11/65	65-650	48-480	580-5800	1,0/0,1 Nm; 1,0/0,1 ft.-lb;	22x28	3/4	3994	9000
96501880	80	80-800	60-600	720-7200	1,0/1,0 Nm; 1,0/1,0 ft.-lb;	22x28	3/4	6492	12500
96501800	100	100-1000	74-750	900-9000	1,0/1,0 Nm; 1,0/1,0 ft.-lb;	22x28	3/4	6910	12500

7757-1-USB ADAPTOR

CODE	GR
52111057	10



7759-3 - USB ADAPTOR, JACK CABLE AND SOFTWARE NO 7732 FOR NO 730D

- Documentation and management of readings on a PC
- Read out stored wrench data and joint readings:
 - Joint identifier
 - Tool serial number
 - Date and time of tightening operation
 - Target torque or target angle
 - Torque level at which the tool cuts out
 - Tightening torque or angle reached
 - Tolerances
 - Joint evaluation
 - Storage of joint data in a database
 - Delete or print highlighted joints from the database
 - Export displayed joint data to a CSV file (compatible with Excel)
- 13 languages
- User management
- Define new PIN
- Delete joint data stored in wrench

System requirements:

- PC
- Microsoft Windows 98 SE or compatible operating system with USB support
- USB connection
- Installed ODBC driver for Access data



CODE	L M	GR
96583627	1.5	10

SERVICE/SERIES MANOSKOP®



7395-1 - ANGLE MODULE FOR NO 730D

- Patents applied for, angle-controlled measurement without a reference arm
- For torque wrenches No 730D (sizes 10-65) from software release 1.5.8
- Torque wrenches No 730D fitted with older releases of the software can be upgraded
- Simply attach the module and connect to the torque wrench interface and the No 730D can be used for angle controlled tightening
- The measurements are read off and settings made via the torque wrench
- When the preset snug point is reached, the torque wrench automatically switches over to angle-controlled measurement in degrees. Depending on the options selected, the torque wrench will either cut out when the preset angle is reached or an alarm is heard
- One 1.5 V battery is included in the package
- Deviation of indication $\pm 1\%$



CODE	GR	
96584628	500	

7161 - QUICKRELEASE SAFETY LOCK

- Prevents insert tools being swapped
- The system is locked in place on the head of the torque wrench by means of a safety screw
- Once the protection system has been fitted, it is possible to attach an insert tool but not to remove it because the Quick-Release unlock button itself is locked
- After the safety screw has been removed, the torque wrench reverts to being a standard, versatile tool
- The safety screw can be fitted and removed using a TORX® screwdriver with a central bore in the tip (No 4656, Size T20, Code 46 56 00 20) or a BITS screwdriver insert with a central bore in the tip (No 1442, Size T20, Code 08 16 00 20)

CODE	SIZE	FOR TORQUE WRENCHES NO.	GR	
54100070	1	714/1; 714/2; 714/4	1	
54100071	2	712R/6; 713R/6; 714/6; 714/10; 730/10; 730a/10; 730N/10; 730Na/10; 730D/10	5	
54100072	3	713R/20; 713R/40; 714/20; 714/40; 730/12; 730/20; 730/40; 730/65; 730a/12; 730a/20; 730N/12; 730N/20; 730N/40; 730N/65; 730Na/20; 730Na/40; 730D/20; 730D/40; 730D/65	11	
54100073	4	730/5; 730N/5	2	
54100074	5	714/65; 714/80; 714/100; 730II/65; 730NII/65; 730N/80; 730N/100; 730DII/65; 730D/80; 730D/100	15	



For other torque wrenches on request.

7396 - LED LIGHTING FOR TORQUE WRENCHES

If light is poor, simply attach this LED lamp to illuminate the work site. Included in the delivery is a 1.5 V micro battery. Supplied without torque wrench.

CODE	SIZE	FOR TORQUE WRENCHES NO.	GR	
54010004	1	712R/6; 713R/6; 713R/20; 713R/40; 714/6; 714/10; 714/20; 714/40; 721/5; 721/15; 721/20; 721/30; 730/5; 730/10; 730/12; 730/20; 730/40; 730a/5; 730a/10; 30a/12; 730a/20; 730N/5; 730N/10; 730N/12; 730N/20; 730N/40; 730Na/5; 730Na/10; 730Na/20; 730Na/40; 730D/10; 730D/20; 730D/40	51	



SERVICE/SERIES MANOSKOP®



714/1 - TORQUE WRENCH 1-10NM

- QuickRelease safety lock change system for insert tools
- Angle-controlled measurement without a reference arm
- Data storage (≤2500 tightening jobs)
- As many as 200 joints can be programmed in up to 25 preset sequences
- Rapid, accurate setting via keypad
- The automatic keypad lock prevents inadvertent changes
- Overload protection by means of acoustic and visual signals and a fail-safe system (clockwise)
- Automatic notification of the next calibration date, either by the number of joints or the time interval
- Fully automated calibrating and adjusting using the PerfectControl calibrating and adjusting unit No 7794-2 (torque) or 7794-3 (torque and angle)
- Units of measure: Nm, ft-lb, in-lb.
- Tightening torque is automatically corrected if a deviating extension is entered
- Immediately reusable after release
- Clockwise and anticlockwise tightening - it may be necessary to refit the insert tool rotated through 180° for anticlockwise tightening in the cut-out mode
- Tactile and acoustic trigger signal
- Torque and angle are simultaneously visible
- All readings are independent of the point of application of force (with sizes 1, 2 and 4)
- Safe handling due to ergonomically designed handle (resistant to oils, grease, fuels, brake fluid and Skydrol)
- 2 certificates (torque, angle)
- In sturdy plastic case (size 40-100 in steel case)
- Design patent, patent
- Supplied with SENSOMASTER Basic software, USB cable, 4 AAA/LR03 micro-batteries, 1.5 V. AAA, 1.2 V, micro NiMH rechargeable batteries can be used
- Display resolution, angle 0.1°
- Display deviation value, angle ±1%, ±1 digit
- Display resolution, torque ≤ 60 Nm: 0.01 Nm; > 60 Nm: 0.1 Nm
- Display deviation value, torque ±2%, ±1 digit



CODE	SIZE	NM	FT.LBS	IN.LBS	MM	B MM	H MM	L MM	LF MM	SF MM	GR	GR WITH BOX
96500901	1	1-10	0,7-7,5	9-90	9x12	28	23	226	188	17.5	370	795
96500902	2	2-20	1,5-15	18-180	9x12	28	23	226	188	17.5	380	805
96500904	4	4-40	3-30	36-360	9x12	28	23	252	214	17.5	420	845
96500906	6	6-60	4,5-45	54-540	9x12	28	23	393	355	17.5	810	1235
96500910	10	10-100	7,4-75	90-900	9x12	28	23	466	428	17.5	1085	1655
96500920	20	20-200	15-150	180-1800	14x18	28	23	547	516	25	1361	1896
96500940	40	40-400	30-300	360-3600	14x18	28	23	687	656	25	1765	5155
96500965	65	65-650	48-480	580-5800	22x28	30.6	25.6	890	890	55	3222	7000
96500980	80	80-800	60-600	720-7200	22x28	30.6	25.6	1158	1158	55	4572	10400
96500100	100	100-1000	74-750	900-9000	22x28	30.6	25.6	1343	1343	55	4990	10500

SERVICE/SERIES MANOSKOP®

714R - TIGHTENING ANGLE TORQUE WRENCHES WITH REVERSIBLE RATCHET INSERT TOOL

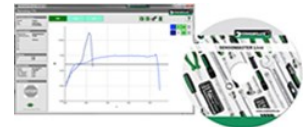
CODE	SIZE	"	NM	FT.LBS	IN.LBS	MM	GR	GR WITH BOX
96501001	1	1-10	0,7-7,5	9-90	9x12	28	370	795
96501002	2	2-20	1,5-15	18-180	9x12	28	380	805
96501004	4	4-40	3-30	36-360	9x12	28	420	845
96501006	6	6-60	4,5-45	54-540	9x12	28	810	1235
96501010	10	10-100	7,4-75	90-900	9x12	28	1085	1655
96501020	20	20-200	15-150	180-1800	14x18	28	1361	1896
96501040	40	40-400	30-300	360-3600	14x18	28	1765	5155
96501065	65	65-650	48-480	580-5800	22x28	30.6	3222	7000
96501080	80	80-800	60-600	720-7200	22x28	30.6	4572	10400
96501100	100	100-1000	74-750	900-9000	22x28	30.6	4990	10500



7732-2 - SENSOMASTER LIVE SOFTWARE

- Record tightening operations with the MANOSKOP® 714
- Representation of torque over time, angle over time, torque over angle
- Representation of several curves simultaneously
- Data export for further processing
- The software is for a single-seat license
- Torque wrenches 714/1 ... /100 must have firmware version 02.01.02

CODE	GR	
96585235	111	



7195-2 - LI-ION BATTERY FOR NO 714

Max. charge voltage 4.2 V, capacity 2600 mAh

CODE	GR	
54101195	100	



7160 - CHARGING DOCK FOR LI-ION BATTERY NO 7195-2

- Includes charger
- Input: 100 V-240 V AC
- Output: 4,2 V DC
- With interchangeable socket adaptors

CODE	GR	
54100060	200	



7762 - DOCKING STATION FOR NO 714

Stationary base for securely connecting angle-controlled torque wrench No 714 to a PC via a USB port

CODE	GR	
52110062	421	



7762-1 - REST FOR DOCKING STATION NO 7762

For securely supporting long angle-controlled torque wrenches No 714 from size 6 up

CODE	GR	
52110162	520	



ELECTRONIC TORQUE WRENCHES



1/4" DRIVE FIXED HEAD CONTROLTECH™ INDUSTRIAL TORQUE WRENCH; ELECTRONIC MEMORY AND ANGLE; ALUMINUM

- Torque Accuracy: 20% to 100% of full scale $\pm 2\%$ CW, $\pm 3\%$ CCW

CODE					
CTAL1240	1/4	1.0-20.0	12-240	1,4-27,4	12.4



3/8" DRIVE ELECTRONIC FLEX-HEAD TECHANGLE® TORQUE WRENCH (5–100 FT-LB)

- Torque: 5–100 ft-lb
- Torque Accuracy: $\pm 2\%$ CW and $\pm 3\%$ CCW, 20–100% of full scale
- Angle Accuracy: $\pm 1\%$ of Reading, $\pm 1^\circ$ @ Angular Velocity $>10^\circ/\text{Sec}$ $<180^\circ/\text{Sec}$
- Angle range: 0–360°
- Six measurement modes (ft-lb, in-lb, N•m, Kgcm, dNm, angle)
- Dual progressive LEDs allow user to see active torque at various work positions; enables user to anticipate torque and slow down as they get closer to desired torque level
- Torque-then-angle allows the user to torque fasteners and then switch to angle without removing the torque wrench from the fastener
- Textured Grip offers a comfortable, non-slip surface
- Flared end prevents your hand from slipping off during high-leverage applications
- Ratchet mechanism features Snap-on® Dual 80® Design – only 4.5° of ratchet arc
- Cycle counter to ensure how many fasteners have been torqued
- Motorcycle-style handle with seamless textured grip offers a comfortable, non-slip surface
- Low-profile buttons protect against accidental activation
- Protected end cap design with solid brass contacts prevents accidental loosening and ensures continuity
- Highly configurable ten presets with the ability to customize numerous functions (sleep mode, LCD display, calibration, etc.) and store up to 50 records
- Large LCD screen numbers become larger and bolder during active torque making it easier to read during use
- Four alert modes (LCD, Dual LED, Audible, Vibratory)
- Features an internal translation feature that allows the user to select a language for the LCD to display (English, French, German or Spanish)
- Long battery life: 80 hours continuous use; Uses (3) AA alkaline batteries (included)
- Two year warranty
- Additional technical information is available at www.snapon.com/doiitjustright

CODE					
ATECH2FR100B	3/8	5-100	6-1,200	6.8-135.0	17.9



ELECTRONIC TORQUE WRENCHES

ELECTRONIC TORQUE ANGLE WRENCH IN METAL



- Accuracy (20-100% of max torque): $\pm 2\%$ CW, $\pm 3\%$ CCW
- Visual (dual LEDs + Display), audio and vibration signal
- Supplied with reversible QR ratchet head
- 40 teeth / 9° action
- Memory capacity: 1500 readings
- Up to 50 presets
- Programmable automatic shut off time
- Data and set value retention during battery exchange
- Operating temperature range: $5^\circ\text{C} - 42^\circ\text{C}$
- Storage temperature range: $-10^\circ\text{C} - 50^\circ\text{C}$
- Plug & Play USB data download to Excel format
- Units in Nm, Kg.cm., dNm, Lbf.ft., Lbf.in.
- Torque, angle, torque and angle, torque then angle, preset and job modes
- Counter
- Programmable recalibration warning
- All in metal for higher strength
- ISO 6789
- 2004/108/EC

CODE					
		FT.LBS	IN.LBS		GR
TAWM1430	1/4	1,5-30	1,1-22,1	13,3-265,5	850
TAWM38135	3/8	7-135	5,2-99,5	62-1194	1370
TAWM12340	1/2	17-340	12,5-250	150,5-3009	2020
TAWM34800	3/4	40-800	29,5-500	354-7080	4850



ELECTRONIC TORQUE ANGLE WRENCH IN ALUMINIUM

- Electronic torque angle wrench
- Accuracy (20-100% of max torque): $\pm 2\%$ CW, $\pm 3\%$ CCW
- Visual (dual LEDs + Display), audio and vibration signal
- Supplied with reversible interchangeable ratchet head
- 60 teeth / 6° action
- Memory capacity of 1500 readings and up to 50 presets
- Programmable automatic shut off time
- Data and set value retention during battery exchange
- Operating temperature range: $5^\circ\text{C} - 42^\circ\text{C}$
- Storage Temperature range: $-10^\circ\text{C} - 50^\circ\text{C}$
- Plug & Play USB data download to excel format
- Units in Nm, Kg.cm., dNm, Lbf.ft., Lbf.in.
- Torque, Angle, Torque and angle, Torque then angle, preset and job modes
- Counter
- Programmable recalibration warning
- Aluminum body for light weight
- ISO 6789
- 2004/108/EC

CODE									
		NM	FT.LBS	IN.LBS		MM	L MM	GR	
TAWM930A	1/4	1,5-30	1.1-22.1	13.3-265.5	8952-1	9x12	377	650	



ELECTRONIC TORQUE WRENCHES

E.306D - ELECTRONIC TORQUE WRENCHES

NORM: NF EN ISO 6789, ISO 6789, DIN EN ISO 6789



- Accuracy: $\pm 2\%$ between 20% and 100% wrench capacity
- Measuring mode: peak or follower
- Measuring unit: Nm, lb.ft, lbf.in and kg.cm
- Bits: 9 x 12 and 14 x 18 mm
- Numbered wrenches supplied with ISO 6789 calibration certificate
- Presetting possible of 9 torque
- Memory 250 values with PC USB link
- Supplied in plastic case with foam interior

	NM	L MM	
E.306-30D	1,5 - 30,0	360	1520
E.306-135D	6,7 - 135,0	375	1520
E.306-200D	10 - 200	474	2400
E.306-340D	17 - 340	594	2560



E.306A - ELECTRONIC TORQUE WRENCHES WITH RATCHET

NORM: NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy: $\pm 2\%$ between 20% and 100% wrench capacity
- Measuring mode: peak or follower
- Measuring unit: Nm, lb.ft, lbf.in and kg.cm
- Bits: 9 x 12 and 14 x 18 mm
- Numbered wrenches supplied with ISO 6789 calibration certificate
- Presetting possible of 9 torque
- Memory 250 values with PC USB link
- Supplied in plastic case with foam interior

CODE					
				RATCHET	L MM
E.306A30R	1/4	1,5 - 30,0	R.372	575	1604
E.306A135J	3/8	6,7 - 135	J.372V	575	1697
E.306A135S	1/2	6,7 - 135	S.372V	575	1709
E.306A200S	1/2	10 - 200	S.382V	810	2699
E.306A340S	1/2	17 - 340	S.382V	810	2859





ELECTRONIC TORQUE WRENCHES

E.316D - ELECTRONIC TORQUE / ANGLE WRENCHES

NORM: NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy: - Torque: $\pm 2\%$ between 20% and 100% wrench capacity - Angle: Angle: $\pm 2^\circ$
- End fitting: 9 x 12 and 14 x 18 mm
- Measuring mode: peak or follower
- Locking keypad (the operator has access only to program choices and result memorizing)
- Measuring unit: Nm, lb.ft, lbf.in, kg.cm and deg
- Presetting possible of 9 torque and/or angle values
- Memory 250 values with PC USB link
- Supplied with calibration certificate
- Supplied in plastic case and foam module



CODE		L MM	GR 
E.316-30D	1,5 - 30,0	360	1520
E.316-135D	6,7 - 135	375	1520
E.316-200D	10 - 200	474	2400
E.316-340D	17 - 340	594	2560



E.316A - ELECTRONIC TORQUE / ANGLE WRENCHES WITH RATCHET


NORM: NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy: - Torque: $\pm 2\%$ between 20% and 100% wrench capacity - Angle: Angle: $\pm 2^\circ$
- End fitting: 9 x 12 and 14 x 18 mm
- Measuring mode: peak or follower
- Locking keypad (the operator has access only to program choices and result memorizing)
- Measuring unit: N.m, lb.ft, lbf.in, kg.cm and deg
- Presetting possible of 9 torque and/or angle values
- Memory 250 values with PC USB link
- Supplied with calibration certificate
- Supplied in plastic case and foam module

CODE		RATCHET	L MM	GR 	
E.316A30R	1/4	1,5 - 30	R.372	390	1604
E.316A135J	3/8	6,7 - 135	J.372V	415	1697
E.316A135S	1/2	6,7 - 135	S.372V	415	1709
E.316A200S	1/2	10 - 200	S.382V	530	2699
E.316A340S	1/2	17 - 340	S.382V	650	2859

E.406 - ELECTRONIC ANGLE ADAPTER

- Accuracy: $\pm 2^\circ$
- Angular range: 1 – 360
- Measuring unit: degree
- Presetting possible of 9 angle values
- Memory 50 values
- Supplied in plastic case with calibration certificate

CODE	GR 
E.406	98



RATCHETS AND FIXED SQUARE ADAPTORS



725QR - QUICKRELEASE RATCHET INSERT TOOLS

- Output square drive in accordance with DIN 3120
- Long-term loading of the input and output square drive is in accordance with DIN EN ISO 6789:2003
- This limit must not be exceeded if larger torque wrenches and tool holders are used
- Reversible, with QuickRelease safety lock
- Size 4: 22 teeth, sizes 5 and 10: 30 teeth



CODE	SIZE		MM	B MM	H MM	S MM	MAX NM	GR
58253004	4	1/4	9x12	22	13.8	17.5	40	60
58253005	5	3/8	9x12	29	18	28*	100	130
58253010	10	1/2	9x12	29	18	28*	100	141
58253020	20	1/2	14 x18	41	22.3	38,5*	200	325



725/4 - RATCHET INSERT TOOL

CODE	SIZE		MM	B MM	H MM	S MM	MAX NM	GR
58254004	4	1/4	9x12	22	13.8	17.5	40	62



725B - BIT RATCHET INSERT TOOL

- Reversible, with inside hexagon, 1/4" or 5/16", DIN 3126/ISO 1173 D 6.3 or D8, for direct acceptance of bits 1/4" or 5/16"
- Outside hexagon C 6.3 (size 4: 22 teeth, size 5: 30 teeth)
- Internal hex drive with a collar-thrust spring
- Bits are easy to insert, lock securely in position and can be removed just as easily; even hex bits with a wide groove (Type E, DIN 3126/ISO 1173)
- Supplied without bits

CODE	SIZE		MM	B MM	H MM	S MM	MAX NM	GR
58255004	4	1/4	9x12	22	13.6	17.5	/	54
58255005	5	5/16	9x12	29	17.9	28*	/	117



RATCHETS AND FIXED SQUARE ADAPTORS



725L/5 - RATCHET INSERT TOOL

- Reversible, 30 teeth
- CAUTION! Modified settings on torque wrench
- This ratchet insert tool has the same extension length as ring insert tool No 732G/10 and square drive insert tool No 734L/5

CODE	SIZE	MM	B MM	H MM	S MM	MAX NM	GR
58151005	3/8	9x12	27.5	19.6	45	/	164



735 - RATCHET INSERT TOOLS; FINE TOOTH

CODE	SIZE	"	MM	B MM	H MM	S MM	MAX NM	GR
58250005	5	3/8	9x12	33	24	17.5	100	135
58250010	10	1/2	9x12	33	24	17.5	100	147
58250020	20	1/2	14x18	43	26	25	300	302
58250040	40	3/4	14x18	50	31.5	25	400	510
58250065	40HD	3/4	14x18	58	36	25	650	737



735/65 - RATCHET INSERT TOOL; FINE TOOTH

CODE	SIZE	"	MM	B MM	H MM	S MM	MAX NM	GR
58251065	65	3/4	22x28	61	35	55	/	1100



735/80 - RATCHET SHELL TOOL

CODE	SIZE	"	MM	B MM	H MM	S MM	MAX NM	GR
58250080	80	3/4	24,5x28	76	43	95	/	2000





735/100 - RATCHET INSERT TOOL

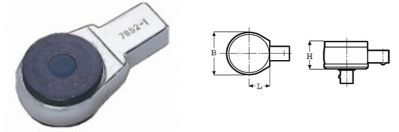
CODE	SIZE	"	MM	B MM	H MM	S MM	MAX NM	GR
58250100	100	3/4	22x28	76	42	55	/	1893



INSERT TOOLS FOR TORQUE WRENCHES



RING TORQUE WRENCH INSERT

CODE			B MM	H MM	L MM	GR
6852-1	1/4	9x12	36	21	20	65
7452-1	3/8	9x12	36	21	20	75
7852-1	1/2	14x18	36	22,5	25	200





TORQUE, RATCHET, COMPACT



CODE			D MM	E MM	L MM	GR
R.372	1/4	9x12	27	19	15	70
J.372V	3/8	9x12	37	26	15	140
S.372V	1/2	9x12	37	26	15	150
S.382V	1/2	14x18	41	26	27	285
K.382A	3/4	14x18	69	35	27	870




RATCHETS - DRIVE 9 X 12 MM

CODE			D MM	E MM	L MM	GR
J.372	3/8	9x12	37	26	15	165
S.372	1/2	9x12	37	26	15	165
S.382V	1/2	14x18	41	26	27	28/5




734 - SQUARE DRIVE INSERT TOOLS



CODE	SIZE		MM	B MM	H MM	S MM	MAX NM	GR
58240004	4	1/4	9x12	20	14	17.5	40	71
58240005	5	3/8	9x12	20	14	17.5	80	76
58240010	10	1/2	9x12	20	14	17.5	100	82
58240020	20	1/2	14x18	27	18	25	300	203
58240040	40	3/4	14x18	40	25	25	650	396



734/80 - SQUARE DRIVE SHELL TOOL

CODE	SIZE		MM	B MM	H MM	S MM	MAX NM	GR
58240080	80	3/4	824,5x28	42	42	95	/	1200



INSERT TOOLS FOR TORQUE WRENCHES

734F - SQUARE DRIVE INSERT TOOLS

With permanently attached, captive square drive

CODE	MM	B MM	H MM	S MM	GR	
58241004	1/4	9x12	22	14	17.5	72
58241005	3/8	9x12	22	14	17.5	75



734/100 - SQUARE DRIVE INSERT TOOL

CODE	MM	B MM	H MM	S MM	GR	
58240100	3/4	22x28	43	42	55	1171



734L/5 - SQUARE DRIVE INSERT TOOL

CAUTION! Modified settings on torque wrench. This square-drive insert tool has the same extension length as ring insert tool No 732G/10 and ratchet insert tool No 725L/5.

CODE	MM	B MM	H MM	S MM	GR	
58242005	3/8	9x12	20	14	45	141



SQUARE DRIVE

CODE	MM	D MM	E MM	L MM	GR	
R.373	1/4	9x12	23	14	15	55
J.373	3/8	9x12	26	17	15	85
S.373	1/2	9x12	26	17	15	100
S.383	1/2	14x18	32	22	27	160
K.383	3/4	14x18	38	22	27	340



INSERT TOOLS FOR TORQUE WRENCHES

BIT HOLDER INSERT



CODE	SIZE	" (INCH)		MM		B MM	H MM	S MM	GR
		D	W	B	H				
58261010	10	D 8	5/16	9x12	16	12.5	17.5	47	
58262610	10-1	D 6,3	1/4	9x12	14	10	17.5	45	
58261040	40	D 8	5/16	14x18	16	12.5	25	114	

○ Inside DIN 3126/ISO 1173



737 - BLANK END INSERT TOOL

Gunmetal finish To prevent damage from excessive temperatures, the locking pin, spring and washer are not fitted until the welding work has been completed. Instructions are supplied.

CODE	WELDING SURFACE		MM	H MM	L MM	GR
	H X B MM	MM				
58270010	8 x 14	9x12	14.5	8	35	
58270040	11 x 25	14x18	21.5	12	98	
58270100	15 x 50	22x28	32	24	521	



7370/10 - ADAPTOR

For using insert tools with an outer square drive of 14 x 18 mm on torque wrenches with an internal square drive of 9 x 12 mm. CAUTION! Modified settings on torque wrench.

CODE	" (INCH)		B MM	H MM	S MM	GR
	MM	MM				
58290010	9x12	14x18	31	26	30.5	114



7370/40 - ADAPTOR

For using insert tools with an outer square drive of 9 x 12 mm on torque wrenches with an internal square drive of 14 x 18 mm. CAUTION! Modified settings on torque wrench.

CODE	" (INCH)		B MM	H MM	S MM	GR
	MM	MM				
58290040	9x12	14x18	28	21	21.5	115



7370/10-2 - ADAPTOR

For use with insert tools with a lateral dovetail profile in torque wrenches with 9 x 12 mm internal square drives. CAUTION! Modified settings on torque wrench.

CODE	" (INCH)		B MM	H MM	S MM	GR
	MM	MM				
58290012	9x12	23.5	9.5	24	51	



INSERT TOOLS FOR TORQUE WRENCHES



7370/40-2 - ADAPTOR

For use with insert tools with a lateral dovetail profile in torque wrenches with 14 x 18 mm internal square drives.

CAUTION! Modified settings on torque wrench.

CODE	MM	B MM	H MM	S MM	GR
58290042	14x18	31.5	9.5	34.6	138



7370/80 - SHELL ADAPTOR

For attaching 14 x 18 mm insert tools.

CAUTION! Modified settings on torque wrench.

CODE	MM	MM	B MM	H MM	S MM	GR
58290080	24,5x28	14x18	36	26	70	281



7370/100 - ADAPTOR

For using shell tools with an internal square drive of 24.5 x 28 mm on torque wrenches with an internal square drive of 22 x 28 mm.

CAUTION! Modified settings on torque wrench.

CODE	MM	MM	L MM	S MM	GR
58291100	22x28	24,5x28	85	100	563



14 - WELDING TIP

CODE	B MM	C MM	L MM
14.9X12	9X12	14.7	17.4
14.14X18	14X18	22	26.3



SWIVEL HANDLE

- Allows to maintain the wrench parallel with the tightening plane
- Use with 3/8" and 1/2" ratchets and drive squares
- Max diam. size: 45 mm
- Length: 66 mm
- Weight: 110 g

CODE
S.305P



OPEN END INSERT TOOLS

731A/10 - OPEN ENDED INSERT TOOLS; INCHES



CODE	I INCHES		B MM	H MM	S MM	GR
58611016	1/4	9x12	22	5	17.5	36
58611020	5/16	9x12	22	5	17.5	53
58611024	3/8	9x12	26	5.5	17.5	38
58611028	7/16	9x12	26	5.5	17.5	37
58611032	1/2	9x12	30	7	17.5	44
58611034	9/16	9x12	35	8	17.5	49
58611036	5/8	9x12	38	8.5	17.5	64
58611038	11/16	9x12	42	9	20*	76
58611040	3/4	9x12	42	9	20*	73



*CAUTION! Modified settings on torque wrench.

731/10 - OPEN ENDED INSERT TOOLS; METRIC

CODE	MM		B MM	H MM	S MM	GR
58211007	7	9x12	22	5	17.5	40
58211008	8	9x12	22	5	17.5	39
58211009	9	9x12	26	5.5	17.5	38
58211010	10	9x12	26	5.5	17.5	42
58211011	11	9x12	26	5.5	17.5	41
58211012	12 1)	9x12	30	7	17.5	43
58211013	13	9x12	30	7	17.5	48
58211014	14	9x12	35	8	17.5	52
58211015	15	9x12	35	8	17.5	51
58211016	16	9x12	38	8.5	17.5	58
58211017	17	9x12	38	8.5	17.5	60
58211018	18	9x12	42	9	20*	71
58211019	19	9x12	42	9	20*	74



1) For flare nuts of hydraulic pipes on French vehicles.

*CAUTION! Modified settings on torque wrench.

OPEN END INSERT TOOLS

731A/40 - OPEN ENDED INSERT TOOLS; INCHES



CODE	I INCHES	B MM	H MM	S MM	GR	
58614028	7/16	14x18	30	7	25	127
58614032	1/2	14x18	30	7	25	125
58614034	9/16	14x18	35	8	25	129
58614036	5/8	14x18	38	9	25	136
58614038	11/16	14x18	42	10	25	148
58614040	3/4	14x18	42	10	25	144
58614042	13/16	14x18	50	11	25	171
58614044	7/8	14x18	50	11	25	165
58614046	15/16	14x18	53	12	25	177
58614048	1	14x18	60	13	30*	224
58614052	1 1/8	14x18	66	14	30*	258



*CAUTION! Modified settings on torque wrench.

731/40 - OPEN ENDED INSERT TOOLS; METRIC

CODE	MM	B MM	H MM	S MM	GR	
58214013	13	14x18	30	7	25	128
58214014	14	14x18	35	8	25	129
58214015	15	14x18	35	8	25	132
58214016	16	14x18	38	9	25	140
58214017	17	14x18	38	9	25	136
58214018	18	14x18	42	10	25	147
58214019	19	14x18	42	10	25	145
58214021	21	14x18	50	11	25	171
58214022	22	14x18	50	11	25	165
58214024	24	14x18	53	12	25	167
58214025	25	14x18	53	12	25	170
58214027	27	14x18	60	13	30*	219
58214030	30	14x18	66	14	30*	245
58214032	32	14x18	66	14	32,5*	246
58214034	34	14x18	66	14	32,5*	239
58214036	36	14x18	74	15	32,5*	275
58214038	38	14x18	74	15	32,5*	265
58214041	41	14x18	82	15	36,5*	307



*CAUTION! Modified settings on torque wrench.

OPEN END INSERT TOOLS

7452-7 - OPEN ENDED TORQUE WRENCH; METRIC

CODE	MM	B MM	H MM	S MM	GR	
7452-7-7	7	9x12	22	5.0	15	35
7452-7-8	8	9x12	22	5	15	35
7452-7-9	9	9x12	25	5.5	15	35
7452-7-10	10	9x12	25	5.5	15	40
7452-7-11	11	9x12	25	5.5	15	30
7452-7-12	12	9x12	30	7	16	50
7452-7-13	13	9x12	30	7	16	35
7452-7-14	14	9x12	35	8	15	40
7452-7-15	15	9x12	35	8	17	40
7452-7-16	16	9x12	38	8.5	17	45
7452-7-17	17	9x12	38	8.5	20	60
7452-7-18	18	9x12	42	9	20	70
7452-7-19	19	9x12	42	9	15	70



7452-7 - OPEN ENDED TORQUE WRENCH; INCHES

CODE		B MM	H MM	S MM	GR	
7452-7-1/4	1/4	9x12	21	6	38	48
7452-7-5/16	5/16	9x12	22	6	38	48
7452-7-3/8	3/8	9x12	25	6	40	48
7452-7-7/16	7/16	9x12	26	6	39	48
7452-7-1/2	1/2	9x12	29	6	40	60
7452-7-9/16	9/16	9x12	32	8	43	60
7452-7-5/8	5/8	9x12	36	8	44	66
7452-7-11/16	11/16	9x12	39	9	45	74
7452-7-3/4	3/4	9x12	42	9	46	74



OPEN END BITS - DRIVE 9 X 12 MM; INCHES

CODE	I INCHES	B MM	H MM	S MM	GR	
10. 1/4	1/4	9x12	19	5	17,5	33
10 5/16	5/16	9x12	19	5	17,5	26
10. 3/8	3/8	9x12	25	6	17,5	38
10. 7/16	7/16	9x12	25	6	17,5	36
10. 1/2	1/2	9x12	31	7	17,5	43
10. 9/16	9/16	9x12	31	7	20	41
10. 5/8	5/8	9x12	37	9	20	60
10. 11/16	11/16	9x12	37	9	20	59
10. 3/4	3/4	9x12	40	9	20	69



OPEN END INSERT TOOLS

OPEN END BITS - DRIVE 9 X 12 MM; METRIC

CODE	METRIC	9x12	B MM	H MM	S MM	GR
10.7	7	9x12	21	5	17.5	33
10.8	8	9x12	22	5	17.5	32
10.9	9	9x12	23.5	6	17.5	38
10.10	10	9x12	24.5	6	17.5	37
10.11	11	9x12	26	6	17.5	36
10.12	12	9x12	27.5	7	17.5	44
10.13	13	9x12	29	7	17.5	45
10.14	14	9x12	31.5	7	20	42
10.15	15	9x12	33	9	20	61
10.16	16	9x12	35.5	9	20	60
10.17	17	9x12	37.5	9	20	62
10.18	18	9x12	39	9	20	69
10.19	19	9x12	41.5	9	20	67



OPEN END BITS - DRIVE 14 X 18 MM; INCHES

CODE	IINCHES	14x18	B MM	H MM	S MM	GR
11.1/2	1/2	14x18	34	8	25	114
11.9/16	9/16	14x18	34	8	25	111
11.5/8	5/8	14x18	39	10	25	140
11.11/16	11/16	14x18	39	12	25	137
11.3/4	3/4	14x18	45	12	25	156
11.13/16	13/16	14x18	45	12	25	152
11.7/8	7/8	14x18	52	14	25	172
11.15/16	15/16	14x18	52	14	25	167
11.1'1/4	1.1/4	14x18	59	16	32.5	266
11.1'1/16	1 1/16	14x18	64	18	32.5	221



OPEN END INSERT TOOLS

OPEN END BITS - DRIVE 14 X 18 MM; METRIC

CODE	METRIC	B MM	H MM	S MM	GR	
11.13	13	14x18	34	8	25	114
11.14	14	14x18	34	8	25	113
11.15	15	14x18	34	8	25	111
11.16	16	14x18	39	10	25	140
11.17	17	14x18	39	12	25	134
11.18	18	14x18	39	12	25	136
11.19	19	14x18	45	12	25	140
11.21	21	14x18	45	12	25	157
11.22	22	14x18	52	14	25	161
11.23	23	14x18	52	14	25	172
11.24	24	14x18	52	14	25	165
11.27	27	14x18	59	16	32,5	222
11.30	30	14x18	64	18	32.5	277
11.32	32	14x18	64	18	32.5	269



ADAPTERS - DRIVE 20 X 7 MM

CODE	MM	GR
J.274	9x12	135
S.284	14x18	145



SQUARE DRIVE - DRIVE 20 X 7 MM

For use on torque wrenches ref. J.203DA - S.203DA - S.306-100R - S.306-200R - S.306-350R.

CODE	GR	
J.203E	3/8	140
S.203E	1/2	150



SWIVEL HANDLES - DRIVE 20 X 7 MM

- Allows to maintain the wrench parallel with the tightening plane and contribute to tightening accuracy
- Used with square bits Ref J.203E - S.203E and torque wrench ref. R.203 DA

CODE	D MM	L MM	WRENCH	FOR USE ON	GR
R.200P	22	45	R.203DA	R.203DA	20
S.200P	36	55	J.203E - S.203E	J.203E, S.203E	55



OPEN END INSERT TOOLS

OPEN END BITS - DRIVE 20 X 7 MM; METRIC

For use on torque wrenches series 203, 306R and 446.

CODE	METRIC		B MM	H MM	S MM	GR
20.10	10	20 x 7	24	6	105	60
20.11	11	20 x 7	24	6	105	60
20.12	12	20 x 7	29	6	106	60
20.13	13	20 x 7	29	6	106	60
20.14	14	20 x 7	29	6	106	65
20.15	15	20 x 7	40	7,5	109	105
20.16	16	20 x 7	40	7,5	109	105
20.17	17	20 x 7	40	7,5	109	105
20.18	18	20 x 7	40	7,5	109	100
20.19	19	20 x 7	40	7,5	109	100
20.21	21	20 x 7	53	8	112	145
20.22	22	20 x 7	53	8	112	145
20.23	23	20 x 7	53	8	112	140
20.24	24	20 x 7	53	8	112	140
20.27	27	20 x 7	66	9	115	185
20.30	30	20 x 7	66	9	115	185
20.32	32	20 x 7	66	9	115	180
20.36	36	20 x 7	74	10	118	220



RING INSERT TOOLS

732A/10 - RING INSERT TOOLS; INCHES



CODE	I INCHES	9x12	B MM	H MM	S MM	GR
58621016	1/4	9x12	13	8	17.5	36
58621020	5/16	9x12	14.2	8	17.5	37
58621024	3/8	9x12	17.2	9	17.5	37
58621028	7/16	9x12	18.5	9	17.5	40
58621032	1/2	9x12	21.5	11	17.5	53
58621034	9/16	9x12	22.5	11	17.5	52
58621036	5/8	9x12	26	12	17.5	54
58621038	11/16	9x12	28	13	17.5	58
58621040	3/4	9x12	30.5	13	17.5	58
58621042	13/16	9x12	33	15	17.5	68
58621044	7/8	9x12	34.5	15	17.5	69

732/10 - RING INSERT TOOLS; METRIC



CODE	MM	9x12	B MM	H MM	S MM	GR
58221007	7	9x12	13	8	17.5	37
58221008	8	9x12	14.2	8	17.5	40
58221010	10	9x12	17.2	9	17.5	44
58221011	11	9x12	18.5	9	17.5	41
58221012	12	9x12	20.5	11	17.5	49
58221013	13	9x12	21.5	11	17.5	55
58221014	14	9x12	22.5	11	17.5	52
58221015	15	9x12	24.5	12	17.5	52
58221016	16	9x12	26	12	17.5	54
58221017	17	9x12	27	13	17.5	59
58221018	18	9x12	28	13	17.5	56
58221019	19	9x12	30.5	13	17.5	65
58221021	21	9x12	33	15	17.5	71
58221022	22	9x12	34.5	15	17.5	74

RING INSERT TOOLS

732A/40 - RING INSERT TOOLS; INCHES

CODE	I INCHES	B MM	H MM	S MM	GR	
58624032	1/2	14x18	22.5	11	25	122
58624034	9/16	14x18	23	11	25	122
58624036	5/8	14x18	25.5	12	25	134
58624038	11/16	14x18	29	13	25	132
58624040	3/4	14x18	30.5	13	25	138
58624042	13/16	14x18	33	15	25	142
58624044	7/8	14x18	34.5	15	25	147
58624046	15/16	14x18	37.5	15	25	151
58624048	1	14x18	41	17	25	160



732/40 - RING INSERT TOOLS; METRIC

CODE	MM	B MM	H MM	S MM	GR	
58224013	13	14x18	22.5	11	25	130
58224014	14	14x18	23	11	25	123
58224015	15	14x18	24	11	25	128
58224016	16	14x18	25.5	12	25	133
58224017	17	14x18	27	12	25	135
58224018	18	14x18	29	13	25	134
58224019	19	14x18	30.5	13	25	138
58224021	21	14x18	33	15	25	144
58224022	22	14x18	34.5	15	25	145
58224024	24	14x18	37.5	15	25	153
58224027	27	14x18	42.5	17	25	162
58224028	28	14x18	45.5	19	25	175
58224030	30	14x18	46	19	25	182
58224032	32	14x18	47.5	19	25	181
58224034	34	14x18	52	19	28*	210
58224036	36	14x18	54	19	28*	203
58224041	41	14x18	60	20	30*	240



*CAUTION! Modified settings on torque wrench.

RING INSERT TOOLS

732AG/10 - RING INSERT TOOLS; INCHES



CODE	I INCHES	B MM	H MM	S MM	GR	
58621216	1/4	9x12	10.4	6	45	28
58621220	5/16	9x12	12.4	6	45	31
58621224	3/8	9x12	14.9	6	45	28
58621228	7/16	9x12	17	8	45	43
58621232	1/2	9x12	19	9.2	45	58
58621234	9/16	9x12	21	9.2	45	58
58621236	5/8	9x12	10.4	6	45	28



732G/10 - RING INSERT TOOLS; METRIC

CODE	MM	B MM	H MM	S MM	GR	
58620007	7	9x12	11.5	6	45	31
58620008	8	9x12	12.4	6	45	33
58620009	9	9x12	14	8	45	40
58620010	10	9x12	15.6	8	45	44
58620013	13	9x12	19.3	9.2	45	60



732A/80 - RING SHELL TOOLS; INCHES

CODE	I INCHES	B MM	H MM	S MM	GR	
58628046	15/16	24,5x28	36	14	95	604
58628050	1 1/16	24,5x28	40.5	14	95	608



732/80 - RING SHELL TOOLS; METRIC

CODE	MM	B MM	H MM	S MM	GR	
58228024	24	24,5x28	36	15	95	605
58228027	27	24,5x28	40.5	15	95	610
58228030	30	24,5x28	46	16	95	630
58228032	32	24,5x28	49	16	95	635
58228034	34	24,5x28	52	17	95	650
58228036	36	24,5x28	54	17	95	650
58228041	41	24,5x28	61	18	95	675
58228046	46	24,5x28	66	19	95	720
58228050	50	24,5x28	75	20	95	803
58228055	55	24,5x28	84	21	95	889
58228060	60	24,5x28	93	22	95	995



RING INSERT TOOLS

732/100 - RING INSERT TOOLS; METRIC



CODE	MM	B MM	H MM	S MM	GR	
58221024	24	22x28	43	15	55	629
58221027	27	22x28	43	15	55	619
58221030	30	22x28	46	16	55	632
58221032	32	22x28	49	16	55	625
58221034	34	22x28	52	17	55	638
58221036	36	22x28	54	17	55	631
58221041	41	22x28	61	18	55	642
58221046	46	22x28	66	19	55	640
58221050	50	22x28	75	20	55	713
58221055	55	22x28	84	21	55	791
58221060	60	22x28	93	22	55	885



733/10 - OPEN RING INSERT TOOLS; INCHES

CODE	I INCHES	B MM	H MM	S MM	GR	
58631024	3/8	9x12	21.5	11	17.5	55
58631028	7/16	9x12	22.5	11	17.5	56
58631032	1/2	9x12	26	12	17.5	58
58631034	9/16	9x12	27.5	13	17.5	59
58631036	5/8	9x12	30.5	13	17.5	61
58631038	11/16	9x12	33	15	17.5	48
58631040	3/4	9x12	34	15	17.5	76



733/10 - OPEN RING INSERT TOOLS; METRIC

CODE	MM	B MM	H MM	S MM	GR	
58231010	10	9x12	21.5	11	17.5	57
58231011	11	9x12	22.5	11	17.5	55
58231012	12	9x12	24.5	12	17.5	59
58231013	13	9x12	26	12	17.5	55
58231014	14	9x12	27	13	17.5	60
58231016	16	9x12	30.5	13	17.5	65
58231017	17	9x12	31.5	13	17.5	64
58231018	18	9x12	33	15	17.5	74
58231019	19	9x12	34	15	17.5	80
58231021	21	9x12	38.5	15	20*	88
58231022	22	9x12	39.5	15	20*	92
58231024	24	9x12	40	15	20*	75



*CAUTION! Modified settings on torque wrench.

TORQUE SCREWDRIVERS



775 - TORQUE SCREWDRIVERS TORSIOMAX

- Click-type
- For torque-controlled bolt tightening in the cN·m and in·lb ranges
- For one-off or production runs
- Anticlockwise and clockwise tightening with 1/4" internal hex drive (F 6.3 DIN 3126/ISO1173)
- Infinitely variable via micrometer scale (twist scale)
- Disengaging clutch coupling prevents the preset value being exceeded
- The shape of the handle and its surface texture ensure safe and accurate transmission of torque
- Insert tools: For all 1/4" hex E 6.3, Phillips-head screws, POZIDRIV/SUPADRIV®, straight-slot, TORX®, hex BITS. For very small joints, BITS with a 4 mm hex drive and an adapter
- No 3115/2 for BITS screwdriver inserts, Type C4, and external hex 1/4" (E 6.3 DIN 3126/ISO 1173) are required
- With certificate
- Display deviation value $\pm 6\%$



CODE	SIZE MM	IN.LBS	IN.LBS		L MM	GR
51460003	a/3 ¹⁾	0,2-3	0.02	F 6,3	105	99
51460012	a/12 ²⁾	2-12	0.1	F 6,3	157	192
51460050	a/50 ²⁾	10-50	0.25	F 6,3	205	436

CODE	SIZE MM	CN-M	CN-M	INSIDE	L MM	GR
51060003	3 ¹⁾	2-30	0,2	F 6,3	105	99
51060012	12 ²⁾	20-120	1	F 6,3	157	192
51060030	30 ²⁾	40-300	1	F 6,3	160	214
51060050	50 ²⁾	100-500	2.5	F 6,3	205	436
51060100	100 ³⁾	400-1000	5	F 6,3	235	762

- 1) With a swiveling handle-end to improve tool control; and with a clamping screw for locking the preset
- 2) With an additional locking mechanism to prevent the selected torque being inadvertently adjusted
- 3) With screw-on handles for increasing the force applied for large torques

760 - TORQUE SCREWDRIVERS TORSIOMETER

- Indicating type
- The measuring element is a torsional leaf spring
- Clockwise tightening (with trailing pointer) and anticlockwise tightening with 1/4" internal hex drive (F 6.3 DIN 3126)
- Comparative scale in in·lb and cursor
- Inserts and adaptors with external hex E 6.3 (1/4") DIN 3126/ISO 1173 are securely held and firmly controlled in the mounting shaft
- To attach 1/4" sockets, please order adaptor No 3115
- With certificate
- Display deviation value $\pm 4\%$

CODE	SIZE MM	CN-M	IN.LBS	CN-M		L MM	GR
51040007	7.5	15-75	1,5-6,5	2,5	F 6,3	185	225
51040015	15	30-150	3-13	5	F 6,3	185	225
51040030	30	60-300	6-26	10	F 6,3	185	230
51040060	60	120-600	12-52	20	F 6,3	185	230



TORQUE SCREWDRIVERS

SCREWDRIVER; TORQUE LIMITING; ADJUSTING, 5–35 IN-LB



- Micrometer type adjustment. Clutch allows 25° of free rotation on reaching set torque
- Guaranteed accuracy: within $\pm 4\%$ of setting from 20% of capacity to full capacity clockwise and counterclockwise

CODE				L IN
	NM	IN		
QTS135	5-35	0.5 in-lb	1/4	7



SCREWDRIVER; TORQUE; ADJUSTABLE, (90–450 N•CM); 1/4" DRIVE

- 1/4" square drive end complements earlier QDRIVER models with 1/4" hex bit holders
- Pin retains the socket to the square drive
- Freewheels 90 degrees when specified torque is obtained, competitive units without this freewheeling feature can cause over-torqueing of the fasteners
- Torques only in the clockwise direction; accuracy within ± 6 percent (from 20 percent to 100 percent full scale)
- New textured body provides a non-slip grip
- Comfortable ergonomic tri-lobe grip prevents the device from rolling off a flat surface and being damaged
- Lightweight yet rugged construction
- Easy-to-read torque setting
- Certificate of Calibration included insures accuracy in conformance to ASMESM B107.300-2010 (B107.14) and ISO 6789:2003
- Torque screwdrivers calibrated to torque standards of the National Institute of Standards Technology (N.I.S.T.)

CODE				L IN
	NCM	NM		
QDRIVER4NMA	90-450	5	1/4	6 11/16



SCREWDRIVER; TORQUE; ADJUSTABLE; 20–100 IN-OZ (14–70 N•CM), 1/4" DRIVE

- 1/4" square drive end complements earlier QDRIVER models with 1/4" hex bit holders
- Pin retains the socket to the square drive
- Freewheels 90 degrees when specified torque is obtained, competitive units without this freewheeling feature can cause over-torqueing of the fasteners
- Torques only in the clockwise direction; accuracy within ± 6 percent (from 20 percent to 100 percent full scale)
- New textured body provides a non-slip grip
- Comfortable ergonomic tri-lobe grip prevents the device from rolling off a flat surface and being damaged
- Lightweight yet rugged construction
- Easy-to-read torque setting
- Certificate of Calibration included insures accuracy in conformance to ASMESM B107.300-2010 (B107.14) and ISO 6789:2003
- Torque screwdrivers calibrated to torque standards of the National Institute of Standards Technology (N.I.S.T.)

CODE				L IN
	IN.OZ.	OZ.		
QDRIVER2A	20-100	1	1/4	5 7/16



TORQUE SCREWDRIVERS



SCREWDRIVER; TORQUE; ADJUSTABLE; 3–15 IN-LB (34–169 N•CM); 1/4" DRIVE

- 1/4" square drive end complements earlier QDRIVER models with 1/4" hex bit holders
- Pin retains the socket to the square drive
- Freewheels 90 degrees when specified torque is obtained, competitive units without this freewheeling feature can cause over-torqueing of the fasteners
- Torques only in the clockwise direction; accuracy within ± 6 percent (from 20 percent to 100 percent full scale)
- New textured body provides a non-slip grip
- Comfortable ergonomic tri-lobe grip prevents the device from rolling off a flat surface and being damaged
- Lightweight yet rugged construction
- Easy-to-read torque setting
- Certificate of Calibration included insures accuracy in conformance to ASMESM B107.300-2010 (B107.14) and ISO 6789:2003
- Torque screwdrivers calibrated to torque standards of the National Institute of Standards Technology (N.I.S.T.)

CODE	IN.LBS.	NCM	IN.LBS		L IN
QDRIVER3A	3-15	34-169	0.2	1/4	6 1/4



SCREWDRIVER; TORQUE; ADJUSTABLE; 5–40 IN-LB (56–451 N•CM); 1/4" DRIVE

- 1/4" square drive end complements earlier QDRIVER models with 1/4" hex bit holders
- Pin retains the socket to the square drive
- Freewheels 90 degrees when specified torque is obtained, competitive units without this freewheeling feature can cause over-torqueing of the fasteners
- Torques only in the clockwise direction; accuracy within ± 6 percent (from 20 percent to 100 percent full scale)
- New textured body provides a non-slip grip
- Comfortable ergonomic tri-lobe grip prevents the device from rolling off a flat surface and being damaged
- Lightweight yet rugged construction
- Easy-to-read torque setting
- Certificate of Calibration included insures accuracy in conformance to ASMESM B107.300-2010 (B107.14) and ISO 6789:2003
- Torque screwdrivers calibrated to torque standards of the National Institute of Standards Technology (N.I.S.T.)

CODE	IN.LBS.	NCM	IN.LBS		L IN
QDRIVER4A	5-40	56-451	.5	1/4	6 11/16







TORQUE SCREWDRIVERS

TORQUE SCREWDRIVER WITH SCALE; ADJUSTMENT RING

- Micro adjustable torque screwdriver
- Accuracy $\pm 6\%$
- Over-torque limiting clutch
- 1/4" hex magnet spring loaded bit holder
- ISO 6789, ISO 1174









CODE				cNm	GR	
6973N	1/4	10-80 cNm	140 mm	Oct-80	200	
6976N	1/4	40-200 cNm	160 mm	40-200	260	
6978N	1/4	50-450 cNm	170 mm	50-450	300	



TORQUE SCREWDRIVER WITH DIAL INDICATION




- Adjustable torque screwdriver with dial indication
- Accuracy $\pm 6\%$
- Chrome plated finish
- Over-torque limiting clutch
- Reversible operation
- ESD safe (IEC 61340-5-1 & EN 100015-1)
- 1/4" hex drive
- ISO 6789

CODE						cNm	GR	
6881B	1/4	0-50 cNm	0.02 Nm	0-70 in.oz	178 mm	0-50	190	
6881D	1/4	0-100 cNm	0.05 Nm	0-140 in.oz	178 mm	0-100	190	



TORQUE SCREWDRIVER WITH SCALE; ADJUSTMENT RING






- Torque screwdriver with 1/4" - male square
- Smooth disengagement prevents over tightening
- Bi-directional operation with torque limiting effect
- Automatic re-setting by precision radial ball clutch
- Comprehensive range of accessories for universal applications
- Accuracy $\pm 6\%$
- DIN/ISO 6789/EN26789/1994

CODE					cNm	GR	
6976AN	1/4	20-120 cNm	0.01 Nm	160 mm	20-120	158	



TORQUE SCREWDRIVER WITH PRESET TORQUE VALUES

- Available with 1/4" female hexagon socket only
- Fitted with special twist/radial bearing which minimizes the effect of high operator end loads on torque output
- End cap has a 'finger dimple' enabling the tool to be used as a jewelers' screwdriver
- Specially shaped body profile
- Accuracy $\pm 5\%$

CODE					cNm	GR	
6975A	1/4	2-22 cNm	0.01 Nm	72 mm	2-22 cNm	50	



TORQUE SCREWDRIVERS



E.S400 - ELECTRONIC TORQUE SCREWDRIVERS



NORM: NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy: $\pm 2\%$ clockwise ($\pm 3\%$ counter clockwise) between 20% and 100% screwdriver capacity
- Resolution: 0.1 cN.m
- Measurement mode: tip or follower
- 1/4" outlet with auto-locking system for series 1 and series 6 bits
- Measurement unit: cN.m, in.lb, Kg.cm
- 9 torque presets available
- Memory 250 values with PC USB link
- Locking keypad (program selection and result log only accessible to the operator)
- Hole in the handle for strapping when working in high places
- Supplied with 1 AAA-LR03 1.5V battery
- Supplied with an ISO6789 calibration certificate
- Supplied in plastic case and foam module, dim. (L.xW.xH.): 570x100x70 mm
- USB cable E.S404-USB and plugs E.S404-KIT set available as spares





CODE		L MM	GR 
E.S401	0,1-1	215	630
E.S404	0,4-4	215	630

E.S400J1 - ELECTRONIC TORQUE SCREWDRIVER SETS - SCREWING BITS

NORM: NF EN ISO 6789, ISO 6789, DIN EN ISO 6789

- Accuracy: $\pm 2\%$ clockwise ($\pm 3\%$ counter clockwise) between 20% and 100% screwdriver capacity
- Resolution: 0.1 cN.m
- Measurement mode: tip or follower
- 1/4" outlet with auto-locking system for series 1 and series 6 bits
- Measurement unit: cN.m, in.lb, Kg.cm
- Presetting possible of 9 torque values
- Memory 250 values with PC USB link
- Locking keypad (program selection and result log only accessible to the operator)
- Hole in the handle for strapping when working in high places
- Supplied with 1 AAA-LR03 1.5V battery
- Supplied with an ISO6789 calibration certificate
- Screwdriver length 215 mm
- 6 series 6 bits with 1/4" groove - length 50 mm: slotted head 3 - 4 - 5.5 and Phillips® High Perf® 1 - 2 - 3
- Supplied in plastic case and foam module, dim. (L.xW.xH.): 570x100x70 mm
- USB cable E.S404-USB and plugs E.S404-KIT set available as spares



CODE		SCREWDRIVER	GR 
E.S401J1	0,1 - 1	E.S401	1170
E.S404J1	0,4 - 4	E.S404	1170

CALIBRATION AND TORQUE TESTING

7794-2 - MOTORISED CALIBRATING AND ADJUSTING TOOL FROM 1 TO 400 N·M



- The electronic Perfect Control calibrating unit with its electric drive considerably reduces the amount of effort and time required for calibration and adjustment tasks on torque wrenches
- Measurement possible without moving the point of application of force
- Prevents faulty readings thanks to precision-mounted spindle and finely regulated motor
- Extremely accurate calibration thanks to optimized bearings and square drives for the transducers
- Rapid, easy change of transducers thanks to quick-release latching system
- Convenient pushbutton controls for clockwise and anticlockwise measurements with automatic speed compensation
- Saves time because the bridge support is locked in place using a single-handed eccentric lever
- Transmission of readings to a PC via USB interface for further processing, analysis and archiving
- Calibration certificates can be printed or saved as a PDF file after calibration
- As found / as left calibrations can be documented
- During calibration, DIN EN ISO 6789:2003 in numerous languages is supported. Additional standards and works standards are available on request
- Can be upgraded to perfect Control calibrating unit No 7794-3 for angle-controlled wrenches
- Calibration up to 1000 N·m is possible using the easily attached extension unit No 7791-1
- Design patent, other patents applied for
- Both clicking and indicating torque wrenches can be calibrated. Calibration of transducers is possible using reference torque wrenches No 7770-100 and 7770-1000, available on request.
- 6 calibrating square drive insert tools No 734K (sizes 4, 5, 12, 20, 40, 100), 6 square drive adaptors (No 409M, No 7787, No 7788, No 7789, No 7789-4, No 7789-5), 1 USB adaptor No 7757-1, 1 software Torkmaster 7731-1, 1 jack cable No 7751, 1 spiral cable No 7752, 1 cable
- The unit is supplied without the torque wrench, transducers or notebook
- Transducers laboratory No 7728
- Supplied without torque wrench and transducer

CODE	CAPACITY N·M	FOR TRANSDUCER	FOR TORQUE WRENCHES WITH FUNCTIONAL LENGTH (LF) MAX.MM						KG
			PROFILE WIDTH MM	B MM	H MM	L MM			
96521093	1-400	7728 (sizes 1-100)	815	180	640	328	1060	57	



CALIBRATION AND TORQUE TESTING



7794-1 - MANUAL CALIBRATING UNIT FROM 1 TO 400 N·M

- As for Perfect Control No 7794-2, but the drive is via an ergonomically designed hand wheel
- Calibration up to 1000 N·m is possible using the easily attached extension unit No 7791-1.5)
- Patents applied for. 6 calibrating square drive insert tools No 734K (sizes 4, 5, 12, 20, 40, 100)
- 6 square drive adaptors (No 409M, No 7787, No 7788, No 7789, No 7789-4, No 7789-5)
- 1 USB adaptor No 7757-1, 1 software Torkmaster 7731-1, 1 jack cable No 7751, 1 spiral cable No 7752
- 1 cable No 7751-1 with jack plug and self-locking precision plug, 1 low-temperature cable connector
- 1 hexagon key wrench No 10760CV size 2 mm are included
- Supplied without torque wrench, transducer or notebook
- Transducers laboratory No 7728

CODE	CAPACITY		FOR TORQUE WRENCHES WITH FUNCTIONAL LENGTH (LF) MAX. MM	PROFILE WIDTH MM	B MM	H MM	L MM	KG
	N-M	FOR TRANSDUCER						
96521092	1-400	7728 (sizes 1-100)	815	180	705	355	1060	47



7794-3 - AUTOMATED CALIBRATING AND ADJUSTING UNIT FROM 1 TO 400 N·M

- Automatically calibrates electronic torque and angle-controlled wrenches made by STAHLWILLE
- Design patent, other patents applied for
- Model is the same as Perfect Control No 7794-2, except it is additionally suited to calibrating angle-controlled wrenches
- Optimum adaptation to working height with motorized height adjustment
- 6 calibrating square drive insert tools No 734K (sizes 4, 5, 12, 20, 40, 100), 6 square drive adaptors (No 409M, No 7787, No 7788, No 7789, No 7789-4, No 7789-5), 1 USB adaptor No 7757-1
- 1 hexagon key wrench No 10760CV size 2 mm are included
- Supplied without torque wrench, transducer or notebook
- Supplied without torque wrench and transducer

CODE	CAPACITY		FOR TORQUE WRENCHES WITH FUNCTIONAL LENGTH (LF) MAX. MM	PROFILE WIDTH MM	B MM	H MM	L MM	KG
	N-M	FOR TRANSDUCER						
96521094	1-400	7728 (sizes 1-100)	815	180	640	884-	1060	230



CALIBRATION AND TORQUE TESTING

7728 - TRANSDUCERS LABORATORY



- Patented, for laboratory environments, with optimized measuring range, for calibrating torque wrenches and torque screwdrivers
- For use together with Perfect Control calibrating unit No 7794 or calibration system No 7706
- High degree of accuracy thanks to conversion and digitization of readings within the transducer itself
- With high-grade self-locking precision plug
- Not susceptible to lateral forces due to low-profile construction
- With DAkkS calibration certificate
- Max. display deviation value $\pm 0.5\%$ of the reading
- Further details on request
- Supplied in sturdy plastic case
- Measuring ranges by deviation of indication

CODE	SIZE	DISPLAY DEVIATION VALUE $\pm 0.5\%$ OF THE READING	DISPLAY DEVIATION VALUE $\pm 0.25\%$ OF THE READING				
				MM	"	G	WITH BOX G
96524011	1S 1)	1-10 N·m; 0,74-7,4	2-10 N·m; 1,5-7,4 ft·lb;	120	1/4	1735	2415
96524001	1	1-10 N·m; 0,74-7,4	2-10 N·m; 1,5-7,4 ft·lb;	120	1/4	1735	2415
96524002	2	2-20 N·m; 1,5-15 ft·lb; 18-177 in·lb	4-20 N·m; 3-15 ft·lb; 35-177 in·lb	120	1/4	1735	2415
96524004	4	4-40 N·m; 3-30 ft·lb;	8-40 N·m; 6-30 ft·lb;	120	3/8	2486	3136
96524006	6	6-60 N·m; 4,5-45	12-60 N·m; 9-45 ft·lb;	120	3/8	2486	3136
96524010	10	10-100 N·m; 7-74	20-100 N·m; 14-74	120	3/8	2486	3136
96524020	20	20-200 N·m; 15-148	40-200 N·m; 30-148	120	1/2	2983	3170
96524040	40	40-400 N·m; 30-295 ft·lb; 354-3540 in·lb	80-400 N·m; 60-295 ft·lb; 708-3540 in·lb	156	1/2	4846	5507
96524065	65	65-650 N·m; 48-479	130-650 N·m; 96-479	156	3/4	4846	5507
96524080	80	80-800 N·m; 59-590 ft·lb; 708-7081 in·lb	160-800 N·m; 118-590 ft·lb; 1416-7081 in·lb	156	3/4	4846	5507
96524100	100	100-1000 N·m; 74-738 ft·lb; 885-8851 in·lb	200-1000 N·m; 148-738 ft·lb; 1770-8851 in·lb	156	3/4	4846	5507
96524300	300 2)	300-3000 N·m; 221-2214 ft·lb; 2655-26553 in·lb	600-3000 N·m; 443-2214 ft·lb; 5310-26553 in·lb	195	1 1/2	10500	12000



- For calibrating torque screwdrivers
- For use with mechanical loader No 7792 and 7792-1

7706-8PC - COMPLETE CALIBRATION SYSTEM

CODE	CAPACITY N·M	KG
96521068	1-10	14.2



Complete calibration systems with matched components



CALIBRATION AND TORQUE TESTING

7706-9PC - COMPLETE CALIBRATION SYSTEM



CODE	CAPACITY N-M	KG
96521069	2-100	67.6



Complete calibration systems
with matched components



7706-10PC - COMPLETE CALIBRATION SYSTEM

CODE	CAPACITY N-M	KG
96521070	2-1000	70.6

7706-11PC - COMPLETE CALIBRATION SYSTEM

CODE	CAPACITY N-M	KG
96521074	20-3000	108.4

7791 - MECHANICAL LOADERS UP TO 400 N-M

- Mechanical loaders for torque wrenches and torque screwdrivers requirements.
- Extensions with additional components are possible any time
- All the components are carefully matched to ensure compatibility and can be easily fitted
- This slot-in system is easy to use and has a very accurate fit
- The components can be quickly and easily locked together using the integrated screw joints
- The display unit can be attached at various points of the system via a holder. In this way, every user can organize his or her work to suit themselves
- Thanks to the modular design, end users can put together their own mechanical loader according to their specific requirements
- Extensions with additional components are possible any time
- All the components are carefully matched to ensure compatibility and can be easily fitted
- This slot-in system is easy to use and has a very accurate fit
- The components can be quickly and easily locked together using the integrated screw joints
- The display unit can be attached at various points of the system via a holder
- Every user can organize his or her work to suit themselves
- Measurement possible without moving the point of application of force
- Thanks to a specially designed force transmission system, mechanical loader No 7791 avoids the risk of the point of force application shifting during the calibration process
- The lever below the test rail is actuated in a linear direction by the hand wheel acting on a spindle
- The linear motion is translated into a rotary movement which acts on the transducer
- The torque wrench to be calibrated remains in the same position throughout the calibration process
- This prevents measuring errors caused by the point of force application being moved
- Thanks to a low-friction linear ball bearing, the torque wrench is automatically leveled as it is placed in the unit
- A further linear ball bearing ensures the contact with the torque wrench is friction-free
- The reduction in lateral forces acting on the transducer and in the friction on the point of contact with the torque wrench results in a corresponding reduction in mismeasurement
- Patents applied for

CODE	CAPACITY N-M	FOR TRANSDUCER	FOR TORQUE WRENCHES WITH FUNCTIONAL LENGTH (LF) MAX.MM	PROFILE					KG
				WIDTH MM	B MM	H MM	L MM		
52110091	-400	sizes 1-100	815	180	704	323	1069	26.5	



CALIBRATION AND TORQUE TESTING



7791-1 - EXTENSION UNIT FOR NO 7791, 7794-1 AND 7794-2 UP TO 1000 N·M

With one pair of adapter plates No 7770-3 for height compensation between extension unit No 77 and Perfect Control calibrating units No 7794-1 and No 7794-2.

CODE	CAPACITY N-M	FOR TORQUE WRENCHES WITH FUNCTIONAL		PROFILE				KG
		LENGTH (LF) MAX.MM	MAX.MM	WIDTH MM	B MM	H MM	L MM	
52110191	-1000	1390 (7791 + 7791-1)		180	308	135	673	5.4



7792 - MECHANICAL LOADERS UNIT TO 1000 N·M

Patents applied for.

CODE	CAPACITY N-M	FOR TORQUE WRENCHES WITH FUNCTIONAL		PROFILE WIDTH MM	B MM	H MM	L MM	KG
		FOR TRANSDUCER	LENGTH (LF) MAX.MM					
52110092	-1000	sizes 20; 100; 300	1390	270	722	323	1668.5	57



7792-1 - EXTENSION UNIT FOR NO 7792 UP TO 3000 N·M

With one pair of adapter plates No 7770-3 for height compensation between extension unit No 77 and Perfect Control calibrating units No 7794-1 and No 7794-2.

CODE	CAPACITY N-M	FOR TORQUE WRENCHES WITH FUNCTIONAL		PROFILE				KG
		LENGTH (LF) MAX.MM	MAX.MM	WIDTH MM	B MM	H MM	L MM	
52110192	-3000	2390 (7792 + 7792-1)		270	558	135	1073	23.9



7791-2 - TEST ATTACHMENT FOR TORQUE SCREWDRIVERS

- Test attachments for torque screwdrivers
- Can be bolted onto mechanical loader No 7791
- The torque screwdriver to be calibrated is inserted in the square mount of the transducer and fixed using the universal central clamp
- The hand wheel ensures that the required force is applied in a controlled manner to the torque screwdriver



CODE	CAPACITY N-M	B MM	H MM	T MM	KG

7790 - MECHANICAL LOADERS FOR TORQUE SCREWDRIVERS

- Can be bolted to mechanical loader No 7792
- The torque screwdriver to be calibrated is inserted in the square mount of the transducer and fixed using the universal central clamp
- The hand wheel ensures that the required force is applied in a controlled manner to the torque screwdriver
- Supplied without transducer or torque screwdriver



CODE	CAPACITY N-M	FOR TRANSDUCER	B MM	H MM	T MM	KG

CALIBRATION AND TORQUE TESTING

7750-1 - HOLDER



Accessory for display unit No 7750. Can be bolted to test attachments.

CODE	G
52101050	165



ELECTRONIC TORQUE TESTER FOR TORQUE WRENCHES SENSOTORK® 7707 W

- Compact torque tester for easy adaptation by replacement of the transducers
- High degree of accuracy thanks to flat transducer and conversion and digitalization of readings within the transducer
- High degree of safety through display showing actual torque read-off where clicking torque wrenches are used
- Electronic torque tester for torque wrenches, consisting of: transducer, patent, holder, display unit (registered design), tripod for display unit (with 1.5 m cable), spiral cable
- Main adaptor (110 V-230 V with interchangeable socket adaptors) or direct connection to 12 V in-car supply is possible
- Square drive adaptor (No 7707-2W, No 7707-2-1W, No 7707-2-2W, No 7707-3W)
- Kit for attaching the unit to a workbench or wall in a horizontal or vertical testing position for clockwise and anticlockwise use
- Units of measurement: N·m, ft·lb, in·lb.
- Easily interchangeable transducers are attached to the holder by means of a QuickRelease safety lock
- Low lateral forces thanks to low-profile transducers, automatic detection of the transducer, flexible and user friendly because the unit can be used horizontally or vertically and the display unit can be placed in many positions
- Additional tripod with 1.5 m cable for mounting the display unit to facilitate visual monitoring when using longer torque wrenches, especially broad measuring range from approx. 2% to 100% of rated value
- The software No 7759-4, including USB hub and jack cable, enables readings to be transferred to the PC for documenting and for generating calibration certificates in accordance with DIN EN 6789:2003 (no separate power supply needed, power comes from PC)
- While individual transducers are being recalibrated, the torque tester itself remains on-site for further use
- Wide range of application (-20°C to +60°C).
- Complies with DIN 51309: 2005, Class 2 and DKD-R 3-8: 2003
- With certificate
- Supplied in sturdy plastic case
- QuickRelease Safety Lock - Rapid change and firm locking of the transducers
- Interchangeable square drive adapters are conveniently stored in the mounting block for a range of different drive sizes

CODE	NO	CAPACITY N-M	CAPACITY FT-LB	CAPACITY IN-LB	□						
						B MM	H1 MM	H2 MM	T MM	G	G WITH BOX
96521086	7707-1-3W 1)	0,2-10	0,15-7,4	1,8-88,5	1/4	180	79	215	180	6255	9500
96521085	7707-1-2W	0,2-10	0,15-7,4	1,8-88,5	1/4	180	79	215	180	6255	9500
96521080	7707-1W	0,4-20	0,3-15	3,5-177	1/4	180	79	215	180	6255	9500
96521072	7707-2W 2)	2-100	1,5-74	18-885	3/8	180	79	215	180	7025	10300
96521083	7707-2-1W 3)	4-200	3-148	35-1770	1/2	180	79	215	180	7511	10975
96521084	7707-2-2W 4)	8-400	6-295	71-3540	3/4	180	79	215	180	7654	11100
96521082	7707-3W 4)	25-1100	18-812	221-9736	3/4	180	79	215	180	7495	11000

- 1) For calibrating torque screwdrivers
- 2) With square drive adaptor No 409M (1/4" x 3/8")
- 3) With square drive adaptors No 7789-4 (1/4" x 1/2"), No 7789-5 (3/8" x 1/2")
- 4) With square drive adaptors No 7787 (1/4" x 3/4"), No 7788 (3/8" x 3/4"), No 7789 (1/2" x 3/4")



CALIBRATION AND TORQUE TESTING



7750 - DISPLAY UNIT

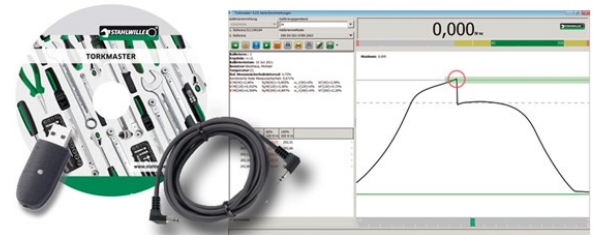
- Registered design, for displaying the actual torque as measured
- Units of measurement: N·m, ft·lb, in·lb.
- Modes of operation: track, peak hold, first peak (only with manual operation), additional display of actual torque applied with clicking torque wrenches
- Swivels to any desired position thanks to universal ball-joint

CODE	G
52100050	182



7759-4 - USB ADAPTOR, JACK CABLE AND SOFTWARE TORKMASTER

- Link between Perfect Control or transducer and PC
- For adjusting and calibrating torque wrenches and torque screwdrivers
- Produces calibration certificates in accordance with DIN EN ISO 6789: 2003, which can be printed out or saved as PDF files
- As found / as left calibrations can be documented
- User management
- 17 languages
- Equipment testing system
- System requirements: PC, Microsoft Windows XP SP3 or later operating system, USB connection
- Graphical representation of the torque progression



7751 - JACK CABLE

Connection between transducers 7721-7724 and USB adaptor or display unit, with jacks at both ends, 90° angled.

CODE	L M	G
52110051	1.5	50



7752 - SPIRAL CABLE

Connection between transducer and display unit or USB adaptor, with jacks at both ends, 90° angled.

CODE	L M	G
52110052	500	35



7751-1 - CABLE FOR NO 7728

For connecting laboratory transducers 7728 to a USB hub or display unit, with jack plug, 90° angled, and self-locking precision plug.

CODE	L M	G
52110054	1.5	50



7751-2 - SPIRAL CABLE FOR NO 7728

For connecting laboratory transducers 7728 to a USB hub or display unit, with jack plug, 90° angled, and self-locking precision plug.

CODE	L MAX.MM	G
52110057	500	40



CALIBRATION AND TORQUE TESTING

760 - MAINS ADAPTOR

Input: 110 V-230 V AC , Output: 9 V DC, with interchangeable socket adaptors.

CODE	VOLT	G
52110056	110-230	385



7761 - INTERFACE ADAPTOR

Required for automated calibration and adjustment of angle-controlled torque wrenches No 714 using calibrating and adjusting units Perfect Control No 7794-2 and 7794-3.

CODE	G
52110061	25



7761/3 - INTERFACE ADAPTOR SET

Contents: No 7761 interface adaptor, No 7752 spiral cable, No 7760 mains adaptor.

Required for automated calibration and adjustment of angle-controlled torque wrenches No 714 using calibrating and adjusting units Perfect Control No 7794-2 and 7794-3.

CODE	G
96521161	446



7311/7312 - PLASTIC CASE, EMPTY

For safe storage and transport of transducers (Inlays sold separately).

CODE	NO	FOR TRANSDUCER	G
81500003	7311	7721; 7722; 7723; 7728 1-20	554
81500004	7312	7728 40-100	1346



7313/7314 - INLAYS FOR PLASTIC CASE

CODE	NO	FOR TRANSDUCER	G
83071030	7313	7721; 7722; 7723; 7728 1-20	77
83071031	7314	7724-1; 7728 40-100	242

409M - SQUARE DRIVE ADAPTOR

1/4" socket x 3/8" plug (6.3 x 10).

CODE	L MM	MM	G
11030010	13	28	14



7787 - SQUARE DRIVE ADAPTOR

1/4" socket x 3/4" plug (6.3 x 20).

CODE	L MM	MM	G
58521087	15.5	29	41



CALIBRATION AND TORQUE TESTING



7788 - SQUARE DRIVE ADAPTOR

3/8" socket x 3/4" plug (10 x 20).

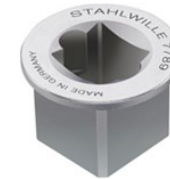
CODE	L MM	MM	G
58521088	23.5	29	52



7789 - SQUARE DRIVE ADAPTOR

1/2" socket x 3/4" plug (12,5 x 20).

CODE	L MM	MM	G
58521089	23.5	29	42



7789-2 - SQUARE DRIVE ADAPTOR

3/4" socket x 1 1/2" plug (20 x 40).

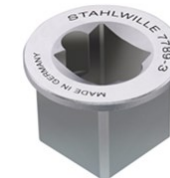
CODE	L MM	MM	G
58523089	44	60	383



7789-3 - SQUARE DRIVE ADAPTOR

1" socket x 1 1/2" plug (25 x 40).

CODE	L MM	MM	G
58524089	44	60	291



7789-4 - SQUARE DRIVE ADAPTOR

1/4" socket x 1/2" plug (6.3 x 12,5).

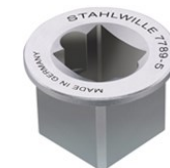
CODE	L MM	MM	G
58524090	15.5	29	25



7789-5 - SQUARE DRIVE ADAPTOR

3/8" socket x 1/2" plug (10 x 12,5).

CODE	L MM	MM	G
58524091	15.5	29	28



734K - CALIBRATING SQUARE DRIVE INSERT TOOLS

Without a ball or pin (so not suitable for bolt tightening). Optimum measuring calibration thanks to reduced lateral forces.

CODE	SIZE	"	MM	B MM	H MM	S MM	G
58243004	4	1/4	9x12	20	17.2	17.5	76



CALIBRATION AND TORQUE TESTING

E.2000 - TORQUE CONTROLLERS

- Accuracy: $\pm 1\%$, ± 1 digit
- Measuring unit: N.m, lb.ft, lbf.in.
- Measuring mode: monitor, edge and peak
- Possible presetting of a limit value and tolerance with orange, green, red LED indicator
- RS232 PC link
- Dimensions (L. x W. x H.): 150 x 150 x 90 mm
- Supplied with a calibration certificate



CODE	CONTENTS	CAPACITY [N.M]	SQUARE	SQUARE ["]	[KG]
E.2000-50	Box	2-50	/	3/8	2.60
E.2000-350	Roll: N.38A-8C	10-350	/	1/2	2.60
E.2000-1000	Roll: N.38A-9E	100-1000	27	/	4.60

DIGITAL TORQUE TESTER

- 2 Installation options, on a wall or fastened in a vice
- LCD touch pad screen, colored graphic display
- Downloads stored torque data to a PC
- Units of torque: Nm, kgcm, ft.lb., in.lb., in-oz.
- Audible (tone) and LED light-bar
- Present alerts torque accuracy: $\pm 0.5\%$ ± 1 count CW and CCW from 10 to 100% of full scale at 25° C
- Display accuracy: 4 digits, 9999 cycle counts
- Six "AA" Alkaline cells for battery power included
- Track, peak and first peak modes of operation
- Operating temperature: 40 to 110° F (5 to 42° C)
- Storage temperature: 0 to 122° F (-20 to 50° C); Humidity up to 85% non-condensing
- Manual available in 9 languages
- Traceability from 10% to 100% of full scale. Includes storage case, AC adapter and USB cable
- ISO-6789-2003 and ASME B107-28-2005 standards compliant



CODE					
CODE					G
74DTT-45	3/8	4.5-45 Nm	3.3-33 lb-ft	40-400 lb-in	5000
69DTT-5	1/4	0,5-5 Nm	0,4-4 lb-ft	4,4-44 lb-in	5
74DTT-100	3/8	10-100 Nm	7-75 lb-ft	88-880 lb-in	5
78DTT-340	1/2	34-340 Nm	25-250 lb-ft	300-3.000 lb-in	5
89DTT-800	3/4	80-800 Nm	60-580 lb-ft	705-7.050 lb-in	5



TORQUE CALIBRATION RIG

- Torque calibration rig for pre-settable torque screwdrivers
- The torque calibration rig guarantee an accuracy to within $\pm 2\%$ throughout the measuring range
- The torque calibration rig has a slave pointer and a pointer damping
- Aluminum body

CODE					
CODE					G
6976E/1	1/4" 3/8"	0.2-4 Nm	0.05 Nm	2-36 lbf.-in lb-in	1900
6976E/2	1/4" 3/8"	1-12 Nm	0.2 Nm	10-120 lbf.-in lb-in	1900



PLIERS

COMBINATION PLIERS CHROME VANADIUM

DIN ISO 5746

Pliers chrome plated, handles with multi-component grips with gripping zones for flat and round material, suitable for versatile use with cutting edges for soft and hard wire long cutting edges for thicker cables hardness approx. 60 HRC.

ARTICLE NO.	LENGTH
03 05 140	140 mm
03 05 160	160 mm
03 05 180	180 mm
03 05 200	180 mm



HIGH LEVERAGE COMBINATION PLIERS

Pliers black atramentized, head polished, handles with multi-component grips.

ARTICLE NO.	LENGTH
02 02 180	180 mm



MINI COMBINATION PLIERS

Pliers chrome plated, handles with multi-component grips.

ARTICLE NO.	LENGTH
08 05 110	110 mm



LINEMAN'S PLIERS

American style DIN ISO 5746 ASME B107.20

Pliers black atramentized, head polished, handles with multi-component grips.

ARTICLE NO.	LENGTH
09 02 240	240 mm



SNIPE NOSE SIDE CUTTING PLIERS (STORK BEAK PLIERS)

ARTICLE NO.	LENGTH	NOTES
26 13 200	200 mm	Pliers chrome plated, handles with multi-component grips.
26 22 200	200 mm	Pliers chrome plated, handles with multi-component grips.
29 25 160	160 mm	Pliers chrome plated, handles with multi-component grips, also suitable for soldering work.



PLIERS

GRIP PLIERS

Style 0: jaws for round workpieces, with wire cutter; pliers bright zinc plated

ARTICLE NO.	LENGTH
041 04 180	180 mm
041 04 250	250 mm
041 04 300	300 mm

Style 2: Straight jaws for flat material; pliers bright zinc plated

ARTICLE NO.	LENGTH
041 24 225	225 mm

Style 3: Long-Nose Grip Pliers, narrow, long jaws; pliers bright zinc plated

ARTICLE NO.	LENGTH
041 34 165	165 mm



KNIPEX COBRA® HIGHTECH WATER PUMP PLIERS

DIN ISO 8976

ARTICLE NO.	ADJUSTMENT POSITIONS			← →	⚖	
	Ø INCH	Ø MM	MM			MM
87 02 180	1 1/2	42	36	18	180	196
87 02 300	2 3/4	70	60	30	300	580
87 02 180 T	1 1/2	42	36	18	180	200
87 02 300 T	2 3/4	70	60	30	300	584
87 02 250	2	50	46	25	250	366
87 02 250 T	2	50	46	25	250	359



PLIERS WRENCHES PLIERS AND A WRENCH IN A SINGLE TOOL

DIN ISO 5743

ARTICLE NO.	EAN 4003773-	ADJUSTMENT POSITIONS			← →	⚖			
		INCH	MM	B1MM			B2 MM	B3 MM	MM
86 03 125	77497	7/8	23	11	3	5	9.5	125	105
86 03 150	69676	1	27	14	4.7	7	10.5	150	175
86 03 180	35466	1 3/8	35	13	5	8	12	180	254
86 03 250	33837	1 3/4	46	17	8	8	14	250	536
86 03 300	41429	2 3/8	60	22	9.5	9.5	15	300	729
86 05 150	69928	1	27	14	4.7	7	10.5	150	193
86 05 180	47162	1 3/8	35	13	5	8	12	180	277
86 05 180 T	80121	1 3/8	35	13	5	8	12	180	281
86 05 250	47841	1 3/4	46	17	8	8	14	250	571
86 05 250 T	80138	1 3/4	46	17	8	8	14	250	575



86 03 125



86 05 150



86 05 250 T

PLIERS

DIAGONAL CUTTERS

DIN ISO 5749

ARTICLE NO.	LENGTH	NOTES
70 05 180	180 mm	Pliers chrome plated, handles with multi-component grips
70 15 110	110 mm	Pliers chrome plated, handles with multi-component grips



KNIPEX X-CUT® COMPACT DIAGONAL CUTTERS





ARTICLE NO.	LENGTH	NOTES
73 05 160	160 mm	High lever transmission pliers chrome plated, handles with multi-component grips.
77 02 120 H	120 mm	Head mirror polished, handles with multi-component grips, round head.



ELECTRONICS PLIERS

DIN ISO 9655

Head mirror polished, handles with multi-component grips.

ARTICLE NO.	LENGTH			
35 12 115	115 mm		FLAT JAWS	BOX JOINT
35 22 115	115 mm		HALF-ROUND JAWS	BOX JOINT
35 32 115	115 mm			BOX JOINT
35 72 145	145 mm			BOX JOINT



ELECTRONIC SUPER KNIPS® ESD

DIN ISO 9654

INOX stainless steel; Head polished; Handles with multi-component grips; Vacuum-hardened.

ARTICLE NO.	LENGTH
78 13 125 ESD	125 mm



ELECTRONICS DIAGONAL CUTTERS ESD WITH INSERTED CARBIDE METAL CUTTING EDGES

DIN ISO 9654

INOX stainless steel; Head polished; Handles with multi-component grips; Vacuum-hardened.

ARTICLE NO.	LENGTH
77 02 120 H ESD	120 mm

Questions? Contact us at: Tool.Support@BoeingDistribution.com

PLIERS

PRECISION ELECTRONICS GRIPPING PLIERS ESD

DIN ISO 9655

Pliers burnished; Head polished; Handles with multi-component grips



Style 1: Flat, wide jaws

ARTICLE NO.	LENGTH
34 12 130 ESD	130 mm



Style 2: Half-round jaws

ARTICLE NO.	LENGTH
34 22 130 ESD	130 mm



Style 3: Round, pointed jaws

ARTICLE NO.	LENGTH
34 32 130 ESD	130 mm




PRECISION ELECTRONICS DIAGONAL CUTTERS

DIN ISO 9654


Pliers burnished; Head polished; Handles with multi-component grips

Style 1: Mini-head

ARTICLE NO.	LENGTH	
79 02 120	120 mm	




Style 2: Round head

ARTICLE NO.	LENGTH	
79 02 125	125 mm	




Style 3: Mini-head

ARTICLE NO.	LENGTH	
79 22 120	120 mm	



Style 4: Round head

ARTICLE NO.	LENGTH	
79 22 125	125 mm	



PLIERS

PRECISION CIRCLIP PLIERS FOR INTERNAL CIRCLIPS IN BORE HOLES

Pliers grey atramentized; Handles with non-slip plastic coating.

ARTICLE NO.	EAN 4003773-	STYLE	SIZE OF BORE, Ø MM	TIPS; Ø MM	MM	G
48 11 J0	048510	1	8-13	0.9	140	105
48 11 J1	048527	1	12-25	1.3	140	105
48 11 J2	048534	1	19 - 60	1.8	180	175
48 11 J3	048541	1	40 - 100	2.3	225	266
48 11 J4	048558	1	85 - 140	3.2	320	580
48 21 J01	048619	2	8-13	0.9	130	105
48 21 J11	048633	2	12-25	1.3	130	105
48 21 J21	048640	2	19 - 60	1.8	165	175
48 21 J31	048657	2	40 - 100	2.3	210	265
48 21 J41	048664	2	85 - 140	3.2	305	576
48 31 J0	079552	3	8 - 13	0.9	140	105
48 31 J1	073864	3	12-25	1.3	140	105
48 31 J2	073871	3	19 - 60	1.8	180	175



Article No. 48 11 J2
Style 1: DIN 5256 C
Straight tips
DIN 5256 C



Article No. 48 21 J21
Style 2: DIN 5254 B; 90°
Angled tips
DIN 5256 C

Technical change and errors excepted

PRECISION CIRCLIP PLIERS FOR EXTERNAL CIRCLIPS ON SHAFTS

Pliers grey atramentized; Handles with non-slip plastic coating.

ARTICLE NO.	EAN 4003773-	STYLE	SIZE OF BORE, Ø MM	TIPS; Ø MM	MM	G
46 11 A0	033950	1	3-10	0.9	140	85
46 11 A1	022909	1	10-25	1.3	140	86
46 11 A2	022916	1	19 - 60	1.8	180	134
46 11 A3	033974	1	40 - 100	2.3	210	220
46 11 A4	042532	1	85 - 140	3.2	320	505
46 13 A0	017417	1	3-10	0.9	140	85
46 13 A1	042990	1	10-25	1.3	140	82
46 13 A2	043003	1	19 - 60	1.8	180	133
46 13 A3	043010	1	40 - 100	2.3	210	211
46 21 A01	033967	2	3-10	0.9	125	85
46 21 A11	023005	2	10-25	1.3	125	85
46 21 A21	022923	2	19 - 60	1.8	170	132
46 21 A31	033981	2	40 - 100	2.3	200	219
46 21 A41	039365	2	85 - 140	3.2	300	510
46 23 A01	017509	2	3-10	0.9	125	84
46 23 A11	043027	2	10-25	1.3	125	84
46 23 A21	043034	2	19 - 60	1.8	170	132
46 23 A31	043041	2	40 - 100	2.3	200	221
46 31 A02	066996	3	3-10	0.9	130	83
46 31 A12	067009	3	10-25	1.3	130	85
46 31 A22	067016	3	19 - 60	1.8	185	133
46 31 A32	067023	3	40 - 100	2.3	210	213
46 31 A42	067030	3	85 - 140	3.2	310	511



Article No. 49 11 A2
Style 1: DIN 5254 A
Straight tips
DIN 5254 A



Article No. 49 21 A21
Style 2: DIN 5254 B; 90°
Angled tips
DIN 5254 B

Technical change and errors excepted

PLIERS

CONNECTOR PLIERS FOR CONNECTORS

For connectors and couplings with screw connection, such as Cannon circular connectors

ARTICLE NO.	EAN 4003773-	WORKING CAPACITY Ø MM	ADJUSTMENT POSITION	MM	G
81 13 250	78494	10-75	25	250	355



81 13 250

PLIERS SET - "BASIC" FOUR PLIERS IN A FOAM TRAY

ARTICLE NO.	EAN 4003773-	ITEMS INCLUDED	QUANTITY	G
00 20 01 V01	069645	03 05 180 COMBINATION PLIERS	1	1095
		26 15 200 SNIPE NOSE SIDE CUTTING PLIERS, (STORK BEAK PLIERS)	1	
		74 05 180 HIGH LEVERAGE DIAGONAL CUTTER	1	
		87 01 250 KNIPEX COBRA®, HIGHTECH WATER PUMP PLIERS	1	



00 20 01 V01

CIRCLIP PLIERS SET - SIX PRECISION CIRCLIP PLIERS IN A FOAM TRAY

ARTICLE NO.	EAN 4003773-	ITEMS INCLUDED	QUANTITY	G
00 20 01 V02	069652	48 11 J1 FOR INTERNAL CIRCLIPS IN BORE HOLES	1	915
		48 11 J2 FOR INTERNAL CIRCLIPS IN BORE HOLES	1	
		48 21 J21 FOR INTERNAL CIRCLIPS IN BORE HOLES	1	
		49 11 A1 FOR INTERNAL CIRCLIPS IN BORE HOLES	1	
		49 11 A2 FOR INTERNAL CIRCLIPS IN BORE HOLES	1	
		49 21 A21 FOR INTERNAL CIRCLIPS IN BORE HOLES	1	



00 20 01 V02

Technical change and errors excepted

6575 - WIRE TWISTING PLIERS

CODE	L MM	HEAD	HANDLES	G
65751220	230	GUNMETAL FINISH, POLISHED	GUNMETAL FINISH	330
65751280	280			440



65751220

65751280

DIGICRIMP®

THE INTELLIGENT 4/8 INDENT CRIMPING TOOL FOR PROCESSING TURNED CONTACTS

Digital - Easy Set Up, Easy Read Out

The multifunctional, digital display allows the user to differentiate between numerous settings. Depending on the desired application, the depth adjustment of the crimping indents can be set to mm, inch or according to selector stages of MIL-standard M22520/x in an exact manner. Changes are immediately displayed highly visible and legible.



Intelligent - More than Just a Digital Display

The true advantage of this crimping tool lies in the integrated, electronic control. The Digi Crimp features a patented wear-forecast-function and can be recalibrated.

What Does That Mean?

Any crimping tool is exposed to a certain mechanical wear and tear during usage, whereby the compression of the crimp decreases with the age of the tool. Even if the crimp falls within the tolerance range, the crimp cross section may not be optimal.

Unlike the Digi Crimp:

The integrated software prompts the user to recalibrate from time to time. The real wear is detected and is simultaneously compensated for. During the process of recalibration the distance of the crimping indents is set back to the "factory setting". The outcome is that almost constant crimping results will be achieved during the life of the Digi Crimp. Therefore, the wear has no impact on the crimping results; an optimal crimp will be achieved. This innovative system allows the user to conduct the recalibration themselves. Cost and time for the maintenance of the tool is therefore marginal.

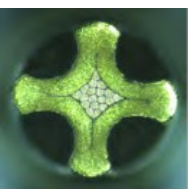
Great Precision - Perfect Crimping Results During the Entire Life of the Tool

Through the stageless adjustment, the Digi Crimp offers countless setting options. The Digi Crimp has 12 adjustment options within one selector setting. Consequently an optimal setting can be selected for any type of combination of cable and terminal to achieve an air-tight crimp connection over the life of the tool. The settings for new cable and terminal combination can be adjusted easily. Even the trend towards smaller cable cross sections due to an optimization of the conductance value is covered with this tool.

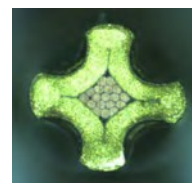


Innovative

The company was honored with the 2014 Innovation Award Thuringia in the category "Tradition & Future" for the intelligent tool Digi Crimp - the Digital 4/8-Indent Crimping Tool with Integrated Wearout-Monitoring Function. Through a stage-less adjustment an optimal crimp result is guaranteed.



- Optimal Crimp Connection Suboptimal Crimp Connection
- Indenter Setting .76 mm
- Cable Cross Section AWG 26 (corresponds to the upper range of selector setting 4 according to M22520/7)



- Indenter Setting .65mm
- Cable Cross Section AWG 26 (corresponds to the lower range of selector setting 4 according to M22520/7)

DIGICRIMP®

Aviation

4/8-Indent tools with an indenter geometry according to M22520 and adapter rings for adapting to the original locator according to M22520.

PRODUCT	ITEM NUMBER	MODEL	CAPACITY MM (2)	AWG	MAX Ø DIAMETER OF CONTACT MM	LOCATOR TYPE
8.72 according to M 22520/7-01	8726 0000 61	Digi Crimp "ML" in Case	0,08 - 2,5	28 - 13	4,0	09 14
8.73 according to M 22520/2-01	8736 0000 61	Digi Crimp "ML" in Case	0,03 - 0,5	32 - 20	3,6	12 15
8.75 according to M 22520/1-01	8756 0000 61	Digi Crimp "ML" in Case	0,14 - 6,0	26 - 10	5,5	11



Customer-specific locators for different connector systems are available upon request. The locators differ in type depending on the application.

Locator Type

01	04	18	17	07 14/15 ARE SIMILAR	08 11 IS SIMILAR	09	12

CABLE STRIPPING & DISMANTLING



A high quality conductive connection requires the proper removal of the cable sheath and careful stripping of the various conductors. The cable sheath can be removed quickly and cleanly using a suitable desheathing tool. The individual conductors must be stripped cleanly, to the correct length and without damage in the contact area. Pliers designed for this purpose come in two basic types: stripping pliers and self-adjusting insulation strippers.





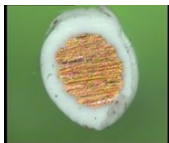

Stripping pliers with profile blades are designed for one or more defined conductor diameters. The cutting holes provide clean and safe stripping of the cross-section for which they were designed.

Self-adjusting insulation strippers adjust automatically to the required diameter and insulation thickness. There is virtually no risk of damaging the conductor. Cables up to 16 mm² can be stripped with these tools.

Frequently the cut depth of the stripper blade can be adjusted within a narrow range, and also to accommodate different materials. A length stop facilitates repeat stripping to a consistent strip length.

They are highly precise and individually adaptable.

- Adjustable length stop with scale 4-piece interchangeable blade set
- Precision mechanism of hardened spring steel tough and long-lasting
- Insulation stripper for special applications
- Special hand tool with length stop for high-quality stripping and dismantling of single and multi-wire cables ranging from 0.03 to 16 mm²
- Applicable for a great variety of insulations of differing hardness
- No pinching or deforming of cable ends, thanks to a special cutting mode
- Interchangeable blades for different wire ranges
- Customized blade designs on request
- Automatic release after operation

ARTICLE NO.	RANGE OF APPLICATIONS	CAPACITY		STRIP DIMENSIONS MM	STRIPPER PLATE PAIRS
708 212 3	Tool for special cable with PTFE, glass fiber braid and Kapton® film insulation	AWG 20-10		Ø 1,00 / Ø 1,20 Ø 1,40 / Ø 1,80 Ø 2,40 / Ø 2,80	
708 248 3	Tool for PTFE insulated cable	AWG 16 AWG 18 AWG 20 AWG 22 AWG 24 AWG 26		Ø 1,60 / Ø 1,40 Ø 1,10 / Ø 0,80 Ø 0,55 / Ø 0,30	
708 260 3	TOOL FOR PTFE INSULATED CABLE	AWG 14 AWG 16 AWG 18 AWG 20 AWG 22 AWG 24		Ø 1,9 Ø 1,5 Ø 1,3 Ø 1,1 Ø 0,9 Ø 0,7	



SCREWDRIVERS





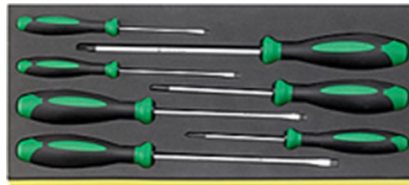
TCS 4620/4630 - DRALL+ SET; 7 PCS. IN TCS INLAY

175 x 350 x 35mm

Code: 96838278

Weight: 590g

	No 4620	Size 1 (0,6 x 3,5 x 75 mm) Size 2 (0,8 x 4,0 x 100 mm) Size 3 (1,0 x 5,5 x 125 mm) Size 4 (1,2 x 6,5 x 150 mm)
	No 4630	Sizes 1; 2; 3









TCS 4620/4660VDE+10767 - DRALL+ SET; 27 PCS. IN TCS INLAY





530 x 350 x 35 mm

Code: 96831168

Weight: 2080g

	No 4620	Size 1 (0,6 x 3,5 x 75 mm) Size 2 (0,8 x 4,0 x 100 mm) Size 4 (1,2 x 6,5 x 150 mm) Size 5 (1.6 x 8.0 x 175 mm) Size 6 (1.6 x 10.0 x 200 mm) Size 7 (2.0 x 12.0 x 200 mm)
	No 4628	Size 1 (0,4 x 2,5 x 60 mm)
	No 4630	Sizes 1; 2; 3
	No 4632	Size 4
	No 4640	Sizes 0; 1; 2
	No 4660 VDE	Size 1 (0.4 x 2.5 x 75 mm)









	No 4724	Size 2 (1.0 x 5.5 x 25 mm)
	No 4734	Size 2
	No 4744	Size 1
	No 10767/9	Sizes 1,5; 2; 2,5; 3; 4; 5; 6; 8; 10 mm

TCS 4620/4660VDE - DRALL+ SET; 18 PCS. IN TCS INLAY




530 x 350 x 40 mm

Code: 96831179

Weight: 1689g

	No 4620	Size 1 (0,6 x 3,5 x 75 mm) Size 2 (0,8 x 4,0 x 100 mm) Size 4 (1,2 x 6,5 x 150 mm) Size 5 (1.6 x 8.0 x 175 mm) Size 6 (1.6 x 10.0 x 200 mm) Size 7 (2.0 x 12.0 x 200 mm)
	No 4628	Size 1 (0,4 x 2,5 x 60 mm)
	No 4630	Sizes 1; 2; 3
	No 4632	Size 4
	No 4640	Sizes 0; 1; 2
	No 4660 VDE	Size 1 (0.4 x 2.5 x 75 mm)



	No 4724	Size 2 (1.0 x 5.5 x 25 mm)
	No 4734	Size 2
	No 4744	Size 1

SCREWDRIVERS












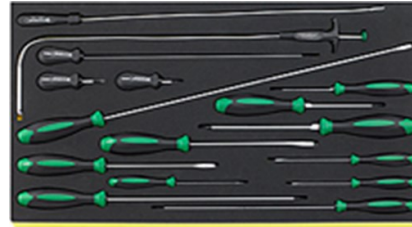
TCS 4621/4734/16 - DRALL+ SET; 16 PCS. IN TCS INLAY

530 x 350 x 40 mm

Code: 96832098

Weight: 1490g

	No 4621	Size 0 (0,4 x 2,5 x 80 mm) Size 1 (0,5 x 3,5 x 90 mm) Size 2 (0,6 x 4,0 x 100 mm) Size 4 (1,0 x 6,5 x 140 mm) Size 5 (1,2 x 8,0 x 160 mm)
	No 4631	Size 1; 2
	No 4632	Size 1; 2; 3
	No 4724	Size 2 (1,0 x 5,5 x 25 mm)
	No 4734	Size 2
	No 10506	0,8 x 4 x 300 mm
	No 10518	1,0 x 5,5 x 410 mm
	No 12600	500 g
	No 12922E	∅ 6 mm











TCS 4622/4650+10760+10766 - DRALL+ SET; 36 PCS. IN TCS INLAY

530 x 350 x 40 mm

Code: 96831196

Weight: 1895g

	No 4622	Size 1 (1,0 x 5,5 x 100 mm) Size 2 (1,2 x 6,5 x 125 mm) Size 4 (1,6 x 10,0 x 175 mm) Size 5 (2,0 x 12,0 x 200 mm)
	No 4630	Size 1
	No 4632	Size 3
	No 4650	Sizes T6; T7; T8; T9; T10; T15; T20; T25; T27; T30
	No 4724	Size 2 (1 x 5,5 x 25 mm)
	No 4734	Size 2
	No 10760CV/9	Sizes 1,5; 2; 2,5; 3; 4; 5; 6; 8; 10 mm
	No 10766/9	Sizes T8; T9; T10; T15; T20; T25; T27; T30; T40



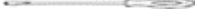





SCREWDRIVERS



4691 - DRALL+ SET; 7 PCS.

Code: 96469110

Weight: 610g





	No 4620		Size 1 (0,6 x 3,5 x 75 mm) Size 2 (0,8 x 4,0 x 100 mm) Size 3 (1.0 x 5.5 x 125 mm) Size 4 (1.2 x 6.5 x 150 mm)
	No 4628		Size 1 (0,4 x 2,5 x 60 mm)
	No 4630		Sizes 1; 2



4692 - DRALL+ SET; 8 PCS.

Code: 96469210

Weight: 870g











	No 4620		Size 1 (0,6 x 3,5 x 75 mm) Size 2 (0,8 x 4,0 x 100 mm) Size 3 (1.0 x 5.5 x 125 mm) Size 4 (1.2 x 6.5 x 150 mm) Size 5 (1.6 x 8,0 x 175 mm)
	No 4630		Sizes 1; 2; 3



4693 - DRALL+ SET; 9 PCS.

Code: 96469310

Weight: 950g







	No 4622		Size 1 (1,0 x 5,5 x 100 mm) Size 2 (1,2 x 6,5 x 125 mm) Size 3 (1.2 x 8.0 x 150 mm) Size 4 (1,6 x 10,0 x 175 mm)
	No 4628		Size 1 (0,4 x 2,5 x 60 mm)
	No 4632		Sizes 1; 2
	No 4724		Size 2 (1 x 5,5 x 25 mm)
	No 4734		Size 2



4798 - SET OF REVERSIBLE SCREWDRIVERS; 11 PCS.

Code: 96479801

Weight: 745g

	0,6 x 3,5; 0,8 x 4,0; 1,0 x 5,5; 1,2 x 6,5 mm
	Sizes 1; 2
	Sizes 1; 2
	3; 4; 5; 6 mm
	3; 4; 5; 6 mm (ball end)
	T10; T15; T20; T25; T30; T40







SCREWDRIVERS



4695 VDE - VDE SCREWDRIVER SET DRALL; 6 PCS.

VDE insulated up to 1000 V DIN EN 60900 



Code: 96469510 Weight: 620g


	4660 VDE 	Size 1 (0.4 x 2.5 x 75 mm) Size 3 (0.6 x 3.5 x 100 mm) Size 5 (1.0 x 5.5 x 125 mm) Size 6 (1.2 x 6.5 x 150 mm)
	4665 VDE 	Sizes 1; 2



4660 VDE - VDE SCREWDRIVERS DRALL+



VDE-insulated screwdrivers. Manufactured to meet the current demands of IEC 60900 C and are individually tested in a water bath to 10,000 V. High-grade materials guarantee absolute safety when working on AC systems up to 1000 V (effective voltage) or 1500 V DC.


- For slotted screws
- Chrome Alloy Steel
- Blade gunmetal finished
- VDE insulated up to 1000 V
- DIN EN 60900
- AC/1000 V  

CODE	SIZE	A MM	B MM	L1 MM	L2 MM	G 
46601025	1	0.4	2.5	75	160	43
46601030	2	0.5	3	100	185	39
46601035	3	0.6	3.5	100	205	42
46601040	4	0.8	4	100	205	46
46601055	5	1	5.5	125	240	93
46601065	6	1.2	6.5	150	265	120
46601080	7	1.2	8	175	300	170



4665 VDE - VDE CROSS-HEAD SCREWDRIVERS DRALL+

- Phillips-Recess®
- Chrome Alloy Steel
- Blade gunmetal finished
- VDE insulated up to 1000 V
- DIN EN 60900
- AC/1000 V  



CODE	PH SIZE	L1 MM	L2 MM	G 
46651000	0	60	145	35
46651001	1	80	185	47
46651002	2	100	215	89
46651003	3	150	275	159




SCREWDRIVERS





4670 VDE - VDE CROSS-HEAD SCREWDRIVERS DRALL+


- POZIDRIV/SUPADRIV®
- Chrome Alloy Steel
- Blade gunmetal finished
- VDE insulated up to 1000 V
- DIN EN 60900
- AC/1000 V  

CODE	PH SIZE	L1 MM	L2 MM	G	
46701000	0	60	145	36	
46701001	1	80	185	46	
46701002	2	100	215	89	



4675 VDE - VDE TORX® SCREWDRIVERS DRALL+


- For inside TORX® screws
- Chrome Alloy Steel
- Blade gunmetal finished
- VDE insulated up to 1000 V
- DIN EN 60900
- AC/1000 V  

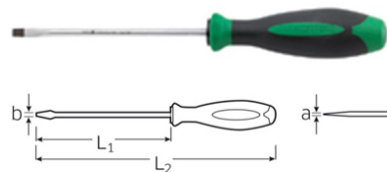
CODE	SIZE	MM	L1 MM	L2 MM	G	
46750008	T8	2.3	60	145	22	
46750010	T10	2.7	60	145	22	
46750015	T15	3.3	75	180	40	
46750020	T20	3.8	100	205	47	
46750025	T25	4.4	100	205	51	
46750030	T30	5.5	100	215	93	



4620 - SCREWDRIVERS FOR SLOTTED SCREWS DRALL+


DIN ISO 2380-1, -2, DIN 5264, ISO 2380-1, -2; Chrome Alloy Steel; Chrome-plated, Black Tips

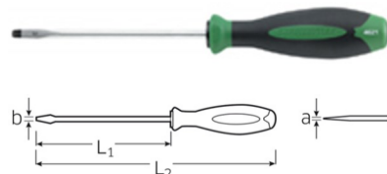
CODE	SIZE	A MM	B MM	L1 MM	L2 MM	G	
46201035	1	0.6	3.5	75	160	37	
46201040	2	0.8	4	100	185	40	
46201055	3	1	5.5	125	240	79	
46201065	4	1.2	6.5	150	265	100	
46201080	5	1.6	8	175	300	136	
46201100	6	1.6	10	200	325	163	
46201120	7	2	12	250	375	215	



4621 - SCREWDRIVERS FOR SLOTTED SCREWS DRALL+

Parallel blades as per VSM (Swiss Standard); Chrome Alloy Steel; Chrome-plated, Black Tips

CODE	SIZE	A MM	B MM	L1 MM	L2 MM	G	
46211025	0	0.4	2.5	80	165	36	
46211035	1	0.5	3.5	90	175	40	
46211040	2	0.6	4	100	185	42	
46211055	3	0.8	5.5	120	235	78	
46211065	4	1	6.5	140	255	96	
46211080	5	1.2	8	160	275	117	
46211100	6	1.6	10	180	305	160	



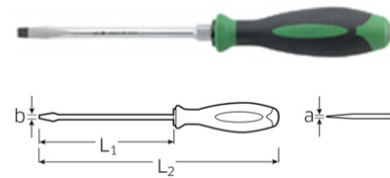
SCREWDRIVERS



4622 - SCREWDRIVERS FOR SLOTTED SCREWS DRALL+

DIN ISO 2380-1, -2, DIN 5264, ISO 2380-1, -2; With hexagon; Chrome Alloy Steel; Chrome-plated; Black Tips

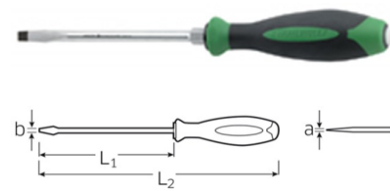
CODE	SIZE	A MM	B MM	L1 MM	L2 MM	G	
46221055	1	1	5.5	100	215	85	
46221065	2	1.2	6.5	125	240	100	
46221080	3	1.2	8	150	275	159	
46221100	4	1.6	10	175	300	174	
46221120	5	2	12	200	325	240	
46221140	6	2.5	14	250	375	310	



4622SK - ELECTRICIANS SCREWDRIVERS FOR SLOTTED SCREWS DRALL+

DIN ISO 2380-1, -2, DIN 5264, ISO 2380-1, -2; With impact cap and hexagonal shank; Chrome Alloy Steel; Chrome-plated; Black Tips

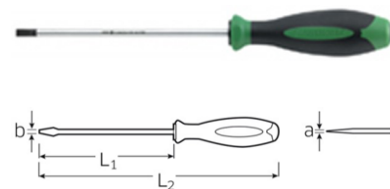
CODE	SIZE	A MM	B MM	L1 MM	L2 MM	G	
46220040	1	0.8	4	90	195	50	
46220055	2	1	5.5	100	215	106	
46220065	3	1.2	6.5	125	240	135	
46220080	4	1.2	8	150	275	191	
46220100	5	1.6	10	175	300	226	
46220120	6	2	12	200	325	267	
46220140	7	2.5	14	250	375	340	



4628 - ELECTRICIANS SCREWDRIVERS FOR SLOTTED SCREWS DRALL+

DIN ISO 2380-1, -2, DIN 5264, ISO 2380-1, -2; Chrome Alloy Steel; Chrome-plated; Black Tips

CODE	SIZE	A MM	B MM	L1 MM	L2 MM	G	
46281025	1	0.4	2.5	60	145	20	
46281035	2	0.6	3.5	75	160	40	
46282035	3	0.6	3.5	100	185	41	
46281040	4	0.8	4	125	210	46	
46281055	5	1	5.5	150	265	92	
46282055	6	1	5.5	200	315	102	



4724 - CARBURETTOR SCREWDRIVERS DRALL; STUBBY

DIN ISO 2380-1, -2, DIN 5264, ISO 2380-1, -2; Chrome Alloy Steel; Chrome-plated; Black Tips

CODE	SIZE	A MM	B MM	L1 MM	L2 MM	G	
47241045	1	0.6	3.5	25	80	34	
47241060	2	1	5.5	25	80	32	
47241080	3	1.2	8	25	80	39	



SCREWDRIVERS



4734 - CROSS-HEAD SCREWDRIVERS DRALL; STUBBY

DIN ISO 8764-1, -2, ISO 8764-1, -2; Phillips-Recess®; Chrome Alloy Steel; Chrome-plated; Black Tips

CODE	SIZE	L1 MM	L2 MM	G	
47341001	1	25	80	27	
47341002	2	25	80	31	



4630 - CROSS-HEAD SCREWDRIVERS DRALL+

DIN ISO 8764-1, -2, ISO 8764-1, -2; Phillips-Recess®; Chrome Alloy Steel; Chrome-plated; Black Tips

CODE	PH SIZE	L1 MM	L2 MM	G	
46301000	0	60	145	35	
46301001	1	80	185	44	
46301002	2	100	215	90	
46301003	3	150	275	146	



4631 - CROSS-HEAD SCREWDRIVERS DRALL+; EXTRA LONG

DIN ISO 8764-1, -2, ISO 8764-1, -2; Phillips-Recess®; Chrome Alloy Steel; Chrome-plated; Black Tips

CODE	PH SIZE	L1 MM	L2 MM	G	
46311001	1	250	355	110	
46311002	2	250	365	122	



4632 - CROSS-HEAD SCREWDRIVERS DRALL+; WITH HEXAGON

DIN ISO 8764-1, -2, ISO 8764-1, -2; Phillips-Recess®; Chrome Alloy Steel; Chrome-plated; Black Tips

CODE	PH SIZE	L1 MM	L2 MM	G	
46321001	1	80	185	45	
46321002	2	100	215	100	
46321003	3	150	275	170	
46321004	4	200	325	237	



4632SK - CROSS-HEAD SCREWDRIVERS DRALL+; WITH IMPACT CAP AND HEXAGONAL SHANK

DIN ISO 8764-1, -2, ISO 8764-1, -2; Phillips-Recess®; Chrome Alloy Steel; Chrome-plated; Black Tips

CODE	PH SIZE	L1 MM	L2 MM	G	
46320001	1	85	190	58	
46320002	2	100	215	130	
46320003	3	150	275	194	



SCREWDRIVERS



4636 - TORQ-SET® SCREWDRIVERS DRALL+

TORQ-SET®; Hexagonal Blade; Phosphatized

CODE	NO	L1 MM	L2 MM	OUTSIDE	"	G	
46360002	2	100	215	1/4		92	
46360004	4	100	215	1/4		93	
46360006	6	100	215	1/4		92	
46360008	8	100	215	1/4		93	
46360010	10	100	215	1/4		93	
46360016	1/4	150	265	5/16		138	



4797 - ELECTRONICS SCREWDRIVERS SET; 7 PCS.

Code: 96479710

Weight: 285g

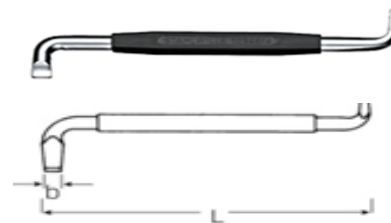
4751		Size 4 (0.3 x 1.5 x 40 mm) Size 6 (0.4 x 2.0 x 60 mm) Size 7 (0.4 x 2.5 x 75 mm) Size 8 (0.5 x 3.0 x 75 mm)
4752		Size 00 Size 0 Size 1



10546 - OFFSET SCREWDRIVERS; FOR SLOTTED SCREWS

DIN 5200; Center handle covered with impact proof plastic; Chrome Vanadium; Chrome-plated;

CODE	SIZE	A MM	B MM	L MM	G	
73272001	1	0.6	3.5	90	9	
73272002	2	0.8	4	100	12	
73272003	3	1	5.5	125	29	
73272004	4	1.2	8	150	69	



10551 - OFFSET SCREWDRIVERS; FOR RECESSED HEAD SCREWS

DIN 5208; Phillips-Recess®; Center handle covered with impact proof plastic; Chrome-plated

CODE	PH SIZE	L MM	G	
73282012	1 x 2	125	29	
73282023	2 x 3	150	73	

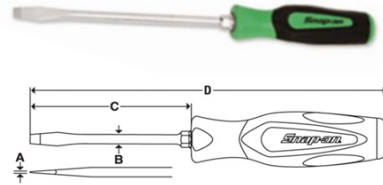


SCREWDRIVERS



FLAT TIP INSTINCT® CABINET SOFT GRIP GREEN SCREWDRIVER

CODE	TIP WIDTH	BLADE DIA.	BLADE LENGTH	LENGTH
	A INCHES	B INCHES	C INCHES	D INCHES
SGD146BG	.030	3/16	5 3/16	10 1/8
SGD1410BG	.032	3/16	10	14 5/32
SGD1416BG	.032	3/16	16	20 5/32
SGD4120BG	.032	1/4	11 15/16	16 3/4
SGD4100BG	.032	1/4	9 15/16	14 3/4
SGD480BG	.032	1/4	7 15/16	12 3/4
SGD2BG	.035	7/32	2 13/16	6 15/16
SGD4BG	.040	1/4	3 15/16	8 27/32
SGD6BG	.050	5/16	5 15/16	10 27/32
SGD8BG	.055	3/8	7 29/32	13 13/32
SGD10BG	.055	3/8	10	15 7/16
SGD424BG	.046	1/4	24	28 3/4



FLAT TIP INSTINCT® SOFT GRIP GREEN SCREWDRIVER SET; 5 PCS.

CODE	CONTENT
SGD550BG	SGD2BG
	SGD4BG
	SGD6BG
	SGD304BG
	SGD306BG



FLAT TIP INSTINCT® MINI-TIP SOFT GRIP GREEN SCREWDRIVER

CODE	TIP WIDTH	BLADE DIA.	BLADE LENGTH	LENGTH
	A INCHES	B INCHES	C INCHES	D INCHES
SGD304BG	.020	1/8	3	5 7/8
SGD306BG	.030	3/16	3	5 7/8



SCREWDRIVERS

PHILLIPS® INSTINCT® CABINET SOFT GRIP GREEN

CODE	TIP NO A	BLADE DIA. B INCHES	BLADE LENGTH C INCHES	LENGTH D INCHES
SGDP300BG	0	1/8	3	6
SGDP31IRBG	1	3/16	2 31/32	7 1/8
SGDP301BG	1	3/16	3	6
SGDP61BG	1	3/16	6	10
SGDP101BG	1	3/16	10	14 1/8
SGDP116BG	1	3/16	16	20 5/32
SGDP42IRBG	2	1/4	3 31/32	8 7/8
SGDP62IRBG	2	1/4	6	10 7/8
SGDP82BG	2	1/4	8	13
SGDP216BG	2	3/16	16	20 5/32
SGDP122BG	2	1/4	12	17
SGDP102BG	2	1/4	9 3/8	14 1/4
SGDP242BG	2	1/4	24	28 3/4
SGDP63IRBG	3	5/16	5 29/32	10 13/16
SGDP64IRBG	4	3/8	6	11 1/2
SGDP84BG	4	3/8	8	15 5/8



PHILLIPS® INSTINCT® SOFT GRIP GREEN SCREWDRIVER SET; 5 PCS.

Code: SGDP50BG

	SGDP31IRBG
	SGDP42IRBG
	SGDP63IRBG
	SGDP300BG
	SGDP301BG



COMBINATION INSTINCT® SOFT GRIP SCREWDRIVER SET; 6 PCS.

Code: SGDX60BG

	SGD2BG
	SGD4BG
	SGD6BG
	SGDP31IRBG
	SGDP42IRBG
	SGDP63IRBG



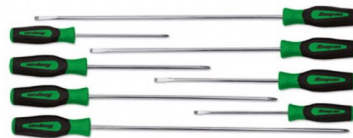
SCREWDRIVERS



INSTINCT® SOFT GRIP EXTRA-LONG COMBINATION CABINET; 8 PCS.

Code: SGDXL80BG

	SGD146BG
	SGD480BG
	SGD4120BG
	SGD4160BG
	SGDP61BG
	SGDP82BG
	SGDP122BG
	SGDP162BG



INSTINCT® SOFT GRIP COMBINATION SCREWDRIVER SET; 8 PCS.

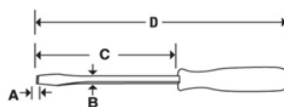
Code: SHDX80G

	SHD1G
	SHD2G
	SHD4G
	SHD6G
	SHD8G
	SHDP22IRG
	SHDP31IRG
	SHDP42IRG



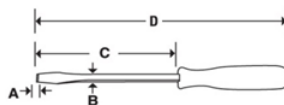
PHILLIPS® .018" X 1/8" ELECTRONIC THIN BLADE SCREWDRIVER

CODE	TIP WIDTH A INCHES	BLADE DIA. B INCHES	BLADE LENGTH C INCHES	LENGTH D INCHES
SSDE43C	.018 x 1/8	1/8	3	6 5/16
SSDE44C	.018 x 1/8	1/8	4	7 5/16
SSDE46C	.018 x 1/8	1/8	6	9 5/16
SSDE48C	.018 x 1/8	1/8	8	11 5/16
SSDE42C	.018 x 1/8	1/8	2	5 5/16



PHILLIPS® .028" X 3/16" ELECTRONIC THIN BLADE SCREWDRIVER

CODE	TIP WIDTH A INCHES	BLADE DIA. B INCHES	BLADE LENGTH C INCHES	LENGTH D INCHES
SSDE64C	.028 x 3/16	3/16	4	7 9/16
SSDE68C	.028 x 3/16	3/16	8	11 9/16

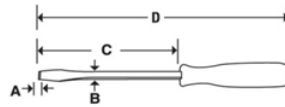


SCREWDRIVERS



PHILLIPS® .030" X 3/16" ELECTRONIC THIN BLADE SCREWDRIVER

CODE	TIP WIDTH A INCHES	BLADE DIA. B INCHES	BLADE LENGTH C INCHES	LENGTH D INCHES
SSDE63C	.030 x 3/16	3/16	3	9 9/16
SSDE66C	.030 x 3/16	3/16	6	6 9/16
SSDE610C	.030 x 3/16	3/16	10	13 9/16



PHILLIPS® ELECTRONIC THIN BLADE SCREWDRIVER

CODE	TIP WIDTH A INCHES	BLADE DIA. B INCHES	BLADE LENGTH C INCHES	LENGTH D INCHES
SSDEP30C	#0	1/8	3	6 3/8
SSDEP31C	#1	3/16	3	6 5/8
SSDEP61C	#1	3/16	6	9 5/8



FLAT TIP, ELECTRONIC MINIATURE SCREWDRIVER, 5-3/4"

CODE	TIP WIDTH A MM	BLADE DIA. B INCHES	BLADE LENGTH C INCHES	LENGTH D INCHES
SGDE225ESD	2.5	3/32	2	5 3/4
SGDE215ESD	1.5	1/8	2	5 1/2
SGDE220ESD	2	3/32	2	5 3/4
SGDE230ESD	3	1/8	2	5 3/4



FLAT TIP, ELECTRONIC MINIATURE SCREWDRIVER, LONG, 11-3/8"

CODE	TIP WIDTH A MM	BLADE DIA. B INCHES	BLADE LENGTH C INCHES	LENGTH D INCHES
SGDEL8ESD	-	1/8	8	11 3/8



PHILLIPS® TIP, ELECTRONIC MINIATURE SCREWDRIVER, 5-3/4"

CODE	TIP WIDTH A MM	BLADE DIA. B INCHES	BLADE LENGTH C INCHES	LENGTH D INCHES
SGDEP200ESD	#00	1/8	2	5 3/4
SGDEP20ESD	#0	1/8	2	5 3/4



SCREWDRIVERS



PHILLIPS® TIP, ELECTRONIC MINIATURE SCREWDRIVER, LONG, 11-3/8"

CODE	TIP WIDTH A	BLADE DIA. B	BLADE LENGTH C	LENGTH D
	MM	INCHES	INCHES	INCHES
SGDELP8ESD	#0	1/8	8	11 3/8



PHILLIPS® TIP, ELECTRONIC MINIATURE SCREWDRIVER, 6-1/2"

CODE	TIP WIDTH A	BLADE DIA. B	BLADE LENGTH C	LENGTH D
	MM	INCHES	INCHES	INCHES
SGDEP21ESD	#1	3/16	3	6 1/2



PHILLIPS® TIP, ELECTRONIC MINIATURE SCREWDRIVER, 13-3/8"

CODE	TIP WIDTH A	BLADE DIA. B	BLADE LENGTH C	LENGTH D
	MM	INCHES	INCHES	INCHES
SGDELP10ESD	#1	3/16	10	13 3/8



ELECTRONIC MINIATURE SCREWDRIVER, HEX

CODE	TIP WIDTH HEX SIZE	BLADE DIA. B	BLADE LENGTH C	LENGTH D
		INCHES	INCHES	INCHES
SGDEH304ESD	1/16	3/32	2	5 1/2
SGDEH306ESD	3/32	1/8	3	6 1/2
SGDEH320ESD	5/64	3/32	2	5 1/2
SGDEH307ESD	7/64	3/16	3	6 1/2
SGDEH315ESD	1.5	3/32	2	5 1/2
SGDEH320ESD	5/64	3/32	2	5 1/2
SGDEH325ESD	2.5	3/32	3	6 1/2
SGDEH330ESD	3	3/16	3	6 1/2



ELECTRONIC MINIATURE HEX SCREWDRIVER SET; 7 PCS.

CODE	CONTENT
SGDEH70ESD	SGDEH304ESD
	SGDEH325ESD
	SGDEH306ESD
	SGDEH307ESD
	SGDEH320ESD
	SGDEH330ESD
	SGDEH315ESD



SCREWDRIVERS



FLAT TIP .015" X 3/32" POTENTIOMETER ADJUSTER BLACK SCREWDRIVER

CODE	TIP WIDTH	SHANK DIA.	BLADE LENGTH	LENGTH
	A INCHES	B INCHES	C INCHES	D INCHES
SSDE33C	.015 x 3/32	3/32	3	5 9/16



ELECTRONIC MINIATURE TORX® SCREWDRIVER

CODE	TORX #	BLADE DIA.	BLADE LENGTH	LENGTH
		B INCHES	C INCHES	D INCHES
SGDET26ESD	T 6	1/8	2	5 1/2
SGDET27ESD	T 7	1/8	2	5 1/2
SGDET28ESD	T 8	1/8	2	5 1/2
SGDET29ESD	T 9	1/8	2	5 1/2
SGDET210ESD	T 10	1/8	2	5 1/2
SGDET215ESD	T15	3/16	3	6 1/2
SGDET220ESD	T20	3/16	3	6 1/2



ELECTRONIC MINIATURE TORX® SCREWDRIVER SET; 7 PCS.

CODE	CONTENTS
SGDET70ESD	SGDET26ESD
	SGDET27ESD
	SGDET28ESD
	SGDET29ESD
	SGDET210ESD
	SGDET215ESD
	SGDET220ESD



SCREWDRIVERS

SLOTTED SCREWDRIVERS

- Handle: 2-component handle with vertical grooves for comfortable grip and maximum force transmission
- Anti-slip surface
- Permanent symbol on the handle for quick identification of the tip



CODE							
B191.025.075	2.5 mm	0.4 mm	20 g	95 mm	75 mm	24,5 mm	170 mm
B191.030.075	3 mm	0.5 mm	27 g	95 mm	75 mm	24,5 mm	170 mm
B191.030.100	3 mm	0.5 mm	28 g	95 mm	100 mm	24,5 mm	195 mm
B191.030.200	3 mm	0.5 mm	30 g	95 mm	200 mm	24,5 mm	295 mm
B191.035.100	3.5 mm	0.6 mm	30 g	95 mm	100 mm	24,5 mm	195 mm
B191.040.100	4 mm	0.8 mm	44 g	95 mm	100 mm	24,5 mm	195 mm
B191.040.125	4 mm	0.8 mm	47 g	95 mm	125 mm	24,5 mm	220 mm
B191.040.250	4 mm	0.8 mm	60 g	95 mm	250 mm	24,5 mm	345 mm
B191.055.125	5.5 mm	1 mm	70 g	105 mm	125 mm	30 mm	230 mm
B191.055.150	5.5 mm	1 mm	79 g	105 mm	150 mm	30 mm	255 mm
B191.055.300	5.5 mm	1 mm	105 g	105 mm	300 mm	30 mm	405 mm
B191.065.150	6.5 mm	1.2 mm	100 g	117 mm	150 mm	34 mm	267 mm
B191.065.300	6.5 mm	1.2 mm	140 g	117 mm	300 mm	34 mm	417 mm
SB191.025.075	2.5 mm	0.4 mm	24 g	95 mm	75 mm	24,5 mm	170 mm
SB191.030.075	3 mm	0.5 mm	31 g	95 mm	75 mm	24,5 mm	170 mm
SB191.030.100	3 mm	0.5 mm	32 g	95 mm	100 mm	24,5 mm	195 mm
SB191.030.200	3 mm	0.5 mm	34 g	95 mm	200 mm	24,5 mm	295 mm
SB191.035.100	3.5 mm	0.6 mm	34 g	95 mm	100 mm	24,5 mm	195 mm
SB191.040.100	4 mm	0.8 mm	48 g	95 mm	100 mm	24,5 mm	195 mm
SB191.040.125	4 mm	0.8 mm	51 g	95 mm	125 mm	24,5 mm	220 mm
SB191.040.250	4 mm	0.8 mm	64 g	95 mm	250 mm	24,5 mm	345 mm
SB191.055.125	5.5 mm	1 mm	74 g	105 mm	125 mm	30 mm	230 mm
SB191.055.150	5.5 mm	1 mm	83 g	105 mm	150 mm	30 mm	255 mm
SB191.055.300	5.5 mm	1 mm	109 g	105 mm	300 mm	30 mm	405 mm
SB191.065.150	6.5 mm	1.2 mm	104 g	117 mm	150 mm	34 mm	267 mm
SB191.065.300	6.5 mm	1.2 mm	144 g	117 mm	300 mm	34 mm	417 mm



SCREWDRIVERS

PHILLIPS SCREWDRIVERS

ISO 8764/DIN 5260

- Blade: high performance alloy steel
- Chrome plated and entirely hardened
- Black finish tip for higher accuracy
- Branding: part number and tip size laser branded for easier identification
- SB: retail packaging



CODE						
B192.000.075	27 g	PH0	75 mm	95 mm	24,5 mm	170 mm
B192.000.200	38 g	PH0	200 mm	95 mm	24,5 mm	295 mm
B192.001.100	65 g	PH1	100 mm	105 mm	30 mm	130 mm
B192.001.250	90 g	PH1	250 mm	105 mm	30 mm	280 mm
B192.002.125	97 g	PH2	125 mm	117 mm	34 mm	242 mm
B192.002.300	130 g	PH2	300 mm	117 mm	34 mm	417 mm
B192.003.150	150 g	PH3	150 mm	117 mm	34 mm	267 mm
B192.004.200	190 g	PH4	200 mm	117 mm	34 mm	317 mm
SB192.000.075	31 g	PH0	75 mm	95 mm	24,5 mm	170 mm
SB192.000.200	42 g	PH0	200 mm	95 mm	24,5 mm	295 mm
SB192.001.100	69 g	PH1	100 mm	105 mm	30 mm	130 mm
SB192.001.250	94 g	PH1	250 mm	105 mm	30 mm	280 mm
SB192.002.125	101 g	PH2	125 mm	117 mm	34 mm	242 mm
SB192.002.300	134 g	PH2	300 mm	117 mm	34 mm	417 mm
SB192.003.150	154 g	PH3	150 mm	117 mm	34 mm	267 mm
SB192.004.200	194 g	PH4	200 mm	117 mm	34 mm	317 mm



POZIDRIV SCREWDRIVERS

- Handle: 2-component handle with vertical grooves for comfortable grip and maximum force transmission
- Anti-slip surface
- Permanent symbol on the handle for quick identification of the tip
- Blade: high performance alloy steel
- Chrome plated and entirely hardened
- Black finish tip for higher accuracy
- Branding: part number and tip size laser branded for easier identification
- SB: retail packaging

CODE						
B193.000.075	30 g	170 mm	24,5 mm	95 mm	75 mm	PZ0
B193.001.100	65 g	130 mm	30 mm	105 mm	100 mm	PZ1
B193.002.125	97 g	242 mm	34 mm	117 mm	125 mm	PZ2
B193.003.150	153 g	267 mm	34 mm	117 mm	150 mm	PZ3
B193.004.200	202 g	317 mm	34 mm	117 mm	200 mm	PZ4
SB193.000.075	34 g	170 mm	24,5 mm	95 mm	75 mm	PZ0
SB193.001.100	69 g	130 mm	30 mm	105 mm	100 mm	PZ1
SB193.002.125	101 g	242 mm	34 mm	117 mm	125 mm	PZ2
SB193.003.150	157 g	267 mm	34 mm	117 mm	150 mm	PZ3
SB193.004.200	206 g	317 mm	34 mm	117 mm	200 mm	PZ4



SCREWDRIVERS



TORX® SCREWDRIVERS

- Handle: 2-component handle with vertical grooves for comfortable grip and maximum force transmission
- Anti-slip surface
- Permanent symbol on the handle for quick identification of the tip
- Blade: high performance alloy steel
- Chrome plated and entirely hardened
- Black finish tip for higher accuracy
- Branding: part number and tip size laser branded for easier identification
- SB: retail packaging

CODE							
B194.004.075	20 g	170 mm	24,5 mm	95 mm	75 mm	1.30 mm	T4
B194.005.075	25 g	170 mm	24,5 mm	95 mm	75 mm	1.37 mm	T5
B194.006.075	20 g	170 mm	24,5 mm	95 mm	75 mm	1.65 mm	T6
B194.007.075	30 g	170 mm	24,5 mm	95 mm	75 mm	1.97 mm	T7
B194.008.075	26 g	170 mm	24,5 mm	95 mm	75 mm	2.30 mm	T8
B194.009.075	28 g	170 mm	24,5 mm	95 mm	75 mm	2.48 mm	T9
B194.010.075	27 g	170 mm	24,5 mm	95 mm	75 mm	2.72 mm	T10
B194.015.100	44 g	195 mm	24,5 mm	95 mm	100 mm	3.26 mm	T15
B194.020.100	40 g	195 mm	24,5 mm	95 mm	100 mm	3.84 mm	T20
B194.025.125	70 g	230 mm	30 mm	105 mm	125 mm	4.40 mm	T25
B194.027.125	73 g	230 mm	30 mm	105 mm	125 mm	4.96 mm	T27
B194.030.150	100 g	267 mm	34 mm	117 mm	150 mm	5.49 mm	T30
B194.040.150	110 g	267 mm	34 mm	117 mm	150 mm	6.60 mm	T40
B194.045.150	120 g	267 mm	34 mm	117 mm	150 mm	7.70 mm	T45
SB194.004.075	24 g	170 mm	24,5 mm	95 mm	75 mm	1.30 mm	T4
SB194.005.075	29 g	170 mm	24,5 mm	95 mm	75 mm	1.37 mm	T5
SB194.006.075	24 g	170 mm	24,5 mm	95 mm	75 mm	1.65 mm	T6
SB194.007.075	34 g	170 mm	24,5 mm	95 mm	75 mm	1.97 mm	T7
SB194.008.075	30 g	170 mm	24,5 mm	95 mm	75 mm	2.30 mm	T8
SB194.009.075	32 g	170 mm	24,5 mm	95 mm	75 mm	2.48 mm	T9
SB194.010.075	31 g	170 mm	24,5 mm	95 mm	75 mm	2.72 mm	T10
SB194.015.100	48 g	195 mm	24,5 mm	95 mm	100 mm	3.26 mm	T15
SB194.020.100	44 g	195 mm	24,5 mm	95 mm	100 mm	3.84 mm	T20
SB194.025.125	74 g	230 mm	30 mm	105 mm	125 mm	4.40 mm	T25
SB194.027.125	77 g	230 mm	30 mm	105 mm	125 mm	4.96 mm	T27
SB194.030.150	104 g	267 mm	34 mm	117 mm	150 mm	5.49 mm	T30
SB194.040.150	114 g	267 mm	34 mm	117 mm	150 mm	6.60 mm	T40
SB194.045.150	124 g	267 mm	34 mm	117 mm	150 mm	7.70 mm	T45



SCREWDRIVERS

TORX® TAMPER RESISTANT SCREWDRIVER

- Handle: 2-component handle with vertical grooves for comfortable grip and maximum force transmission
- Anti-slip surface
- Blade: high performance alloy steel
- Chrome plated and entirely hardened
- Black finish tip for higher accuracy
- Branding: part number and tip size laser branded for easier identification
- SB: retail packaging



CODE							
B141.007.075	27 g	170 mm	24,5 mm	75 mm	1.97 mm		TR7
B141.008.075	30 g	170 mm	24,5 mm	75 mm	2.30 mm		TR8
B141.009.075	30 g	170 mm	24,5 mm	75 mm	2.48 mm		TR9
B141.010.075	20 g	170 mm	24,5 mm	75 mm	2.72 mm		TR10
B141.015.100	40 g	195 mm	24,5 mm	100 mm	3.26 mm		TR15
B141.020.100	40 g	195 mm	24,5 mm	100 mm	3.84 mm		TR20
B141.025.125	60 g	230 mm	30 mm	125 mm	4.40 mm		TR25
B141.027.125	73 g	230 mm	30 mm	125 mm	4.96 mm		TR27
B141.030.150	100 g	267 mm	34 mm	150 mm	5.49 mm		TR30
B141.040.150	120 g	267 mm	34 mm	150 mm	6.60 mm		TR40
SB141.007.075	31 g	170 mm	24,5 mm	75 mm	1.97 mm		TR7
SB141.008.075	34 g	170 mm	24,5 mm	75 mm	2.30 mm		TR8
SB141.009.075	34 g	170 mm	24,5 mm	75 mm	2.48 mm		TR9
SB141.010.075	24 g	170 mm	24,5 mm	75 mm	2.72 mm		TR10
SB141.015.100	44 g	195 mm	24,5 mm	100 mm	3.26 mm		TR15
SB141.020.100	44 g	195 mm	24,5 mm	100 mm	3.84 mm		TR20
SB141.025.125	64 g	230 mm	30 mm	125 mm	4.40 mm		TR25
SB141.027.125	77 g	230 mm	30 mm	125 mm	4.96 mm		TR27
SB141.030.150	104 g	267 mm	34 mm	150 mm	5.49 mm		TR30
SB141.040.150	124 g	267 mm	34 mm	150 mm	6.60 mm		TR40



PHILLIPS SCREWDRIVER STUBBY

ISO 8764/DIN 5260

- Handle: 2-component handle, with hanging hole
- Blade: high performance alloy steel
- Chrome plated and entirely hardened
- Black finish tip for higher accuracy
- SB: retail packaging

CODE							
B195.001.025	40 g	PH1	25 mm	60 mm	33 mm	85 mm	
B195.002.025	40 g	PH2	25 mm	60 mm	25 mm	85 mm	
SB195.001.025	44 g	PH1	25 mm	60 mm	33 mm	85 mm	
SB195.002.025	44 g	PH2	25 mm	60 mm	33 mm	85 mm	



SCREWDRIVERS

SLOTTED SCREWDRIVER STUBBY

ISO 2380/DIN 5264

- Handle: 2-component handle, with hanging hole
- Blade: high performance alloy steel
- Chrome plated and entirely hardened
- Black finish tip for higher accuracy
- Branding: part number and tip size branded for easier identification
- SB: retail packaging



CODE							
B195.060.025	40 g	1.2 mm	6 mm	25 mm	60 mm	85 mm	33 mm
SB195.060.025	44 g	1.2 mm	6 mm	25 mm	60 mm	85 mm	33 mm
B195.050.025	38 g	1.0 mm	5.0 mm	25 mm	60 mm	85 mm	33 mm
SB195.050.025	42 g	1 mm	5 mm	25 mm	60 mm	85 mm	33 mm
SB195.040.025	42 g	0.8 mm	4 mm	25 mm	60 mm	85 mm	33 mm
B195.040.025	38 g	0.8 mm	4 mm	25 mm	60 mm	85 mm	33 mm



POZIDRIV SCREWDRIVER STUBBY

ISO 8764

- Handle: 2-component handle, with hanging hole
- Blade: high performance alloy steel
- Chrome plated and entirely hardened
- Black finish tip for higher accuracy
- SB: retail packaging

CODE						
B195.901.025	30 g	85 mm	33 mm	60 mm	25 mm	PZ1
B195.902.025	40 g	85 mm	33 mm	60 mm	25 mm	PZ2
SB195.901.025	34 g	85 mm	33 mm	60 mm	25 mm	PZ1
SB195.902.025	44 g	85 mm	33 mm	60 mm	25 mm	PZ2



SCREWDRIVERS

HEXAGONAL BALL END SCREWDRIVER

- Easy to insert in the screw head from a range of angles
- More efficient than the standard hex and timesaver
- Handle: 2-component handle with vertical grooves for comfortable grip and maximum force transmission
- Anti-slip surface
- Permanent symbol on the handle for quick identification of the tip
- Blade: high performance alloy steel
- Chrome plated and entirely hardened
- Black finish tip for higher accuracy
- Branding: part number and tip size laser branded for easier identification
- SB: retail packaging



CODE						
B143.020.100	29 g	195 mm	24,5 mm	95 mm	100 mm	2
B143.025.100	30 g	195 mm	24,5 mm	95 mm	100 mm	2.5
B143.030.100	30 g	195 mm	24,5 mm	95 mm	100 mm	3
B143.040.100	50 g	195 mm	24,5 mm	95 mm	100 mm	4
B143.050.100	75 g	195 mm	30 mm	105 mm	100 mm	5
B143.060.125	111 g	242 mm	34 mm	117 mm	125 mm	6
B143.080.150	130 g	267 mm	34 mm	117 mm	150 mm	8
SB143.020.100	33 g	195 mm	24,5 mm	95 mm	100 mm	2
SB143.025.100	34 g	195 mm	24,5 mm	95 mm	100 mm	2.5
SB143.030.100	34 g	195 mm	24,5 mm	95 mm	100 mm	3
SB143.040.100	54 g	195 mm	24,5 mm	95 mm	100 mm	4
SB143.050.100	79 g	195 mm	30 mm	105 mm	100 mm	5
SB143.060.125	115 g	242 mm	34 mm	117 mm	125 mm	6
SB143.080.150	134 g	267 mm	34 mm	117 mm	150 mm	8



INSULATED PHILLIPS SCREWDRIVER

ISO 8764/DIN 5260

- For work on live equipment, up to 1000 V
- Handle: 2-component handle with vertical grooves for comfortable grip and maximum force transmission
- Anti-slip surface
- Permanent symbol on the handle for quick identification of the tip
- Blade: high performance alloy steel
- Chrome plated and entirely hardened
- Black finish tip for higher accuracy
- Branding: part number and tip size laser branded for easier identification
- Individually inspected and manufactured according to IEC 60900
- SB: retail packaging

CODE						
B197.000.075	30 g	170 mm	24,5 mm	95 mm	75 mm	PH0
B197.001.080	40 g	185 mm	24,5 mm	95 mm	80 mm	PH1
B197.002.100	800 g	217 mm	30 mm	105 mm	100 mm	PH2
B197.003.150	150 g	267 mm	34 mm	117 mm	150 mm	PH3
B197.004.200	190 g	317 mm	34 mm	117 mm	200 mm	PH4
SB197.000.075	34 g	170 mm	24,5 mm	95 mm	75 mm	PH0
SB197.001.080	44 g	185 mm	24,5 mm	95 mm	80 mm	PH1
SB197.002.100	804 g	217 mm	30 mm	105 mm	100 mm	PH2
SB197.003.150	154 g	267 mm	34 mm	117 mm	150 mm	PH3
SB197.004.200	194 g	317 mm	34 mm	117 mm	200 mm	PH4
B197.001.150	90 g	265 mm	30 mm	105 mm	150 mm	PH1
B197.002.175	140 g	292 mm	34 mm	117 mm	175 mm	PH2



SCREWDRIVERS

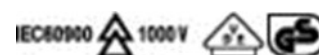
INSULATED SLOTTED SCREWDRIVER

ISO 2380/DIN 5264

- For work on live equipment, up to 1000 V
- Handle: 2-component handle with vertical grooves for comfortable grip and maximum force transmission
- Anti-slip surface
- Permanent symbol on the handle for quick identification of the tip
- Blade: high performance alloy steel
- Chrome plated and entirely hardened
- Black finish tip for higher accuracy
- Branding: part number and tip size laser branded for easier identification
- Individually inspected and manufactured according to IEC 60900
- SB: retail packaging



CODE							
B196.025.075	29 g	0.4 mm	2.5 mm	75 mm	95 mm	170 mm	24,5 mm
B196.030.100	29 g	0.5 mm	3 mm	100 mm	95 mm	195 mm	24,5 mm
B196.035.100	30 g	0.6 mm	3.5 mm	100 mm	95 mm	195 mm	24,5 mm
B196.040.100	40 g	0.8 mm	4 mm	100 mm	95 mm	195 mm	24,5 mm
B196.055.125	66 g	1 mm	5.5 mm	125 mm	95 mm	220 mm	24,5 mm
B196.065.150	90 g	1.2 mm	6.5 mm	150 mm	105 mm	255 mm	30 mm
B196.080.175	140 g	1.2 mm	8 mm	175 mm	117 mm	292 mm	34 mm
B196.100.200	189 g	1.6 mm	10 mm	200 mm	117 mm	317 mm	34 mm
B196.120.200	205 g	2 mm	12 mm	200 mm	117 mm	317 mm	34 mm
SB196.025.075	33 g	0.4 mm	2.5 mm	75 mm	95 mm	170 mm	24,5 mm
SB196.030.100	33 g	0.5 mm	3 mm	100 mm	95 mm	195 mm	24,5 mm
SB196.035.100	34 g	0.6 mm	3.5 mm	100 mm	95 mm	195 mm	24,5 mm
SB196.040.100	44 g	0.8 mm	4 mm	100 mm	95 mm	195 mm	24,5 mm
SB196.055.125	70 g	1 mm	5.5 mm	125 mm	95 mm	220 mm	24,5 mm
SB196.065.150	94 g	1.2 mm	6.5 mm	150 mm	105 mm	255 mm	30 mm
SB196.080.175	144 g	1.2 mm	8 mm	175 mm	117 mm	292 mm	34 mm
SB196.100.200	193 g	1.6 mm	10 mm	200 mm	117 mm	317 mm	34 mm
SB196.120.200	209 g	2 mm	12 mm	200 mm	117 mm	317 mm	34 mm



DOUBLE OFFSET SCREWDRIVERS, SLOTTED HEAD SCREWS

DIN 5200

- Nickel and chrome plated blade
- Polypropylene handle

CODE			
2047-0.8-4	0.8 mm	100 mm	14 g
2047-1.5-5	1.0 mm	125 mm	21 g
2047-1.2-8	1.2 mm	150 mm	37 g
2047-1.6-10	1.6 mm	175 mm	60 g
2/12/2047	2.0 mm	200 mm	115g






SCREWDRIVERS

DOUBLE OFFSET SCREWDRIVER, PHILLIPS HEAD SCREWS

DIN 5208

- Nickel and chrome plated blade

- Polypropylene handle

CODE			
2047PR-1-2	PH 1 & 2	100 mm	25 g
2047PR-3-4	PH 3 & 4	200 mm	110 g

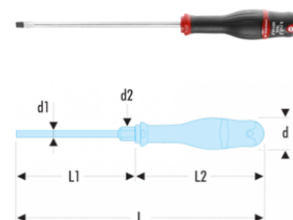


ANF - PROTWIST® SCREWDRIVERS, SLOTTED HEAD SCREWS - FORGED BLADES

NF ISO 2380-1, NF ISO 2380-2, ISO 2380-1, ISO 2380-2, DIN ISO 2380-1, DIN ISO 2380-2, ASME B107.600

- Forged blade with excellent tip fiber for high torsion strength
- Extra-long shank up to 250 mm for difficult and remote access
- Silicon carbon blade: strong and resistant to flexion
- Bi-material grip resists to impacts, abrasion, and chemicals
- Finish: black tipped mat chromed blade

CODE	A MM	D MM	D1 X L1 MM	E MM	E X L MM	L MM	L2 MM	G
ANF4X100	4	30	4,0 x 100	0.8	0,8 x 4,0	209	109	47
ANF5,5X100	5.5	30	5,5 x 100	1	1,0 x 5,5	209	109	76
ANF5,5X150	5.5	30	5,5 x 150	1	1,0 x 5,5	259	109	84
ANF6,5X100	6.5	36	6,0 x 100	1.2	1,2 x 6,5	220	120	120
ANF6,5X150	6.5	36	6,0 x 150	1.2	1,2 x 6,5	270	120	131
ANF8X150	8	40	7,0 x 150	1.2	1,2 x 8,0	275	125	149
ANF8X200	8	40	7,0 x 200	1.2	1,2 x 8,0	325	125	164
ANF10X200	10	40	9,0 x 200	1.6	1,6 x 10,0	325	125	214
ANF10X250	10	40	9,0 x 250	1.6	1,6 x 10,0	375	125	268

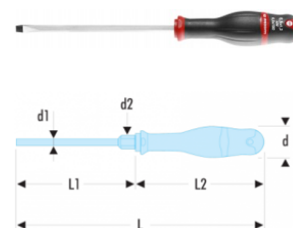


AW - PROTWIST® SCREWDRIVERS, SLOTTED HEAD SCREWS - HEXAGONAL BLADES

NF ISO 2380-1, NF ISO 2380-2, ISO 2380-1, ISO 2380-2, DIN ISO 2380-1, DIN ISO 2380-2, ASME B107.600

- Extra-long shank up to 250 mm for difficult and remote access
- Silicon carbon blade: strong and resistant to flexion
- Bi-material grip resists to impacts, abrasion, and chemicals
- Finish: black tipped mat chromed blade

CODE	A MM	D MM	D1 X L1 MM	E MM	E X L MM	L MM	L2 MM	G
AW4X100	4	30	4 x 100	0.8	0,8 x 4,0	209	109	60
AW4X150	4	30	4 x 150	0.8	0,8 x 4,0	259	109	70
AW5,5X100	5.5	30	5 x 100	1	1,0 x 5,5	209	109	85
AW5,5X150	5.5	30	5 x 150	1	1,0 x 5,5	259	109	100
AW6,5X125	6.5	36	6 x 125	1.2	1,2 x 6,5	245	120	130
AW6,5X150	6.5	36	6 x 150	1.2	1,2 x 6,5	270	120	150
AW8X150	8	40	7 x 150	1.2	1,2 x 8,0	275	125	220
AW8X200	8	40	7 x 200	1.2	1,2 x 8,0	300	125	235
AW10X200	10	40	9 x 200	1.6	1,6 x 10,0	325	125	255
AW12X250	12	40	10 x 250	2	2,0 x 12,0	375	125	280



SCREWDRIVERS

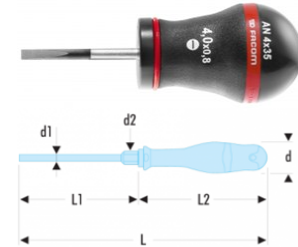


AN - PROTWIST® SCREWDRIVERS, SLOTTED HEAD SCREWS - SHORT BLADES

NF ISO 2380-1, NF ISO 2380-2, ISO 2380-1, ISO 2380-2, DIN ISO 2380-1, DIN ISO 2380-2, ASME B107.600

- Finish: black tipped mat chromed blade

CODE	A MM	D1 X L1 MM	E MM	E X L MM	L MM	G
AN4X25	4	4,0 x 25	0.8	0,8 x 4,0	81	35
AN4X35	4	4,0 x 35	0.8	0,8 x 4,0	91	36
AN5,5X35	5.5	5,5 x 35	1	1,0 x 5,5	91	41
AN6,5X35	6.5	6,5 x 35	1.2	1,2 x 6,5	91	46

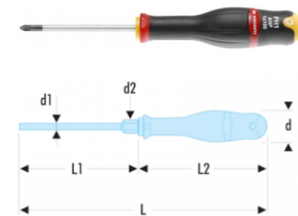


AN - PROTWIST® SCREWDRIVERS, PHILLIPS® SCREWS - ROUND BLADES

NF ISO 8764-1, NF ISO 8764-2, ISO 8764-1, ISO 8764-2, DIN ISO 8764-1, DIN ISO 8764-2, ASME B107.600

- Extra-long blade up to 400 mm for difficult and remote access
- Bi-material grip resists to impacts, abrasion, and chemicals
- Silicon carbon blade: strong and resistant to flexion
- Finish: black tipped mat chromed blade

CODE	PHILLIPS NO	D MM	D1 X L1 MM	L MM	EL2 MM	G
ANP0X75	PH0	25	3,0 x 75	178	103	45
ANP1X75	PH1	30	4,5 x 75	184	109	73
ANP1X100	PH1	30	4,5 x 100	209	109	76
ANP1X250	PH1	30	4,5 x 250	359	109	99
ANP2X100	PH2	36	6,0 x 100	220	120	120
ANP2X125	PH2	36	6,0 x 125	245	120	126
ANP2X250	PH2	36	6,0 x 250	370	120	153
ANP2X400	PH2	36	6,0 x 400	520	120	186
ANP3X150	PH3	40	8,0 x 150	275	125	194
ANP4X200	PH4	40	10,0 x 200	325	125	277

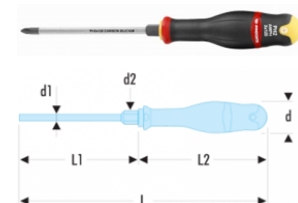


AWPH - PROTWIST® SCREWDRIVERS, PHILLIPS® SCREWS - POWER SERIES

NF ISO 8764-1, NF ISO 8764-2, ISO 8764-1, ISO 8764-2, DIN ISO 8764-1, DIN ISO 8764-2, ASME B107.600

- Hexagonal blade with shoulder to take a wrench
- Bi-material grip resists to impacts, abrasion, and chemicals
- Silicon carbon blade: strong and resistant to flexion
- Finish: black tipped mat chromed blade

CODE	PHILLIPS NO	D MM	D1 X L1 MM	D2 MM	L MM	L2 MM	G
AWPH1X100	PH1	30	5 x 100	8	209	109	70
AWPH2X125	PH2	36	6 x 125	10	245	120	130
AWPH3X150	PH3	40	8 x 150	12	275	125	200
AWPH4X200	PH4	40	10 x 200	14	325	125	280



SCREWDRIVERS

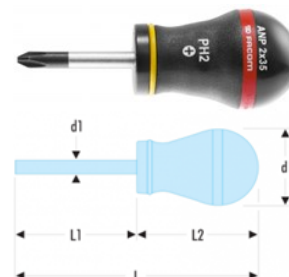


ANP - PROTWIST® SCREWDRIVERS, PHILLIPS® SCREWS - SHORT BLADES

NF ISO 8764-1, NF ISO 8764-2, ISO 8764-1, ISO 8764-2, DIN ISO 8764-1, DIN ISO 8764-2, ASME B107.600

- Short blade and ball handle for use in confined spaces
- Finish: black tipped mat chromed blade

CODE	PHILLIPS NO	D1 L1 MM	L MM	SET DESCRIPTION	G
ANP1X25	PH1	4,5 x 25	81	Screwdriver for Phillips® head PH 1x25 mm	38
ANP1X35	PH1	4,5 x 35	91	Stubby screwdriver for Phillips® heads 1	39
ANP2X35	PH2	6,0 x 35	91	Stubby screwdriver for Phillips® heads PH 2x35 mm	44

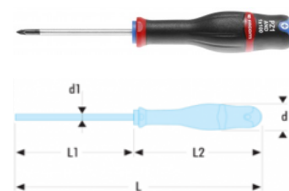


AND - PROTWIST® SCREWDRIVERS, POZIDRIV® SCREWS - ROUND BLADES

NF ISO 8764-1, NF ISO 8764-2, ISO 8764-1, ISO 8764-2, DIN ISO 8764-1, DIN ISO 8764-2, ASME B107.600

- Silicon carbon blade: strong and resistant to flexion
- Finish: black tipped mat chromed round blade
- Bi-material grip resists to impacts, abrasion, and chemicals

CODE	POZIDRIV NO	D MM	D1 X L1 MM	L MM	L2 MM	G
AND0X75	PZ0	25	3,0 x 75	178	103	45
AND1X75	PZ1	30	4,5 x 75	184	109	73
AND1X100	PZ1	30	4,5 x 100	209	109	76
AND1X250	PZ1	30	4,5 x 250	359	109	99
AND2X100	PZ2	36	6,0 x 100	220	120	120
AND2X125	PZ2	36	6,0 x 125	245	120	126
AND2X250	PZ2	36	6,0 x 250	370	120	153
AND3X150	PZ3	40	8,0 x 150	275	125	194
AND4X200	PZ4	40	10,0 x 200	325	125	277

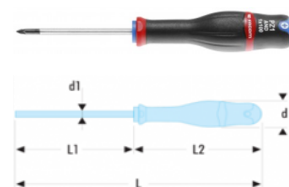


AWDH - PROTWIST® SCREWDRIVERS, POZIDRIV® SCREWS - POWER SERIES

NF ISO 8764-1, NF ISO 8764-2, ISO 8764-1, ISO 8764-2, DIN ISO 8764-1, DIN ISO 8764-2, ASME B107.600

- Hexagonal blade with shoulder to take a wrench
- Silicon carbon blade: strong and resistant to flexion
- Bi-material grip resists to impacts, abrasion, and chemicals
- Finish: black tipped mat chromed blade

CODE	POZIDRIV NO	D MM	D1 X L1 MM	D2 MM	L MM	L2 MM	G
AWDH1X100	PZ1	30	5 x 100	8	209	109	209
AWDH2X125	PZ2	36	6 x 125	10	245	120	245
AWDH3X150	PZ3	40	8 x 150	12	275	125	275
AWDH4X200	PZ4	40	10 x 200	14	325	125	325



SCREWDRIVERS

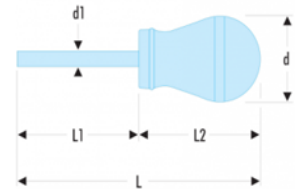


AND - PROTWIST® SCREWDRIVERS, POZIDRIV® SCREWS - SHORT BLADES

NF ISO 8764-1, NF ISO 8764-2, ISO 8764-1, ISO 8764-2, DIN ISO 8764-1, DIN ISO 8764-2, ASME B107.600

- Short round blade and ball handle for use in confined spaces
- Finish: black tipped mat chromed blade
- Information: d [mm]: 36, L2 [mm]: 56

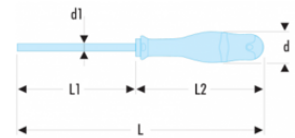
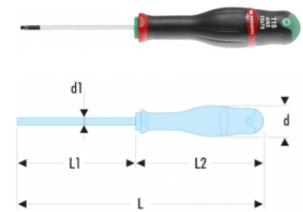
CODE	POZIDRIV NO	D1 X L1 MM	L MM	G
AND1X25	PZ1	4,5 x 25	81	38
AND1X35	PZ1	4,5 x 35	91	40
AND2X35	PZ2	6,0 x 35	91	45



ANX - PROTWIST® SCREWDRIVERS, TORX® SCREWS

- Compliant with Torx® specifications
- Silicon carbon blade: strong and resistant to flexion
- Bi-material grip resists to impacts, abrasion, and chemicals
- Finish: black tipped mat chromed blade

CODE	A MM	TORX NO	D MM	D1 X L1 MM	L MM	L2 MM	G
ANX6X50	1.65	T6	19	2,5 x 50	144	94	20
ANX7X50	1.97	T7	19	2,5 x 50	144	94	20
ANX8X50	2.3	T8	26	2,5 x 50	153	103	35
ANX9X75	2.48	T9	25	3,0 x 75	178	103	45
ANX10X75	2.74	T10	30	3,0 x 75	184	109	50
ANX15X75	3.26	T15	30	3,5 x 75	184	109	61
ANX20X100	3.84	T20	36	4,0 x 100	220	120	67
ANX20X150	3.84	T20	36	4,0 x 150	270	120	73
ANX25X100	4.4	T25	36	5,0 x 100	220	120	113
ANX27X100	4.96	T27	36	5,5 x 100	220	120	113
ANX30X125	5.49	T30	36	6,0 x 125	245	120	126
ANX40X150	6.6	T40	40	7,0 x 150	275	125	173



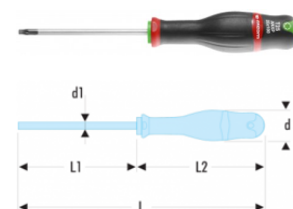
SCREWDRIVERS



ANXP - PROTWIST® SCREWDRIVERS, TORX PLUS® SCREWS

- Compliant with Torx Plus® specifications
- Bi-material grip resists to impacts, abrasion, and chemicals
- Silicon carbon blade: strong and resistant to flexion
- Finish: black tipped mat chromed blade

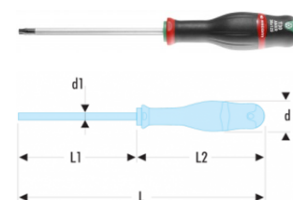
CODE	A MM	RESISTORX NO	D MM	D1 X L1 MM	L MM	L2 MM	G
ANXP5X50	1.42	IP5	19	2,5 x 50	144	95	20
ANXP6X50	1.65	IP6	19	2,5 x 50	144	95	20
ANXP7X50	1.97	IP7	19	2,5 x 50	144	95	20
ANXP8X50	2.3	IP8	25	2,5 x 50	153	103	35
ANXP9X75	2.48	IP9	25	3,0 x 75	178	103	45
ANXP10X75	2.74	IP10	30	3,0 x 75	184	109	50
ANXP15X75	3.26	IP15	30	3,5 x 75	184	110	61
ANXP20X100	3.84	IP20	36	4,0 x 100	220	120	67
ANXP25X100	4.4	IP25	36	5,0 x 100	220	120	113
ANXP27X100	4.96	IP27	36	5,5 x 100	220	120	113
ANXP30X125	5.49	IP30	36	6,0 x 125	245	120	126
ANXP40X150	6.6	IP40	40	7,0 x 150	275	125	173



ANXR - PROTWIST® SCREWDRIVERS, RESISTORX® SCREWS

- Compliant with Resistorx® specifications
- Bi-material grip resists to impacts, abrasion, and chemicals
- Silicon carbon blade: strong and resistant to flexion
- Finish: black tipped mat chromed blade

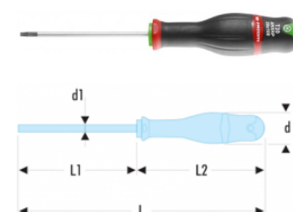
CODE	A MM	RESISTORX NO	D MM	D1 X L1 MM	L MM	L2 MM	G
ANXR10X75	2.74	TT10	25	3,0 x 75	184	109	50
ANXR15X75	3.26	TT15	30	3,5 x 75	185	110	61
ANXR20X100	3.84	TT20	36	4,0 x 100	220	120	67
ANXR25X100	4.4	TT25	36	5,0 x 100	220	120	113
ANXR27X100	4.96	TT27	36	5,5 x 100	220	120	113
ANXR30X125	5.49	TT30	36	6,0 x 125	245	120	126
ANXR40X150	6.6	TT40	40	7,0 x 150	275	125	173



ANXRP - PROTWIST® SCREWDRIVERS, TORX PLUS® SCREWS

- Compliant with Torx Plus® specifications
- Bi-material grip resists to impacts, abrasion, and chemicals
- Silicon carbon blade: strong and resistant to flexion
- Finish: black tipped mat chromed blade

CODE	A MM	RESISTORX NO	D MM	D1 X L1 MM	L MM	L2 MM	G
ANXR10X75	2.74	TT10	25	3,0 x 75	184	109	50
ANXR15X75	3.26	TT15	30	3,5 x 75	185	110	61
ANXR20X100	3.84	TT20	36	4,0 x 100	220	120	67
ANXR25X100	4.4	TT25	36	5,0 x 100	220	120	113
ANXR27X100	4.96	TT27	36	5,5 x 100	220	120	113
ANXR30X125	5.49	TT30	36	6,0 x 125	245	120	126
ANXR40X150	6.6	TT40	40	7,0 x 150	275	125	173



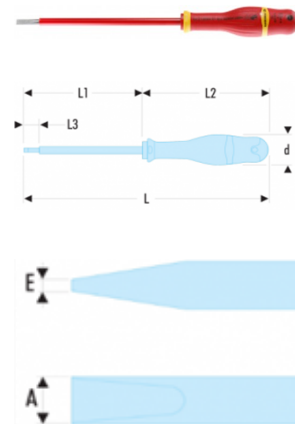
SCREWDRIVERS



A.VE - PROTWIST® 1,000 VOLT INSULATED SCREWDRIVERS, SLOTTED HEAD SCREWS

- Each screwdriver is tested individually at 10,000 Volt for 10 seconds, at the end of the manufacturing cycle
- 1,000 Volt sheathed round blade
- Milled blade: --> 5.5 mm included
- Fillet blade: 6.5 --> 12 mm
- Bi-material grip resists to impacts, abrasion, and chemicals
- Information: L3 [mm]: 18

CODE	A MM	D MM	E MM	E X L MM	L MM	L1 MM	L2 MM	G
A2X75VE	2	19	0.4	0,4 x 2,0	170	40	95	23
A2,5X50VE	2.5	25	0.4	0,4 x 2,5	153	50	103	30
A2,5X75VE	2.5	25	0.4	0,4 x 2,5	178	75	103	32
A3X75VE	3	25	0.5	0,5 x 3,0	178	75	103	38
A3X100VE	3	25	0.5	0,5 x 3,0	202	100	103	39
A3,5X75VE	3.5	25	0.6	0,6 x 3,5	179	75	104	42
A3,5X100VE	3.5	25	0.6	0,6 x 3,5	204	100	104	44
A4X100VE	4	30	0.8	0,8 x 4,0	210	100	110	48
A4X150VE	4	30	0.8	0,8 x 4,0	260	150	110	53
A5,5X125VE	5.5	30	1	1,0 x 5,5	235	125	110	88
A5,5X150VE	5.5	30	1	1,0 x 5,5	260	150	110	92
A5,5X200VE	5.5	30	1	1,0 x 5,5	310	200	110	106
A6,5X150VE	6.5	36	1.2	1,2 x 6,5	270	150	120	120
A6,5X200VE	6.5	36	1.2	1,2 x 6,5	320	200	120	170
A8X150VE	8	40	1.2	1,2 x 8,0	275	150	125	160
A8X200VE	8	40	1.2	1,2 x 8,0	325	200	125	180
A10X200VE	10	40	1.6	1,6 x 10,0	325	200	125	240
A12X250VE	12	40	2	2,0 x 12,0	375	250	125	360

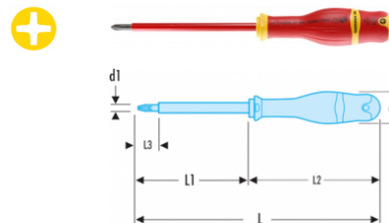


AP.VE - PROTWIST® 1,000 VOLT INSULATED SCREWDRIVERS, PHILLIPS® HEAD SCREWS

NF ISO 8764-1, NF ISO 8764-2, NF EN 60900, ISO 8764-1, ISO 8764-2, EN 60900, DIN ISO 8764-1, DIN ISO 8764-2, DIN EN 60900, ASME B107.600

- Each screwdriver is tested individually at 10,000 Volt for 10 seconds, at the end of the manufacturing cycle
- 1,000 Volt sheathed round blade
- Bi-material grip resists to impacts, abrasion, and chemicals
- Information: L3 [mm]: 18

CODE	PHILLIPS NO	D MM	D1 MM	L MM	L1 MM	L2 MM	G
AP0X75VE	PH0	25	3	179	75	104	46
AP1X100VE	PH1	30	4.5	210	100	110	77
AP2X125VE	PH2	36	6	245	125	120	127
AP3X150VE	PH3	40	8	275	150	125	195
AP4X200VE	PH4	40	10	325	200	125	278



SCREWDRIVERS

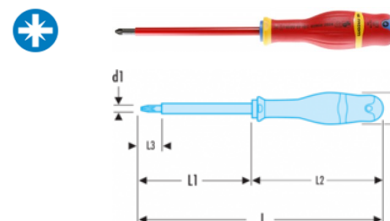


AD.VE - PROTWIST® 1,000 VOLT INSULATED SCREWDRIVERS, POZIDRIV® HEAD SCREWS

NF ISO 8764-1, NF ISO 8764-2, NF EN 60900, ISO 8764-1, ISO 8764-2, EN 60900, DIN ISO 8764-1, DIN ISO 8764-2, DIN EN 60900, ASME B107.600

- Each screwdriver is tested individually at 10,000 Volt for 10 seconds, at the end of the manufacturing cycle
- 1,000 Volt sheathed round blade
- Bi-material grip resists to impacts, abrasion, and chemicals
- Information: L3 [mm]: 18

CODE	PHILLIPS NO	D MM	D1 MM	L MM	L1 MM	L2 MM	G
AD0X75VE	PZ0	25	3	179	75	104	46
AD1X100VE	PZ1	30	4.5	209	100	109	77
AD2X125VE	PZ2	36	6	245	125	120	127
AD3X150VE	PZ3	40	8	275	150	125	195



PROTWIST® 1,000 VOLT INSULATED SCREWDRIVER SET; 8 PCS.

- Each screwdriver is tested individually at 10,000 Volt for 10 seconds, at the end of the manufacturing cycle
- Weight: 907 g
- Heat-formed tray PL325

CODE	CONTENTS
MOD.A1VE	AVE: 3.5, 4, 5.5, 6.5 mm
	AP1X100VE
	AP2X125VE
	AD1X100VE
	AD2X125VE



PROTWIST® MULTIBLADES SCREWDRIVER SET; 8 PCS.

Code: ACL.2A15

Weight: 440g

- SPEED : Ratcheting feature for faster task completion
- POWER : T-handle feature to remove difficult screws
- COMPACT: Stubby screwdriver for tight areas
- Bi-material ergonomic handle for comfortable and reliable screwing
- High quality 45-teeth ratchet = fast screwing, accuracy, strength and longevity
- 3-position action : screwing, unscrewing and locking
- Very low blade return torque
- Storage in handle for six additional 25mm bits (not supplied)
- Hexagonal - 1/4" drive

ACL.2A	Reversible Handle
AMZ.E	Extended Bit Holder (175mm long for 1/4 hex bits)
AMZ.S3.5-4	Slotted Reversible blade - 3,5 - 4 mm
AMZ.S5.5-6.5	Slotted Reversible blade - 5,5 - 6,5 mm
AMZ.P0-1	Philips Reversible blade PH0 - PH1
AMZ.P2-3	Philips Reversible blade PH2 - PH3
AMZ.D0-1	Pozidriv Reversible blade PZ0 - PZ

AMZ.D2-3	Pozidriv Reversible blade PZ2 - PZ3
AMZ.H2.5	Hex blade - 2,5 mm
AMZ.H3	Hex blade - 3 mm
AMZ.H4	Hex blade - 4 mm
AMZ.H5	Hex blade - 5 mm
AMZ.H6	Hex blade - 6 mm
AMZ.X10-15	Torx Reversible blade T10 - T15.
AMZ.X20-25	Torx Reversible blade T20 - T25
AMZ.X30-40	Torx Reversible blade T30 - T40



SCREWDRIVERS



ARZ - AKZ - ANGLED SCREWDRIVERS, SLOTTED HEAD SCREWS

DIN 5000

- ARZ round blade
- AKZ square blade
- Two ends in two planes at 90°
- Operating by quarter turn flip
- Finish: burnt

CODE	A MM	E MM	H [MM]	L MM	L1 MM	G
ARZ.4	4	0.8	13	86	0.5	10
ARZ.5,5	5.5	1	14	95	0.6	19
ARZ.6,5	6.5	1.2	16	110	0.7	31
AKZ.6	8	1.2	17.5	123	0.7	38
AKZ.8	10	1.6	20	175	1	92



APZ - ANGLED SCREWDRIVERS, PHILLIPS® SCREWS

DIN 5008

- A different head at each end
- For use in confined space
- Finish: chromed

CODE	PHILLIPS NO	H MM	L MM	G MM
APZ.A	PH0 - PH1	18	86	17
APZ.B	PH1 - PH2	20	142	40
APZ.C	PH3 - PH4	22	205	138





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