

WHAT IS A STANDARD?

- A standard is a reference document providing answers to product-related technical or commercial problems that present themselves repeatedly in relations between economic, scientific or technical partners, etc.
- It is drawn up by consensus within standardisation bureaux (or organisations) by all volunteering economic operators.
- Standardisation assists dialogue between manufacturers, users, public authorities and other partners.
- Standardisation is essentially a technical activity serving an economic purpose. It helps to clarify transactions, rationalise production, and assist commercial exchanges.



EXTRACT FROM EUROPEAN STANDARD NF EN 45020

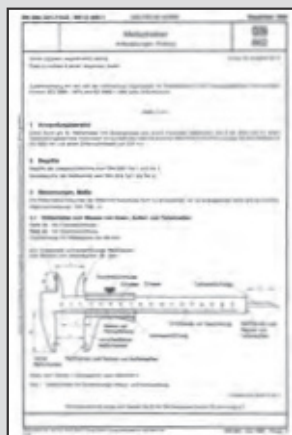
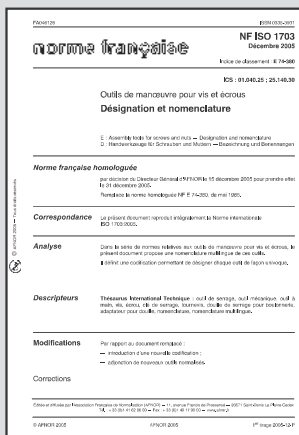
• Standard document established by consensus and approved by a recognised body, that provides, for common and repeated use, rules, guidelines for activities or their results, aimed at the achievement of the optimum degree of order in any given context.

ISO/IEC GUIDE 2

• A standard is a document established by consensus that provides, for common and repeated use, rules, guidelines for activities or their results, aimed at the achievement of the optimum degree of order in a given context

FACOM, 30 YEARS OF INVOLVEMENT IN INTERNATIONAL STANDARDISATION

- FACOM is actively involved in the various standardisation committees (French - NF, International - ISO or American ASME or SAE) for hand tools.
- FACOM's involvement at an early stage in the elaboration process allows it to continuously adapt its products to the requirements of future standards and provide tools of the required quality, ensuring greater ease and safety of use.
- FACOM informs its users by indicating the main standards applying to its tools :
 - European and International standards (EN / ISO)
 - French standards (NF)
 - German standards (DIN)
 - American standards (ASME / SAE)

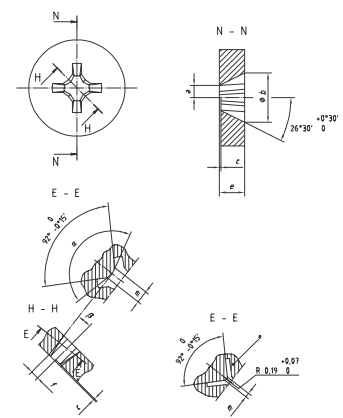


Extracts from the AFNOR standard. Only the full version of the standard has authority. It can be obtained from the Afnor Web site www.boutique-normes.afnor.org (DIN Standard) Reproduced by permission of DIN Deutsches Institut für Normung e.V. The definitive version for the implementation of this standard is the edition bearing the most recent date of issue, obtainable from Beuth Verlag GmbH, 10772 Berlin, Germany.

DIMENSIONS OF THE PH END PENETRATION GAUGE

End	a	b	c	e	f	m	α	β
no	± 0,005	min.	± 0,025	max.	± 0,005	0	-0°15'	+0°15'
	mm	mm	mm	mm	mm	mm		
0	0,419	3		2,38	0,284	0,29	-	7°
1	0,648	4,5		2,38	0,493	0,49	138°	
2	1,156	6	0,254	3,97	0,769	1,08	140°	5°45'
3	1,918	8		6,34	1,257	2,07	146°	
4	2,553	10		7,94	1,804	2,71	153°	7°

PH END GAUGES



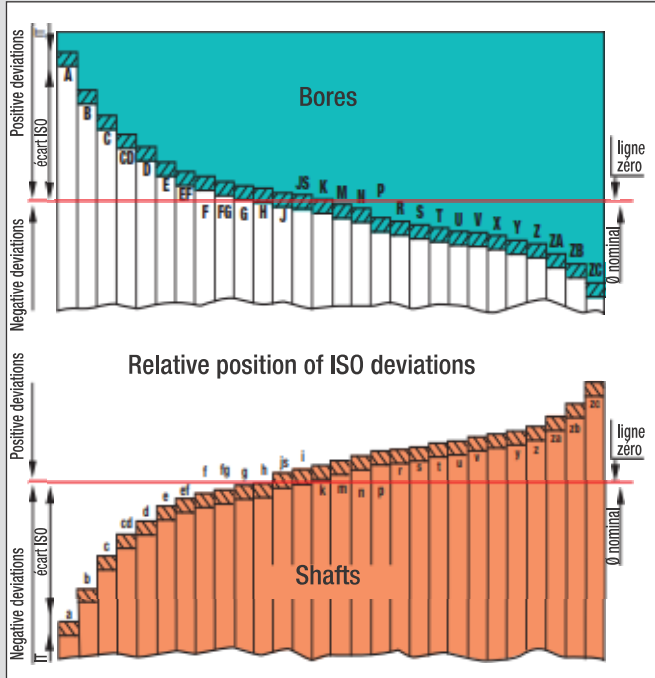
WRENCHES

Désignation New Old	Term	ISO standards	Tool	Use
1 1 01 01 0 1 1 01 01 1	1 Single open- end	4229 (691, 1711-1)		
1 1 01 02 0	4 Double open- end	10102 (691, 1085, 1711-1, 3318)		
1 1 01 03 0	3 Open-end slogging wrench	(691)		
1 1 01 04 0	2 Adjust- table wrench	6787		
1 1 01 05 0	13 Angled combi- nation wrench	7738 (691, 1711-1, 3318)		
1 1 01 06 0	14 Offset combi- nation wrench	7738 (691, 1711-1, 3318)		

MECHANICAL FITS

Fits are categories of standard tolerated dimensions that are used for assembling two cylindrical or prismatic parts.

STANDARD DESIGNATION AND MARKINGS



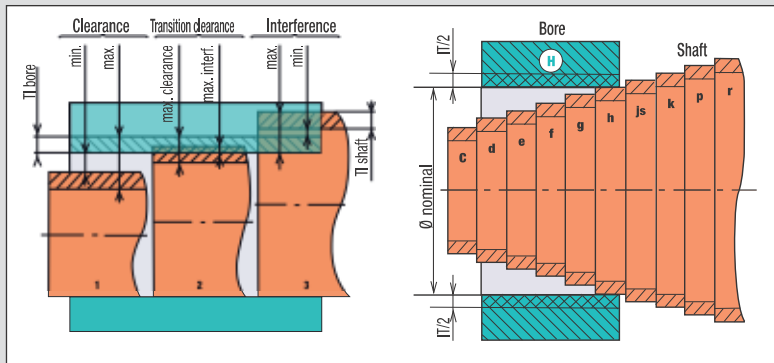
STANDARD FITS

		Standard fits (H bore system)								
Type	shaft	Bores						Comments		
		H6	H7	H8	H9	H10	H11			
Moving parts	high clearance	c11							Standard fits for long spans, poor alignment, expansion, etc.	
		c10								
		c9								
	medium clearance	d9							Standard fits for rotating or sliding guides (good lubrication ensured)	
		d8								
		e9								
		e8								
		f7								
		f6								
low clearance	g5							For high-precision guides		
	g6									
	g5									
Non-moving parts	adjusted	h9						Can be assembled by hand	For centring and locating, cannot transfer forces	Parts disassembled without damage
		h7								
		h6								
	highly adjusted	js7						Can be assembled with a mallet (Press recommended)		
		js6								
		js5								
	not very tight	k6						Assembled with a press	For transmission of forces	Parts damaged when disassembled
		k5								
		m7								
	tight	m6						Assembled with a heavy-duty press or by dilation (shrink-fitting)		
		n6								
		p6								
interference fits	r6									
	s7									
	s6									
very tight	t5									
	u6									
	x7									

most commonly used

most commonly used (to be known)

STANDARD TOLERANCE INTERVALS (OR QUALITIES)



• Ajustements avec jeu :

Ø80 H8 f7
Jeu mini = 0.030 mm
Jeu Maxi = 0.106 mm

• Ajustements avec jeu incertain (jeu ou serrage) :

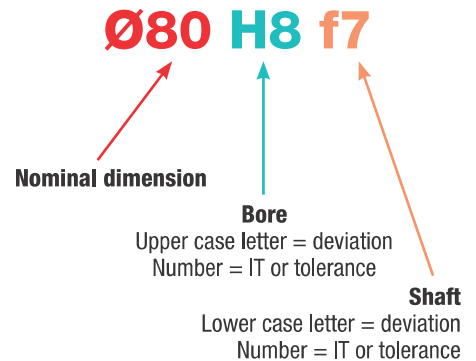
Ø80 H7 k6
Jeu Maxi = 0.009 mm
Serrage Maxi = 0.002 mm

• Ajustements avec serrage ou interférence :

Ø80 H7 p6
Serrage mini = 0.002 mm
Serrage Maxi = 0.051 mm

Main ISO qualities or tolerances (TI)
(IT in micrometres : 1µm = 0.001 mm)
Nominal dimensions (mm):

above → to (inclusive) →	1	3	6	10	18	30	50	80	120	180	250	315	400
IT5	4	5	6	8	9	11	13	15	18	20	23	25	27
IT6	6	8	9	11	13	16	19	22	25	29	32	36	40
IT7	10	12	15	18	21	25	30	35	40	46	52	57	63
IT8	14	18	22	27	33	39	46	54	63	72	81	89	97
IT9	20	30	36	43	52	62	74	87	100	115	130	140	155
IT10	40	48	58	70	84	100	120	140	160	185	210	230	250
IT11	60	75	90	110	130	160	190	220	250	290	320	360	400
IT12	100	120	150	180	210	250	300	350	400	460	520	570	630
IT13	140	180	220	270	330	390	460	540	630	720	810	890	970



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LIGHTING SAFETY

- It is essential to use the correct light for the situation to avoid tired eyes and accidents at work.
- Engineering or maintenance tasks require an illumination of 300 to 500 lux.
- Inspection, finishing and painting tasks require an illumination of 750 to 1000 lux.
- The light source must be designed and arranged to avoid uncomfortable glare.




IP INGRESS PROTECTION RATING

- The IP code indicates the degree of protection against access to hazardous parts, as well as the penetration of solid foreign bodies and of water.
- The code consists of two figures (e.g. IP 64), defined right according to NF EN 60529

IP rating: What does it mean?

1st FIGURE Protection of live components against ingress of solid objects		2nd FIGURE Protection of live components against ingress of liquids	
0	No protection	0	No protection
1	Solid objects greater than 50mm diameter cannot penetrate	1	Vertically falling drops of water
2	Solid objects greater than 12.5 mm diameter cannot penetrate	2	Water dripping on the enclosure tilted at 15° from its normal position
3	A steel wire of 2.5 mm diameter cannot penetrate	3	Spraying water at an angle of up to 60° from the vertical
4	A steel wire of 1 mm diameter cannot penetrate	4	Splashing water against the enclosure from any direction
5	Invisible amount of talcum powder deposited when tested in a dust chamber	5	Water projected in jets (6.3 mm) against the enclosure from any direction
6	No talcum powder deposited when tested in a dust chamber	6	Water projected in jets (12.5 mm) against the enclosure from any direction
		7	Immersion to 1 mm
		8	Submersible equipment according to manufacturer's specifications

THERE ARE A NUMBER OF LIGHTING TECHNOLOGIES TO CHOOSE FROM:

Technology	Advantages	Disadvantages	Lighting power	FACOM product
Fluorescent and compact fluorescent lamps  IP 55	Diffuse lighting, low temperature, low consumption	Average impact resistance	300 to 400 lux	777 range 
Leds IP 64	Very good impact resistance, low temperature, very low consumption, long operating life	Cost, concentrated light beam	500 to 1000 lux	779 range 



SAFETY RECOMMENDATIONS

- Use fluorescent inspection lamps complying with the requirements of EN 60 598-2-8.
- For mains powered lights, preferably choose inspections lamps powered at a voltage of less than 50V.

STANDARDISATION AND SELECTION GUIDE

SOCKETS



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PLIERS



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WRENCHES



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TIPS



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SCREWDRIVERS



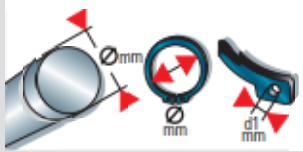
416



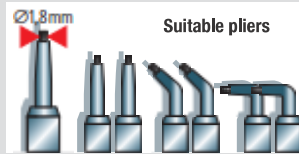
CIRCLIPS®

External Circlips®

• Solit spring rings for shafts to NF E 22-163



Standard range		
3 ▶ 5	2,7 ▶ 4,7	1
6 ▶ 9	5,6 ▶ 8,4	1,2
10 ▶ 13	9,3 ▶ 11,9	1,5
14 ▶ 17	12,9 ▶ 15,7	1,7
18 ▶ 30	16,5 ▶ 27,9	2
32 ▶ 63	31,5 ▶ 58,8	2,5
65 ▶ 82	60,8 ▶ 76,5	3
85 ▶ 120	82,5 ▶ 113	3,5
125 ▶ 200	118 ▶ 190,5	4

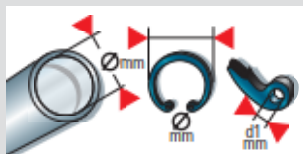


Ø	177A.9	167A.9	197A.9
0,9	177A.13	167A.13	197A.13
1,3	177A.18	167A.18	197A.18
1,8	177A.23	167A.23	197A.23
2,3	177A.32	167A.32	197A.32
3,2	177A.32	167A.32	197A.32

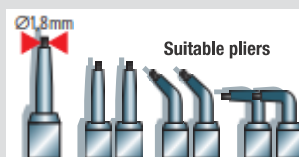
Heavy-duty range		
15 ▶ 30	13,8 ▶ 27,9	2
32 ▶ 60	29,6 ▶ 55,8	2,5
65 ▶ 80	60,8 ▶ 74,5	3
85 ▶ 100	79,5 ▶ 94,5	3,5

Internal Circlips®

• Solit spring rings for shafts to NF E 22-165



Standard range		
8 ▶ 3	8,7 ▶ 9,8	1
10 ▶ 11	10,8 ▶ 11,8	1,2
12 ▶ 13	13 ▶ 14,1	1,5
14 ▶ 17	15,1 ▶ 18,3	1,7
18 ▶ 30	19,5 ▶ 32,1	2
31 ▶ 63	33,4 ▶ 67,2	2,5
65 ▶ 82	69,2 ▶ 87,5	3
85 ▶ 120	90,5 ▶ 127	3,5
125 ▶ 200	135 ▶ 209,5	4



Ø	179A.9	169A.9	199A.9
0,9	179A.13	169A.13	199A.13
1,3	179A.18	169A.18	199A.18
1,8	179A.23	169A.23	199A.23
2,3	179A.32	169A.32	199A.32
3,2	179A.32	169A.32	199A.32

Heavy-duty range		
20 ▶ 30	21,5 ▶ 32,1	2
32 ▶ 62	34,4 ▶ 66,2	2,5
65 ▶ 80	69,2 ▶ 85,5	3
85 ▶ 100	90,5 ▶ 105,5	3,5

TIGHTENING TORQUES



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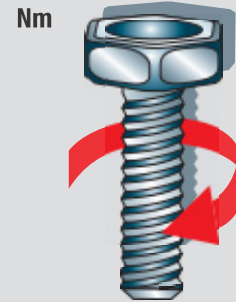


Diagram illustrating various screw and nut types with their corresponding tightening torque symbols:

- Circlips®**: Represented by a blue circlip icon.
- Hexagon heads**: Represented by a hex nut icon.
- Hexagon socket heads**: Represented by a hex socket head screw icon.
- Torx® heads**: Represented by a Torx head screw icon.
- Male Torx® heads**: Represented by a male Torx head screw icon.
- Slotted heads**: Represented by a slotted head screw icon.
- Vis à empreinte Phillips®**: Represented by a Phillips head screw icon.
- Pozidriv® heads**: Represented by a Pozidriv head screw icon.

Hexagon heads



• For inch to mm conversions, see "Inch dimensions".

Metric sizes (*recommended sizes)

Screw diameter ISO 272 Ø	Screw diameter ISO 272 Ø				Wrench size ISO 691	
	standardhead Ø mm	wide head Ø mm	collar screw Ø mm	collar nut	Min.	Max.
3,2*	1,6				3,22	3,28
3,5					3,52	3,58
4*	2				4,02	4,12
4,5					4,52	4,62
5*	2,5				5,02	5,12
5,5*	3				5,52	5,62
6					6,03	6,15
7*	4		5		7,03	7,15
8*	5		6	5	8,03	8,15
9					9,03	9,15
10*	6		8	6	10,04	10,19
11*	7				11,04	11,19
12					12,04	12,24
13*	8		10	8	13,04	13,24
14					14,05	14,27
15*			12	10	15,05	15,27
16*	10				16,05	16,27
17					17,05	17,30
18*	12		14	12	18,05	18,30
19					19,06	19,36
21*	14	12	16	14	21,06	21,36
22					22,06	22,36
23					23,06	23,36
24*	16	14		16	24,06	24,36
26					26,08	26,48
27*	18	16	20		27,08	27,48
29					29,08	29,48
30*	20	18		20	30,08	30,48
32					32,08	32,48
34*	22	20			34,10	34,60
35					35,10	35,60
36*	24	22			36,10	36,60
38					38,10	38,60
41*	27	24			41,10	41,60
42					42,10	42,60
46*	30	27			46,10	46,60
50*	33	30			50,10	50,60
54					54,12	54,72
55*	36	33			55,12	55,72
58					58,12	58,72
60*	39	36			60,12	60,72
63					63,12	63,72
65*	42	39			65,12	65,72
67					67,12	67,72
70*	45				70,12	70,72
71					71,15	71,85
75*	48				75,15	75,85
77					77,15	77,85
80*	52				80,15	80,85
82					82,15	82,85
85*	56				85,15	85,85
88					88,15	88,85
90*	60				90,15	90,85
94					94,15	94,85
95*	64				95,15	95,85
100*	68				100,15	100,85
105*	72				105,20	106,00
110*	76				110,20	111,00
115*	80				115,20	116,00
116					116,20	117,00
120*	85				120,20	121,00

Relationship screw diameter/size across flats

Inch sizes

Inch		mm		Screw diameter Ø		Thou. inch		mm	
Unified thread GB - USA - CANADA		Heavy series BS.1769 ASME B 18-2-1 18-2-2		Standard series BS.1768 ASME B 18-2-1 18-2-2		Machined or cast nuts		BSW BS. 916BSF 1083BSF	
BS. 1981									
							.117	2,97	
							.131	3,32	
1/8	3,17					2	.152	3,86	
							.172	4,37	
3/16	4,76					3-4-5	2-3	.193	4,90
7/32	5,56							.220	5,59
1/4	6,35					6-8	4	.248	6,30
9/32	7,14							.282	7,16
5/16	7,94					10-12	5-6	.324	8,23
11/32	8,73						8		
3/8	9,52						10	.365	9,27
7/16	11,11						1/4 - 12	.413	10,49
1/2	12,70	1/4 (1)	5/16					.445	11,30
9/16	14,29	5/16 (1)	3/8			5/16		.525	13,33
5/8	15,87		7/16			3/8		.600	15,24
11/16	17,46	3/8 (1)						.710	18,03
3/4	19,05	7/16 (1)	1/2						
13/16	20,64		9/16					.820	20,83
7/8	22,22	1/2						.920	23,37
15/16	23,81		5/8						9/16
1"	25,40								
1 1/16	26,99	5/8					1.010	25,65	5/8
1 1/8	28,57		3/4						
1 1/4	31,75	3/4					1.200	30,48	3/4
1 5/16	33,34		7/8				1.300	33,02	7/8
1 3/8	34,92								
1 7/16	36,51	7/8							
1 1/2	38,10		1"				1.480	37,59	1"
1 5/8	41,27	1"							
1 11/16	42,86		1 1/8				1.670	42,42	1 1/8
1 13/16	46,04	1 1/8							
1 7/8	47,62		1 1/4				1.860	47,24	1 1/4
2"	50,80	1 1/4							
2 1/16	52,39		1 3/8				2.050	52,07	1 3/8
2 3/16	55,56	1 3/8							
2 1/4	57,15						2.200	56,39	1 1/2
2 3/8	60,32	1 1/2	1 1/2				2.410	61,22	1 5/8 (4)
2 7/16	61,91								
2 9/16	65,09						2.580	65,53	1 3/4
2 5/8	66,67		1 3/4 (2)						
2 3/4	69,85	1 3/4					2.760	70,10	2"
2 13/16	71,44								
2 15/16	74,61								
3"	76,20		2" (2)						
3 1/8	79,37	2"					3.150	80,01	2 1/4 (4)
3 3/8	85,72		2 1/4 (3)						
3 1/2	88,90	2 1/4					3.550	90,17	2 1/2 (4)
3 3/4	95,25		2 1/2 (3)						
3 7/8	98,42	2 1/2					3.890	98,81	2 3/4 (4)
4 1/8	104,80		2 3/4 (3)						
4 1/4	107,95	2 3/4					4.180	106,20	3" (4)
4 1/2	114,30		3" (3)				4.530	115,06	3 1/4 (4)
4 5/8	117,50	3"							
							4.850	123,20	3 1/2 (4)
							5.180	131,60	3 3/4 (4)
							5.550	141	4" (4)
							6.380	162	4 1/2 (4)

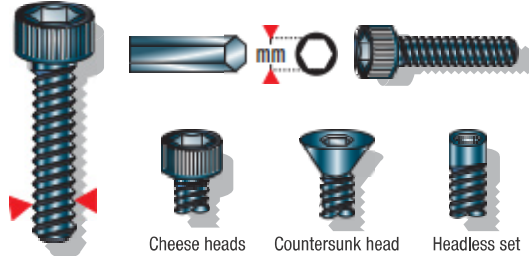
For inch sizes
 (1) USA ASME B.18-2-2 only.
 (2) Except Norway.
 (3) Except Norway.
 (4) BSW BS 916 BSF only.

STANDARDISATION AND SELECTION GUIDE

HEXAGON SOCKET HEADS

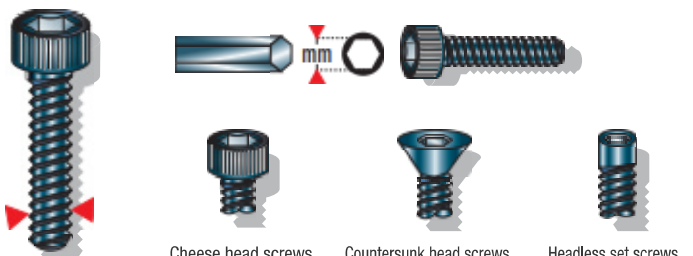
Relationship screw diameter/hexagon socket size

Metric sizes



Ø Screw mm	Cheese heads screws ISO 4762	Countersunk head screws ISO 10642	Headless set screws ISO 4026
M1,6	1,5		0,7
M2	1,5		0,9
M2,5	2		1,3
M3	2,5	2	1,5
M4	3	2,5	2
M5	4	3	2,5
M6	5	4	3
M8	6	5	4
M10	8	6	5
M12	10	8	6
M14	12	10	
M16	14	10	8
M18	14		
M20	17	12	10
M22	17		
M24	19		12
M27	19		
M30	22		
M33	24		
M36	27		
M42	32		

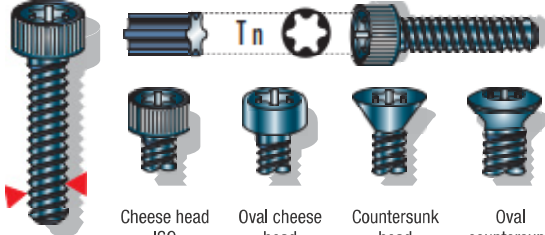
Inch sizes



Ø Screw mm	"	mm	"	mm	"	mm	
n° 0	1,52	0,50	1,27	.035	0,89	.028	0,711
n° 1	1,85	1/16	1,59	.050	1,27	.035	0,89
n° 2	2,18	5/64	1,98	.050	1,27	.035	0,89
n° 3	2,51	5/64	1,98	1/16	1,59	.050	1,27
n° 4	2,84	3/32	2,38	1/16	1,59	.050	1,27
n° 5	3,17	3/32	2,5	5/64	1,98	1/16	1,59
n° 6	3,5	7/64	3	5/64	1,98	1/16	1,59
n° 7	3,5	1/8	4				
n° 8	4,16	9/64	5	3/32	2,38	5/64	1,98
n° 10	4,82	5/32	6	7/64	2,78	3/32	2,38
n° 10	4,82			1/8	3,17		
1/4	6,35	3/16	4,75	9/64	3,57	7/64	2,78
1/4	6,35	7/32	5,55	5/32	3,97	1/8	3,17
5/16	7,94	1/4	6,35	3/16	4,75	9/64	3,57
5/16	7,94					5/32	3,97
3/8	9,52	5/16	7,94	7/32	5,55	3/16	4,75
7/16	11,11	3/8	9,52	1/4	6,35	7/32	5,55
1/2	12,7	3/8	9,52	5/16	7,94	1/4	6,35
5/8	15,87	1/2	12,7	3/8	9,52	5/16	7,94
3/4	19,05	5/8	15,88	1/2	12,7	3/8	9,52
7/8	22,2	3/4	19,05	9/16	14,29	1/2	12,7
1	25,4	3/4	19,05	5/8	15,88	9/16	14,29
1"1/8	28,57	7/8	22,2	3/4	19,05	9/16	14,29
1"1/4	31,75	7/8	22,2	7/8	22,2	5/8	15,88
1"3/8	34,92	1"	25,4	7/8	22,2	5/8	15,88
1"1/2	38,10	1"	25,4	1"	25,4	3/4	19,05

TORX® HEADS


Relationship NF EN ISO 10664 screw diameter / TORX® key



Ø Screw mm	Cheese head ISO 14579/14580	Oval cheese head ISO 14584	Countersunk head NF E 25-107	Oval countersunk head ISO 14583
M2,0	T6	T6	T6	T6
M2,5	T8	T8	T8	T8
M3,0	T10	T10	T10	T10
M3,5	T15 (1)	T15	T10	T15
M4,0	T20	T20	T20	T20
M5,0	T25	T25	T20	T25
M6,0	T30	T30	T30	T30
M8,0	T45	T45	T40	T45
M10,0	T50 (1)	T50	T50	T50
M12,0			T55	

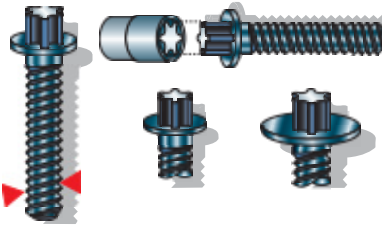
(1) ISO 14580

Key pattern identification



T N°	mm
T6	1,65
T8	2,30
T10	2,72
T15	3,26
T20	3,84
T25	4,40
T27	4,96
T30	5,49
T40	6,60
T45	7,77
T50	8,79
T55	11,22

Relationship screw diameter / TORX® socket



Ø Screw mm	Wide collar	
M3	E4	
M4	E5	E6
M5	E6	E8
M6	E8	E10
M8	E10	E12
M10	E12	E14
M12	E14	E18
M14	E18	E20
M16	E20	

SLOTTED HEADS



Relationship screw diameter/slot size

Engineering screws

Screw mm	Countersunk head NF EN ISO 2009		Oval countersunk head NF EN ISO 2010		Cheese head NF EN ISO 1207		Widecheese head NF EN ISO 1580	
	Ø	e x A	Ø	e x A	Ø	e x A	Ø	e x A
M1,6	0,4	x 2,5	0,4	x 2,5	0,4	x 2,5	0,4	x 2,5
M2	0,5	x 3	0,5	x 3	0,5	x 3	0,5	x 3
M2,5	0,6	x 3,5	0,6	x 3,5	0,6	x 3,5	0,6	x 3,5
M3	0,8	x 4	0,8	x 4	0,8	x 4	0,8	x 4
M3,5	1,0	x 5,5	1,0	x 5,5	1,0	x 5,5	1,0	x 5,5
M4	1,2	x 6,5	1,2	x 6,5	1,2	x 6,5	1,2	x 6,5
M5	1,2	x 8	1,2	x 8	1,2	x 8	1,2	x 8
M6	1,6	x 10	1,6	x 10	1,6	x 8	1,6	x 10
M8	2,0	x 12	2,0	x 12	2,0	x 12	2,0	x 12
M10	2,5	x 14	2,5	x 14	2,5	x 14	2,5	x 14

Self-tapping screws

Screw mm	Countersunk head NF EN ISO 1482		Oval countersunk head NF EN ISO 1483		Wide cheese head NF EN ISO 1481	
	Ø	e x A	Ø	e x A	Ø	e x A
ST,2,2	0,5	x 3	0,5	x 3	0,5	x 3
ST,2,9	0,8	x 4	0,8	x 4	0,8	x 4
ST,3,5	1	x 5,5	1	x 5,5	1	x 5,5
ST,4,2	1,2	x 6,5	1,2	x 6,5	1,2	x 6,5
ST,4,8	1,2	x 8	1,2	x 8	1,2	x 8
ST,5,5	1,6	x 8	1,6	x 8	1,6	x 10
ST,6,3	1,6	x 10	1,6	x 10	1,6	x 10
ST,8	2	x 12	2	x 12	2	x 1,2
ST,9,5	2,5	x 14	2,5	x 14	2,5	x 14

Wood screws

Screw mm	Countersunk head NF E 25-604		Oval countersunk head NF E 25-605		Round head NF E 25-606	
	Ø	e x A	Ø	e x A	Ø	e x A
1,6	0,4	x 2,5			0,4	x 2
2	0,5	x 3	0,5	x 3	0,5	x 3
2,5	0,6	x 3,5	0,6	x 3,5	0,6	x 3,5
3	0,8	x 4	0,8	x 4	0,8	x 4
3,5	1,0	x 5,5	1,0	x 5,5	1,0	x 5,5
4	1,2	x 6,5	1,2	x 6,5	1,2	x 6,5
4,5	1,2	x 8	1,2	x 8	1,2	x 6,5
5	1,2	x 8	1,2	x 8	1,2	x 8
6	1,6	x 10	1,6	x 10	1,6	x 10
7	2,0	x 12			2,0	x 10
8	2,0	x 12			2,0	x 12



PROTWIST

➔ 418



HEXAGON KEYS

➔ 444



BITS

➔ 197

PHILLIPS® AND POZIDRIV® HEADS



Relationship screw diameter/pattern size

Engineering screws

Screw mm	Countersunk head ISO 7046		Oval countersunk head ISO 7047		Oval cheese head ISO 7045		Wide oval cheese head NFE 25-122	
	Ø	Nbr.	Ø	Nbr.	Ø	Nbr.	Ø	Nbr.
M 1,6	0	0	0	0				
M 2,0	0	0	0	0				
M 2,5	1	1	1	1				
M 3,0	1	1	1	1	1	1		
M 3,5	2	2	2	2	2	2		
M 4,0	2	2	2	2	2	2		
M 5,0	2	2	2	2	2	2		
M 6,0	3	3	3	3	3	3		
M 8,0	4	4	4	4	4	4		
M 10,0	4	4	4	4				

Self-tapping screws

Screw mm	Countersunk head ISO 7050		Oval countersunk head ISO 7051		Cheese head ISO 7049		Wide oval cheese head NF E 25-659	
	Ø	Nbr.	Ø	Nbr.	Ø	Nbr.	Ø	Nbr.
ST,2,2	0	0	0	0				
ST,2,9	1	1	1	1	1	1		
ST,3,5	2	2	2	2	2	2		
ST,4,2	2	2	2	2	2	2		
ST,4,8	2	2	2	2	2	2		
ST,5,5	3	3	3	3	3	3		
ST,6,3	3	3	3	3	3	3		
ST,8	4	4	4	4				
ST,9,5	4	4	4	4				

Wood screws

Screw mm	Countersunk head NF E 25-601		Oval countersunk head NF E 25-602		Round head NF E 25-603	
	Ø	Nbr.	Ø	Nbr.	Ø	Nbr.
2,5	1	1	1	1		
3	1	1	1	1		
3,5	2	2	2	2		
4	2	2	2	2		
4,5	2	2	2	2		
5	2	2	2	2		
6	3	3	3	3		



FACOM GUARANTEE



**FACOM GUARANTEES
ITS PRODUCTS
AGAINST FAULTY MATERIALS
OR WORKMANSHIP
UNDER THE CONDITIONS
DEFINED BELOW.**



The FACOM Guarantee is fully part of the brand's commitments towards its clients. It ensures total satisfaction with FACOM products.

Over the last 60 years, FACOM guarantees the quality of its products, by means of free replacement or repair guarantee of its products without any time limit (excluding technical products, torque tools, roller cabinets and furniture).

The **FACOM Guarantee** is applicable by all FACOM dealers.

FACOM has implemented a specific organisation to manage and follow up returned products, for unequalled responsiveness to client requests:

- Returned products are first managed by the distributor network, entrusted with applying the **FACOM Guarantee** and replacing items on stock (under reservation of availability).
- Daily processing of returns within FACOM, by an 18-person department dedicated to applying the warranty.



IMPLEMENTATION OF THE GUARANTEE

- The FACOM guarantee takes the form of an exchange or repair limited to replacement of the faulty parts in accordance with the terms and conditions specified below.
- The faulty product must be returned to the Facom distributor, failing which repair under guarantee may be refused.
- This guarantee includes the parts and the labour provided by the Facom after sales service or the approved distributor.
- All repairs are guaranteed six months parts and labour. This guarantee only applies to the components changed during the previous repair, with the exception of consumables.
- In line with its policy of continual product improvements to meet user needs and technological developments, Facom may upgrade or discontinue the models shown in its catalogue without notice and without entailing any obligation on

its part to repair tools or equipment sold previously. Those items no longer included in the range will then be replaced by a technically equivalent product or a credit note will be issued.

CONDITIONS OF APPLICATION OF THE FACOM GUARANTEE

UNLESS OTHERWISE SPECIFIED, THE FACOM GUARANTEE APPLIES TO ALL TOOLS UNDER NORMAL CONDITIONS OF USE.

The guarantee excludes the following :

Consumables (i.e. products that become deteriorated or damaged during use). These include, but are not limited to, drill bits, saw blades, abrasive discs, knife blades, files, batteries, driving bits, etc.

Normal wear and tear (in particular of wearing parts), failure to use the product for its intended purpose or in accordance with our instructions, neglect or inadequate maintenance on the part of the user.

Defective operation due to modifications or repairs not carried out by Facom's after sales service or that of its approved distributors, Defective operation due to causes external to the pro-

duct (theft, dropping, lightning, flooding, fire, damage during transport, product not returned in its original packaging, etc.).

- The guarantee period takes effect from the date of purchase by the customer from the Facom customer-distributor. A copy of the invoice proving the date of purchase from the distributor may be requested in the event of a claim under the guarantee. In the case of technical products covered by a limited guarantee type D, it shall systematically be supplied by the user customer together with the serial number where one is indicated on the tool.
- The guarantee will apply for the period indicated in the price list applying on the date of purchase.

- Where the product is no longer covered by the guarantee (expiry of the guarantee period, guarantee inapplicable for the reasons given in paragraph 2) yet is repairable, this repair will be carried out only after acceptance by the user of the repair estimate.
- The application of the guarantee will not give risk to any kind of indemnity or damages for any reason whatsoever.

TYPES OF GUARANTEE (PRICE LIST COLUMN G)

GUARANTEE TYPE E : the tool will be exchanged free of charge, in accordance with the conditions of implementation and application of the guarantee (cf. paragraphs 1 and 2 above) and without limit of time.

GUARANTEE TYPE R : the tool will be repaired or replaced with a repaired tool in a similar condition in accordance with the conditions of implementation and application of the guarantee (cf. paragraphs 1 and 2 above) and without limit of time.

GUARANTEE TYPE D : this guarantee is subject to a time limit. The guarantee period is specified by a figure after

the D. It applies mainly to technical products or machines. In accordance with the conditions of implementation and application of the guarantee (in particular the exclusion of wearing parts - cf. paragraphs 1 and 2 above), this guarantee covers the repair and replacement of defective parts, free of charge, during the period of validity.

- In the event that Facom is no longer able to exchange a product under guarantee with another having the same reference, it undertakes to provide a technically equivalent product or to issue a credit note if no corresponding product is available.

- The type of guarantee applying to a product can be determined simply by referring to the current price list (column G) available at any Facom distributor. For certain product references, the type of guarantee is indicated on the packaging or in the accompanying documentation.
- Those items for which no guarantee type is specified (column G empty), are covered only by the statutory guarantee.
- Each item of a set continues to be covered by its own guarantee jurisdiction. Applicable legislation.

JURISDICTION. APPLICABLE LEGISLATION

IN THE EVENT OF PROBLEMS CONCERNING THE APPLICATION HEREOF, THE USER CAN CONTACT:

In France :

– Facom Customer Services, 6 and 8 rue Gustave Eiffel, 91420 Morangis.

Outside France:

– The Facom subsidiaries listed on page 868 of the Catalogue and on the Facom Web site www.facom.fr

– Facom distributors

- Any dispute in relation to the interpretation or execution hereof that cannot be amicably resolved between the parties will be subject to French law and the sole jurisdiction of the Paris Courts.

TERRITORIAL EXTENT

The FACOM contractual guarantee applies in all countries in which the product is officially sold and distributed.

STATUTORY GUARANTEE

Irrespective of the FACOM contractual guarantee, the user is also covered by the provisions of articles 1641 to 1649 of the French Civil Code relating to hidden defects.

'Auto electricians' kit	1074	1/2" fast ratchet with rotating handle	326	1/4" drive tee with universal joint	288
'C-clamp' arc-welding lock-grip pliers	515	1/2" female Torx® impact sockets	354	1/4" drive tee with universal joint	288
'Connector' pliers	519	1/2" Hi-Lok® ratchet - FLUO	819	1/4" electrical ratchet 10.8V 2.0Ah	715
'Connector' pliers - FLUO	841	1/2" Hi-Lok® ratchet - Fluo	918	1/4" fast ratchet with rotating handle	282
'Contact' file	1060	1/2" impact bit holder sockets	356	1/4" fast ratchet with rotating handle - FLUO	813
'Extra-wide capacity' straight-jaw pliers	503	1/2" impact screwdriver	481	1/4" fast ratchet with rotating handle - RFID	860
'Heavy-duty' offset ring wrenches	236	1/2" impact socket for Mercedes wheel nuts	1127	1/4" high performance sealed locking ratchet	282
'Heavy-duty' offset ring wrenches - SLS	783	1/2" impact sockets for wheel nuts	1126	1/4" high performance sealed locking ratchet - FLUO	813
'HGV, bus' wheel lift	1024	1/2" interchangeable male drive	344	1/4" high performance sealed locking ratchet - RFID	860
'HGV, bus' wheel lift	1171	1/2" locking extensions	330	1/4" high performance sealed ratchet	282
'LCV' trolley jacks	1023	1/2" locking extensions - RFID	871	1/4" high performance sealed ratchet - SLS	785
'Long-reach' lock-grip pliers	516	1/2" long-reach impact sockets for wheel nuts	1126	1/4" lock-ring bit holder - FLUO	828
'Low torque' click torque wrenches	376	1/2" long-reach ratchet	327	1/4" locking extension	287
'Low torque' click torque wrenches - RFID	876	1/2" offset ratchet	328	1/4" locking extension - RFID	861
'Micromécanique' open-end wrenches	226	1/2" original ratchet	327	1/4" locking extensions - FLUO	814
'Micromécanique' open-end wrenches - FLUO	810	1/2" reinforced impact socket set	1127	1/4" long-reach sockets Spline	912
'Multi-model' press protection	1032	1/2" screwdriver long-reach and extra long-reach sockets for 6-point countersunk head screws	335	1/4" metric 6-point socket and bit set	281
'No vernier' adjustable angle torque wrenches	387	1/2" screwdriver sockets for countersunk hex head screws	334	1/4" mini ratchet	692
'No vernier' adjustable click torque wrenches	387	1/2" screwdriver sockets for countersunk hex head screws	355	1/4" original ratchet	283
'Refrigeration' flaring tool	730	1/2" sockets for 16, 18 and 21 mm spark plugs	1057	1/4" reversible gun screwdriver	694
'Refrigeration' kit	730	1/2" Titanium pneumatic ratchet	691	1/4" reversible screwdriver	694
'Screw jaw' lock-grip pliers	516	1/2" to 3/4" coupler	331	1/4" screwdriver handle	285
'Screw sliding jaw' lock-grip pliers	516	1/2" to 3/4" impact coupler	356	1/4" screwdriver sockets for hex head screws	294
'Two-hands' orbital sander 150 mm - 10 mm orbit	696	1/2" to 3/8" coupler	331	1/4" secure spring-clip bit holder - FLUO	815
'Two-hands' orbital sander 150 mm - 5 mm orbit	696	1/2" to 3/8" coupler - RFID	872	1/4" sockets Spline	912
'Junior' model multiblade screwdrivers	440	1/2" to 3/8" impact coupler	356	1/4" standard extension	286
'Pocket' bit holder handle	463	1/2" to CDX® coupler	331	1/4" standard extension - RFID	861
'Production' torque screwdrivers	395	1/2" Torx® bit impact screwdriver sockets	355	1/4" Standard ratchet	693
'Radio' model multiblade screwdrivers	440	1/2" Torx® bit impact screwdriver sockets	355	1/4" to 3/8" coupler	288
'Standard' model multiblade screwdrivers	440	1/2" Torx® impact screwdriver sockets	354	1/4" to 3/8" coupler - FLUO	815
'11-in-1" flat set	216	1/2" Torx® impact sockets	354	1/4" to 3/8" coupler - RFID	862
1 t europalette workshop crane	1028	1/2" Torx® screwdriver sockets	335	1/4" Torx® screwdriver sockets	294
1 t workshop crane	1027	1/2" Torx® sockets	334	1/4" Torx® sockets	293
1" 1/2 impact extension	363	1/2" universal joint	330	1/4" ultra compact ratchet for 1/4" end bits	284
1" 1/2 impact universal joint	363	1/2" universal joint - RFID	872	1/4" ultra compact 180° flexible head ratchet for 1/4" end bits	283
1" 1/2 to 1" impact coupler	363	1/2" VSE series 1000 Volt insulated 12-point long-reach sockets	966	1/4" ultra compact 180° flexible head ratchet for HX series 1/4" sockets	284
1" 1/2 to 2" 1/2 impact coupler	363	1/2" VSE series 1000 Volt insulated 12-point sockets	966	1/4" universal joint	288
1" 12-point impact socket	362	1/2" VSE series 1000 Volt insulated extensions	968	1/4" universal joint - RFID	861
1" 12-point sockets - ADF	749	1/2" VSE series 1000 Volt insulated handle	967	1/4" VSE series 1000 Volt insulated 6-point sockets	963
1" 12-point sockets 65 mm	1179	1/2" VSE series 1000 Volt insulated male 6-point sockets	967	1/4" VSE series 1000 Volt insulated extension	964
1" 6-point extra-long impact sockets	362	1/2" XZN® impact screwdriver sockets	355	1/4" VSE series 1000 Volt insulated ratchet	963
1" 6-point impact sockets	361	1/2" XZN® long-reach impact screwdriver sockets	355	1/4" wobble extension	287
1" 6-point long-reach impact sockets	361	1/2" XZN® screwdriver socket set	336	10 t hydraulic jack for U.312H	639
1" 6-point long-reach thin wall impact sockets	362	1/2" - 3/4" - 1" ratchets - ADF	746	10 t hydraulic screw	639
1" drive 12-point sockets	348	1/2" - 3/4" - 1" sliding handles - ADF	747	10-piece case of 18 mm snap-off blades	618
1" drive 6-point sockets	348	1/2" - 3/4" - 1" universal joints - ADF	747	10-piece case of 9 mm snap-off blades	618
1" drive impact extensions	362	1/2" - 3/4" - 1" extension - ADF	747	10-piece set of 1/4" inch 12-point long-reach sockets set on rack - FLUO	816
1" drive impact universal joint	362	1/4 Hi-Lok® ratchet - FLUO	812	10-piece set of 1/4" bits 50 mm long with groove - series 1	465
1" drive ratchet without handle	346	1/4 Hi-Lok® ratchet - Fluo	918	10-piece set of 1/4" bits 50 mm long-reach - series 1	465
1" drive sliding tee	347	1/4" - 5/16" bit holder ratchet	284	10-piece set of 1000 Volt insulated tools	970
1" extensions	347	1/4" - 5/16" bit holder ratchet - FLUO	814	10-piece set of metric ratchet open end combination wrenches	207
1" to 1 1/2" impact coupler	363	1/4" - 5/16" bit holder ratchet - RFID	861	10-piece set of Micro-Tech® short-race combination wrenches	999
1" to 3/4" coupler	347	1/4" 'no handle' ratchet	284	10.8V pack - 1/2" compact impact wrench + Drill/Bolter 10 mm 2Ah	716
1 1/2 6-point impact sockets	363	1/4" 'Palm control' ratchet	693	1000 Volt insulated combination pliers - RFID	893
1/2" 12-point impact sockets	353	1/4" 12-point hinged sockets	293	1000 Volt insulated electricians diagonal cutters - RFID	892
1/2" 12-point long-reach impact sockets	354	1/4" 12-point hinged sockets - RFID	865	1000 Volt insulated flat nose pliers - RFID	893
1/2" 12-point long-reach sockets	333	1/4" 12-point long-reach sockets	292	1000 Volt insulated half-round long nose pliers - RFID	892
1/2" 12-point long-reach sockets - RFID	875	1/4" 12-point long-reach sockets - FLUO	817	1000 Volt insulated half-round short nose pliers - RFID	893
1/2" 12-point sockets	332	1/4" 12-point long-reach sockets - RFID	864	1000 Volt insulated strippers - RFID	893
1/2" 12-point sockets - ADF	748	1/4" 12-point sockets	291	1000 Volt multitrip pliers - RFID	892
1/2" 12-point sockets - RFID	874	1/4" 12-point sockets	291	11-piece set of Micro-Tech® tools	999
1/2" 6-point impact sockets	352	1/4" 12-point sockets - FLUO	816	12 - 24 Volt surge limiter	1070
1/2" 6-point long-reach impact sockets	353	1/4" 12-point sockets - RFID	863	12-piece set of contact cleaning diamond needle files	1073
1/2" 6-point long-reach sockets	333	1/4" 12-point sockets - RFID	863	120 t mechanical screw jack	640
1/2" 6-point long-reach sockets - RFID	873	1/4" 12-point thin wall sockets	291	12V - 24V starting booster	1067
1/2" 6-point long-reach thin-wall impact sockets	353	1/4" 6-point hexagonal sockets	290	135-piece bodywork tool set	1151
1/2" 6-point sockets	332	1/4" 6-point long-reach sockets	291	136-piece set of inch fluorescent tools	808
1/2" 6-point sockets - RFID	873	1/4" 6-point long-reach sockets - RFID	865	14 x18 mm open end bit set	406
1/2" angular extensions	330	1/4" 6-point sockets	290	14 x18 mm polygon bit set	407
1/2" battery impact wrenches	712	1/4" 6-point sockets - FLUO	815	143-piece set of metric fluorescent tools	807
1/2" bit holder socket	331	1/4" 6-point sockets - FLUO	816	15 t hydraulic bench press	1030
1/2" bit holder sockets with retaining clip	331	1/4" 6-point sockets - RFID	862	15-piece set of forming tools: the essential for professionals	1152
1/2" drive hinged handle - 381 mm	328	1/4" and 1/2" sockets and Torx® screwdriver bit set	1136	15° angled offset-ring ratchets	212
1/2" drive impact bits set	479	1/4" angular extension	287	15° angled offset-ring ratchets - FLUO	810
1/2" drive impact extensions	356	1/4" bit holder socket	289	15° angled offset-ring ratchets - RFID	857
1/2" drive impact universal joint	356	1/4" bit set	281	16-piece set of Micro-Tech® tools	999
1/2" drive long-reach Torx® bit sockets	335	1/4" crowfoot open end bit set	408	18-piece set of partitions for drawers 50 and 75 mm high	123
1/2" drive long-reach XZN® spline bit sockets	335	1/4" Crowfoot open end bit set	916	18V pack - 1/2" high performance impact wrench + Drill/Bolter 13 mm 5Ah	716
1/2" drive metal-grip hinged extending handle	328	1/4" crowfoot open end bits	404	19-piece set of 1000 Volt insulated tools	971
1/2" drive metal-grip hinged handle - 410 mm	328	1/4" drive flexible spinner	286	2-piece set of extra-long reach double jointed pliers	518
1/2" drive offset adaptor	331	1/4" drive hinged handle - 150 mm	285	2-piece set of multiple opening metric straight ratchet ring wrenches	215
1/2" drive sliding tee	328	1/4" drive long spinner	286	2-piece set of nut splitters	862
1/2" drive speed brace	329	1/4" drive long spinner - FLUO	815	2-piece set of reversible pliers	508
1/2" drive tee with universal joint	329	1/4" drive medium spinner - FLUO	814	2-piece set of sanding wedges	1159
1/2" drive XZN® spline bit sockets	335	1/4" drive short spinner	286	2-piece set of self-adjusting sanding wedges	1158
1/2" extension - RFID	872	1/4" drive short spinner - FLUO	814	2-piece set of tuning screwdrivers for slotted head screws	1008
1/2" extensions	329	1/4" drive sliding tee	285	2-piece sets of bits	648
1/2" extra-long drive tee with universal joint	329	1/4" drive speed brace	286	2-piece sets of spare pins	254

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21-piece set of 1/4" and 1/2" Torx® sockets and bits.....	294	3/8" bit holder sockets with retaining clip.....	307	5-piece set of drive bits for spline socket head (XZN) bits 1/2".....
26-piece sets of letter punches and punch	549	3/8" crowfoot 12-point end bits	404	5-piece set of forming tools: the indispensables.....
27-piece set of partitions for drawers 75 mm high.....	123	3/8" crowfoot 12-point spline end bits.....	404	5-piece set of long shank Torx® screwdriver
3-in-1 PROTWIST® screwdriver set.....	441	3/8" crowfoot box end bits	406	5-piece set of metric flare-nut wrench angled at 15°.....
3-piece CPE plier set	520	3/8" Crowfoot open end bit set	917	5-piece set of metric half-moon ring wrenches.....
3-piece set of 'mechanical' pliers	521	3/8" crowfoot open end bits	405	50 t hydraulic screw
3-piece set of 1000 Volt pliers	521	3/8" drain plug bit with male triangle.....	1047	57-piece set of plastic boxes
3-piece set of contact cleaning diamond tweezers.....	1073	3/8" drive hinged handle - 260 mm.....	304	6-piece set of 15° angled offset-ring ratchets
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3-piece set of couplers.....	307	3/8" drive impact extensions.....	351	6-piece set of clockwork screwdrivers for hex Phillips® head screws.....
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3-piece set of flexible stainless steel spatulas.....	607	3/8" drive metal-grip hinged handle - 255 mm.....	304	6-piece set of keys for 6-point safety screws.....
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3-piece set of series 1 Torx® bits T8-10-15.....	461	3/8" Hi-Lok® ratchet - FluO.....	918	8-piece set of angled keys in pocket - FLUO.....
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3-piece sets of bits for Phillips® screws - High Perf® - series 6.....	473	3/8" high performance sealed locking ratchet - RFID.....	866	9 x12 mm open end bit set
3-piece sets of bits for Pozidriv® screws - High Perf® - series 6.....	473	3/8" high performance sealed locking ratchet - SLS.....	785	9 x12 mm polygon bit set
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