

UTENSILI ANTISCINTILLA ANTIMAGNETICI



CHIAVI DI MANOVRA & CHIAVI PER VALVOLE | SPANNERS

UTENSILI ANTISCINTILLA

Antideflagranti secondo **ATEX** = **AT**mosphere **EX**plosible

ATEX 137 (118), indicata anche come Direttiva 99/92/CE, si riferisce alla sicurezza delle persone in fase di installazione, funzionamento e manutenzione di impianti a rischio di esplosione.

Dal 1 Luglio 2003 è obbligatorio l'utilizzo di mezzi di produzione conformi a tale direttiva.

Classificazione delle zone in base ai rischi di esplosione

ATEX Probabilità	alta	medio - bassa	molto bassa
Gas	<p>ZONA 0 è un'area in cui vi è presenza sempre o per lunghi periodi o frequentemente di un'atmosfera esplosiva consistente in una miscela di aria e di sostanze infiammabili sotto forma di gas, vapore o nebbia. „Frequentemente“ significa „per la maggior parte del tempo“, il che indica una determinata area rientra nella Zona 0 quando in un impianto sono presenti atmosfere esplosive per oltre il 50% del tempo di attività. In realtà, ciò si verifica solamente all'interno di tubi e contenitori/serbatoi.</p>	<p>ZONA 1 è un'area in cui è probabile che la formazione di un'atmosfera esplosiva, consistente in una miscela di aria e di sostanze infiammabili sotto forma di gas, vapori o nebbia, avvenga occasionalmente durante le normali attività. Se la presenza di un'atmosfera esplosiva supera la durata di circa 30 minuti all'anno o si verifica occasionalmente, ad esempio giornalmente, ma è inferiore al 50% del tempo di attività dell'impianto, l'area rientra in questa Zona 1.</p>	<p>ZONA 2 è un'area in cui durante le normali attività non è probabile la formazione di un'atmosfera esplosiva, consistente in una miscela di aria e di sostanze infiammabili sotto forma di gas, vapore o nebbia o, qualora si verifici, sia unicamente di breve durata. Secondo numerosi esperti, il termine „breve durata“ corrisponde a circa 30 minuti annui. È stato inoltre affermato che le atmosfere esplosive non sono normalmente probabili durante le normali attività. Se una volta nel corso di un anno si rileva un'atmosfera esplosiva per una breve durata, l'area in questione deve essere classificata quale Zona 2.</p>
Polveri	<p>ZONA 20 è un'area in cui è presente in permanenza o per lunghi periodi di tempo o frequentemente un'atmosfera esplosiva sotto forma di nube di polvere combustibile nell'aria.</p>	<p>ZONA 21 è un'area in cui la formazione di un'atmosfera esplosiva sotto forma di nube di polvere combustibile nell'aria è probabile che avvenga occasionalmente durante le normali attività.</p>	<p>ZONA 22 è un'area in cui durante le normali attività non è probabile la formazione di un'atmosfera esplosiva sotto forma di nube di polvere combustibile o, qualora si verifici, sia unicamente di breve durata.</p>



Avvertenze sull'uso:

- Gli utensili antiscintilla sono meno resistenti di quelli tradizionali. È quindi opportuno prestare particolare cura e cautela durante il relativo impiego.

È necessario evitare sollecitazioni eccessive.

- L'impiego esclusivo di utensili antiscintilla come misura di protezione in zone a rischio di incendio ed esplosione non è sufficiente. Per una protezione completa delle persone e delle strutture, è necessario osservare le disposizioni di sicurezza in vigore.

Manutenzione:

- Per la manutenzione degli utensili (ad esempio, affilatura), mettiamo a disposizione su richiesta le istruzioni tecniche.



Analysis of non-sparking material

Analisi delle leghe antiscintilla

Material	Specialbronze SB „S“ <small>Aluminium-multi-substance-bronze</small>					Copper-Beryllium CuBe „C“			
	Cu	Al	Ni	Fe	Mn	Be	Ni	Co	Cu
Analysis									
min. in %	Rest	8	4	4	-	1,8	0,1	0,4	Rest
max. in %	Rest	10,5	6	5,5	1,33	2,3	0,5	0,7	Rest
Mechanical properties	cured		untreated						
Strength N/mm ²	780-989		600-670			1117-1326			
Yield point N/mm ²	450-550		250-270			840-880			
Hardness	230-290		140-180			280-365			
Physical properties									
Magnetic properties	1,35 max.					1,005 max.			

APPLICATION ADVICE

Because of its application methods, non-sparking tools have to be softer than conventional tools. For this reason the use of these tools has to be occurred with special care.

Overstraining has to be avoided.

The use of non-sparking tools must not be the only preventive measurement in areas of fire and explosion risk.

For overall protection of staff and equipping, please follow the instructions of your professional association.

Double open end wrench

- DIN 3110 -



article no	size mm	length mm	weight g
0010607S	6 x 7	125	65
0010608S	6 x 8	125	65
0010708S	7 x 8	125	65
0010709S	7 x 9	125	65
0010809S	8 x 9	125	65
0010810S	8 x 10	125	60
0010910S	9 x 10	125	60
0010911S	9 x 11	140	90
0011011S	10 x 11	140	90
0011012S	10 x 12	140	85
0011013S	10 x 13	140	80
0011014S	10 x 14	160	180
0011113S	11 x 13	160	180
0011114S	11 x 14	160	180
0011213S	12 x 13	160	180
0011214S	12 x 14	160	170
0011315S	13 x 15	160	170
0011415S	14 x 15	160	165
0011416S	14 x 16	200	220
0011417S	14 x 17	200	220
0011617S	16 x 17	200	210
0011618S	16 x 18	200	210
0011719S	17 x 19	225	350
0011722S	17 x 22	225	320
0011819S	18 x 19	225	320
0011820S	18 x 20	225	310
0011821S	18 x 21	225	300
0011922S	19 x 22	240	440
0011924S	19 x 24	240	420
0012022S	20 x 22	240	440
0012123S	21 x 23	240	420
0012224S	22 x 24	240	420
0012227S	22 x 27	270	730
0012326S	23 x 26	270	730
0012426S	24 x 26	270	730
0012427S	24 x 27	270	730
0012430S	24 x 30	270	700
0012528S	25 x 28	270	700
0012629S	26 x 29	270	700
0012729S	27 x 29	300	810
0012730S	27 x 30	300	800
0012732S	27 x 32	300	800
0013032S	30 x 32	300	780
0013034S	30 x 34	320	1240
0013036S	30 x 36	320	1220
0013234S	32 x 34	320	1200

article no	size mm	length mm	weight g
0013236S	32 x 36	320	1140
0013436S	34 x 36	320	1100
0013538S	35 x 38	370	1480
0013638S	36 x 38	370	1480
0013641S	36 x 41	370	1450
0014146S	41 x 46	370	1400
0014650S	46 x 50	390	1700
0015055S	50 x 55	440	1700
0015060S	50 x 60	440	1700
0015560S	55 x 60	470	1800
0016065S	60 x 65	470	1800
0016570S	65 x 70	630	3500
0017080S	70 x 80	630	3400
0017580S	75 x 80	630	3300

Chiave a forchetta doppia

Set of double open end wrenches

- DIN 3110 - 12pcs • 6-32 mm



article no	size mm	weight g
0010000S	6 x 7 - 8 x 9 - 10 x 11 12 x 13 - 14 x 15 - 16 x 17 18 x 19 - 20 x 22 - 21 x 23 24 x 27 - 25 x 28 - 30 x 32	4120

Set chiave a forchetta doppia

Double open end wrench Inch

- DIN 3110 -



article no	size Inch/''	length mm	weight g
0017140S	7/32 x 1/4	125	65
0017101S	1/4 x 5/16	125	65
0017102S	5/16 x 3/8	125	60
0017103S	3/8 x 7/16	140	90
0017104S	7/16 x 1/2	140	85
0017113S	1/2 x 5/8	160	170
0017105S	1/2 x 9/16	160	170
0017114S	1/2 x 11/16	200	220
0017106S	9/16 x 5/8	200	220
0017115S	9/16 x 3/4	200	220
0017107S	19/32 x 11/16	200	220
0017116S	19/32 x 25/32	200	220
0017108S	5/8 x 11/16	200	200
0017109S	5/8 x 3/4	225	310
0017117S	11/16 x 25/32	225	300
0017118S	11/16 x 7/8	225	300
0017110S	3/4 x 7/8	225	300
0017119S	3/4 x 25/32	225	300
0017120S	3/4 x 13/16	225	310
0017141S	3/4 x 7/8	225	310
0017121S	25/32 x 13/16	225	300
0017122S	25/32 x 7/8	225	300
0017123S	13/16 x 7/8	225	300
0017124S	7/8 x 15/16	225	300
0017125S	7/8 x 31/32	240	400
0017126S	7/8 x 1	240	400
0017127S	7/8 x 1 1/16	270	720
0017111S	15/16 x 1	270	720
0017128S	15/16 x 1 1/16	270	720
0017129S	1 x 1 1/8	270	700
0017130S	1 x 1 5/16	300	750
0017112S	1 1/16 x 1 1/4	300	750
0017131S	1 1/8 x 1 5/16	300	750
0017142S	1 1/16 x 1 7/16	320	1220
0017132S	1 1/8 x 1 1/2	320	1150
0017133S	1 1/4 x 1 3/8	320	1150
0017134S	1 1/4 x 1 7/16	320	1150
0017135S	1 5/16 x 1 1/2	370	1480
0017136S	1 1/4 x 1 5/8	370	1400
0017137S	1 3/8 x 1 1/2	370	1400
0017138S	1 7/16 x 1 5/8	370	1400
0017139S	1 1/2 x 1 11/16	370	1400
0017143S	1 5/8 x 1 13/16	370	1400
0017144S	1 5/8 x 1 3/4	370	1350
0017145S	1 11/16 x 1 7/8	370	1350
0017146S	1 11/16 x 2	390	1700

article no	size Inch/''	length mm	weight g
0017147S	1 13/16 x 2	390	1700
0017148S	1 3/4 x 2 1/16	390	1700
0017149S	2 x 2 3/16	440	1700
0017150S	2 x 2 5/16	440	1700
0017151S	2 3/16 x 2 3/8	470	1800
0017152S	2 1/4 x 2 3/8	470	1800

Chiave a forchetta doppia

Set of double open end wrenches Inch

- DIN 3110 - 8pcs · 1/4"



article no	size Inch/''	weight g
0010001S	1/4 x 5/16 - 3/8 x 7/16 7/16 x 1/2 - 1/2 x 9/16 9/16 x 5/8 - 5/8 x 11/16 3/4 x 7/8 - 15/16 x 1	1850

Set chiave a forchetta doppia

Double open end wrench small



article no	size mm	length mm	weight g
0017204S	4	70	7
0017201S	4,5	70	7
0017205S	5	78	7
0017202S	5,5	78	10
0017206S	6	78	10
0017207S	7	91	10
0017208S	8	96	15
0017209S	9	103	15
0017210S	10	105	20
0017211S	11	116	20
0017212S	12	116	35
0017213S	13	131	35
0017214S	14	131	35

Chiave a forchetta doppia corta

Set of double open end wrenches small · 10pcs · 5-13 mm



article no	size mm	weight g
0017200S	5 - 5,5 - 6 - 7 - 8 9 - 10 - 11 - 12 - 13	180

Set chiave a forchetta doppia

Flat double open end wrench

- DIN 658 -



article no	size mm	length mm	weight g
0017153S	3 x 3,5	50	4,5
0017154S	4 x 4,5	60	5
0017155S	5 x 5,5	70	6
0017156S	6 x 7	80	7,5
0017157S	8 x 9	90	10
0017158S	10 x 11	100	12

Chiave a forchetta doppia piatta

Flat double open end wrench Inch - DIN 658 -



article no	size Inch/''	length mm	weight g
0017159S	5/32 x 3/16	60	5
0017160S	3/16 x 7/32	70	6
0017161S	1/4 x 9/32	80	7,5
0017162S	1/4 x 5/16	80	7,5
0017163S	5/16 x 11/32	90	10
0017164S	5/16 x 3/8	90	10
0017165S	5/16 x 13/32	100	12
0017166S	3/8 x 7/16	100	12

Chiave a forchetta doppia piatta

Single open end wrench

- DIN 894 -



article no	size mm	length mm	weight g
0020006S	6	90	14
0020007S	7	90	13
0020008S	8	90	12
0020009S	9	90	11
0020010S	10	100	25
0020011S	11	100	22
0020012S	12	140	45
0020013S	13	140	40
0020014S	14	165	80
0020015S	15	145	75
0020016S	16	165	70
0020017S	17	165	70
0020018S	18	165	70
0020019S	19	190	100
0020020S	20	190	95
0020021S	21	205	140
0020022S	22	205	130
0020023S	23	220	170
0020024S	24	220	170
0020025S	25	220	160
0020026S	26	220	160
0020027S	27	220	150
0020028S	28	250	270
0020029S	29	250	260
0020030S	30	250	250
0020032S	32	285	340
0020033S	33	285	340
0020034S	34	285	320
0020035S	35	285	320
0020036S	36	285	300
0020037S	37	285	300
0020038S	38	330	540
0020041S	41	330	520
0020042S	42	330	500
0020046S	46	360	650
0020047S	47	360	630
0020050S	50	440	1100
0020052S	52	440	1100
0020054S	54	440	1050
0020055S	55	440	1050
0020056S	56	440	1000
0020058S	58	480	1475
0020060S	60	480	1475
0020063S	63	520	1700
0020065S	65	520	1700
0020067S	67	520	1700

article no	size mm	length mm	weight g
0020070S	70	540	1900
0020071S	71	540	1900
0020075S	75	540	1800
0020077S	77	540	1800
0020080S	80	630	2900
0020082S	82	630	2800
0020085S	85	680	3400
0020088S	88	680	3300
0020090S	90	680	3200
0020094S	94	830	5000
0020095S	95	830	4800
0020100S	100	800	5900
0020105S	105	850	8900
0020110S	110	900	9000
0020115S	115	950	9300
0020120S	120	990	9600
0020125S	125	1000	8300
0020130S	130	1000	8300
0020135S	135	1000	8300

Chiave a forchetta singola

Single open end wrench Inch

- DIN 894 -



article no	size Inch/''	length mm	weight g
0021001S	1/4	90	14
0021002S	5/16	90	12
0021003S	11/32	90	11
0021004S	3/8	90	11
0021005S	13/32	100	25
0021006S	7/16	100	22
0021007S	1/2	140	40
0021008S	9/16	165	80
0021009S	19/32	165	75
0021010S	5/8	165	70
0021011S	11/16	165	70
0021012S	3/4	190	100
0021013S	25/32	190	95
0021014S	13/16	205	140
0021015S	7/8	205	130
0021016S	15/16	220	170
0021017S	31/32	220	170
0021018S	1	220	160
0021019S	1. 1/16	220	150
0021020S	1. 1/8	250	270
0021021S	1. 3/16	250	250
0021022S	1. 1/4	285	340
0021023S	1. 5/16	285	340
0021024S	1. 3/8	285	320
0021025S	1. 7/16	285	300
0021026S	1. 1/2	330	540
0021027S	1. 9/16	330	520
0021028S	1. 5/8	330	520
0021029S	1. 11/16	330	500
0021030S	1. 3/4	360	650
0021031S	1. 13/16	360	650
0021032S	1. 7/8	360	630
0021033S	2	440	1100
0021034S	2. 1/16	440	1100
0021035S	2. 1/8	440	1050
0021036S	2. 3/16	440	1050
0021037S	2. 1/4	480	1000
0021038S	2. 5/16	480	1475
0021039S	2. 3/8	480	1475
0021040S	2. 7/16	520	1700
0021041S	2. 1/2	520	1700
0021042S	2. 9/16	520	1700
0021043S	2. 5/8	520	1700
0021044S	2. 3/4	540	1900
0021045S	2. 13/16	540	1900
0021046S	2. 15/16	540	1900

article no	size Inch/''	length mm	weight g
0021047S	3	540	1800
0021048S	3. 1/8	630	2900
0021049S	3. 1/4	630	2800
0021050S	3. 3/8	680	3400
0021051S	3. 1/2	680	3300
0021052S	3. 5/8	680	3200
0021053S	3. 3/4	830	5000
0021054S	3. 7/8	830	4800

Chiave a forchetta singola

Combination wrench

- DIN 3113 -

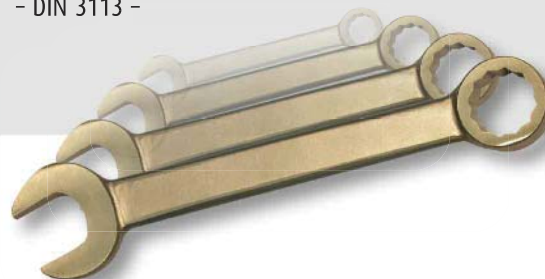


article no	size mm	length mm	weight g
0130006S	6	130	50
0130007S	7	130	55
0130008S	8	135	55
0130009S	9	150	95
0130010S	10	150	85
0130011S	11	150	90
0130012S	12	190	170
0130013S	13	190	165
0130014S	14	190	160
0130015S	15	210	230
0130016S	16	210	230
0130017S	17	210	220
0130018S	18	230	330
0130019S	19	230	330
0130020S	20	230	325
0130021S	21	250	360
0130022S	22	250	355
0130023S	23	250	350
0130024S	24	270	500
0130025S	25	270	475
0130026S	26	270	470
0130027S	27	280	665
0130028S	28	280	680
0130029S	29	280	630
0130030S	30	300	730
0130032S	32	300	650
0130034S	34	320	950
0130036S	36	330	930
0130038S	38	400	2150
0130041S	41	410	2000
0130046S	46	410	1900
0130050S	50	540	3400
0130055S	55	520	3500
0130060S	60	515	3300
0130065S	65	500	3200
0130070S	70	510	3800
0130075S	75	680	3900
0130080S	80	680	4000

Chiave combinata

Set of combination wrenches

- DIN 3113 -



description	article no	size mm	weight g
8pcs 8-19 mm	0130002S	8 - 9 - 10 - 11 13 - 14 - 17 - 19	1200
11pcs 8-22 mm	0130003S	8 - 10 - 11 - 12 13 - 14 - 16 - 17 18 - 19 - 22	2200
12pcs 10-32 mm	0130001S	10 - 11 - 12 - 13 14 - 17 - 19 - 22 24 - 27 - 30 - 32	4100
26pcs 6-32 mm	0130000S	6 - 7 - 8 - 9 10 - 11 - 12 - 13 14 - 15 - 16 - 17 18 - 19 - 20 - 21 22 - 23 - 24 - 25 26 - 27 - 28 - 29 30 - 32	8450

Set chiavi combinate

Combination wrench Inch

- DIN 3113 -

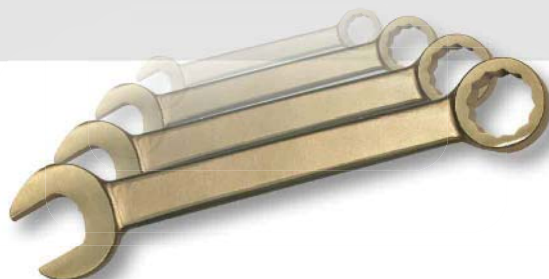


article no	size Inch/''	length mm	weight g
0137101S	1/4	135	45
0137102S	5/16	135	45
0137118S	11/32	150	60
0137103S	3/8	150	60
0137104S	7/16	150	60
0137105S	1/2	190	110
0137106S	9/16	190	110
0137107S	19/32	210	200
0137108S	5/8	210	200
0137109S	11/16	230	230
0137110S	3/4	230	230
0137119S	25/32	230	230
0137111S	13/16	250	300
0137112S	7/8	250	300
0137113S	15/16	270	410
0137120S	31/32	270	410
0137114S	1	270	410
0137115S	1. 1/16	280	510
0137116S	1. 1/8	280	510
0137121S	1. 3/16	300	570
0137117S	1. 1/4	300	570
0137122S	1. 5/16	300	570
0137123S	1. 3/8	330	840
0137124S	1. 7/16	330	840
0137125S	1. 1/2	330	840
0137126S	1. 9/16	410	2000
0137127S	1. 5/8	410	2000
0137128S	1. 11/16	410	2000
0137129S	1. 3/4	410	1900
0137130S	1. 13/16	410	1900
0137131S	1. 7/8	435	1600
0137132S	2	435	1600
0137133S	2. 1/16	435	1600
0137134S	2. 1/8	455	2000
0137135S	2. 3/16	455	2000
0137136S	2. 1/4	475	2500

Chiave combinata

Set of combination wrenches Inch

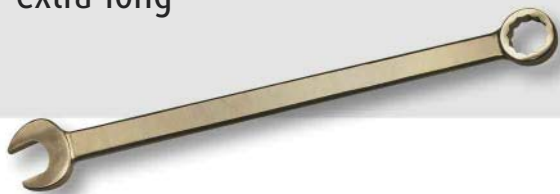
- DIN 3113 - 12pcs · 1/4 - 1.1/4''



article no	size Inch/''	weight g
0137100S	1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4 7/8 - 1 - 1.1/16 - 1.1/4	3300

Set chiavi combinate

Combination Wrench extra long



article no	size mm	length mm	weight g
0137140S	10	190	70
0137142S	12	210	70
0137143S	13	225	90
0137147S	17	280	135
0137149S	19	310	200
0137151S	22	350	260
0137153S	24	400	370
0137154S	27	450	500
0137155S	30	480	900
0137156S	32	500	730
0137159S	36	550	1200
0137160S	41	600	2000
0137161S	46	640	2800

Chiave combinata lunga

Sets of combination wrenches extra long



description	article no	size mm	weight g
6pcs 10-22 mm	0137162S	10 - 12 - 13 - 17 19 - 22	825
10pcs 10-32 mm	0137164S	10 - 12 - 13 - 17 19 - 22 - 24 - 27 30 - 32	3325

Set chiave combinata lunga

Combination wrench offset



article no	size mm	length mm	weight g
0137170S	10	148	70
0137172S	12	168	65
0137173S	13	185	80
0137177S	17	232	140
0137179S	19	258	190
0137182S	22	292	300
0137184S	24	318	370
0137187S	27	352	500
0137190S	30	390	645
0137191S	32	412	780

Chiave combinata piegata

Sets of combination wrenches offset



description	article no	size mm	weight g
6pcs 10-22 mm	0137206S	10 - 12 - 13 - 17 19 - 22	845
10pcs 10-32 mm	0137208S	10 - 12 - 13 - 17 19 - 22 - 24 - 27 30 - 32	3140

Set chiave combinata piegata

Double end box wrench offset - DIN 838 -



article no	size mm	length mm	weight g
0110607S	6 x 7	170	105
0110608S	6 x 8	170	110
0110708S	7 x 8	170	100
0110709S	7 x 9	170	100
0110809S	8 x 9	170	100
0110810S	8 x 10	180	140
0110910S	9 x 10	180	125
0110911S	9 x 11	180	135
0111011S	10 x 11	180	145
0111012S	10 x 12	180	140
0111013S	10 x 13	195	175
0111014S	10 x 14	195	170
0111113S	11 x 13	195	190
0111114S	11 x 14	195	180
0111213S	12 x 13	195	180
0111214S	12 x 14	195	180
0111314S	13 x 14	195	175
0111315S	13 x 15	230	240
0111316S	13 x 16	230	240
0111317S	13 x 17	230	250
0111415S	14 x 15	230	250
0111416S	14 x 16	230	240
0111417S	14 x 17	230	230
0111617S	16 x 17	230	240
0111618S	16 x 18	280	420
0111719S	17 x 19	280	400
0111722S	17 x 22	280	380
0111819S	18 x 19	280	400
0111820S	18 x 20	280	390
0111821S	18 x 21	280	390
0111922S	19 x 22	280	370
0111924S	19 x 24	290	530
0112022S	20 x 22	280	380
0112123S	21 x 23	290	510
0112124S	21 x 24	300	510
0112224S	22 x 24	300	510
0112227S	22 x 27	330	650
0112326S	23 x 26	330	670
0112426S	24 x 26	330	680
0112427S	24 x 27	330	670
0112430S	24 x 30	370	930
0112528S	25 x 28	330	660
0112629S	26 x 29	370	1000
0112729S	27 x 29	370	1000
0112730S	27 x 30	370	900
0112732S	27 x 32	370	900

article no	size mm	length mm	weight g
0113032S	30 x 32	370	860
0113034S	30 x 34	430	850
0113036S	30 x 36	430	1300
0113234S	32 x 34	430	1300
0113236S	32 x 36	430	1300
0113436S	34 x 36	430	1250
0113538S	35 x 38	450	1400
0113638S	36 x 38	450	1450
0113641S	36 x 41	450	1450
0113842S	38 x 42	450	1450
0114146S	41 x 46	460	1800
0114650S	46 x 50	480	2100
0115055S	50 x 55	540	3000
0115060S	50 x 60	540	2800
0115560S	55 x 60	540	2800
0116065S	60 x 65	690	4200
0116570S	65 x 70	690	4200
0117080S	70 x 80	770	6000
0117580S	75 x 80	790	6600
0118590S	85 x 90	800	7000

Chiave poligonale doppia

Set of double end box wrench offset - DIN 838 - 12pcs - 6-32 mm



article no	size mm	weight g
0110000S	6 x 7 - 8 x 9 - 10 x 11 12 x 13 - 14 x 15 - 16 x 17 18 x 19 - 20 x 22 - 21 x 23 24 x 27 - 25 x 28 - 30 x 32	4500

Set chiave poligonale doppia

Double end box wrench Inch offset - DIN 838 -



article no	size Inch/''	length mm	weight g
0117101S	1/4 x 5/16	170	110
0117102S	5/16 x 3/8	170	100
0117103S	3/8 x 7/16	180	135
0117104S	7/16 x 1/2	195	190
0117105S	1/2 x 9/16	195	175
0117113S	1/2 x 19/32	230	240
0117106S	9/16 x 5/8	230	250
0117107S	19/32 x 11/16	230	230
0117108S	5/8 x 11/16	230	240
0117109S	5/8 x 3/4	280	400
0117114S	11/16 x 3/4	280	400
0117115S	11/16 x 25/32	280	380
0117116S	3/4 x 25/32	280	360
0117110S	3/4 x 7/8	280	370
0117117S	13/16 x 7/8	280	380
0117118S	25/32 x 13/16	280	350
0117119S	7/8 x 15/16	300	510
0117120S	7/8 x 1	300	500
0117121S	7/8 x 1. 1/16	330	650
0117111S	15/16 x 1	330	670
0117122S	1 x 1. 1/8	330	660
0117123S	1. 1/16 x 1. 1/8	370	1000
0117112S	1. 1/16 x 1. 1/4	370	900
0117124S	1. 1/8 x 1. 5/16	370	880
0117125S	1. 3/16 x 1. 5/16	430	850
0117126S	1. 1/4 x 1. 5/16	430	1200
0117127S	1. 1/4 x 1. 3/8	430	1300
0117128S	1. 1/4 x 1. 7/16	430	1300
0117129S	1. 5/16 x 1. 1/2	430	1200
0117130S	1. 3/8 x 1. 1/2	450	1400
0117131S	1. 7/16 x 1. 5/8	450	1450
0117132S	1. 5/8 x 1. 13/16	460	1800
0117133S	1. 11/16 x 1. 7/8	460	1800
0117134S	1. 13/16 x 2	480	2100
0117135S	1. 3/4 x 2. 1/16	480	2000
0117136S	2 x 2. 3/16	540	3000
0117137S	2 x 2. 3/8	540	2800
0117138S	2. 3/16 x 2. 3/8	540	2800
0117139S	2. 1/4 x 2. 7/16	540	2700

Chiave poligonale doppia

Set of double end box wrench Inch offset

- DIN 838 - 8pcs · 1/4-1''



article no	size Inch/''	weight g
0117100S	1/4 x 5/16 - 3/8 x 7/16	2100
	7/16 x 1/2 - 1/2 x 9/16	
	9/16 x 5/8 - 5/8 x 11/16	
	3/4 x 7/8 - 15/16 x 1	

Set chiave poligonale doppia

Double end box wrench straight - DIN 837 -



article no	size mm	length mm	weight g
0120607S	6 x 7	100	12
0120809S	8 x 9	115	16
0120810S	8 x 10	120	20
0120911S	9 x 11	125	22
0121011S	10 x 11	130	24
0121013S	10 x 13	130	24
0121213S	12 x 13	140	40
0121214S	12 x 14	140	45
0121314S	13 x 14	140	45
0121315S	13 x 15	140	45
0121415S	14 x 15	155	48
0121317S	13 x 17	155	50
0121417S	14 x 17	155	50
0121617S	16 x 17	170	70
0121618S	16 x 18	170	65
0121719S	17 x 19	190	80
0121819S	18 x 19	190	80
0121922S	19 x 22	200	120
0121924S	19 x 24	200	120
0122022S	20 x 22	200	120
0122123S	21 x 23	200	120
0122224S	22 x 24	200	120
0122426S	24 x 26	210	135
0122427S	24 x 27	210	130
0122430S	24 x 30	255	185
0122528S	25 x 28	255	200
0122628S	26 x 28	255	190
0122729S	27 x 29	255	185
0122732S	27 x 32	265	228
0123032S	30 x 32	265	228
0123036S	30 x 36	285	284
0123236S	32 x 36	285	284
0123641S	36 x 41	460	330
0124146S	41 x 46	432	810
0124650S	46 x 50	477	1040

Chiave poligonale doppia diritta

Double end box wrench Inch straight - DIN 837 -



Artikel-Nr	size Inch/''	length mm	weight g
0120001S	1/4 x 5/16	100	12
0120002S	5/16 x 3/8	115	16
0120003S	3/8 x 7/16	125	22
0120004S	7/16 x 9/16	140	45
0120005S	1/2 x 5/8	155	50
0120006S	1/2 x 19/32	140	45
0120007S	9/16 x 11/16	155	50
0120008S	5/8 x 25/32	190	80
0120009S	11/16 x 3/4	190	80
0120010S	3/4 x 7/8	200	120
0120011S	13/16 x 15/16	200	120
0120012S	15/16 x 1. 1/16	210	130
0120013S	1 x 1. 1/8	255	200
0120014S	1. 3/16 x 1. 1/4	265	228

Set chiave poligonale doppia

Single box wrench 12-point - DIN 3111 -



Artikel-Nr	size mm	length mm	weight g
0090014S	14	140	130
0090015S	15	140	130
0090016S	16	155	150
0090017S	17	155	150
0090018S	18	170	250
0090019S	19	170	280
0090020S	20	190	280
0090021S	21	190	300
0090022S	22	190	300
0090023S	23	215	300
0090024S	24	215	400
0090025S	25	230	430
0090026S	26	230	450
0090027S	27	230	500
0090028S	28	265	520
0090029S	29	265	510
0090030S	30	265	500
0090032S	32	265	450
0090033S	33	265	430
0090034S	34	290	670
0090035S	35	290	660
0090036S	36	290	650
0090037S	37	325	900
0090038S	38	325	900
0090041S	41	325	900
0090042S	42	325	900
0090046S	46	365	1100
0090047S	47	365	1100
0090050S	50	400	1400
0090052S	52	430	1800
0090054S	54	430	1700
0090055S	55	445	1650
0090056S	56	465	1800
0090058S	58	465	1800
0090060S	60	465	2000
0090063S	63	500	2300
0090065S	65	500	2100
0090067S	67	500	2000
0090070S	70	550	3000
0090071S	71	550	2800
0090075S	75	620	5000
0090077S	77	620	5000
0090080S	80	620	4500
0090082S	82	620	4300
0090085S	85	650	5000
0090088S	88	650	4800
0090090S	90	650	4200
0090094S	94	700	5200
0090095S	95	700	5200

Chiave poligonale singola diritta

Single box wrench Inch 12-point - DIN 3111 -



article no	size Inch/''	length mm	weight g
0090001S	1/2	140	130
0090002S	9/16	140	130
0090003S	19/32	140	130
0090004S	5/8	155	150
0090005S	11/16	155	150
0090006S	3/4	170	280
0090007S	25/32	190	280
0090008S	13/16	190	300
0090009S	7/8	190	300
0090010S	15/16	215	400
0090011S	31/32	215	430
0090012S	1	230	430
0090013S	1. 1/16	230	500
0090096S	1. 1/8	265	520
0090097S	1. 3/16	265	500
0090098S	1. 1/4	265	450
0090099S	1. 5/16	265	430
0090100S	1. 3/8	290	660
0090101S	1. 7/16	325	900
0090102S	1. 1/2	325	900
0090103S	1. 9/16	325	850
0090104S	1. 5/8	325	900
0090105S	1. 11/16	325	850
0090106S	1. 3/4	365	1200
0090107S	1. 13/16	365	1100
0090108S	1. 7/8	365	1100
0090109S	2	400	1400
0090110S	2. 1/16	430	1800
0090111S	2. 1/8	430	1700
0090112S	2. 3/16	445	1650
0090113S	2. 1/4	465	1800
0090114S	2. 5/16	465	1800
0090115S	2. 3/8	465	2000
0090116S	2. 7/16	500	2100
0090117S	2. 1/2	500	2000
0090118S	2. 9/16	500	2100
0090119S	2. 3/4	550	3000
0090120S	2. 15/16	620	5000
0090121S	3	620	5000
0090122S	3. 1/8	620	4500
0090123S	3. 3/8	650	5000
0090124S	3. 1/2	650	4800
0090125S	3. 3/4	700	5200

Chiave poligonale singola diritta

Striking open end wrench

- DIN 133 -



article no	size mm	length mm	weight g
0030014S	14	180	350
0030017S	17	125	120
0030019S	19	120	125
0030022S	22	135	150
0030024S	24	150	200
0030027S	27	180	380
0030028S	28	180	370
0030029S	29	190	360
0030030S	30	190	350
0030032S	32	210	680
0030033S	33	210	670
0030034S	34	210	660
0030035S	35	210	650
0030036S	36	210	640
0030038S	38	210	630
0030041S	41	220	790
0030042S	42	220	750
0030046S	46	250	1150
0030047S	47	255	1200
0030050S	50	275	1350
0030052S	52	275	1500
0030054S	54	300	1900
0030055S	55	290	1600
0030056S	56	290	1550
0030058S	58	290	1500
0030060S	60	320	2600
0030063S	63	330	3000
0030065S	65	330	3000
0030067S	67	380	4200
0030070S	70	380	3800
0030071S	71	380	3700
0030075S	75	380	3600
0030077S	77	380	5000
0030080S	80	370	4800
0030082S	82	370	4700
0030085S	85	370	4500
0030088S	88	430	7200
0030090S	90	430	7000
0030094S	94	430	6900
0030095S	95	430	6800
0030100S	100	470	9500
0030105S	105	470	9300
0030110S	110	510	14100
0030115S	115	510	13300
0030120S	120	545	16400
0030125S	125	545	15500

article no	size mm	length mm	weight g
0030130S	130	575	19800
0030135S	135	575	19200
0030140S	140	575	19000
0030145S	145	640	27000
0030150S	150	640	26800
0030155S	155	640	26500
0030160S	160	640	26300
0030165S	165	715	39500
0030170S	170	715	38500
0030175S	175	715	37000
0030180S	180	715	36000
0030185S	185	715	35800
0030190S	190	715	38500
0030195S	195	715	38500
0030200S	200	715	38000
0030205S	205	715	37500
0030210S	210	715	37000
0030220S	220	715	36500
0030230S	230	715	36500

Chiave a percussione aperta

Striking open end wrench

Inch - DIN 133 -



article no	size Inch/''	length mm	weight g
0030001S	1	150	200
0030002S	1. 1/16	180	380
0030003S	1. 1/8	180	370
0030004S	1. 3/16	190	350
0030005S	1. 1/4	210	680
0030006S	1. 5/16	210	670
0030007S	1. 3/8	210	650
0030008S	1. 7/16	210	640
0030009S	1. 1/2	210	630
0030252S	1. 9/16	220	750
0030010S	1. 5/8	220	790
0030011S	1. 11/16	220	750
0030012S	1. 3/4	250	1100
0030013S	1. 13/16	250	1150
0030231S	1. 7/8	255	1200
0030232S	2	275	1350
0030233S	2. 1/16	275	1500
0030234S	2. 1/8	300	1900
0030235S	2. 3/16	290	1600
0030236S	2. 1/4	290	1500
0030237S	2. 5/16	290	1500
0030253S	2. 3/8	320	2600
0030238S	2. 7/16	330	3000
0030254S	2. 1/2	330	3000
0030239S	2. 9/16	330	3000
0030240S	2. 5/8	380	4200
0030241S	2. 3/4	380	3800
0030255S	2. 13/16	380	3700
0030256S	2. 15/16	380	3500
0030242S	3	380	4000
0030243S	3. 1/8	370	4800
0030244S	3. 1/4	370	4700
0030245S	3. 3/8	370	4500
0030246S	3. 1/2	430	7200
0030247S	3. 5/8	430	7000
0030248S	3. 3/4	430	6800
0030257S	3. 7/8	430	6600
0030249S	4	470	9500
0030250S	4. 1/8	470	9500
0030251S	4. 1/2	510	13300

Chiave a percussione (inch)

Striking box wrench

12-point - DIN 7444 -



article no	size mm	length mm	weight g
0100017S	17	150	400
0100019S	19	150	400
0100022S	22	150	350
0100024S	24	150	350
0100027S	27	190	600
0100028S	28	190	580
0100029S	29	190	560
0100030S	30	190	550
0100032S	32	190	580
0100033S	33	190	570
0100034S	34	210	680
0100035S	35	210	700
0100036S	36	210	690
0100037S	37	210	680
0100038S	38	230	1100
0100041S	41	230	1000
0100042S	42	230	1000
0100046S	46	240	1250
0100047S	47	240	1270
0100050S	50	255	1400
0100052S	52	255	1400
0100054S	54	255	1350
0100055S	55	255	1340
0100056S	56	255	1330
0100057S	57	255	1300
0100058S	58	280	2500
0100060S	60	280	2400
0100063S	63	295	2900
0100065S	65	295	2800
0100067S	67	295	2700
0100070S	70	320	3400
0100071S	71	320	3300
0100075S	75	320	3200
0100076S	76	320	3100
0100077S	77	320	3000
0100080S	80	355	3600
0100082S	82	355	3500
0100085S	85	365	5000
0100088S	88	360	4800
0100090S	90	360	4600
0100094S	94	360	4500
0100095S	95	360	4400
0100100S	100	360	4200
0100105S	105	360	3900
0100110S	110	450	8600
0100115S	115	450	8100

article no	size mm	length mm	weight g
0100120S	120	480	9700
0100125S	125	480	9500
0100128S	128	520	13200
0100130S	130	520	13200
0100135S	135	520	12900
0100140S	140	520	12900
0100145S	145	580	19000
0100150S	150	580	18000
0100155S	155	580	17200
0100160S	160	580	19000
0100165S	165	650	28000
0100170S	170	650	27700
0100175S	175	650	27000
0100180S	180	650	26000
0100185S	185	700	32700
0100190S	190	700	32200
0100195S	195	700	31800
0100200S	200	700	31000

Chiave poligonale a percussione

Striking box wrench Inch 12-point - DIN 7444 -



article no	size Inch/''	length mm	weight g
0100201S	11/16	150	400
0100202S	3/4	150	400
0100203S	25/32	150	390
0100204S	13/16	150	380
0100205S	7/8	150	350
0100206S	15/16	150	350
0100207S	1	150	340
0100208S	1. 1/16	190	700
0100209S	1. 1/8	190	580
0100210S	1. 1/4	190	580
0100211S	1. 3/16	190	550
0100006S	1. 5/16	190	570
0100212S	1. 3/8	210	700
0100008S	1. 7/16	210	690
0100009S	1. 1/2	230	1100
0100010S	1. 9/16	230	1000
0100213S	1. 5/8	230	1000
0100214S	1. 11/16	230	1000
0100013S	1. 3/4	240	1200
0100215S	1. 13/16	240	1250
0100216S	1. 7/8	240	1270
0100217S	2	255	1400
0100233S	2. 1/16	255	1400
0100218S	2. 1/8	255	1350
0100219S	2. 3/16	255	1340
0100220S	2. 1/4	255	1300
0100234S	2. 5/16	280	2500
0100221S	2. 3/8	280	2400
0100235S	2. 7/16	295	2700
0100236S	2. 1/2	295	2900
0100222S	2. 9/16	295	2800
0100223S	2. 5/8	295	2700
0100224S	2. 3/4	320	3200
0100237S	2. 13/16	320	3300
0100225S	2. 7/8	320	3300
0100226S	2. 15/16	320	3200
0100227S	3	320	3100
0100230S	3. 1/8	355	3600
0100238S	3. 1/4	355	3500
0100239S	3. 3/8	365	5000
0100240S	3. 1/2	360	4800
0100241S	3. 5/8	360	4500
0100231S	3. 3/4	360	4500
0100232S	3. 7/8	360	4300
0100242S	4	360	4200
0100243S	4. 1/8	360	3900
0100244S	4. 1/2	450	8100

Chiave poligonale a percussione

Striking box wrench offset • 12-point



article no	size mm	length mm	weight g
0100250S	27	245	1100
0100251S	30	270	1500
0100252S	32	270	1500
0100253S	36	280	1600
0100254S	41	310	2100
0100255S	46	320	2500
0100256S	50	320	2500
0100257S	55	320	2600
0100258S	60	355	3200
0100259S	65	380	3800
0100260S	70	400	4600
0100261S	75	420	5700
0100262S	80	440	6600
0100263S	85	440	7000
0100264S	90	440	9300
0100265S	95	440	10000
0100266S	100	440	11700
0100267S	110	440	13400
0100268S	115	440	14500

Chiave poligonale a percussione

Further dimensions on request!

Long handle open end wrench

90° 45° 15°



*please add your desired position of the jaw
(e.g. 0310022S-45 for 22 mm and 45°)

article no + degrees	size mm	length mm	weight g
0310022S-*	22	320	450
0310023S-*	23	320	450
0310024S-*	24	350	600
0310025S-*	25	350	600
0310026S-*	26	380	850
0310027S-*	27	380	850
0310028S-*	28	420	1000
0310029S-*	29	420	1000
0310030S-*	30	450	1000
0310032S-*	32	450	1000
0310033S-*	33	450	1000
0310034S-*	34	450	1000
0310035S-*	35	500	1400
0310036S-*	36	500	1400
0310037S-*	37	500	1400
0310038S-*	38	500	1400
0310041S-*	41	550	1800
0310042S-*	42	550	1800
0310046S-*	46	600	2500
0310047S-*	47	600	2500
0310050S-*	50	660	3200
0310052S-*	52	660	3200
0310054S-*	54	660	4400
0310055S-*	55	730	4400
0310056S-*	56	730	4400
0310058S-*	58	800	5600
0310060S-*	60	800	5600

Chiave a forchetta lunga

Long handle open end wrench Inch

90° 45° 15°



*please add your desired position of the jaw
(e.g. 0310005S-45 for 1" and 45°)

article no + degrees	size Inch/"	length mm	weight g
0310001S-*	13/16	320	450
0310002S-*	7/8	320	450
0310003S-*	15/16	350	600
0310004S-*	31/32	350	600
0310005S-*	1	350	600
0310006S-*	1. 1/16	380	850
0310007S-*	1. 1/8	420	1000
0310008S-*	1. 3/16	450	1000
0310009S-*	1. 1/4	450	1000
0310010S-*	1. 5/16	450	1000
0310011S-*	1. 3/8	500	1400
0310012S-*	1. 7/16	500	1400
0310013S-*	1. 1/2	500	1400
0310014S-*	1. 9/16	550	1800
0310015S-*	1. 5/8	550	1800
0310016S-*	1. 11/16	550	1800
0310017S-*	1. 3/4	600	2500
0310018S-*	1. 13/16	600	2500
0310019S-*	1. 7/8	600	2500
0310020S-*	2	660	3200
0310021S-*	2. 1/16	660	3200
0310061S-*	2. 1/8	660	4400
0310062S-*	2. 3/16	730	4400
0310063S-*	2. 1/4	800	4400
0310064S-*	2. 5/16	800	5600
0310065S-*	2. 3/8	800	5600

Chiave a forchetta lunga

Box wrench for extension



article no	size mm	length mm	weight g
0270025S	22	260	960
0270024S	24	260	1000
0270027S	27	260	960
0270030S	30	260	950
0270032S	32	260	940
0270033S	33	260	920
0270034S	34	260	910
0270035S	35	260	910
0270036S	36	260	910
0270037S	37	270	1200
0270038S	38	270	1900
0270041S	41	270	1100
0270042S	42	270	1100
0270046S	46	300	1500
0270047S	47	300	1500
0270050S	50	300	1700
0270052S	52	350	2600
0270054S	54	350	2500
0270055S	55	300	1900
0270056S	56	350	2600
0270058S	58	350	2500
0270060S	60	370	2500
0270063S	63	370	2500
0270065S	65	400	3200
0270067S	67	400	3100
0270070S	70	400	3000
0270071S	71	400	2800
0270075S	75	400	2700
0270077S	77	400	2600
0270080S	80	410	5000
0270082S	82	410	5000
0270085S	85	410	5100
0270090S	90	410	5010
0270095S	95	410	4790
0270100S	100	412	4545

Chiave poligonale con estensione

Box wrench for extension Inch



article no	size Inch/''	length mm	weight g
0270001S	1. 3/16	260	950
0270002S	1. 1/4	260	940
0270003S	1. 5/16	260	920
0270004S	1. 3/8	260	910
0270005S	1. 7/16	260	910
0270006S	1. 1/2	270	1900
0270007S	1. 9/16	270	1200
0270008S	1. 5/8	270	1100
0270009S	1. 11/16	270	1100
0270010S	1. 3/4	270	1000
0270011S	1. 13/16	300	1500
0270012S	1. 7/8	300	1500
0270013S	2	300	1700
0270014S	2. 1/16	350	2600
0270015S	2. 1/8	350	2400
0270016S	2. 3/16	300	1900
0270017S	2. 1/4	350	2500
0270018S	2. 5/16	350	2500
0270019S	2. 3/8	370	2500
0270020S	2. 7/16	370	2500
0270021S	2. 1/2	370	2500
0270022S	2. 9/16	400	3200
0270023S	2. 5/8	400	3100
0270104S	2. 3/4	400	3000
0270105S	2. 13/16	400	2800
0270106S	2. 15/16	400	2700
0270107S	3	400	2500
0270108S	3. 1/8	410	4900
0270109S	3. 1/4	410	5000
0270110S	3. 3/8	410	5100

Chiave poligonale con estensione

Set of box wrenches for extension 3 extensions, 15 wrenches



article no	size mm	weight g
0270111S	24 - 27 - 30 - 32 - 36	40200
	41 - 46 - 50 - 55 - 60	
	65 - 70 - 75 - 80 - 85	
	Extensions 22-42 / 46-58 / 60-100	

Set chiave poligonale

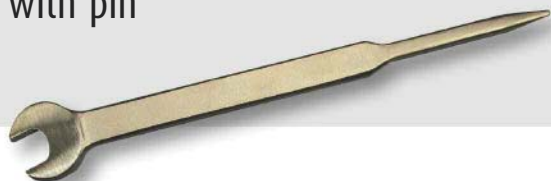
Extension for box wrenches



article no	size mm/Inch/''	Ø x length mm	weight g
0271001S	22-42 1.3/16	22 x 600 - 1.5/8	1100
0271002S	46-58 1.11/16	25 x 750 - 2.1/4	2800
0271003S	60-100 2.5/16	30 x 850 - 3.3/8	3800

Leva per chiave poligonale

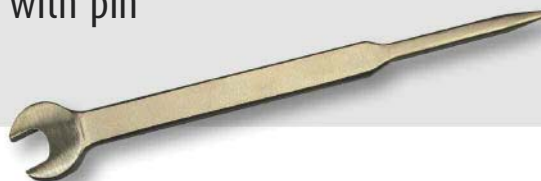
Construction wrench with pin



article no	size mm	length mm	weight g
0137300S	17	320	270
0137301S	18	320	270
0137302S	19	350	465
0137303S	20	350	465
0137304S	21	350	465
0137305S	22	350	465
0137306S	23	370	650
0137307S	24	370	650
0137308S	25	370	650
0137309S	26	370	650
0137310S	27	370	650
0137311S	28	400	950
0137312S	29	400	950
0137313S	30	400	950
0137314S	32	400	950
0137315S	33	400	950
0137316S	34	400	950
0137317S	35	430	1400
0137318S	36	430	1400
0137319S	37	430	1400
0137320S	38	430	1400
0137321S	41	470	1900
0137322S	42	470	1900
0137323S	46	500	2700
0137324S	47	500	2700
0137325S	50	530	3550

Chiave aperta con codolo

Construction wrench Inch with pin



article no	size Inch/''	length mm	weight g
0137326S	11/16	320	270
0137327S	3/4	350	270
0137328S	25/32	350	465
0137329S	13/16	350	465
0137330S	7/8	350	465
0137331S	15/16	370	465
0137332S	31/32	370	650
0137333S	1	370	650
0137334S	1. 1/16	370	650
0137335S	1. 1/8	400	650
0137336S	1. 3/16	400	650
0137337S	1. 1/4	400	950
0137338S	1. 5/16	400	950
0137339S	1. 3/8	430	950
0137340S	1. 7/16	430	1400
0137341S	1. 1/2	430	1400
0137342S	1. 9/16	470	1400
0137343S	1. 5/8	470	1900
0137344S	1. 11/16	470	1900
0137345S	1. 3/4	500	1900
0137346S	1. 13/16	500	2700
0137347S	1. 7/8	500	2700
0137348S	2	530	3550

Chiave aperta con codolo

Construction wrench with pin offset



article no	size mm	length mm	weight g
0137349S	17	320	295
0137350S	18	320	295
0137351S	19	350	510
0137352S	20	350	510
0137353S	21	350	510
0137354S	22	350	510
0137355S	23	370	715
0137356S	24	370	715
0137357S	25	370	715
0137358S	26	370	715
0137359S	27	370	715
0137360S	28	400	1145
0137361S	29	400	1145
0137362S	30	400	1145
0137363S	32	400	1145
0137364S	33	400	1145
0137365S	34	400	1145
0137366S	35	430	1540
0137367S	36	430	1540
0137368S	37	430	1540
0137369S	38	430	1540
0137370S	41	470	2090
0137371S	42	470	2090
0137372S	46	500	2970
0137373S	47	500	2970
0137374S	50	530	3900

Chiave aperta con codolo piegata

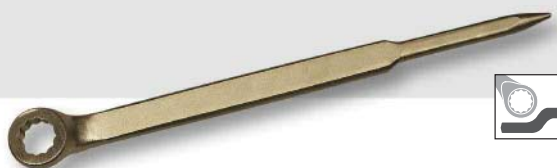
Construction wrench Inch with pin offset



article no	size Inch/''	length mm	weight g
0137375S	11/16	290	295
0137376S	7/8	355	510
0137377S	15/16	355	510
0137378S	1. 1/16	380	715
0137379S	1. 3/16	410	715
0137380S	1. 1/4	380	1145
0137381S	1. 7/16	460	1540
0137382S	1. 1/2	460	1145
0137383S	1. 5/8	510	2090
0137384S	1. 13/16	550	2970
0137385S	2	550	3900

Chiave aperta con codolo piegata

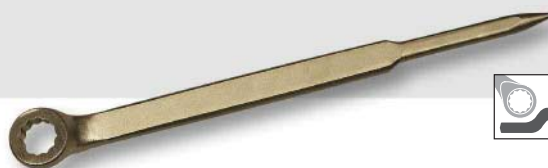
Construction box wrench with pin offset



article no	size mm	length mm	weight g
0137500S	17	320	295
0137501S	18	320	295
0137502S	19	350	510
0137503S	20	350	510
0137504S	21	350	510
0137505S	22	350	510
0137506S	23	370	715
0137507S	24	370	715
0137508S	25	370	715
0137509S	26	370	715
0137510S	27	370	715
0137511S	28	400	1145
0137512S	29	400	1145
0137513S	30	400	1145
0137514S	32	400	1145
0137515S	33	400	1145
0137516S	34	400	1145
0137517S	35	430	1540
0137518S	36	430	1540
0137519S	37	430	1540
0137520S	38	430	1540
0137521S	41	470	2090
0137522S	42	470	2090
0137523S	46	500	2970
0137524S	47	500	2970
0137525S	50	530	3900

Chiave poligonale con codolo

Construction box wrench Inch with pin offset



article no	size Inch/''	length mm	weight g
0137526S	11/16	290	295
0137527S	7/8	355	510
0137528S	15/16	355	510
0137529S	1. 1/16	380	715
0137530S	1. 3/16	410	715
0137531S	1. 1/4	380	1145
0137532S	1. 7/16	460	1540
0137533S	1. 1/2	460	1145
0137534S	1. 5/8	510	2090
0137535S	1. 13/16	550	2970
0137536S	2	550	3900

Chiave poligonale con codolo

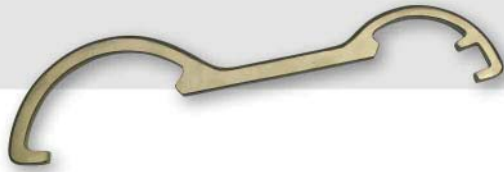


**CHIAVI SPECIALI DI MANOVRA &
CHIAVI PER VALVOLE**

SPECIAL WRENCHES

Hose coupling wrench

A-B-C - DIN 14822 -



article no	Ø mm	length mm	weight g
70304555	14	440	800

Chiave per raccordi

Adjustable hook wrench



article no	Ø mm	length mm	weight g
09132755	32 - 75	205	230
09150125	50 - 120	285	450
09111175	115 - 170	310	500

Chiave a settore regolabile

Hose coupling wrench

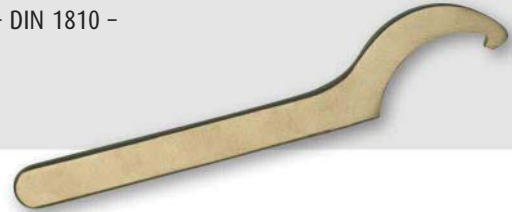
B-C



article no	Ø mm	length mm	weight g
70302855	12	280	450

Hook wrench

- DIN 1810 -



article no	Ø mm	length mm	weight g
09012145	12 - 14	110	30
09016205	16 - 20	110	30
09025285	25 - 28	135	50
09030325	30 - 32	135	50
09034365	34 - 36	170	100
09040425	40 - 42	170	100
09045505	45 - 50	205	190
09052555	52 - 55	205	190
09058625	58 - 62	240	215
09068755	68 - 75	240	200
09080905	80 - 90	280	410
09095105	95 - 100	280	410
09097005	110 - 115	335	730
09098005	120 - 130	335	730
09099005	135 - 145	390	1150
09099905	155 - 165	390	1150
09099915	180 - 195	465	1410
09099925	205 - 220	465	1385

Chiave a settore fissa

Valve Wheel Hook



article no	size mm	length mm	weight g
7000500S	30 - 40	500	720

Chiave per valvole

Valve wheel wrench

- DIN 87311 -



article no	Ø mm	length mm	weight g
7013660S	36 x 60	370	650
7014880S	48 x 80	430	1300
7014810S	62 x 102	550	2600

Chiave per valvole

Valve Wheel Hook



article no	Ø x distance mm	length mm	weight g
7021330S	13 x 30	300	350
7021335S	13 x 35	350	600
7021640S	16 x 40	400	680
7021645S	16 x 45	450	1100
7021950S	19 x 50	500	1200
7022260S	22 x 60	600	2000
7022570S	25 x 70	700	3000
7022880S	28 x 80	800	5300

Chiave per valvole

B-valve wheel wrench



article no	Ø mm	length mm	weight g
9991010S	36 x 60	330	600
9991011S	48 x 80	470	1400
9991012S	62 x 102	600	2600

Chiave per valvole

Face spanner



article no	pin distance	pin Ø	length mm	weight g
9991024S	35	5 m	180	150

Chiave a perno

Wrench for valve of tanktruck



article no	pin mm	outer dimension	cut-out	handle	weight g
Typ A 9991007S	20	160 x 90	64 x 32	500	1800
Typ B 9991008S	20	150 x 90	64 x 32	500	1600
Typ C 9991009S	20	190 x 90	95 x 47,5	500	2500

Chiave per valvole cisterna

Square point socket

L-type



article no	size mm	length mm	weight g
0341110S	8	150	90
0341111S	9	160	100
0341112S	10	175	120
0341113S	12	215	220
0341114S	13	230	280
0341115S	14	240	280
0341116S	17	280	330

Chiave quadra piegata**Triangle tube socket**

- DIN 22417 -



article no	size mm	length mm	weight g
0300004S	M 4	95	80
0300005S	M 5	110	100
0300006S	M 6	115	170
0300008S	M 8	125	280
0300010S	M10	140	390
0300012S	M12	160	700
0300016S	M16	180	980
0300020S	M20	200	2100
0300024S	M24	220	3100

Chiave tubo innesto triangolare**Triangle socket 1/2"**

article no	size	length mm	weight g
0359502S	M 6	40	70
0359503S	M 8	40	75
0359504S	M10	40	80
0359505S	M12	40	90
0359506S	M16	50	150
0359507S	M20	50	215
0359508S	M24	60	435

bussola innesto triangolare

Bung wrench
universal

article no	length mm	weight g
01503805	380	1250

Chiave per fusti

Special bung wrench

article no	length mm	weight g
01503825	400	1700

Chiave per fusti

Bung wrench

article no	length mm	weight g
01503815	300	600

Chiave per fusti

Manhole-hook

article no	length mm	weight g
72400035	500	770

Gancio per botola

Manhole-hook
strong pattern

article no	length mm	weight g
72400025	700	1200

Gancio per botola

Socket wrench 6-point



article no	size mm	length mm	weight g
0251055S	8	190	110
0251056S	9	200	135
0251057S	10	215	160
0251058S	11	230	210
0251059S	12	250	260
0251060S	13	265	350
0251061S	14	265	350
0251062S	15	280	400
0251063S	16	280	400
0251064S	17	300	450
0251065S	18	300	450
0251066S	19	325	650
0251067S	20	325	650
0251068S	21	350	830
0251069S	22	350	830
0251070S	23	380	1140
0251071S	24	380	1140
0251072S	25	415	1450
0251073S	26	415	1450
0251074S	27	415	1450
0251075S	28	450	1800
0251076S	29	450	1800
0251077S	30	450	1800
0251078S	32	485	2450
0251079S	33	485	2450
0251080S	34	485	2450
0251081S	35	530	3300
0251082S	36	530	3300
0251083S	37	530	3300
0251084S	38	530	3300
0251085S	41	580	4000
0251086S	42	580	4000
0251087S	46	635	4800
0251088S	47	635	4800
0251089S	50	320	4900
0251090S	52	320	4900
0251091S	54	340	6500
0251092S	55	340	6500
0251093S	56	340	6500
0251094S	58	360	8300
0251095S	60	360	8300
0251096S	63	360	8300
0251097S	65	380	10500
0251098S	67	380	10500
0251099S	70	380	10500
0251100S	71	380	10500

article no	size mm	length mm	weight g
0251101S	75	400	14300
0251102S	77	400	14300
0251103S	80	400	14300
0251104S	82	400	14300
0251105S	85	425	19200
0251106S	88	425	19200
0251107S	90	425	19200
0251108S	94	455	26000
0251109S	95	455	26000
0251110S	100	455	26000

Chiave esagonale lunga

Bar for socket wrench 6-point



article no	Ø mm	up to SW mm	length mm	weight g
0251111S	6	10	150	40
0251112S	8	12	190	75
0251113S	10	16	190	90
0251114S	10	22	250	185
0251115S	12	27	315	310
0251116S	16	34	400	600
0251117S	16	38	500	920
0251118S	20	47	630	1600
0251119S	24	63	800	3100
0251120S	24	63	1000	3850
0251121S	30	82	1250	7500
0251122S	36	100	1600	15000

Leva per chiave esagonale

Socket wrench L-type 6-point



article no	size mm	length mm	weight g
0340008S	8	175	100
0340009S	9	185	120
0340010S	10	195	140
0340011S	11	205	180
0340012S	12	220	220
0340013S	13	240	280
0340014S	14	240	280
0340015S	15	250	300
0340016S	16	250	300
0340017S	17	270	320
0340018S	18	270	320
0340019S	19	290	530
0340020S	20	290	530
0340021S	21	310	680
0340022S	22	310	680
0340023S	23	335	830
0340024S	24	335	830
0340025S	25	365	1000
0340026S	26	365	1000
0340027S	27	365	1000
0340028S	28	395	1300
0340029S	29	395	1300
0340030S	30	395	1300
0340032S	32	425	1700
0340033S	33	425	1700
0340034S	34	425	1700
0340035S	35	465	2800
0340036S	36	465	2800
0340037S	37	465	2800
0340038S	38	465	2800
0340041S	41	510	3600
0340042S	42	510	3600
0340046S	46	555	4000
0340047S	47	555	4000
0340050S	50	605	4800
0340052S	52	605	4800
0340054S	54	660	6400
0340055S	55	660	6400
0340056S	56	660	6400
0340058S	58	730	8200
0340060S	60	730	8200
0340063S	63	730	8200
0340065S	65	800	10400
0340067S	67	800	10400
0340070S	70	800	10400
0340071S	71	800	10400
0340075S	75	880	14100
0340077S	77	880	14100
0340080S	80	880	14100
0340082S	82	880	14100

Chiave esagonale a L

Socket wrench 6-point Double ended



article no	size mm	length mm	weight g
0340083S	7 x 8	95	50
0340084S	9 x 10	105	70
0340085S	10 x 11	120	85
0340086S	12 x 14	135	160
0340087S	14 x 17	150	205
0340088S	17 x 19	160	280
0340089S	19 x 22	170	335
0340090S	20 x 22	170	355
0340091S	24 x 26	180	480
0340092S	24 x 27	190	530
0340093S	27 x 32	200	870
0340094S	30 x 32	210	890
0340095S	30 x 36	220	1080
0340096S	36 x 41	230	1700

Chiave esagonale doppia

Bar for double ended socket wrench 6-point



article no	Ø mm	up to SW mm	length mm	weight g
0340097S	5	7 x 8	110	15
0340098S	6	10 x 11	150	40
0340099S	10	14 x 17	220	120
0340100S	12	20 x 22	300	300
0340101S	15	24 x 27	390	480
0340102S	16	36 x 41	500	750

Leva per chiave esagonale

Further dimensions on request!

Socket wrench
6-point
with t-handle

article no	size mm	length mm	weight g
0340108S	8	196	140
0340109S	9	209	165
0340110S	10	223	190
0340111S	11	240	260
0340112S	12	256	310
0340113S	13	275	410
0340114S	14	275	410
0340115S	15	292	455
0340116S	16	292	455
0340117S	17	314	555
0340118S	18	314	555
0340119S	19	339	785
0340120S	20	339	785
0340121S	21	376	1050
0340122S	22	376	1050
0340123S	23	393	1240
0340124S	24	393	1240
0340125S	25	431	1700
0340126S	26	431	1700
0340127S	27	431	1700
0340128S	28	464	2100
0340129S	29	464	2100
0340130S	30	464	2100
0340132S	32	506	2750
0340133S	33	506	2750
0340134S	34	506	2750
0340135S	35	550	4000
0340136S	36	550	4000
0340137S	37	550	4000
0340138S	38	550	4000
0340141S	41	600	5400
0340142S	42	600	5400
0340146S	46	655	6000
0340147S	47	655	6000
0340150S	50	345	6300
0340152S	52	345	6300
0340154S	54	365	8000
0340155S	55	365	8000
0340156S	56	365	8000
0340158S	58	390	10500
0340160S	60	390	10500
0340163S	63	390	10500
0340165S	65	410	14000
0340167S	67	410	14000
0340170S	70	410	14000

article no	size mm	length mm	weight g
0340171S	71	410	14000
0340175S	75	430	19000
0340177S	77	430	19000
0340180S	80	430	19000
0340182S	82	430	19000

Chiave esagonale a T

Pin wrench 6-point



article no	size mm	length mm	weight g
0341035C	3,5	175	55
0341040C	4	180	55
0341045C	4,5	180	60
0341050C	5	185	60
0341055C	5,5	190	65
0341060C	6	190	65
0341065C	6,5	190	80
0341070C	7	200	80
0341075C	7,5	200	100
0341080C	8	210	100
0341090C	9	210	115
0341010C	10	220	115
0341011C	11	220	130
0341012C	12	230	170
0341013C	13	230	210
0341014C	14	240	210
0341015S	15	240	235
0341016S	16	250	235
0341017S	17	250	240

Chiave esagonale manicata

Pin wrench 6-point Inch



article no	size Inch/''	length mm	weight g
0341091C	1/8	175	55
0341092C	5/32	180	55
0341093C	3/16	185	60
0341094C	7/32	190	65
0341095C	1/4	190	80
0341096C	5/16	210	100
0341097C	3/8	220	115
0341098C	7/16	230	170
0341099C	1/2	230	210
0341100S	9/16	240	235
0341101S	5/8	250	235
0341102S	11/16	250	240

Chiave esagonale manicata

Claw spanner without bar



article no	size mm	length mm	weight g
0137600S	13	160	100
0137601S	14	160	100
0137602S	15	200	170
0137603S	16	200	170
0137604S	17	200	190
0137605S	18	200	220
0137606S	19	200	250
0137607S	20	200	260
0137608S	21	200	300
0137609S	22	200	350
0137610S	23	250	400
0137611S	24	250	400
0137612S	25	250	450
0137613S	26	250	450
0137614S	27	250	500
0137615S	28	250	550
0137616S	29	250	600
0137617S	30	250	650
0137618S	32	250	700
0137619S	36	315	1150
0137620S	41	315	1230
0137621S	46	315	1500
0137622S	50	315	1600

Chiave ad artiglio

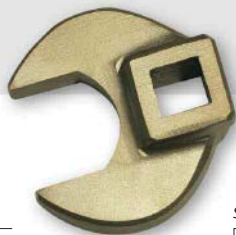
Bar for claw spanner



article no	size mm	length mm	weight g
0137623S	8 x 160	13 - 15	70
0137624S	10 x 200	16 - 18	130
0137625S	12 x 200	19 - 22	220
0137626S	14 x 250	23 - 27	400
0137627S	16 x 250	28 - 32	600
0137628S	18 x 315	36 - 41	1000
0137629S	20 x 315	46 - 50	1600

Leva per chiave

Crow foot spanner 1/2"



article no	size mm	weight g
0137630S	13	50
0137631S	14	50
0137632S	15	80
0137633S	16	80
0137634S	17	80
0137635S	18	110
0137636S	19	120
0137637S	20	130
0137638S	21	150
0137639S	22	170
0137640S	23	200
0137641S	24	200
0137642S	25	220
0137643S	26	220
0137644S	27	250
0137645S	28	270
0137646S	29	300
0137647S	30	320
0137648S	32	350
0137649S	36	570
0137650S	41	620
0137651S	46	750
0137652S	50	800

Chiave ad artiglio sciolta

Special extension for crowfoot spanner 1/2"



article no	length mm	weight g
0137653S	150	200
0137654S	250	400

Estensione speciale

Further dimensions on request!

Ratchet wrench 6-point



article no	size mm	length mm	weight g
0137400S	17	230	620
0137401S	19	240	650
0137402S	21	250	830
0137403S	22	260	830
0137404S	24	270	1020
0137405S	26	280	1050
0137406S	27	285	1100
0137407S	30	300	1320
0137408S	32	315	1425
0137409S	35	325	1630
0137410S	36	330	1670
0137411S	41	330	1950

Chiave poligonale a cricco

Ratchet wrench 12-point



article no	size mm	length mm	weight g
0137416C	9	150	125
0137402C	11	150	125
0137405C	13	155	160
0137409C	14	155	160
0137400C	17	200	260
0137401C	19	200	260
0137403C	22	220	340
0137404C	24	220	340
0137406C	27	245	560
0137407C	30	280	840
0137408C	32	280	840
0137410C	36	290	1180
0137411C	41	295	1230
0137412C	46	360	2060
0137413C	50	360	2230
0137414C	55	440	2900
0137415C	60	440	2900

Chiave a cricco 12 punti

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A large light blue rectangular area with a drop shadow, used to redact the distributor's name and contact information.