

YOUR HEALTH IS IMPORTANT.
PROTECT YOURS BY USING THE BEST QUALITY TOOLS
DESIGNED FOR YOUR SPECIFIC APPLICATION. USING TOOLS IN THE CORRECT
MANNER IS YOUR BEST GUARANTEE.



GLOVES

EYE
PROTECTION

MASKS



MATS



GENERAL RECOMMENDATIONS :

These safety recommendations for tool usage reflect good engineering practice and are not intended to be a comprehensive set of rules. They complement, but do not replace, standard precautions to be taken by every user complying with professional guidelines, company procedures and national regulations.

PERSONAL SAFETY

- Wear eye protection for any job involving chips, splinters, sparks, dust, flashes or UV rays.
- Wear gloves to protect against cuts, knocks and burns.

1,000 V INSULATED TOOLS FOR ELECTRICAL SAFETY

- Never work on or near live components without 1,000 V tools. Only these can provide the insulation required for adequate protection. Plastic handles of other tools are not designed to insulate.

SENSIBLE PRECAUTIONS

- Secure balance especially when pushing and pulling, e.g. tight fasteners.
- Straight back and bent knees when lifting.

TOOL CARE

- Keep tools clean to prevent risk of slipping and give a more secure grip.
- Check tools before use for any defects such as excessive wear or breakage. Some mechanisms need regular cleaning and lubrication.
- Keep and follow manufacturers' operating instructions. Use the complete contents of any service kits.

CORRECT TOOL SELECTION

- Use the right tool. Each tool is designed for a specific application and should not be used for other jobs. Only the right tool will ensure safety, comfort and productivity.
- Never attempt DIY modifications to a tool, whether by grinding, welding or heating. Altered specifications could make it unsafe.
- Do not exceed tool capacities with inappropriate extensions or impact accessories.

WORKSHOP FURNITURE AND STORAGE

ROLLER CABINETS

- Never open more than one loaded drawer at a time, otherwise the unit may tip.
- Do not exceed drawer load capacity.
- Apply the brake when stationary. Close and lock all drawers before moving.
- Do not pull the cabinet towards you, always push it and avoid balancing items on top.

TOOLBOXES AND CHESTS

- Watch your back when lifting heavy containers.
- Do not stand on toolboxes.
- Mind your hands and wear gloves. Sharp or rough objects should not be kept loose.



- Don't pull behind you.
- Nothing balanced on top.



- Only one drawer at a time



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WRENCHES

SENSIBLE PRECAUTIONS

- Secure your balance and pull the wrench towards you rather than push it.
- Wear gloves and eye protection.
- Do not grind, weld or heat your tool. It could become unsafe.
- Check condition of both fastener and tool before use.

CORRECT TOOL SELECTION, WITHOUT OVERLOAD

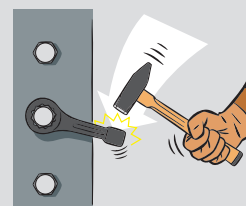
- Never exceed tool capacity. Do not use an extension or a hammer.
- Always use the right size for the fastener head.
- Select a ring wrench for high torques. When using an open-end wrench, engage fastener head fully to avoid distorting the nose of the wrench, and work in a straight line.



- Always pull the wrench towards you.



- No metric tools on inch sizes.



- Only fit slogging wrenches.



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SOCKETS

PERSONAL SAFETY WITH IMPACT SOCKETS

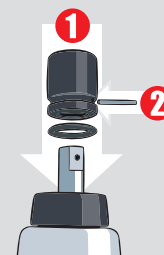
- Always secure sockets to the machine with locking ring and pin (references given for each socket).
- Never hold a socket or accessory while the machine is turning.
- Wear gloves and eye protection.
- Never use a manual or simple machine socket on a power impact tool.

SENSIBLE PRECAUTIONS

- Secure your balance. Pull the tool towards you rather than push it.
- Use only recommended extensions and do not overload.
- Check that ratchet mechanisms engage fully.
- Select 6-point sockets if fasteners are worn or hardened.
- Do not use tools showing signs of breakage or excessive wear.



- Don't exceed tool capacity or use oversize extensions.



- Only use impact sockets when locked.



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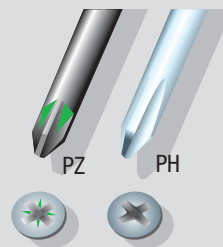
SCREWDRIVERS

PERSONAL SAFETY

- Plastic-handled screwdrivers are not insulated, with the exception of 1,000V tools.
- Keep your free hand clear when driving home a fastener in case the screwdriver slips.
- Wear gloves.

CORRECT TOOL SELECTION

- Avoid using screwdrivers as chisels, levers or punches.
- Avoid damage to fastener heads or tool blades, always select the appropriate pattern.
- Do not modify or heat blades as this will impair performance.
- For extra torque select a screwdriver with a hexagonal bolster.
- Wood-handled through-blade screwdrivers withstand gentle tapping on the end to free seized fasteners.



- Select the correct pattern :
Black blades PZ : Pozidriv®.
Chrome blades PH : Phillips®.



- Never use a screwdriver as a chisel or lever.



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PLIERS

PERSONAL SAFETY

- Wear eye protection, especially when cutting wire and fitting circlips or rivets.
- Sheathed handles are not insulating. Only 1,000V tools are designed for working with live components.

CORRECT TOOL SELECTION

- Keep within cutter capacity (wire diameter and hardness).
- Do not modify or heat tips as this will impair performance.
- Cut at right angles and avoid twisting the wire. Use the throat rather than the tip of cutting edges.
- When fitting circlips, use a tool within the correct range and only compress or expand the clip just enough.
- Lock-grip pliers should not be used as a permanent clamp. Components can move due to vibration or shock.



- Never modify the shape of a tool.



- Always use a 1,000V insulated tool when working with live components.



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HAMMERS, IMPACT TOOLS

PERSONAL SAFETY

- Wear gloves and eye protection.
- Avoid striking equally hard surfaces. Do not use a hammer on surfaces exceeding 46 HRC. Use a mallet instead.
- Do not use suspect tools such as hammers with chipped heads, insecure or cracked handles, excessively mushroomed chisels or punch ends. Check handle fit before use.
- Hammering may generate sparks. Do not use hammers in a fire-risk area.

CORRECT TOOL SELECTION

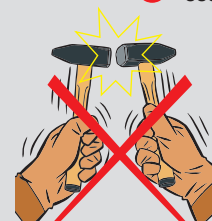
- Rule of thumb: hammer head should have a diameter about 10 mm larger than the surface to be struck. Avoid hitting with the edge of the hammer.
- Select chisels and punches fitted with a guard for increased safety and comfort.
- Do not use punches for leverage.



- Select tools with a guard.



- Never use tools with ill-fitting or damaged handles.



- Never "hard on hard".
- Check tool condition before use.



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SAWING, CUTTING, DRILLING

WATCH OUT FOR CHIPS

- Wear eye protection and gloves when sawing, cutting or drilling, and when handling sheet metal or metal objects while machining.
- Keep hands away from the cutting path.
- Metal shears are designed for cutting sheet metal, not for wire.
- Keep within capacities.



- Don't cut wire with metal shears.

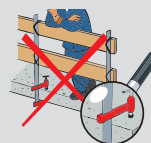


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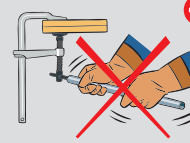
PRESSES AND BAR CLAMPES

REMAIN WITHIN CAPACITY

- Presses and bar clamps are not designed for permanent clamping and should never be used to construct a guard rail or platform.
- Avoid using bar clamps to hold assemblies subject to vibration or shock, as the joint could work loose.
- Do not use these tools for lifting.
- Always check before use and keep within clamping capacity (do not use extensions or impact tools).



- Never erect guard rails or platforms using clamps.



- Don't use an extension for tightening.



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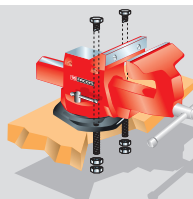
VICES

PERSONAL SAFETY

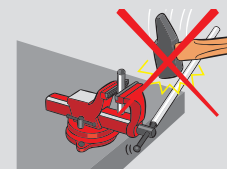
- Fit the vice securely to a suitably sized support.
- Never use an extension or a hammer to tighten a vice. Avoid clamping hard towards the end of the jaws.
- Do not use the jaws as an anvil.
- Never repair or modify a vice.
- Always wear eye protection and gloves when grinding, sawing, drilling and hammering.

CORRECT TOOL SELECTION

- Select a swivel-base vice so that you approach the workpiece from the best angle.



- Fix vice securely to bench.



- Don't use a hammer or extension to increase pressure.



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TORQUE CONTROL

SENSIBLE PRECAUTIONS FOR PRECISION TOOLS

- Avoid overloading by applying torques beyond rated capacity.
- Never fit an extension as this would modify lever ratios and give incorrect readings.
- Always store torque wrenches carefully after use.
- Torque wrenches are precision tools. Have yours checked regularly by accredited Facom facilities.
- Read operating instructions before use.
- Do not use impact drivers on torque multipliers. Always use a torque wrench.



- Careful storage and regular inspection by accredited Facom facilities.



- Never fit an extension to a torque wrench.



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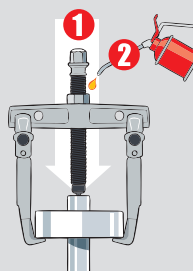
PULLERS

PERSONAL SAFETY

- Wear gloves, eye protection and safety shoes.
- Pullers generate several tonnes of force during use.
- Ensure correct positioning – centred, in line with the pulling axis and with a good grip on each leg.
- Steady a puller where necessary to avoid rotation during tightening.
- Cover the assembly to contain components if the fitting splits suddenly or the puller slips.
- Do not stand in line with the puller and keep other people away.

CORRECT TOOL SELECTION

- Never exceed puller capacity.
- Use a 3-leg puller rather than a 2-leg, and select short legs.
- Always check tool condition before use and lubricate the screw. If a leg needs changing, replace the complete set.
- Never modify or heat the legs as this will make them unsafe.
- Do not operate with an impact wrench.
- Use a mallet if the screw needs tapping to unstick a fitting.
- Do not use impact drivers on nut splitters.



- Always check that the pressure screw is properly centred and legs have secure purchase.
- Lubricate the screw regularly.



- Don't modify the legs of a puller as this will make it unsafe.



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AIR TOOLS

PERSONAL SAFETY

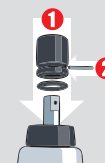
- Wear gloves and eye protection. Wear a dust mask when sanding.
- For intensive use, protect your hearing with ear muffs.
- Consider the safety of bystanders.

SENSIBLE PRECAUTIONS

- Always disconnect tools before fitting drill bits, grinding wheels or impact sockets.
- Keep within accessory rated diameters and speeds.
- Retain original guards (e.g. on grinding tools).
- On impact power wrenches, use only impact sockets with appropriate locking pin and ring.
- Read operating instructions before use.



- Always wear appropriate protective gear.



- Always lock sockets to the machine.



- Always disconnect power tools before fitting accessories.

- Facom air tools conform to current standards.



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WORKING ON OR NEAR LIVE COMPONENTS

- Only 1,000V insulated tools protect from electrical hazards up to 1,000V AC.
- Facom 1,000V insulated tools conform to European standard EN 60900 and are individually tested and checked.
- Inspect your tool after each use. Discard if the insulation is damaged.
- Give yourself additional protection by using gloves, mats and anti-UV goggles.



- 1,000V insulated tools must be used when working near live components.



- Never use a tool with damaged insulation.



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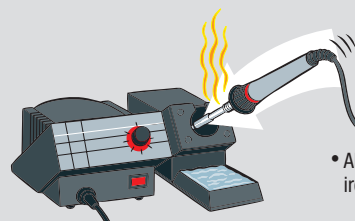
ELECTRICAL AND ELECTRONIC ASSEMBLIES

PERSONAL SAFETY

- Wear eye protection when there is a risk of flying debris, e.g. for wire cutting, stripping, crimping or soldering. Choose wire strippers with off-cut retainers.
- Work with loaded capacitors or live components using antistatic tools (dissipating sheaths).

CORRECT TOOL SELECTION

- Do not leave a hot soldering iron on fragile or flammable surfaces. Always use a stand. Do not store a soldering iron while hot. Disconnect after use.
- Use ESD antistatic tools to IEC 61340-5-1 and IEC 61340-5-2 to protect sensitive electronic components.



- Always rest a hot soldering iron on its stand.



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CONVERSION OF MEASURING UNITS

- The table below gives the SI unit conversion factors of a certain number of units that do not belong to the SI system. Some of these are still in use in France or abroad, in general or specialised applications, others belong to old systems of measurement that are now obsolete.
- Units that are specific to the United States or the United Kingdom are indicated respectively by "US" or "UK" in brackets.

SYMBOLS AND ABBREVIATIONS

UNITS	SYMBOL OR ABBREVIATION	SI UNIT CONVERSION FACTOR	PHYSICAL QUANTITY	COMMENT
Ampere-hour	Ah	$3,6 \times 10^3 \text{c}$ (exact)	Quantity of electricity	Used for storage batteries
Angström	Å	10^{-10}m (exact)	Length	Wavelength, atomic distance
Bar	bar	105Pa (exact)	Pressure	Fluids
Barrel (US)	bbl	$0,158\,987\,3 \text{ m}^3$	volume	1 barrel (US) = 42 gallons (US).
Calorie I.T	cal I.T	$4,186\,8 \text{ J}$ (exact)	Energy	Quantity of heat
Candela	cd	Basic SI unit	Luminous intensity	
Cheval vapeur (horsepower)	ch	$735,498\,75 \text{ W}$ (exact)	Power	1ch = 75 kgm/s (exact).
Degree	°	$1,745\,329 \times 10^{-2} \text{ rad}$ (2/360 rad)	Angle	
Degree Celsius	°C	$T_K = 0^\circ\text{C} + 273,15$ (exact)	Temperature	The origin of the Celsius scale is set by convention at 273.15 K.
Degree Fahrenheit	°F	$T_K = 5/9 (0^\circ\text{F} + 459,67)$ (exact)	Temperature	$0^\circ\text{C} = 5/9 (0^\circ\text{F} - 32)$ (exact)
Electronvolt	eV	$1,602\,177\,33 \times 10^{-19} \text{ J}$	Energy	Atomic and nuclear physics
Farad	F	Derived SI unit $1\text{F} = 1\text{C/V}$	Electric capacitance	
Faraday		$9,648\,70 \times 10^{-4} \text{ C}$	Quantity of electricity	Based on carbon 12.
Fluid ounce (UK)	fl oz (UK)	$2,841\,30 \times 10^{-5} \text{ m}^3$	volume	
Fluid ounce (US)	fl oz (US)	$2,957\,35 \times 10^{-5} \text{ m}^3$	volume	Liquids
Foot	ft	$30,48 \text{ cm}$ (exact)	Length	The symbol ' is also used
Gallon (UK)	gal (UK)	$4,546\,09 \times 10^{-3} \text{ m}^3$	volume	
Gallon (US)	gal (US)	$3,785\,41 \times 10^{-3} \text{ m}^3$	volume	Liquids
Hertz	Hz	Derived SI unit $1\text{Hz} = 1\text{s}^{-1}$	Frequency	
Horsepower (UK)	hp	$745,700 \text{ W}$	Power	The US value of horse power varies according to the field.
Inch	in	$2,54 \text{ cm}$ (exact)	Length	The symbol " is also used.
Joule	J	Derived SI unit $1\text{J} = 1\text{N.m}$	Energy	Work, quantity of heat
Kelvin	K	Basic SI unit	Temperature	Thermodynamics
Kilogram-meter	kgm	$9,806\,65 \text{ J}$ (exact)	Work	
Kilogram-force	kgf	$9,806\,65 \text{ N}$ (exact)	Force	
Kilowatt-hour	kWh	$3,6 \times 10^{-6} \text{ J}$ (exact)	Energy	Electrical energy consumption
Liquid pint (US)	liq pt (US)	$4,731\,76 \times 10^{-4} \text{ m}^3$	volume	Liquids
Liquid quart (US)	liq qt	$9,463\,529 \times 10^{-4} \text{ m}^3$	volume	Liquids
Litre	l, L	10^{-3} m^3 (exact)	volume	C.G.P.M. 1964.
Lux	lx	Derived SI unit $1\text{lx} = 1\text{lm/m}^2$	Illumination	
Micron	μ	10^{-6} m (exact)	Length	Replaced by micrometer
Mile	mile	$1,609\,344 \times 10^3 \text{ m}$ (exact)	Length	Also called "statute mile"
International nautical mile		$1,852 \times 10^3 \text{ m}$ (exact)	Length	Sea and air navigation
Millimetre of mercury (conventional)	mmHg	$133,322\,4 \text{ Pa}$	Pressure	Equal to 13..595 1 mmH2O. (exact).
Nautical mile (UK)		$1,852 \times 10^3 \text{ m}$ (exact)	Length	Since 1970, the UK nautical mile is equal to the international nautical mile.
Newton	N	Derived SI unit $1 \text{ N} = 1 \text{ kg.m.s}^{-2}$	Force	
Ohm	Ω	Derived SI unit $1 \Omega = 1 \text{ V / A}$	Electrical resistance	
Ounce	oz	$28,349\,5 \text{ g}$	Mass	16 oz = 1 lb
Pascal	Pa	Derived SI unit $1 \text{ Pa} = 1 \text{ N/m}^2$	Pressure, stress	
Pound	lb	$0,453\,592\,37 \text{ kg}$ (exact)	Mass	
Pound-force	lbf	$4,448\,22 \text{ N}$	Force	
Psi	psi	$6,894\,757 \times 10^3 \text{ Pa}$	Pressure	Abbreviation of "poundforce per square inch".
Radian	rad	Derived SI unit 1 m/m	Angle (plane)	The symbol rd has also been used in France
Second	s	Basic SI unit	Time	
Torr	torr	$133,322\,4 \text{ Pa}$	Pressure	1/760 normal atmosphere (exact).
Volt	V	Derived SI unit $1 \text{ V} = 1 \text{ W/A}$	Electric potential	
Voltampère	VA	1 W (exact)	Apparent power	Electricity.
Watt	W	Derived SI unit $1 \text{ W} = 1 \text{ J/s}$	Power	
Watt-hour	Wh	3600 J (exact)	Energy	Electrical energy consumption
Weber	Wb	Derived SI unit $1 \text{ Wb} = 1 \text{ V.s}$	Magnetic induction	
Yard	yd	$0,914\,4 \text{ m}$ (exact)	Length	

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

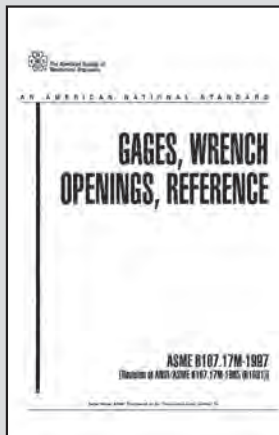
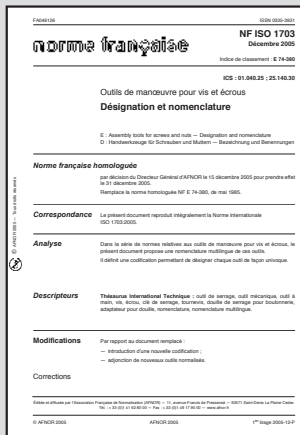
• Standard document established by consensus and approved by a recognised body, that provides, for common and repeated use, rules, guidelines for activities or their results, aimed at the achievement of the optimum degree of order in any given context.

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 an 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)

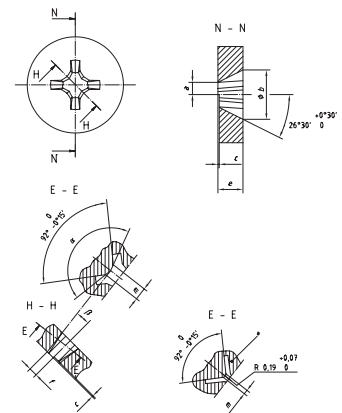


Extracts from the AFNOR standard. Only the full version of the standard has authority. It can be obtained from the Afnor Web site www.boutique-normes.afnor.org (DIN Standard) Reproduced by permission of DIN Deutsches Institut für Normung e.V. The definitive version for the implementation of this standard 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	a	β
no	± 0,005	min.	± 0,025	max.	± 0,005	0	0	+0°15'
						-0,02	-0°15'	0
	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



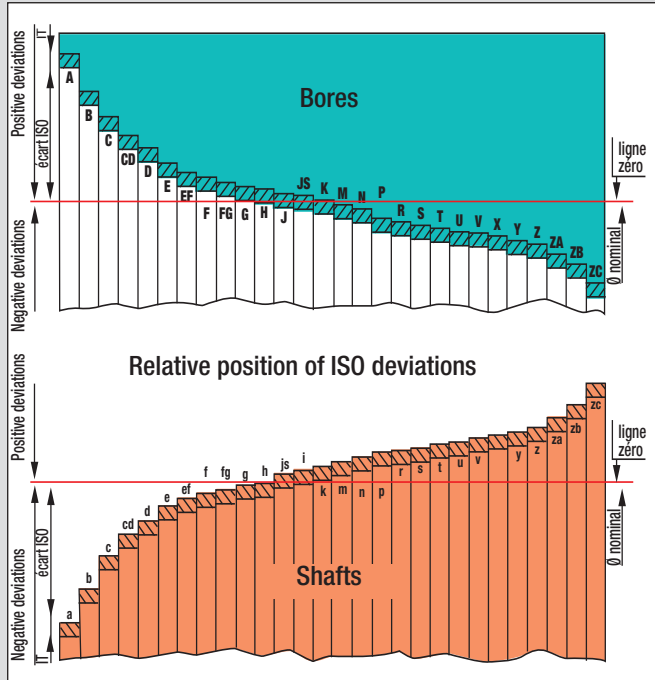
WRENCHES

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



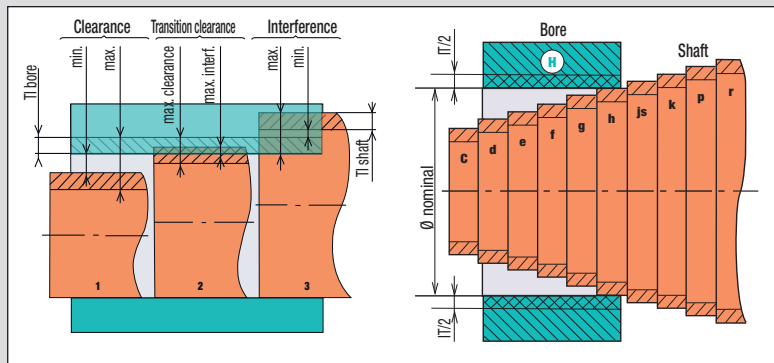
STANDARD FITS

Standard fits (H bore system)									
Type	shaft	H6	H7	H8	H9	H10	H11	Comments	
Moving parts	high clearance	c11						Standard fits for long spans, poor alignment, expansion, etc.	
		c10							
		c9							
		d10							
	medium clearance	d9						Standard fits for rotating or sliding guides (good lubrication ensured)	
		d8							
		e9							
		e8							
		e7							
		f8							
		f7							
		f6							
	low clearance	g6						For high-precision guides	
		g5							
Non-moving parts	adjusted	h9						Can be assembled by hand	
		h7							
		h6							
		h5							
	highly adjusted	js7						For centring and locating, cannot transfer forces	
		js6							
		js5							
	not very tight	k6						Can be assembled with a mallet (Press recommended)	
		k5							
		m7							
	tight	m6						Assembled with a press	
		n6							
		p6							
	very tight	s7						Assembled with a heavy-duty press or by dilation (shrink-fitting)	
		s6							
		t5							
		u6							
		x7						For transmission of forces	

most commonly used

most commonly used (to be known)

STANDARD TOLERANCE INTERVALS (OR QUALITIES)



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	25	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

• 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

Ø80 H8 f7

Nominal dimension

Bore

Upper case letter = deviation
Number = IT or tolerance

Shaft

Lower case letter = deviation
Number = IT or tolerance

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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  678
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  669



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



483



PLIERS



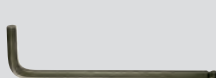
261



WRENCHES



197



TIPS



458



SCREWDRIVERS



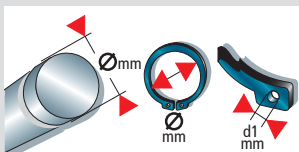
416



CIRCLIPS®

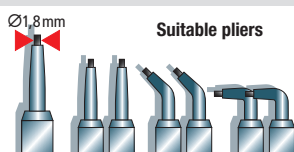
External Circlips®

• Slit 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

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

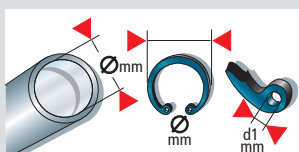


Ø	177A.9	167A.9	197A.9
0,9	177A.9	167A.9	197A.9
1,3	177A.13	167A.13	197A.13
1,8	177A.18	167A.18	197A.18
2,3	177A.23	167A.23	197A.23
3,2	177A.32	197A.32	

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

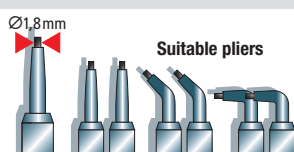
Internal Circlips®

• Slit 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

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



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

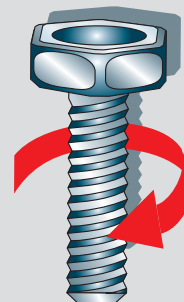
Ø	179A.18	169A.18	199A.18
1,8	179A.18	169A.18	199A.18
2,3	179A.23	169A.23	199A.23
3,2	179A.32	199A.32	

TIGHTENING TORQUES



368

Nm



Circlips®

Hexagon heads

Hexagon socket heads

Torx® heads

Male Torx® heads

Slotted heads

Vis à empreinte Phillips®

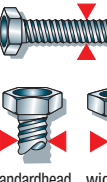
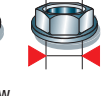
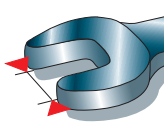
Pozidriv® heads

Hexagon heads



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

Metric sizes (*recommended sizes)

	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

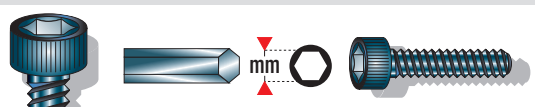
Screw diameter Ø		Screw diameter Ø	
Unified thread GB - USA - CANADA	UK	BSW BS. 916BSF 1083BSF	
Heavy series BS.1769 ASME B 18-2-1 18-2-2	Standard series BS.1768 ASME B 18-2-1 18-2-2	BS. 1981	Machined or cast nuts
Inch	mm	Thou. inch	mm
1/8	3,17	2	.117 2,97
			.131 3,32
			.152 3,86
3/16	4,76	3-4-5	.172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

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

TORX® HEADS

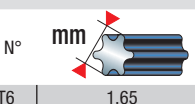
Relationship NF EN ISO 10664 screw diameter / TORX® key



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	

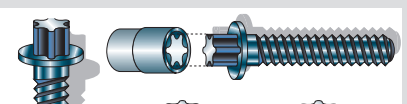
(1) ISO 14580

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
M5	E6
M6	E8
M8	E10
M10	E12
M12	E14
M14	E18
M16	E20

SLOTTED HEADS



Relationship screw diameter/slot size

Engineering screws				
Ø	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
Screw mm	e x A	e x A	e x A	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

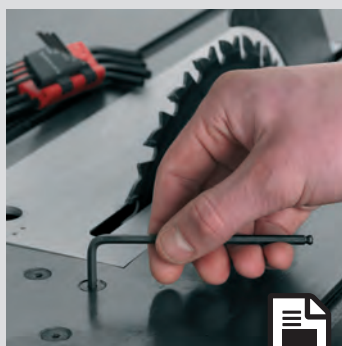
Self-tapping screws			
Ø	Countersunk head NF EN ISO 1482	Oval countersunk head NF EN ISO 1483	Wide cheese head NF EN ISO 1481
Screw mm	e x A	e x A	e x A
ST.2,2	0,5 x 3	0,5 x 3	0,5 x 3
ST.2,9	0,8 x 4	0,8 x 4	0,8 x 4
ST.3,5	1 x 5,5	1 x 5,5	1 x 5,5
ST.4,2	1,2 x 6,5	1,2 x 6,5	1,2 x 6,5
ST.4,8	1,2 x 8	1,2 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		
Ø	Countersunk head NF E 25-604	Oval countersunk head NF E 25-605
Screw mm	e x A	e x A
1,6	0,4 x 2,5	0,4 x 2
2	0,5 x 3	0,5 x 3
2,5	0,6 x 3,5	0,6 x 3,5
3	0,8 x 4	0,8 x 4
3,5	1,0 x 5,5	1,0 x 5,5
4	1,2 x 6,5	1,2 x 6,5
4,5	1,2 x 8	1,2 x 8
5	1,2 x 8	1,2 x 8
6	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				
Ø	Countersunk head ISO 7046	Oval countersunk head ISO 7047	Oval cheese head ISO 7045	Wide oval cheese head NFE 25-122
Screw mm	Nbr.	Nbr.	Nbr.	Nbr.
M 1,6	0	0	0	-
M 2,0	0	0	0	-
M 2,5	1	1	1	-
M 3,0	1	1	1	1
M 3,5	2	2	2	2
M 4,0	2	2	2	2
M 5,0	2	2	2	2
M 6,0	3	3	3	3
M 8,0	4	4	4	4
M 10,0	4	4	4	-

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

Wood screws		
Ø	Countersunk head NF E 25-601	Oval countersunk head NF E 25-602
Screw mm	Nbr.	Nbr.
2,5	1	1
3	1	1
3,5	2	2
4	2	2
4,5	2	2
5	2	2
6	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
'C-clamp' arc-welding lock-grip pliers.....	515
'Connector' pliers.....	519
'Connector' pliers - FLUO.....	841
'Contact' file.....	1060
'Extra-wide capacity' straight-jaw pliers.....	503
'Heavy-duty' offset ring wrenches.....	236
'Heavy-duty' offset ring wrenches - SLS.....	783
'HGV, bus' wheel lift.....	1024
'HGV, bus' wheel lift.....	1171
'LCV' trolley jacks.....	1023
'Long-reach' lock-grip pliers.....	516
'Low torque' click torque wrenches.....	376
'Low torque' click torque wrenches - RFID.....	876
'Micromécanique' open-end wrenches.....	226
'Micromécanique' open-end wrenches - FLUO.....	810
'Multi-model' press protection.....	1032
'No vernier' adjustable angle torque wrenches.....	387
'No vernier' adjustable click torque wrenches.....	387
'Refrigeration' flaring tool.....	730
'Refrigeration' kit.....	730
'Screw jaw' lock-grip pliers.....	516
'Screw sliding jaw' lock-grip pliers.....	516
'Two-hands' orbital sander 150 mm - 10 mm orbit.....	696
'Two-hands' orbital sander 150 mm - 5 mm orbit.....	696
'Junior' model multiblade screwdrivers.....	440
'Pocket' bit holder handle.....	463
'Production' torque screwdrivers.....	395
'Radio' model multiblade screwdrivers.....	440
'Standard' model multiblade screwdrivers.....	440
'11-in-1' flat set.....	216
1 t europalette workshop crane.....	1028
1 t workshop crane.....	1027
1" 1/2 impact extension.....	363
1" 1/2 impact universal joint.....	363
1" 1/2 to 1" impact coupler.....	363
1" 1/2 to 2" 1/2 impact coupler.....	363
1" 12-point impact socket.....	362
1" 12-point sockets - ADF.....	749
1" 12-point sockets 65 mm.....	1179
1" 6-point extra-long impact sockets.....	362
1" 6-point impact sockets.....	361
1" 6-point long-reach impact sockets.....	361
1" 6-point long-reach thin wall impact sockets.....	362
1" drive 12-point sockets.....	348
1" drive 6-point sockets.....	348
1" drive impact extensions.....	362
1" drive impact universal joint.....	362
1" drive ratchet without handle.....	346
1" drive sliding tee.....	347
1" extensions.....	347
1" to 1 1/2" impact coupler.....	363
1" to 3/4" coupler.....	347
1 1/2 6-point impact sockets.....	363
1 1/2 12-point impact sockets.....	353
1 1/2 12-point long-reach impact sockets.....	354
1 1/2 12-point long-reach sockets.....	333
1 1/2 12-point long-reach sockets - RFID.....	875
1 1/2 12-point sockets.....	332
1 1/2 12-point sockets - ADF.....	748
1 1/2 12-point sockets - RFID.....	874
1 1/2 6-point impact sockets.....	352
1 1/2 6-point long-reach impact sockets.....	353
1 1/2 6-point long-reach sockets.....	333
1 1/2 6-point long-reach sockets - RFID.....	873
1 1/2 6-point long-reach thin-wall impact sockets.....	353
1 1/2 6-point sockets.....	332
1 1/2 6-point sockets - RFID.....	873
1 1/2 angular extensions.....	330
1 1/2 battery impact wrenches.....	712
1 1/2 bit holder socket.....	331
1 1/2 bit holder sockets with retaining clip.....	331
1 1/2 drive hinged handle - 381 mm.....	328
1 1/2 drive impact bits set.....	479
1 1/2 drive impact extensions.....	356
1 1/2 drive impact universal joint.....	356
1 1/2 drive long-reach Torx® bit sockets.....	335
1 1/2 drive long-reach XZN® spline bit sockets.....	335
1 1/2 drive metal-grip hinged extending handle.....	328
1 1/2 drive metal-grip hinged handle - 410 mm.....	328
1 1/2 drive offset adaptor.....	331
1 1/2 drive sliding tee.....	328
1 1/2 drive speed brace.....	329
1 1/2 drive tee with universal joint.....	329
1 1/2 drive XZN® spline bit sockets.....	335
1 1/2 extension - RFID.....	872
1 1/2 extensions.....	329
1 1/2 extra-long drive tee with universal joint.....	329

1 1/2" fast ratchet with rotating handle.....	326
1 1/2" female Torx® impact sockets.....	354
1 1/2" Hi-Lok® ratchet - FLUO.....	819
1 1/2" Hi-Lok® ratchet - Fluo.....	918
1 1/2" impact bit holder sockets.....	356
1 1/2" impact screwdriver.....	481
1 1/2" impact socket for Mercedes wheel nuts.....	1127
1 1/2" impact sockets for wheel nuts.....	1126
1 1/2" interchangeable male drive.....	344
1 1/2" locking extensions.....	330
1 1/2" locking extensions - RFID.....	871
1 1/2" long-reach impact sockets for wheel nuts.....	1126
1 1/2" long-reach ratchet.....	327
1 1/2" offset ratchet.....	328
1 1/2" original ratchet.....	327
1 1/2" reinforced impact socket set.....	1127
1 1/2" screwdriver long-reach and extra long-reach sockets for 6-point countersunk head screws.....	335
1 1/2" screwdriver sockets for countersunk hex head screws.....	334
1 1/2" screwdriver sockets for countersunk hex head screws.....	355
1 1/2" sockets for 16, 18 and 21 mm spark plugs.....	1057
1 1/2" Titanium pneumatic ratchet.....	691
1 1/2" to 3/4" coupler.....	331
1 1/2" to 3/4" impact coupler.....	356
1 1/2" to 3/8" coupler.....	331
1 1/2" to 3/8" coupler - RFID.....	872
1 1/2" to 3/8" impact coupler.....	356
1 1/2" to CDX® coupler.....	331
1 1/2" Torx® bit impact screwdriver sockets.....	355
1 1/2" Torx® impact screwdriver sockets.....	355
1 1/2" Torx® impact sockets.....	354
1 1/2" Torx® screwdriver sockets.....	335
1 1/2" Torx® sockets.....	334
1 1/2" universal joint.....	330
1 1/2" universal joint - RFID.....	872
1 1/2" VSE series 1000 Volt insulated 12-point long-reach sockets.....	966
1 1/2" VSE series 1000 Volt insulated 12-point sockets.....	966
1 1/2" VSE series 1000 Volt insulated extensions.....	968
1 1/2" VSE series 1000 Volt insulated handle.....	967
1 1/2" VSE series 1000 Volt insulated male 6-point sockets.....	967
1 1/2" XZN® impact screwdriver sockets.....	355
1 1/2" XZN® long-reach impact screwdriver sockets.....	355
1 1/2" XZN® screwdriver socket set.....	336
1 1/2" - 3/4" - 1" ratchets - ADF.....	746
1 1/2" - 3/4" - 1" sliding handles - ADF.....	747
1 1/2" - 3/4" - 1" universal joints - ADF.....	747
1 1/2" - 3/4" - 1" extension - ADF.....	747
1 1/4 Hi-Lok® ratchet - FLUO.....	812
1 1/4 Hi-Lok® ratchet - Fluo.....	918
1 1/4 - 5/16" bit holder ratchet.....	284
1 1/4 - 5/16" bit holder ratchet - FLUO.....	814
1 1/4 - 5/16" bit holder ratchet - RFID.....	861
1 1/4 'no handle' ratchet.....	284
1 1/4 'Palm control' ratchet.....	693
1 1/4 12-point hinged sockets.....	293
1 1/4 12-point hinged sockets - RFID.....	865
1 1/4 12-point long-reach sockets.....	292
1 1/4 12-point long-reach sockets - FLUO.....	817
1 1/4 12-point long-reach sockets - RFID.....	864
1 1/4 12-point sockets.....	291
1 1/4 12-point sockets.....	291
1 1/4 12-point sockets - FLUO.....	816
1 1/4 12-point sockets - RFID.....	863
1 1/4 12-point sockets - RFID.....	863
1 1/4 12-point thin wall sockets.....	291
1 1/4 6-point hexagonal sockets.....	290
1 1/4 6-point long-reach sockets.....	291
1 1/4 6-point long-reach sockets - RFID.....	865
1 1/4 6-point sockets.....	290
1 1/4 6-point sockets - FLUO.....	815
1 1/4 6-point sockets - FLUO.....	816
1 1/4 6-point sockets - RFID.....	862
1 1/4 and 1 1/2" sockets and Torx® screwdriver bit set.....	1136
1 1/4 angular extension.....	287
1 1/4 bit holder socket.....	289
1 1/4 bit set.....	281
1 1/4 crowfoot open end bit set.....	408
1 1/4 Crowfoot open end bit set.....	916
1 1/4 crowfoot open end bits.....	404
1 1/4 drive flexible spinner.....	286
1 1/4 drive hinged handle - 150 mm.....	285
1 1/4 drive long spinner.....	286
1 1/4 drive long spinner - FLUO.....	815
1 1/4 drive medium spinner - FLUO.....	814
1 1/4 drive short spinner.....	286
1 1/4 drive short spinner - FLUO.....	814
1 1/4 drive sliding tee.....	285
1 1/4 drive speed brace.....	286

1 1/4" drive tee with universal joint.....	288
1 1/4" drive tee with universal joint.....	288
1 1/4" electrical ratchet 10.8V 2.0Ah.....	715
1 1/4" fast ratchet with rotating handle.....	282
1 1/4" fast ratchet with rotating handle - FLUO.....	813
1 1/4" fast ratchet with rotating handle - RFID.....	860
1 1/4" high performance sealed locking ratchet.....	282
1 1/4" high performance sealed locking ratchet - FLUO.....	813
1 1/4" high performance sealed locking ratchet - RFID.....	860
1 1/4" high performance sealed ratchet.....	282
1 1/4" high performance sealed ratchet - SLS.....	785
1 1/4" lock-ring bit holder - FLUO.....	828
1 1/4" locking extension.....	287
1 1/4" locking extension - RFID.....	861
1 1/4" locking extensions - FLUO.....	814
1 1/4" long-reach sockets Spline.....	912
1 1/4" metric 6-point socket and bit set.....	281
1 1/4" mini ratchet.....	692
1 1/4" original ratchet.....	283
1 1/4" reversible gun screwdriver.....	694
1 1/4" reversible screwdriver.....	694
1 1/4" screwdriver handle.....	285
1 1/4" screwdriver sockets for hex head screws.....	294
1 1/4" secure spring-clip bit holder - FLUO.....	815
1 1/4" sockets Spline.....	912
1 1/4" standard extension.....	286
1 1/4" standard extension - RFID.....	861
1 1/4" Standard ratchet.....	693
1 1/4" to 3/8" coupler.....	288
1 1/4" to 3/8" coupler - FLUO.....	815
1 1/4" to 3/8" coupler - RFID.....	862
1 1/4" Torx® screwdriver sockets.....	294
1 1/4" Torx® sockets.....	293
1 1/4" ultra compact ratchet for 1/4" end bits.....	284
1 1/4" ultra-compact 180° flexible head ratchet for 1/4" end bits.....	283
1 1/4" ultra-compact 180° flexible head ratchet for HX series 1/4" sockets.....	284
1 1/4" universal joint.....	288
1 1/4" universal joint - RFID.....	861
1 1/4" VSE series 1000 Volt insulated 6-point sockets.....	963
1 1/4" VSE series 1000 Volt insulated extension.....	964
1 1/4" VSE series 1000 Volt insulated ratchet.....	963
1 1/4" wobble extension.....	287
10 t hydraulic jack for U.312H.....	639
10 t hydraulic screw.....	639
10-piece case of 18 mm snap-off blades.....	618
10-piece case of 9 mm snap-off blades.....	618
10-piece set if 1/4" inch 12-point long-reach sockets set on rack - FLUO.....	816
10-piece set of 1/4" bits 50 mm long with groove - series 1.....	465
10-piece set of 1/4" bits 50 mm long-reach - series 1.....	465
10-piece set of 1000 Volt insulated tools.....	970
10-piece set of metric ratchet open end combination wrenches.....	207
10-piece set of Micro-Tech® short-reach combination wrenches.....	999
10.8V pack - 1/2" compact impact wrench + Drill/Bolter 10 mm 2Ah.....	716
1000 Volt insulated combination pliers - RFID.....	893
1000 Volt insulated electricians diagonal cutters - RFID.....	892
1000 Volt insulated flat nose pliers - RFID.....	893
1000 Volt insulated half-round long nose pliers - RFID.....	892
1000 Volt insulated half-round short nose pliers - RFID.....	893
1000 Volt insulated strippers - RFID.....	893
1000 Volt multitrip pliers - RFID.....	892
11-piece set of Micro-Tech® tools.....	999
12 - 24 Volt surge limiter.....	1070
12-piece set of contact cleaning diamond needle files.....	1073
120 t mechanical screw jack.....	640
12V - 24V starting booster.....	1067
135-piece bodywork tool set.....	1151
136-piece set of inch fluorescent tools.....	808
14 x18 mm open end bit set.....	406
14 x18 mm polygon bit set.....	407
143-piece set of metric fluorescent tools.....	807
15 t hydraulic bench press.....	1030
15-piece set of forming tools: the essential for professionals.....	1152
15° angled offset-ring ratchets.....	212
15° angled offset-ring ratchets - FLUO.....	810
15° angled offset-ring ratchets - RFID.....	857
16-piece set of Micro-Tech® tools.....	999
18-piece set of partitions for drawers 50 and 75 mm high.....	123
18V pack - 1/2" high performance impact wrench + Drill/Bolter 13 mm 5Ah.....	716
19-piece set of 1000 Volt insulated tools.....	971
2-piece set of extra-long reach double jointed pliers.....	518
2-piece set of multiple opening metric straight ratchet ring wrenches.....	215
2-piece set of nut splitters.....	662
2-piece set of reversible pliers.....	508
2-piece set of sanding wedges.....	1159
2-piece set of self-adjusting sanding wedges.....	1158
2-piece set of tuning screwdrivers for slotted head screws.....	1008
2-piece sets of bits.....	648
2-piece sets of spare pins.....	254

2-set of caps for HGV / LUV.....	1055	3/8" 6-point long-reach sockets.....	309	4-piece set of spatulas.....	1098
2-speed hydraulic hand pump.....	639	3/8" 6-point long-reach sockets - RFID.....	869	4-piece set of straight Torx® ring wrenches.....	234
20 t and 30 t hollow jacks for U.320H and U.330H.....	639	3/8" 6-point magnetic oil-drain sockets.....	1045	4-Ton kit.....	657
20 t hydraulic press.....	1030	3/8" 6-point sockets.....	308	41-piece set of 1000 Volt insulated tools.....	973
20-piece car radio removal tool kit.....	1074	3/8" 6-point sockets - RFID.....	869	5-piece set of "T" spinner hexagon keys.....	455
20-piece set of forming tools: the indispensable for specialists.....	1152	3/8" angular extensions.....	306	5-piece set of 3-in-1 PROTWIST® screwdrivers.....	441
20-piece set of short-reach cylinder head bits.....	1092	3/8" bit holder impact sockets.....	352	5-piece set of belt-tensioner nut wrenches.....	1109
21-piece set of 1/4" and 1/2" Torx® sockets and bits.....	334	3/8" bit holder socket with locking ring for 1/4" squares.....	307	5-piece set of clockwork screwdrivers for slotted head screws.....	1000
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".....	1092
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.....	1151
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.....	425
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°.....	252
3-piece CPE plier set.....	520	3/8" Crowfoot open end bit set.....	917	5-piece set of metric half-moon ring wrenches.....	235
3-piece set of 'mechanical' pliers.....	521	3/8" crowfoot open end bits.....	405	50 t hydraulic screw.....	1031
3-piece set of 1000 Volt pliers.....	521	3/8" drain plug bit with male triangle.....	1047	57-piece set of plastic boxes.....	124
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.....	212
3-piece set of couplers.....	289	3/8" drive impact bits set.....	479	6-piece set of power vice pliers.....	1137
3-piece set of couplers.....	307	3/8" drive impact extensions.....	351	6-piece set of clockwork screwdrivers for hex Philips® head screws.....	1000
3-piece set of couplers.....	331	3/8" drive impact universal joint.....	351	6-piece set of fluorescent PROTWIST® screwdrivers + 1 12-LED UV lamp - FLUO.....	824
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.....	447
3-piece set of High Perf® bits for Phillips® screws.....	467	3/8" drive sliding tee.....	304	6-piece set of PROTWIST® stainless steel screwdrivers.....	426
3-piece set of High Perf® bits for Pozidriv® screws.....	467	3/8" drive speed brace.....	304	6-piece set of suction cups.....	1161
3-piece set of High Perf® bits for slotted head screws.....	467	3/8" drive tee with universal joint.....	305	6-piece set of T-handle wrenches with sliding bar.....	456
3-piece set of plastic boxes.....	191	3/8" electrical ratchet 10.8V 2.0Ah.....	715	63-piece set of bits - FLUO.....	825
3-piece set of plastic nozzles.....	1146	3/8" extension - RFID.....	866	7-piece set of 6-dplnr bits 1/2".....	1091
3-piece set of power levers.....	722	3/8" extensions.....	305	7-piece set of metric ratchet open end combination wrenches.....	206
3-piece set of screw bits series 1 for metric countersunk hex head screws.....	462	3/8" fast ratchet with rotating handle.....	302	7-piece set of short drill bits for straight chucks.....	604
3-piece set of series 1 Torx® bits T20-25-30.....	461	3/8" Hi-Lok® ratchet - Fluo.....	817	75° plastics cutters.....	517
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.....	824
3-piece set of socket wrenches.....	217	3/8" high performance sealed locking ratchet.....	302	8-piece set of partitions for drawers 125 mm high.....	123
3-piece set of stainless steel scrapers.....	607	3/8" high performance sealed locking ratchet - FLUO.....	818	8-piece set of pushers 10 to 30 mm.....	1032
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.....	406
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.....	407
3-piece sets of High Perf® bits series 1.....	467	3/8" high performance sealed ratchet.....	302	9-piece set of adapters for ratchet ring wrenches 464.M14X19.....	215
3-piece sets of High Perf® Titanium bits series 1.....	468	3/8" high performance sealed ratchet.....	303	9-piece set of angled keys in pocket - FLUO.....	825
3-piece sets of High Perf® titanium bits series 6.....	473	3/8" high performance sealed ratchet with locking extending handle.....	303	9-piece set of clockwork screwdrivers for slotted head screws.....	1000
3-piece sets of screw bits series 1 for metric countersunk hex head screws.....	462	3/8" impact screwdriver.....	480	9-piece set of hexagonal stainless steel keys.....	452
3-piece sets of screw bits series 6 for countersunk hex head screws.....	471	3/8" impact socket Spline 14 (7/16").....	913	9-piece sets of bits and 6 drainage sockets.....	549
3-piece sets of standard bits - series 6 for Torx® screws.....	472	3/8" locking extensions.....	306	9-piece sets of digit punches.....	549
3-piece sets of standard bits for slotted head screws - series 6.....	472	3/8" locking extensions - RFID.....	866	9-piece sets of High Perf® bits.....	463
3-piece sets of standard Torx® bits series 1.....	461	3/8" long-reach drive tee with universal joint.....	305		
3/4" socket set.....	1178	3/8" long-reach sockets Spline.....	913		
3/4" 12-point impact sockets.....	358	3/8" magnetic oil-drain key.....	1046		
3/4" 12-point long-reach impact sockets.....	359	3/8" magnetic oil-drain male hex bits.....	1046		
3/4" 12-point metric sockets - ADF.....	749	3/8" Mini pneumatic ratchet.....	692		
3/4" 12-point sockets.....	345	3/8" offset ratchet.....	305		
3/4" 6-point impact sockets.....	358	3/8" oil-drain female square bit 10 mm.....	1046		
3/4" 6-point long-reach impact sockets.....	358	3/8" original ratchet.....	303		
3/4" 6-point long-reach sockets.....	346	3/8" piping bit set.....	917		
3/4" 6-point long-reach thin wall impact sockets.....	359	3/8" piping crowfoot open end bit set.....	409		
3/4" 6-point sockets.....	345	3/8" screwdriver sockets for countersunk hex head screws.....	311		
3/4" drive 'Site' ratchet.....	342	3/8" sockets for 14 mm bi-hexagonal spark plugs.....	1057		
3/4" drive fixed adaptor.....	343	3/8" sockets for 16, 18 and 21 mm spark plugs.....	1057		
3/4" drive hinged handle.....	343	3/8" sockets Spline.....	913		
3/4" drive impact extensions.....	360	3/8" square drive hinged wrenches for glow plugs.....	1061		
3/4" drive impact universal joint.....	360	3/8" Standard ratchet.....	693		
3/4" drive ratchet with removable handle.....	341	3/8" Titanium pneumatic ratchet.....	692		
3/4" drive ratchet without handle.....	342	3/8" to 1/2" coupler.....	307		
3/4" drive sliding tee.....	343	3/8" to 1/2" coupler - RFID.....	867		
3/4" extensions.....	344	3/8" to 1/2" impact coupler.....	351		
3/4" hexagonal socket 43 mm "PL-IVECO".....	1179	3/8" to 1/4" coupler.....	307		
3/4" high performance sealed ratchet.....	341	3/8" to 1/4" coupler - RFID.....	867		
3/4" impact screwdriver sockets for countersunk hex head screws.....	359	3/8" Torx® magnetic oil-drain key.....	1046		
3/4" impact socket set.....	357	3/8" Torx® screwdriver sockets.....	311		
3/4" interchangeable male drive.....	347	3/8" Torx® sockets.....	311		
3/4" long-reach Torx® impact sockets.....	359	3/8" universal joint.....	306		
3/4" screwdriver sockets for countersunk hex head screws.....	346	3/8" universal joint - RFID.....	867		
3/4" socket for angular tightening of the hub nut.....	1129	3/8" VSE series 1000 Volt insulated 12-point long-reach sockets.....	964		
3/4" Tamper Torx® impact sockets.....	360	3/8" VSE series 1000 Volt insulated 12-point sockets.....	964		
3/4" to 1" coupler.....	344	3/8" VSE series 1000 Volt insulated extensions.....	966		
3/4" to 1" impact coupler.....	361	3/8" VSE series 1000 Volt insulated handle.....	965		
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Jetline + low unit	91
Jetline + metal worktop	106
Jetline + panel (800 mm) - 1452 mm	102
Jetline + panel (800 mm) - 724.5 mm	102
Jetline + risers	95
Jetline + top box	99
Jetline + wooden and stainless steel worktop	105
Jetline + wooden worktop	104
Jointed nose tip lock-grip pliers	512

K

Key file sets	590
Key with 4 cavities for cabinets	941

L

Lambda probe wrenches and sockets	1095
Lanyard 1.2 m - 80 mm stainless steel double snap hook with screw - SLS	771
Lanyard 1.2 m - retractable loop and 80 mm stainless steel double snap hook with screw - SLS	771
Lanyard 1.2 m steel cable - 80 mm stainless steel double snap hook with screw - SLS	771
Lanyard 20 cm - 60 mm stainless steel double snap hook with screw - SLS	771
Lanyard 20 cm - Stainless steel 50 mm spring hook + swivel and 60 mm stainless steel snap hook with screw - SLS	769
Large offset presses	737
Large-capacity lock-grip pliers	513

Laser telemeter	529
Leather bag	177
Leather case with drawers	193
LED pen light	671
Legs contained in U.312HJ3	637
Legs contained in U.312HJ4	637
Lever grease pump	734
Li-Ion batteries	717
Lifting plate for 500 Kg jack	1029
Lineman's pliers - ADF	753
Lock back knife	620
Lock-back knife - RFID	885
Lock-grip pliers for angle sections	515
Lock-grip pliers for round sections	515
Lockable 2-leg sliding-leg puller	641
Locking clips for CKS hooks	126
Locking ring bit holder	475
Locking ring bit holder - FLUO	829
Locking slip-joint multigrip pliers	500
Locking slip-joint multigrip pliers - FLUO	830
Locking slip-joint multigrip pliers - RFID	886
Locking slip-joint multigrip pliers - SLS	790
Locking-wire pliers	510
Locking-wire pliers - FLUO	841
Locking-wire pliers - RFID	894
Locks	110
Long curved spatula	1098
Long keys	450
Long leg for U.27AS3	634
Long ratcheting tap wrenches	601
Long socket holder - 1/4" drive square - FLUO	829
Long socket holder - 1/4" square drive	476
Long socket holder - 3/8" square drive	476
Long tie-rod for U.27AS3	635
Long-nose automatic lock-grip pliers	514
Long-nose lock-grip pliers	512
Long-nose lock-grip pliers - SLS	794
Long-nose single setting lock-grip pliers	514
Long-reach 10° angled offset ring wrenches	232
Long-reach 15° angled offset ring wrenches	233
Long-reach 15° angled offset ring wrenches - Spline	911
Long-reach hexagon key ring sets	445
Long-reach offset ring wrenches	231
Long-reach ring wrenches	909
Low voltage-tester screwdrivers	442
Low-effort cutters	485
Low-effort diagonal cutters	519
Lubricant	944
Lubricating paste	947

M

MAC PHERSON clamp separator set	1124
MAC PHERSON damper rod tool set	1124
Magnetic holder for painting small bodywork parts	1155
Magnetic levels	555
Magnetic levels, 1 machined sole plate	555
Magnetic ring bit holder	475
Magnetic snap ring bit holder	475
Magnetic snap ring bit holder - beryllium	475
Magnetic snap ring bit holder - FLUO	828
Magnetic sockets for hex screws	472
Magnetic trapezoidal levels	554
Magnetizer - Demagnetizer	442
Maintenance crimping pliers for pre-insulated terminals	1074
Maintenance leg puller set	650
Maintenance workbench - galvanized steel worktop - 1.5 m	120
Maintenance workbench - galvanized steel worktop - 2 m	120
Maintenance workbench - multi-ply beech worktop - 1.5 m	121
Maintenance workbench - multi-ply beech worktop - 2 m	121
Maintenance workbench - 6 drawers, galvanized steel worktop - 2 m	117
Maintenance workbench - 6 drawers, wooden worktop, 2 m	117
Maintenance workbench 1.5 m	119
Maintenance workbench 2 m	118
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Mallet body	569
Manual Copper-Aluminium cable cutters	612
Manual oil syringe	734
Manual pressure/vacuum pump	1075
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Manual reset torque wrenches	382
Manual reset torque wrenches with square drive and handle	381
Mechanical component storage stand	1134
Mechanics hammers	563
Mechanics hammers - RFID	883
Mechanics riveting hammer with graphite grip - FLUO	843
Mechanics riveting hammers	563
Mechanics riveting hammers - RFID	883

Metal cases	184
Metal rings - SLS	774
Metal shears	608
Metal tool boxes	180
Metric "T" socket universal joint wrenches with slide handle	247
Metric "T" socket wrenches with slide handle	247
Metric double-ended forged socket wrenches	244
Metric flare-nut wrenches angled at 15°	252
Metric forged socket wrenches with "T" handle	246
Metric forged socket wrenches with screwdriver handle	245
Metric forged socket wrenches with screwdriver handle - FLUO	812
Metric forged socket wrenches with screwdriver handle - RFID	859
Metric hexagon T-handle spinner keys - SLS	789
Metric hinged socket wrenches	249
Metric long combination wrenches	223
Metric open end bits - drive 9 x 12 mm	399
Metric straight flanged flare-nut wrenches	251
Metric straight flanged flare-nut wrenches	250
Metrology-control set	536
Micro-Tech® 'low torque' screwdrivers	393
Micro-Tech® 'Production' torque screwdriver	395
Micro-Tech® cutters	978
Micro-Tech® diagonal cutters - ESD	988
Micro-Tech® diagonal cutters - FLUO	836
Micro-Tech® diagonal cutters - RFID	889
Micro-Tech® electronic torque screwdriver sets	393
Micro-Tech® grippers	982
Micro-Tech® grippers - FLUO	838
Micro-Tech® grippers - RFID	889
Micro-Tech® hexagonal key 4 mm bit holder screwdriver	994
Micro-Tech® hexagonal key screwdriver	994
Micro-Tech® hexagonal key set	998
Micro-Tech® joint vice	1007
Micro-Tech® replaceable blade screwdrivers	994
Micro-Tech® saw frame	1006
Micro-Tech® screwdriver set	996
Micro-Tech® screwdrivers for Phillips® and Pozidriv® head	993
Micro-Tech® screwdrivers for slotted head screws	994
Micro-Tech® screwdrivers for Torx® screws	993
Micro-Tech® tool set	999
Micrometers 1/100 mm accuracy	535
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Mill	1071
Milled files	1150
Mini bolt cropper	612
Mini copper pipe cutter	728
Mini mechanical set	1121
Mini wire grip	1012
Mixed thermometer	1064
Mobile crimping pliers	932
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Monkey wrenches	259
Monkey wrenches - ADF	759
Motorist pliers - ADF	753
Muffler core remover	1128
Muffler for HGV wheel deflating	1128
Multi-cavity cross brace	941
Multi-diameter damper pulley puller	1109
Multi-diameter timing and injection pump pulley puller	1109
Multi-functional bodywork support cradle	1153
Multi-make electronic belt tension-meter	1108
Multi-purpose angle-nose automatic lock-grip pliers	513
Multi-purpose drill punch holder	128
Multi-purpose holder for stud pullers	128
Multi-purpose key holder	128
Multi-purpose screwdriver holder	128
Multifunction brush	698
Multifunction sheath stripper	928
Multifunction trigger sheath-stripper	926
Multifunction trigger sheath-stripper - SLS	799
Multimeter	948
Multimeter megohmmeter and insulation tester	1063
Multiple diameter piston pushing tools	1116
Multiple function hook	1096
Multiple grip pliers - ADF	752
Multiple grip pliers - FLUO	830
Multiple grip pliers - RFID	886
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N

Nail-sets	577
Natural Briançon chalk sticks	557
Needle file sets	597
Needle holder casing	943

Needle pulling pliers	943
Nibblers	610
Nippers	519
Non-magnetic wing cover with suction fasteners	1037
Non-return valve	1080
Non-tapped beams	655
Non-tapped beams	655
Notched cap wrenches	1053
Nozzle set	571
Nut splitter	662
Nylon rod 20 m + needle holder casing	942
Nylon rods	942
Nylon steel rod	943
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O

Offset combination wrenches	222
Offset ring wrenches	229
Offset-ring impact wrenches - ADF	745
Oil change tray for HGV wheel hubs	1185
Oil collector	1043
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Oil-filter wrenches for LV	1051
Oil-filter wrenches for PEUGEOT, CITROËN, FORD engines	1052
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One-piece 'carbide' scriber	549
One-piece dead-blow mallets	567
Open core connector crimping pliers	937
Open end bits - drive 14 x 18 mm	401
Open end bits - drive 20 x 7 mm	403
Open end impact wrenches - ADF	746
Open-end wrenches	224
Open-end wrenches - FLUO	811
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Orbital sander 150 mm - 5 mm orbit	1155
Orbital sander 150 mm - 5 mm orbit	696
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Organizers	173
Orientable flexible mirror	1010
Orientable flexible mirrors	922
Outside circlip® pliers	505
Outside Circlip® pliers - FLUO	840
Outside Circlip® pliers - RFID	891
Outside Circlip® pliers - SLS	793
Outside Circlip® pliers with 'opening' rack	507
Outside grip puller	630
Outside snap-ring pliers	509

P

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Paint-free dent removal inertia puller	1145
Paint-free dent removal manual puller	1145
Paint-free dent removal tool set	1146
Paint-free glue dot dent removal tool set	1145
Painters support	1154
Pair of 22 t axle stands	1169
Pair of fasteners	80
Pair of steel V-blocks - 20 microns	538
Pairs of axle stands	1026
Panel puller set	657
Paper roll holder only	79
Pen lamp	674
Pen lamp	1008
Pen lamp - SLS	803
Pen oil can	1007
Pen type 'carbide' scriber	548
Petrol engine compression tester	1079
PG hollow punch with control screw	946
PG staged drill bit	947
Phone connector crimping pliers	938
Pipe wrenches	724
Pipe wrenches - ADF	758
Pipe wrenches - SLS	784
Piston ring compressors	1095
Piston ring pliers	1095
Pivot grip - RFID	877
Pivoting shelf	81
Plastic cable-tie pliers	940
Plastic cable-tie pliers - SLS	794
Plastic cases	173
Plastic handles for files and rasps	589
Plastic pipe cutter	729

Plastic staplers	1137
Plastic tool boxes	171
Plastics diagonal cutters	517
Pliers for removing and fitting self-tightening spring clips	1086
Plumb-bob	556
Pneumatic angle buffer diam. 178 mm	704
Pneumatic blow gun	710
Pneumatic crimping and punch pliers	709
Pneumatic disc brake piston pushing/turning tool	1115
Pneumatic drill with 10 mm self-tightening mandrel	694
Pneumatic drill with 13 mm self-tightening mandrel	694
Pneumatic grease gun	735
Pneumatic jacks	1023
Pneumatic nibbler	1144
Pneumatic nibbler	706
Pneumatic piston / cup pushing tool sets	1115
Pneumatic riveter	733
Pneumatic sabre saw	706
Pneumatic spring compressors	1119
Pneumatic tool holder	129
POCKET LED lamp	670
Polygon bits drive 14 x 18 mm	401
Polygon bits drive 9x12 mm	399
Power chisel set	705
Power chisel with hexagonal shank	705
Power Drill/Bolter 10 mm 10.8V 2.0Ah	714
Power Drill/Bolter 10 mm 18V (battery not included)	714
Power Drill/Bolter 13 mm 18V (battery not included)	714
Power Drill/Bolter 13 mm 18V 2.0Ah	714
Power levers	722
Power tool battery charger	717
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Pre-insulated terminal crimping pliers	935
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PROTWIST® 1000 Volt insulated screwdrivers for Phillips® screws	954
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PROTWIST® 1000 Volt insulated screwdrivers for Pozidriv® screws	432
PROTWIST® 1000 Volt insulated screwdrivers for slotted head screws	431
PROTWIST® 1000 Volt insulated screwdrivers for slotted head screws	954
PROTWIST® 1000 Volt insulated screwdrivers for slotted head screws - RFID	880
PROTWIST® bit holder screwdrivers	441
PROTWIST® bit holder screwdrivers	474
PROTWIST® bit holder screwdrivers - FLUO	829
PROTWIST® BORNEO® screwdrivers for mixed heads - Phillips®/Pozidriv® 434	434
PROTWIST® BORNEO® screwdrivers for mixed heads - Pozidriv® - FLUO	823
PROTWIST® handle screwdriver 1/4" - 158 mm - RFID	860
PROTWIST® multi-blade screwdriver sets	438
PROTWIST® ratchet blade holder handle	439
PROTWIST® ratchet blade holder screwdriver + 15 bits	441
PROTWIST® ratchet blade holder screwdriver + 15 bits	920
PROTWIST® reversible blade holder handle	439
PROTWIST® screwdrivers for Philips® head screws - hexagonal blades - FLUO	821
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PROTWIST® screwdrivers for Phillips® head screws - Power series	422
PROTWIST® screwdrivers for Phillips® head screws - RFID	878
PROTWIST® screwdrivers for Phillips® head screws - short blades	422
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PROTWIST® screwdrivers for Pozidriv® head screws - RFID	879
PROTWIST® screwdrivers for Pozidriv® head screws - round blades	423
PROTWIST® screwdrivers for Pozidriv® head screws - round blades - FLUO	821
PROTWIST® screwdrivers for Pozidriv® head screws - short blades	423
PROTWIST® screwdrivers for Pozidriv® head screws - SLS	788
PROTWIST® screwdrivers for Resistorx® head screws	425
PROTWIST® screwdrivers for Resistorx® head screws - FLUO	822
PROTWIST® screwdrivers for Resistorx® head screws - RFID	879
PROTWIST® screwdrivers for Robertson® square head screws	424
PROTWIST® screwdrivers for slotted head screws - forged blades	419
PROTWIST® screwdrivers for slotted head screws - hexagonal blades - FLUO	820
PROTWIST® screwdrivers for slotted head screws - milled blades	419
PROTWIST® screwdrivers for slotted head screws - milled blades - FLUO	820
PROTWIST® screwdrivers for slotted head screws - power series	420
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PROTWIST® screwdrivers for slotted head screws - SLS	787
PROTWIST® screwdrivers for Torx Plus® head screws	424
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PROTWIST® SHOCK screwdrivers for Phillips® head screws	429
PROTWIST® SHOCK screwdrivers for Pozidriv® screws	429
PROTWIST® SHOCK screwdrivers for slotted head screws	429
PROTWIST® spherical head spinner hexagon keys - RFID	880
PROTWIST® stainless steel screwdrivers for Phillips® head screws	427
PROTWIST® stainless steel screwdrivers for Pozidriv® head screws	427
PROTWIST® stainless steel screwdrivers for slotted head screws	427
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PSA exhaust collar pliers	1096
Puller legs	663
Puller set	658
Punch pliers	1153
Pvc hose diameter 10 x 16 mm + end bits	711
Pvc hose diameter 16 x 22 mm + end bits	711
Pvc hose diameter 8 x 14 mm + end bits	711

R

Radius gauges	539
Raised stand for CR.S6	1134
Rasps	596
Ratchet - drive 14 x 18 mm	400
Ratchet combination wrenches	203
Ratchet combination wrenches - RFID	854
Ratchet combination wrenches - SLS	780
Ratchet handle for torque screwdrivers	394
Ratchet open end combination wrenches	206
Ratchet pipe cutter	728
Ratchet wrenches	217
Ratchets - drive 20 x 7 mm	402
Ratchets - drive 9 x 12 mm	398
Reaming bit set	604
Rechargeable aerosol	1163
Rechargeable lamp	677
Rechargeable light ramp	674
Red and white consigning posts	1040
Refractometer with 4 measures	1072
Regulator filter - BSP gas lubricator	710
Repair kits for tool holder	601
Repair order holder	81
Retractable utility knife with interchangeable blades	616
Reversible 1/2" pneumatic drill 13 mm	695
Reversible 3/8" angular pneumatic drill 10 mm	695
Reversible 3/8" pneumatic drill 10 mm	695
Reversible inside and outside circlip® pliers	508
Reversible pneumatic drill 6 mm	695
Reversible screwdriver blades	438
Revolver frame with sliding blade-guide	586
RFID couplers for pneumatic tooling	894
Riveting pliers	732
ROLL Roller cabinets	70
Roll rolling chest	70
Roller cabinet for electric work	1041
Roller cabinets	76
Roller-type stud drivers - Multiple-diameter	661
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Rolling kit	60
Rolling kit	63
Rolling kit	69
Rotating sheath stripper and stripper	927
Round bastard files	594
Round bastard files with handle	594
Round crowbars with crook beak	722
Round face dinging hammers	564
Round head hammers - ADF	754
Round laid levels	553
Round nose pliers - FLUO	833
Round semi-cut files	593
Round semi-cut files ADF	756
Round semi-cut files with handle	593
Round, flat, and convex head hammer	1147
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S

Safety grip for impact wrench	239
Safety knife with retractable blade	615
Safety knife with retractable blade - RFID	884
Safety knife with retractable blade - SLS	799
Safety overgloves	720
Safety posters	1040
Safety trolley jacks	1023
Safety zone marker chain	1040
Sanding wedges	1158
Saw blades	1006
Scissors	619
Scraper for stuck motor gaskets	1090

Screw	1131	Sets of Protwist® screwdrivers	418	Spherical head P-handle keys	453
Screw bits for countersunk hex head screws	459	Sets of sheathed impact tools	573	Spherical head spinner hexagon keys	456
Screw bits for countersunk hex spherical head screws	459	Sets of short-reach combination ratchets in portable case	208	Spherical head spinner hexagon keys - FLUO	824
Screw bits for Phillips® screws	459	Sets of short-reach combination wrenches	222	Spinner keys - ADF	751
Screw bits for Pozidriv® screws	459	Sets of straight ratchet offset-ring wrenches	211	Spiralled polyurethane extension	710
Screw bits for slotted head screws	459	Sets of straight ring wrenches	234	Spline 15° angled offset-ring ratchets	909
Screw bits for Torx® screws	459	Sets of Torx® wrenches in wallet	445	Spline 15° angled offset-ring ratchets	213
Screw bits series 0 - drive 4 mm	995	Sets of wood handle screwdrivers	436	Spring compressor forks	1120
Screw for UWG jack	639	Sheath strippers	927	Spring compressor with interchangeable forks	1122
Screw pitch gauges	539	Sheathed automatic centre punch	574	Spring compressors workstation (naked)	1123
Screw starter	1060	Sheathed cape chisels	574	Spring holder	1116
Screw starter	443	Sheathed centre punches	573	Spring puller	1007
Screw starter for Philips® screws	443	Sheathed centre punches - SLS	802	Square bastard files with handle	595
Screw starter for slotted heads	443	Sheathed chisels	574	Square face dinging hammer	564
Screw starter for slotted-head screws	443	Sheathed chisels - SLS	802	Square piston ring compressor	1183
Screw-on dummy injectors	1077	Sheathed nail punches	572	Square semi-cut files with handle	594
Screw-type hose clamps	1088	Sheathed nail punches - SLS	801	Square tips	549
Screwdriver rack	418	Sheathed nail-sets	572	Stainless body 2 metre tape measure	551
Screwdriver sockets with 6 grooves	335	Sheathed nail-sets - SLS	802	Stainless steel basic precision squares - Class 0	543
Screwdrivers for Phillips® heads ADF	750	Sheet metal - bodywork workstation	1145	Stainless steel flanged precision squares - Class 0	543
Screwdrivers for Pozidriv® heads ADF	750	Sheet metal - bodywork workstation	74	Stainless steel flexible rule - 2 faces - FLUO	842
Screwdrivers for slotted heads ADF	750	Shelf for A1000 cabinets	109	Stainless steel flexible rule - 2 faces - RFID	882
Scriber	547	Shelf for A500 cabinets	109	Stainless steel flexible rules - 1 side	542
SE series 1000 Volt insulated hacksaw frame	960	Shelf for high units MHS	110	Stainless steel flexible rules - 2 faces - SLS	795
Sealed roller boxes - Flycase	188	Shock absorber removal lever	1124	Stainless steel flexible rules - 2 sides	541
Secured impact wrenches	237	Shop digital display calliper	531	Stainless steel joiners squares	556
Seized Common Rail injector inertia puller	1082	Short 10° angled offset ring wrenches	232	Stainless steel lock back knife	621
Seized common rail injector screw puller	1082	Short combination wrenches	221	Stainless steel pipe cutter	727
Self-gripping slim leg outside pullers	632	Short combination wrenches - FLUO	809	Stainless steel semi-rigid 'long' rules - 1 side	542
Self-gripping wide leg outside pullers	645	Short combination wrenches - RFID	853	Stainless steel semi-rigid 'short' rules - 2 sides	542
Self-tightening clamp pliers	1086	Short hexagon key ring sets	445	Stainless steel snap hook - SLS	774
Semi-cut square files	594	Short keys	450	Standard bits series 1 for BNAE head screws	463
Separator	1007	Short ratchet combination wrenches	208	Standard bits series 1 for countersunk hex screws	462
Separator and beam set	653	Short ratchet combination wrenches - SLS	781	Standard bits series 1 for countersunk hex screws - FLUO	827
Separators	654	Short ratcheting tap wrenches	601	Standard bits series 1 for Phillips® screws	460
Serkan 360	937	Short Resistor® keys	453	Standard bits series 1 for Pozidriv® screws	460
SERKAN® ratchet crimping pliers for pre-insulated terminals	934	Short snap ring bit holder	475	Standard bits series 1 for Resistor® screws	461
Set for alternator pulleys	1110	Short Torx® keys	452	Standard bits series 1 for Robertson® square head screws	460
Set for fitting / removing flexible belts	1110	Short XZN® keys	457	Standard bits series 1 for slotted head screws	460
Set of 100 test cards for diesel engine	1078	Short-nose lock-grip pliers	512	Standard bits series 1 for Torq Set® screws	461
Set of 15° angled head 'micromechanic' open end wrenches	227	Short-nose lock-grip pliers - SLS	794	Standard bits series 1 for Torq Set® head screws	463
Set of 2 wrench adapters 10 mm to 1/4" square drive	213	Short-nose single setting lock-grip pliers	514	Standard bits series 1 for Torq Set® head screws - FLUO	828
Set of 2 wrench adapters to 1/4" and 1/2" square drive	213	Simple open end wrench	228	Standard bits series 1 for Torq Set® head screws - FLUO	828
Set of 3/8" sockets in case	310	Single effect oil cans	735	Standard bits series 1 for Torx Plus® screws	461
Set of 3/8" sockets on metallic rack	310	Single key option for Jetline + furniture	108	Standard bits series 1 for Torx® screws	460
Set of angled keys for multiple XZN teeth	457	Single position lock-grip pliers	512	Standard bits series 1 for Torx® screws - FLUO	827
Set of cage gasket centres	1087	Single shelf for low units MBS	110	Standard bits series 1 for Tri-Wing head screws	463
Set of chisels and cape chisels on holder	579	Single spoon	1150	Standard bits series 1 for Tri-Wing head screws - FLUO	828
Set of greasing end bits	735	Sledge hammer	566	Standard bits series 1 for Torx® screws	462
Set of heavy-duty ring wrench set	236	Sledgehammers - ADF	754	Standard bits series 1 with spherical head for countersunk hex screws	462
Set of hexagon spinner keys	457	Sleeving pliers	940	Standard bits series 2 for BNAE head screws	470
Set of metric combination and long-reach wrenches	223	Slide hammer 9.8 Kg	1131	Standard bits series 2 for countersunk hex screws	469
Set of metric double-ended forged socket wrenches	244	Slide hammers	652	Standard bits series 2 for Phillips® screws	469
Set of metric ratchet combination wrenches	204	Sliding 2-leg sliding-leg puller	643	Standard bits series 2 for Pozidriv® screws	469
Set of metric straight flanged flare-nut wrenches	251	Slim LED inspection lamp	672	Standard bits series 2 for slotted head screws	469
Set of mills	1140	SLS HOOK wrist bracelet	768	Standard bits series 2 for Torq Set® head screws	470
Set of multi-diameter forks	1122	Small dimension presses	737	Standard bits series 2 for Torx® screws	469
Set of pictograms	84	Small grease pump	734	Standard bits series 2 for XZN multiple teeth head screws	470
Set of plastic component removal tools	1136	Snap ring bit holder sockets	475	Standard bits series 6 for countersunk hex screws	471
Set of pullers for deformed glow plugs	1107	Snap ring bit holder sockets for 1/4" - 6.35 mm hex series 1 bits	474	Standard bits series 6 for countersunk hex screws - FLUO	827
Set of roller-type stud drivers	662	Snap ring bit holder sockets for 5/16" - 7.94 mm series 2 bits	474	Standard bits series 6 for Phillips® screws	470
Set of sheathed tools	575	Socket for PSA lower ball joint castle nut	1129	Standard bits series 6 for Pozidriv® screws	471
Set of spare screws	1111	Socket holder	129	Standard bits series 6 for ROBERTSON square head screws	471
Set of spare screws	509	Socket holder - 1/4" drive square	476	Standard bits series 6 for slotted head screws	470
Set of spherical head spinner hexagon keys	456	Socket holder - 1/4" drive square - FLUO	829	Standard bits series 6 for slotted head screws - FLUO	826
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